

Lewis County  
Department of Public Works  
Engineering Division

**CONTRACT  
PROVISIONS AND PLANS  
FOR THE:  
*LITTLE HANAFORD ROAD*  
*MP 4.1*  
*SLIDE REPAIR PROJECT*  
COUNTY PROJECT NO. 90-22F171510410  
May, 2023**

Lewis County Public Works  
57 W. Main  
Chehalis, WA 98532-2626

**Approved for Construction:**



04/18/2023

\_\_\_\_\_  
Assistant County Engineer

04/18/2023

\_\_\_\_\_  
Date

\_\_\_\_\_  
Project Engineer

**BOARD OF COUNTY COMMISSIONERS**

Sean Swope, District No. 1  
Lindsey R. Pollock, DVM, District No. 2  
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# TABLE OF CONTENTS

<b>TABLE OF CONTENTS .....</b>	<b>I</b>
<b>SPECIAL PROVISIONS .....</b>	<b>1</b>
<b>1-01, DESCRIPTION OF WORK .....</b>	<b>1</b>
1-01.3 <i>Definitions</i> .....	2
<b>1-02, BID PROCEDURES AND CONDITIONS.....</b>	<b>3</b>
1-02.1 <i>Prequalification of Bidders</i> .....	3
1-02.2 <i>Plans and Specifications</i> .....	3
1-02.6 <i>Preparation Of Proposal</i> .....	4
1-02.12 <i>Public Opening Of Proposal</i> .....	4
1-02.13 <i>Irregular Proposals</i> .....	4
1-02.14 <i>Disqualification of Bidders</i> .....	5
1-02.15 <i>Pre Award Information</i> .....	8
<b>1-03, AWARD AND EXECUTION OF CONTRACT .....</b>	<b>8</b>
1-03.3 <i>Execution of Contract</i> .....	8
1-03.4 <i>Contract Bond</i> .....	9
1-03.7 <i>Judicial Review</i> .....	10
<b>1-05, CONTROL OF WORK.....</b>	<b>10</b>
1-05.7 <i>Removal of Defective and Unauthorized Work</i> .....	10
1-05.13 <i>Superintendents, Labor and Equipment of Contractor</i> .....	11
1-05.14 <i>Cooperation With Other Contractors</i> .....	11
1-05.15 <i>Method of Serving Notices</i> .....	11
<b>1-06, CONTROL OF MATERIALS .....</b>	<b>11</b>
1-06.6 <i>Recycled Materials</i> .....	11
<b>1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC .....</b>	<b>11</b>
1-07.1 <i>Laws to be Observed</i> .....	11
1-07.2 <i>State Taxes</i> .....	12
1-07.2(1) <i>State Sales Tax — Rule 171</i> .....	12
1-07.2(2) <i>State Sales Tax — Rule 170</i> .....	13
1-07.2(3) <i>Services</i> .....	13
1-07.5 <i>Environmental Regulations</i> .....	13
<i>Section 1-07.5 is supplemented with the following:</i> .....	13
1-07.6 <i>Permits and Licenses</i> .....	14
1-07.9 <i>Wages</i> .....	14
1-07.11 <i>Requirements For Nondiscrimination</i> .....	15
1-07.17 <i>Utilities And Similar Facilities</i> .....	21
1-07.18 <i>Public Liability and Property Damage Insurance</i> .....	22
1-07.18(1) <i>General Requirements</i> .....	22
1-07.18(2) <i>Additional Insured</i> .....	23
1-07.18(3) <i>Subcontractors</i> .....	23
1-07.18(4) <i>Verification of Coverage</i> .....	23
1-07.18(5) <i>Coverages and Limits</i> .....	24
<b>1-08, PROSECUTION AND PROGRESS.....</b>	<b>25</b>

1-08.0	<i>Preliminary Matters</i> .....	25
1-08.0(1)	Preconstruction Conference .....	25
1-08.0(2)	Hours of Work .....	25
1-08.1	<i>Subcontracting</i> .....	26
1-08.3	<i>Progress Schedule</i> .....	26
1-08.4	<i>Prosecution Of Work</i> .....	27
1-08.5	<i>Time for Completion</i> .....	27
1-08.9	<i>Liquidated Damages</i> .....	28
<b>1-09</b>	<b>MEASUREMENT AND PAYMENT</b> .....	<b>29</b>
1-09.9	<i>Payments</i> .....	29
1-09.11	<i>Disputes and Claims</i> .....	30
1-09.11(3)	Time Limitation and Jurisdiction .....	31
1-09.13	<i>Claims Resolution</i> .....	31
1-09.13(3)A	Arbitration General .....	31
1-09.13(4)	Venue for Litigation .....	31
<b>1-10</b>	<b>TEMPORARY TRAFFIC CONTROL</b> .....	<b>31</b>
1-10.2	<i>Traffic Control Management</i> .....	31
1-10.2(1)	General .....	31
1-10.4	<i>Measurement</i> .....	32
1-10.4(3)	Reinstating Unit Items with Lump Sum Traffic Control .....	32
<b>2-01</b>	<b>CLEARING, GRUBBING, AND ROADSIDE CLEANUP</b> .....	<b>33</b>
2-01.1	<i>Description</i> .....	33
<b>2-02</b>	<b>REMOVAL OF STRUCTURES AND OBSTRUCTIONS</b> .....	<b>33</b>
2-02.1	<i>Description</i> .....	33
2-02.2	<i>Materials</i> .....	33
2-02.3	<i>Construction Requirements</i> .....	33
2-02.5	<i>Payment</i> .....	34
<b>2-03</b>	<b>ROADWAY EXCAVATION AND EMBANKMENT</b> .....	<b>34</b>
2-03.1	<i>Description</i> .....	34
2-03.3	<i>Construction Requirements</i> .....	34
2-03.3(7)	Disposal of Surplus Material .....	34
2-03.4	<i>Measurement</i> .....	35
<b>2-09</b>	<b>STRUCTURE EXCAVATION</b> .....	<b>35</b>
2-09.3(4)	Construction Requirements, Structure Excavation, Class B .....	35
2-09.5	<i>Payment</i> .....	36
<b>4-04</b>	<b>BALLAST AND CRUSHED SURFACING</b> .....	<b>36</b>
4-04.3	<i>Construction Requirements</i> .....	36
4-04.3(5)	Shaping and Compacting .....	36
4-04.4	<i>Measurement</i> .....	36
4-04.5	<i>Payment</i> .....	37
<b>5-04</b>	<b>HOT MIX ASPHALT</b> .....	<b>37</b>
5-04.1	<i>Description</i> .....	37
5-04.2	<i>Materials</i> .....	38
5-04.2(1)	How to Get a HMA Mix Design on the QPL .....	39
5-04.2(2)	Mix Design – Obtaining Project Approval .....	39
5-04.3	<i>Construction Requirements</i> .....	42
5-04.3(1)	Weather Limitations .....	42
5-04.3(2)	Paving Under Traffic .....	42

5-04.3(3) Equipment.....	42
5-04.3(4) Preparation of Existing Paved Surfaces .....	45
5-04.3(5) Producing/Stockpiling Aggregates and RAP .....	48
5-04.3(6) Mixing .....	48
5-04.3(7) Spreading and Finishing.....	49
5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA.....	50
5-04.3(9) HMA Mixture Acceptance.....	50
5-04.3(10) HMA Compaction Acceptance .....	54
5-04.3(11) Reject Work .....	56
5-04.3(12) Joints .....	58
5-04.3(13) Surface Smoothness.....	59
5-04.3(14) Planing (Milling) Bituminous Pavement .....	60
5-04.3(15) Sealing Pavement Surfaces .....	64
5-04.3(16) HMA Road Approaches.....	64
5-04.4 Measurement.....	64
5-04.5 Payment.....	64
5-04.5(1) Quality Assurance Price Adjustment .....	64
<b>7-02 CULVERT PIPE .....</b>	<b>65</b>
7-02.5 Payment.....	65
<b>8-02 ROADSIDE RESTORATION .....</b>	<b>65</b>
8-02.1 Description.....	65
8-02.3 Construction Requirements.....	65
8-02.3(6) Mulch and Amendments .....	65
8-02.3(13) Plant Establishment.....	66
8-02.4 Measurement.....	67
8-02.5 Payment.....	67
<b>8-21, PERMANENT SIGNING .....</b>	<b>68</b>
8-21.3(4) Sign Removal .....	68
<b>POWER EQUIPMENT.....</b>	<b>68</b>
<b>E-VERIFY .....</b>	<b>68</b>
<b>BOND.....</b>	<b>69</b>
<b>LEWIS COUNTY ESTIMATES AND PAYMENT POLICY .....</b>	<b>69</b>
<b>APPENDICES.....</b>	<b>69</b>
<b>APPENDIX A .....</b>	<b>79</b>
<b>APPENDIX B .....</b>	<b>81</b>
WASHINGTON STATE PREVAILING WAGE RATES.....	81
<b>APPENDIX C .....</b>	<b>83</b>
FEDERAL CONTRACT PROVISIONS.....	83
<b>APPENDIX D .....</b>	<b>95</b>
BID PROPOSAL DOCUMENTS.....	95
<b>APPENDIX E .....</b>	<b>105</b>
CONTRACT DOCUMENTS .....	105

<i>CONTRACT BOND FOR</i>	<i>Bond No</i> .....	109
<i>POWER EQUIPMENT LIST</i> .....		111
<b>APPENDIX F</b> .....		<b>113</b>
<i>CONTRACT PLANS</i> .....		113
<i>TRAFFIC CONTROL PLAN</i> .....		113

1  
2 **INTRODUCTION**  
3 (LCPW GSP)  
4

5 The following Special Provisions are made a part of this contract and supersede any conflicting provisions  
6 of the 2023 Standard Specifications for Road, Bridge, and Municipal Construction.  
7

8 The said Standard Specifications thereto, the WSDOT Standard Plans, and WSDOT Construction  
9 Manual, together with the Special Provisions and the attached plans hereinafter contained, covering all  
10 work specified under this contract are incorporated and hereby made a part of this contract. The Special  
11 Provisions hereinafter contained shall supersede any conflicting provisions of the Standard Specifications  
12 thereto, the WSDOT Standard Plans, and WSDOT Construction Manual.  
13

14 Several types of Special Provisions are included in this contract; General, Region, Bridges and  
15 Structures, and Project Specific. Special Provisions types are differentiated as follows:  
16

- |    |            |   |
|----|------------|---|
| 17 | (date)     | General Special Provision   |
| 18 | (LCPW GSP) | Lewis County Special Provision  |
| 19 | (*****)    | Notes a revision to a General Special Provision<br>and also notes a Project Specific Special Provision. |
| 20 |            |   |
| 21 | (APWA GSP) | American Public Works Association General Special Provision   |
| 22 |            |   |

23 **General Special Provisions** are similar to Standard Specifications in that they typically apply to many  
24 projects, usually in more than one Region. Usually, the only difference from one project to another is the  
25 inclusion of variable project data, inserted as a “fill-in”.  
26

27 **Project Specific Special Provisions** normally appear only in the contract for which they were  
28 developed.  
29

30 The following paragraph pertaining to the Standard Specifications shall obtain and be made a part of this  
31 contract:  
32

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

39 **SPECIAL PROVISIONS**

40 **DIVISION 1**  
41 **GENERAL REQUIREMENTS**  
42

43  
44 **1-01, DESCRIPTION OF WORK**  
45 *(March 13, 1995)*  
46

47 This contract provides for the improvement of \*\*\* Little Hanaford Rd. MP 4.1 landslide by constructing  
48 shear key, performing roadway excavation, placing quarry spalls, installing culvert pipe, and  
49 constructing Roadway Pavement Improvements \*\*\* and other work, all in accordance with the attached  
50 Plans, these Contract Provisions, and the Standard Specifications.

1  
2 **1-01.3 Definitions**

3 (January 19, 2022 APWA GSP)

4  
5 Delete the heading **Completion Dates** and the three paragraphs that follow it, and  
6 replace them with the following:

7  
8 **Dates**

9 ***Bid Opening Date***

10 The date on which the Contracting Agency publicly opens and reads the Bids.

11 ***Award Date***

12 The date of the formal decision of the Contracting Agency to accept the lowest responsible and  
13 responsive Bidder for the Work.

14 ***Contract Execution Date***

15 The date the Contracting Agency officially binds the Agency to the Contract.

16 ***Notice to Proceed Date***

17 The date stated in the Notice to Proceed on which the Contract time begins.

18 ***Substantial Completion Date***

19 The day the Engineer determines the Contracting Agency has full and unrestricted use and  
20 benefit of the facilities, both from the operational and safety standpoint, any remaining traffic  
21 disruptions will be rare and brief, and only minor incidental work, replacement of temporary  
22 substitute facilities, plant establishment periods, or correction or repair remains for the Physical  
23 Completion of the total Contract.

24 ***Physical Completion Date***

25 The day all of the Work is physically completed on the project. All documentation required by  
26 the Contract and required by law does not necessarily need to be furnished by the Contractor by  
27 this date.

28 ***Completion Date***

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

33 ***Final Acceptance Date***

34 The date on which the Contracting Agency accepts the Work as complete.

35  
36 Supplement this Section with the following:

37  
38 All references in the Standard Specifications or WSDOT General Special Provisions, to the terms  
39 "Department of Transportation", "Washington State Transportation Commission", "Commission",  
40 "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer" shall be revised to  
41 read "Contracting Agency".

42  
43 All references to the terms "State" or "state" shall be revised to read "Contracting Agency" unless  
44 the reference is to an administrative agency of the State of Washington, a State statute or  
45 regulation, or the context reasonably indicates otherwise.

46  
47 All references to "State Materials Laboratory" shall be revised to read "Contracting Agency designated  
48 location".

49  
50 All references to "final contract voucher certification" shall be interpreted to mean the Contracting  
51 Agency form(s) by which final payment is authorized, and final completion and acceptance granted.



1  
2 **Additive**

3 A supplemental unit of work or group of bid items, identified separately in the Bid Proposal, which  
4 may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.  
5

6 **Alternate**

7 One of two or more units of work or groups of bid items, identified separately in the Bid Proposal,  
8 from which the Contracting Agency may make a choice between different methods or material of  
9 construction for performing the same work.  
10

11 **Business Day**

12 A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.  
13

14 **Contract Bond**

15 The definition in the Standard Specifications for "Contract Bond" applies to whatever bond form(s)  
16 are required by the Contract Documents, which may be a combination of a Payment Bond and a  
17 Performance Bond.  
18

19 **Contract Documents**

20 See definition for "Contract".  
21

22 **Contract Time**

23 The period of time established by the terms and conditions of the Contract within which the Work  
24 must be physically completed.  
25

26 **Notice of Award**

27 The written notice from the Contracting Agency to the successful Bidder signifying the Contracting  
28 Agency's acceptance of the Bid Proposal.  
29

30 **Notice to Proceed**

31 The written notice from the Contracting Agency or Engineer to the Contractor authorizing and  
32 directing the Contractor to proceed with the Work and establishing the date on which the Contract  
33 time begins.  
34

35 **Traffic**

36 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and  
37 equestrian traffic.  
38

39 **1-02, BID PROCEDURES AND CONDITIONS**

40 **1-02.1 Prequalification of Bidders**

41  
42 Delete this Section and replace it with the following:  
43

44 **1-02.1 Qualifications of Bidder**

45 *(January 24, 2011 APWA GSP)*  
46

47 Before award of a public works contract, a bidder must meet at least the minimum qualifications of  
48 RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public  
49 works project.  
50

51 **1-02.2 Plans and Specifications**

52 *(LCPW GSP)*

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

3  
4 Copies of the plans and specifications are on file in the office of:

5  
6 Lewis County Public Works Department  
7 57 W. Main  
8 Chehalis, Washington 98532  
9 (360) 740-1123 Ext. 7  
10

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

12  
13 Prospective bidders may obtain plans and specifications from Lewis County Public Works  
14 Department in Chehalis, Washington or download from Lewis County Website at  
15 [www.lewiscountywa.gov](http://www.lewiscountywa.gov).

16  
17 **1-02.6 Preparation Of Proposal**  
18 *(August 2, 2004)*

19  
20 The fifth and sixth paragraphs of Section 1-02.6 are deleted.

21  
22 **1-02.12 Public Opening Of Proposal**  
23 *(LCPW GSP)*

24  
25 Section 1-02.12 is supplemented with the following:

26  
27 **Date and Time of Bid Opening**

28 The Board of County Commissioners of Lewis County or designee, will open sealed proposals and  
29 publicly read them aloud on or after 12:15 p.m. on May 11, 2023, at the Lewis County Courthouse,  
30 Chehalis, Washington, for the Little Hanaford Rd. MP 4.1 Slide Repair Project.

31  
32 **SEALED BIDS MUST BE DELIVERED BY OR BEFORE**  
33 **12:15 P.M. on Thursday, May 11, 2023**

34 (Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners.  
35 **Bids submitted after 12:15 PM will not be considered for this project.**)

36  
37 **Delivery and Marking of Sealed Bid Proposals**

38 Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners  
39 (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532) by or before **12:15**  
40 **p.m.** on the date specified for opening, and in an envelope clearly marked: **"SEALED BID FOR**  
41 **THE LITTLE HANAFORD RD. MP 4.1 SLIDE REPAIR PROJECT, TO BE OPENED ON OR**  
42 **AFTER 12:15 P.M. ON MAY 11, 2023.**

43  
44 **1-02.13 Irregular Proposals**  
45 *(December 30, 2022 APWA GSP)*

46  
47 Delete this section and replace it with the following:

- 48  
49 1. A Proposal will be considered irregular and will be rejected if:  
50 a. The Bidder is not prequalified when so required;  
51 b. The authorized Proposal form furnished by the Contracting Agency is not used or is  
52 altered;  
53 c. The completed Proposal form contains any unauthorized additions, deletions, alternate  
54 Bids, or conditions;

- d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
  - e. A price per unit cannot be determined from the Bid Proposal;
  - f. The Proposal form is not properly executed;
  - g. The Bidder fails to submit or properly complete a subcontractor list (WSDOT Form 271-015), if applicable, as required in Section 1-02.6;
  - h. The Bidder fails to submit or properly complete a Disadvantaged Business Enterprise Certification (WSDOT Form 272-056), if applicable, as required in Section 1-02.6;
  - i. The Bidder fails to submit Written Confirmations (WSDOT Form 422-031) from each DBE firm listed on the Bidder's completed DBE Utilization Certification that they are in agreement with the bidder's DBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
  - j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
  - k. The Bidder fails to submit a DBE Bid Item Breakdown (WSDOT Form 272-054), if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions;
  - l. The Bidder fails to submit DBE Trucking Credit Forms (WSDOT Form 272-058), if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to meet the requirements of the Special Provisions;
  - m. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
  - n. More than one Proposal is submitted for the same project from a Bidder under the same or different names.
2. A Proposal may be considered irregular and may be rejected if:
- a. The Proposal does not include a unit price for every Bid item;
  - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
  - c. Receipt of Addenda is not acknowledged;
  - d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
  - e. If Proposal form entries are not made in ink.

**1-02.14 Disqualification of Bidders**  
*(May 17, 2018 APWA GSP, Option B)*

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet Supplemental Criteria 1-7 listed in this Section.

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1), and Supplemental Criteria 1-2. Evidence that the Bidder meets Supplemental Criteria 3-7 shall be provided by the Bidder as stated later in this Section.

**1. Delinquent State Taxes**

- 1 A Criterion: The Bidder shall not owe delinquent taxes to the Washington State Department of  
2 Revenue without a payment plan approved by the Department of Revenue.  
3  
4 B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement  
5 (on a form to be provided by the Contracting Agency) that the Bidder does not owe delinquent  
6 taxes to the Washington State Department of Revenue, or if delinquent taxes are owed to the  
7 Washington State Department of Revenue, the Bidder must submit a written payment plan  
8 approved by the Department of Revenue, to the Contracting Agency by the deadline listed  
9 below.  
10

## 11 2. Federal Debarment

- 12  
13 A Criterion: The Bidder shall not currently be debarred or suspended by the Federal  
14 government.  
15  
16 B. Documentation: The Bidder shall not be listed as having an “active exclusion” on the U.S.  
17 government’s “System for Award Management” database (www.sam.gov).  
18

## 19 3. Subcontractor Responsibility

- 20  
21 A Criterion: The Bidder’s standard subcontract form shall include the subcontractor  
22 responsibility language required by RCW 39.06.020, and the Bidder shall have an established  
23 procedure which it utilizes to validate the responsibility of each of its subcontractors. The  
24 Bidder’s subcontract form shall also include a requirement that each of its subcontractors shall  
25 have and document a similar procedure to determine whether the sub-tier subcontractors with  
26 whom it contracts are also “responsible” subcontractors as defined by RCW 39.06.020.  
27  
28 B. Documentation: The Bidder, if and when required as detailed below, shall submit a copy of its  
29 standard subcontract form for review by the Contracting Agency, and a written description of  
30 its procedure for validating the responsibility of subcontractors with which it contracts.  
31

## 32 4. Claims Against Retainage and Bonds

- 33  
34 A Criterion: The Bidder shall not have a record of excessive claims filed against the retainage  
35 or payment bonds for public works projects in the three years prior to the bid submittal date,  
36 that demonstrate a lack of effective management by the Bidder of making timely and  
37 appropriate payments to its subcontractors, suppliers, and workers, unless there are  
38 extenuating circumstances and such circumstances are deemed acceptable to the  
39 Contracting Agency.  
40  
41 B. Documentation: The Bidder, if and when required as detailed below, shall submit a list of the  
42 public works projects completed in the three years prior to the bid submittal date that have  
43 had claims against retainage and bonds and include for each project the following information:  
44  
45 • Name of project  
46 • The owner and contact information for the owner;  
47 • A list of claims filed against the retainage and/or payment bond for any of the projects  
48 listed;  
49 • A written explanation of the circumstances surrounding each claim and the ultimate  
50 resolution of the claim.  
51

## 52 5. Public Bidding Crime

- A. Criterion: The Bidder and/or its owners shall not have been convicted of a crime involving bidding on a public works contract in the five years prior to the bid submittal date.
- B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder and/or its owners have not been convicted of a crime involving bidding on a public works contract.

6. **Termination for Cause / Termination for Default**

- A. Criterion: The Bidder shall not have had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency.
- B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any public works contract terminated for cause or terminated for default by a government agency in the five years prior to the bid submittal date; or if Bidder was terminated, describe the circumstances. .

7. **Lawsuits**

- A. Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency
- B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, or shall submit a list of all lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date, along with a written explanation of the circumstances surrounding each such lawsuit. The Contracting Agency shall evaluate these explanations to determine whether the lawsuits demonstrate a pattern of failing to meet of terms of construction related contracts

As evidence that the Bidder meets the Supplemental Criteria stated above, the apparent low Bidder must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets the supplemental criteria together with supporting documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with the Supplemental Criteria. The Contracting Agency reserves the right to request further documentation as needed from the low Bidder and documentation from other Bidders as well to assess Bidder responsibility and compliance with all bidder responsibility criteria. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder's compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Contracting Agency may consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

The basis for evaluation of Bidder compliance with these mandatory and supplemental criteria shall include any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from others for whom the Bidder has worked,

1 or other public agencies or private enterprises; and (iii) any additional information obtained by the  
2 Contracting Agency which is believed to be relevant to the matter.

3  
4 If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above  
5 and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing,  
6 with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal  
7 the determination within two (2) business days of the Contracting Agency's determination by  
8 presenting its appeal and any additional information to the Contracting Agency. The Contracting  
9 Agency will consider the appeal and any additional information before issuing its final determination.  
10 If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not  
11 execute a contract with any other Bidder until at least two business days after the Bidder determined  
12 to be not responsible has received the Contracting Agency's final determination.

13  
14 Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with concerns  
15 about the relevancy or restrictiveness of the Supplemental Bidder Responsibility Criteria may make  
16 or submit requests to the Contracting Agency to modify the criteria. Such requests shall be in writing,  
17 describe the nature of the concerns, and propose specific modifications to the criteria. Bidders shall  
18 submit such requests to the Contracting Agency no later than five (5) business days prior to the bid  
19 submittal deadline and address the request to the Project Engineer or such other person designated  
20 by the Contracting Agency in the Bid Documents.

21  
22 **1-02.15 Pre Award Information**  
23 *(December 30, 2022 APWA GSP)*

24  
25 Revise this section to read:

26  
27 Before awarding any contract, the Contracting Agency may require one or more of these items or  
28 actions of the apparent lowest responsible bidder:

- 29 1. A complete statement of the origin, composition, and manufacture of any or all materials to be  
30 used,
  - 31 2. Samples of these materials for quality and fitness tests,
  - 32 3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time  
33 required for the various phases of the work,
  - 34 4. A breakdown of costs assigned to any bid item,
  - 35 5. Attendance at a conference with the Engineer or representatives of the Engineer,
  - 36 6. Obtain, and furnish a copy of, a business license to do business in the city or county where the  
37 work is located.
  - 38 7. Any other information or action taken that is deemed necessary to ensure that the bidder is the  
39 lowest responsible bidder.
- 40

41 **1-03, AWARD AND EXECUTION OF CONTRACT**

42 **1-03.3 Execution of Contract**  
43 *(January 19, 2022 APWA GSP)*  
44

45 Revise this section to read:

46  
47 Within 3 calendar days of Award date (not including Saturdays, Sundays and Holidays), the  
48 successful Bidder shall provide the information necessary to execute the Contract to the  
49 Contracting Agency. The Bidder shall send the contact information, including the full name, email

1 address, and phone number, for the authorized signer and bonding agent to the Contracting  
2 Agency.

3  
4 Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for  
5 signature by the successful bidder on the first business day following award. The number of copies  
6 to be executed by the Contractor will be determined by the Contracting Agency.

7  
8 Within 15 calendar days after the award date, the successful bidder shall return the signed  
9 Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, a  
10 satisfactory bond as required by law and Section 1-03.4, the Transfer of Coverage form for the  
11 Construction Stormwater General Permit with sections I, III, and VIII completed when provided.  
12 Before execution of the contract by the Contracting Agency, the successful bidder shall provide any  
13 pre-award information the Contracting Agency may require under Section 1-02.15.

14  
15 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency nor  
16 shall any work begin within the project limits or within Contracting Agency-furnished sites. The  
17 Contractor shall bear all risks for any work begun outside such areas and for any materials ordered  
18 before the contract is executed by the Contracting Agency.

19  
20 If the bidder experiences circumstances beyond their control that prevents return of the contract  
21 documents within the calendar days after the award date stated above, the Contracting Agency  
22 may grant up to a maximum of 5 additional calendar days for return of the documents, provided the  
23 Contracting Agency deems the circumstances warrant it.

24  
25 **1-03.4 Contract Bond**  
26 *(July 23, 2015 APWA GSP)*

27  
28 Delete the first paragraph and replace it with the following:

29  
30 The successful bidder shall provide executed payment and performance bond(s) for the full contract  
31 amount. The bond may be a combined payment and performance bond; or be separate payment  
32 and performance bonds. In the case of separate payment and performance bonds, each shall be  
33 for the full contract amount. The bond(s) shall:

- 34 1. Be on Contracting Agency-furnished form(s);
- 35 2. Be signed by an approved surety (or sureties) that:
  - 36 a. Is registered with the Washington State Insurance Commissioner, and
  - 37 b. Appears on the current Authorized Insurance List in the State of Washington published by  
38 the Office of the Insurance Commissioner,
- 39 3. Guarantee that the Contractor will perform and comply with all obligations, duties, and  
40 conditions under the Contract, including but not limited to the duty and obligation to indemnify,  
41 defend, and protect the Contracting Agency against all losses and claims related directly or  
42 indirectly from any failure:
  - 43 a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of  
44 the Contractor) to faithfully perform and comply with all contract obligations, conditions, and  
45 duties, or
  - 46 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to  
47 pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or  
48 any other person who provides supplies or provisions for carrying out the work;
- 49 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project  
50 under titles 50, 51, and 82 RCW; and
- 51 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond;  
52 and

1 6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor  
2 or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or  
3 vice president, unless accompanied by written proof of the authority of the individual signing the  
4 bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such  
5 effect signed by the president or vice president).

6  
7 **1-03.7 Judicial Review**  
8 *(December 30, 2022 APWA GSP)*  
9

10 Revise this section to read:

11  
12 All decisions made by the Contracting Agency regarding the Award and execution of the Contract or  
13 Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington  
14 Law. Such review, if any, shall be timely filed in the Superior Court of the county where the  
15 Contracting Agency headquarters is located, provided that where an action is asserted against a  
16 county, RCW 36.01.050 shall control venue and jurisdiction.  
17

18 **1-05, CONTROL OF WORK**

19 **1-05.7 Removal of Defective and Unauthorized Work**  
20 *(October 1, 2005 APWA GSP)*  
21

22 Supplement this section with the following:

23  
24 If the Contractor fails to remedy defective or unauthorized work within the time specified in a written  
25 notice from the Engineer, or fails to perform any part of the work required by the Contract  
26 Documents, the Engineer may correct and remedy such work as may be identified in the written  
27 notice, with Contracting Agency forces or by such other means as the Contracting Agency may  
28 deem necessary.

29  
30 If the Contractor fails to comply with a written order to remedy what the Engineer determines to be  
31 an emergency situation, the Engineer may have the defective and unauthorized work corrected  
32 immediately, have the rejected work removed and replaced, or have work the Contractor refuses to  
33 perform completed by using Contracting Agency or other forces. An emergency situation is any  
34 situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or  
35 might cause serious risk of loss or damage to the public.

36  
37 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying  
38 defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by  
39 the Contractor. Payment will be deducted by the Engineer from monies due, or to become due, the  
40 Contractor. Such direct and indirect costs shall include in particular, but without limitation,  
41 compensation for additional professional services required, and costs for repair and replacement of  
42 work of others destroyed or damaged by correction, removal, or replacement of the Contractor's  
43 unauthorized work.  
44

45 No adjustment in contract time or compensation will be allowed because of the delay in the  
46 performance of the work attributable to the exercise of the Contracting Agency's rights provided by  
47 this Section.  
48

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



1  
2 **1-05.13 Superintendents, Labor and Equipment of Contractor**  
3 *(August 14, 2013 APWA GSP)*

4  
5 Delete the sixth and seventh paragraphs of this section.  
6

7 **1-05.14 Cooperation With Other Contractors**

8 Section 1-05.14 is supplemented with the following:

9  
10 *(March 13, 1995)*

11 **Other Contracts Or Other Work**

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

14  
15           \$\$ Utilities and/or Utility Contractors. The contractor's attention is directed to Section 1-07.17  
16           these Special Provisions.\$\$  
17

18 **1-05.15 Method of Serving Notices**

19 *(December 30, 2022 APWA GSP)*

20 Revise the second paragraph to read:

21  
22           All correspondence from the Contractor shall be directed to the Project Engineer. All  
23           correspondence from the Contractor constituting any notification, notice of protest, notice of dispute,  
24           or other correspondence constituting notification required to be furnished under the Contract, must  
25           be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office.  
26           Electronic copies such as e-mails or electronically delivered copies of correspondence will not  
27           constitute such notice and will not comply with the requirements of the Contract.  
28

29 **1-06, CONTROL OF MATERIALS**

30 **1-06.6 Recycled Materials**

31 *(January 4, 2016 APWA GSP)*

32  
33 Delete this section, including its subsections, and replace it with the following:

34  
35           The Contractor shall make their best effort to utilize recycled materials in the construction of the  
36           project. Approval of such material use shall be as detailed elsewhere in the Standard  
37           Specifications.  
38

39           Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were  
40           utilized in the construction of the project for each of the items listed in Section 9-03.21. The report  
41           shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and  
42           other recycled materials (e.g. utilization of on-site material and aggregates from concrete returned  
43           to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled  
44           Materials Reporting.  
45

46 **1-07, LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

47 **1-07.1 Laws to be Observed**

1 (October 1, 2005 APWA GSP)

2  
3 Supplement this section with the following:

4  
5 In cases of conflict between different safety regulations, the more stringent regulation shall apply.

6  
7 The Washington State Department of Labor and Industries shall be the sole and paramount  
8 administrative agency responsible for the administration of the provisions of the Washington Industrial  
9 Safety and Health Act of 1973 (WISHA).

10  
11 The Contractor shall maintain at the project site office, or other well known place at the project site,  
12 all articles necessary for providing first aid to the injured. The Contractor shall establish, publish, and  
13 make known to all employees, procedures for ensuring immediate removal to a hospital, or doctor's  
14 care, persons, including employees, who may have been injured on the project site. Employees  
15 should not be permitted to work on the project site before the Contractor has established and made  
16 known procedures for removal of injured persons to a hospital or a doctor's care.

17  
18 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the  
19 Contractor's plant, appliances, and methods, and for any damage or injury resulting from their failure,  
20 or improper maintenance, use, or operation. The Contractor shall be solely and completely  
21 responsible for the conditions of the project site, including safety for all persons and property in the  
22 performance of the work. This requirement shall apply continuously, and not be limited to normal  
23 working hours. The required or implied duty of the Engineer to conduct construction review of the  
24 Contractor's performance does not, and shall not, be intended to include review and adequacy of the  
25 Contractor's safety measures in, on, or near the project site.

## 26 27 **1-07.2 State Taxes**

28  
29 Delete this section, including its sub-sections, in its entirety and replace it with the following:

### 30 31 **1-07.2 State Sales Tax** 32 *(June 27, 2011 APWA GSP)*

33  
34 The Washington State Department of Revenue has issued special rules on the State sales tax.  
35 Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should  
36 contact the Washington State Department of Revenue for answers to questions in this area. The  
37 Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax  
38 liability.

39  
40 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract  
41 amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(2)  
42 describes this exception.

43  
44 The Contracting Agency will pay the retained percentage (or release the Contract Bond if a FHWA-  
45 funded Project) only if the Contractor has obtained from the Washington State Department of  
46 Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.051).  
47 The Contracting Agency may deduct from its payments to the Contractor any amount the  
48 Contractor may owe the Washington State Department of Revenue, whether the amount owed  
49 relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

### 50 51 **1-07.2(1) State Sales Tax — Rule 171**

52  
53 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc.,  
54 which are owned by a municipal corporation, or political subdivision of the state, or by the United

1 States, and which are used primarily for foot or vehicular traffic. This includes storm or combined  
2 sewer systems within and included as a part of the street or road drainage system and power lines  
3 when such are part of the roadway lighting system. For work performed in such cases, the  
4 Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or  
5 other contract amounts, including those that the Contractor pays on the purchase of the materials,  
6 equipment, or supplies used or consumed in doing the work.

### 7 8 **1-07.2(2) State Sales Tax — Rule 170**

9  
10 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing  
11 buildings, or other structures, upon real property. This includes, but is not limited to, the  
12 construction of streets, roads, highways, etc., owned by the state of Washington; water mains and  
13 their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and  
14 disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph,  
15 electrical power distribution lines, or other conduits or lines in or above streets or roads, unless  
16 such power lines become a part of a street or road lighting system; and installing or attaching of any  
17 article of tangible personal property in or to real property, whether or not such personal property  
18 becomes a part of the realty by virtue of installation.

19  
20 For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail  
21 sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to  
22 each payment to the Contractor. For this reason, the Contractor shall not include the retail sales  
23 tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following  
24 exception.

25  
26 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a  
27 subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable  
28 supplies not integrated into the project. Such sales taxes shall be included in the unit bid item  
29 prices or in any other contract amount.

### 30 31 **1-07.2(3) Services**

32  
33 The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly  
34 for professional or other services (as defined in Washington State Department of Revenue Rules  
35 138 and 244).

### 36 37 **1-07.5 Environmental Regulations**

38 Section 1-07.5 is supplemented with the following:

39  
40 *(September 20, 2010)*

#### 41 ***Environmental Commitments***

42 The following Provisions summarize the requirements, in addition to those required elsewhere in  
43 the Contract, imposed upon the Contracting Agency by the various documents referenced in the  
44 Special Provision **Permits and Licenses**. Throughout the work, the Contractor shall comply with  
45 the following requirements:

46  
47 *(August 4, 2014)*

48 The Contractor shall submit a written notification to the Engineer no later than 10 calendar days  
49 prior to beginning any ground disturbing activities that include excavation. The Contractor shall  
50 not commence any such ground disturbing activities until the monitor is present.

51  
52 *(\*\*\*\*\*)*

53 All work must be done in the dry (no water in the ephemeral drainage and not significant rainfall  
54 expected during the work period). If work is proposed to occur between mid-October and May a

1 Hydraulic Project Approval may be needed from the Washington Department of Fish and  
2 Wildlife.

3  
4 *(August 3, 2009)*

5 **Payment**

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

9  
10  
11 **1-07.6 Permits and Licenses**

12 Section 1-07.6 is supplemented with the following:

13  
14 *(January 2, 2018)*

15 The Contracting Agency has obtained the below-listed permit(s) for the project. A copy of the permit(s)  
16 is attached as an appendix for informational purposes. Copies of these permits, including a copy of the  
17 Transfer of Coverage form, when applicable, are required to be onsite at all times.

18  
19 Contact with the permitting agencies, concerning the below listed permit(s), shall be made through the  
20 Engineer with the exception of when the Construction Stormwater General Permit coverage is transferred  
21 to the Contractor, direct communication with the Department of Ecology is allowed. The Contractor shall  
22 be responsible for obtaining Ecology's approval for any Work requiring additional approval for (e.g.  
23 Request for Chemical Treatment Form). The Contractor shall obtain additional permits as necessary. All  
24 costs to obtain and comply with additional permits shall be included in the applicable Bid items for the  
25 Work involved.

26

Permit, Approval, Certification or Concurrence	Permitting Agency	Permit Number
State Environmental Policy Act	Lewis County Community Development (LCCD)	SEP22-0049
Fill & Grade Permit	LCCD	G22-00041

27  
28 *(LCPW GSP)*

29 **The Contractor shall ensure that all permit conditions have been read, understood and will be**  
30 **complied with. The Project Environmental Review Form must be signed by the Contractor to**  
31 **document this.**

32  
33 **1-07.9 Wages**

34  
35 1-07.9(1) GeneralSection 1-07.9(1) is supplemented with the following:

36  
37 *(January 9, 2023)*

38 The Federal wage rates incorporated in this contract have been established by the Secretary of  
39 Labor under the United States Department of Labor General Decision No. WA20230001.

40  
41 The State rates incorporated in this contract are applicable to all construction activities associated  
42 with this contract.

43  
44 **1-07.9(5)A Required Documents**

45 *(December 30, 2022 APWA GSP)*

46  
47 This section is revised to read as follows:

1 All Statements of Intent to Pay Prevailing Wages, Affidavits of Wages Paid and Certified Payrolls,  
2 including a signed Statement of Compliance for Federal-aid projects, shall be submitted to the  
3 Engineer and to the State L&I online Prevailing Wage Intent & Affidavit (PWIA) system.  
4

5  
6 **1-07.11 Requirements For Nondiscrimination**

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

9 ***(October 3, 2022)***

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

- 12  
13 1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard Federal  
14 Equal Employment Opportunity Construction Contract Specifications set forth herein.  
15  
16 2. The goals and timetables for minority and female participation set by the Office of Federal  
17 Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate  
18 work force in each construction craft and in each trade on all construction work in the covered  
19 area, are as follows:  
20

21 Women - Statewide

22  
23 Timetable Goal

24  
25 Until further notice 6.9%

26 Minorities - by Standard Metropolitan Statistical Area (SMSA)

27  
28 Spokane, WA:

29 SMSA Counties:

30 Spokane, WA 2.8

31 WA Spokane.

32 Non-SMSA Counties 3.0

33 WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA  
34 Pend Oreille; WA Stevens; WA Whitman.

35  
36 Richland, WA

37 SMSA Counties:

38 Richland Kennewick, WA 5.4

39 WA Benton; WA Franklin.

40 Non-SMSA Counties 3.6

41 WA Walla Walla.

42  
43 Yakima, WA:

44 SMSA Counties:

45 Yakima, WA 9.7

46 WA Yakima.

47 Non-SMSA Counties 7.2

48 WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.  
49

1 Seattle, WA:

2 SMSA Counties:

3 Seattle Everett, WA 7.2  
4 WA King; WA Snohomish.

5 Tacoma, WA 6.2  
6 WA Pierce.

7 Non-SMSA Counties 6.1

8 WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis;  
9 WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.

11 Portland, OR:

12 SMSA Counties:

13 Portland, OR-WA 4.5  
14 WA Clark.

15 Non-SMSA Counties 3.8

16 WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.

17  
18 These goals are applicable to each nonexempt Contractor's total on-site construction workforce,  
19 regardless of whether or not part of that workforce is performing work on a Federal, or federally  
20 assisted project, contract, or subcontract until further notice. Compliance with these goals and  
21 time tables is enforced by the Office of Federal Contract compliance Programs.

22  
23 The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4  
24 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action  
25 obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet  
26 the goals. The hours of minority and female employment and training must be substantially  
27 uniform throughout the length of the contract, in each construction craft and in each trade, and  
28 the Contractor shall make a good faith effort to employ minorities and women evenly on each  
29 of its projects. The transfer of minority or female employees or trainees from Contractor to  
30 Contractor or from project to project for the sole purpose of meeting the Contractor's goal shall  
31 be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4.  
32 Compliance with the goals will be measured against the total work hours performed.

- 33  
34 3. The Contractor shall provide written notification to the Office of Federal Contract Compliance  
35 Programs (OFCCP) within 10 working days of award of any construction subcontract in excess  
36 of \$10,000 or more that are Federally funded, at any tier for construction work under the contract  
37 resulting from this solicitation. The notification shall list the name, address and telephone  
38 number of the subcontractor; employer identification number of the subcontractor; estimated  
39 dollar amount of the subcontract; estimated starting and completion dates of the subcontract;  
40 and the geographical area in which the contract is to be performed. The notification shall be  
41 sent to:

42  
43 U.S. Department of Labor  
44 Office of Federal Contract Compliance Programs Pacific Region  
45 Attn: Regional Director  
46 San Francisco Federal Building  
47 90 – 7<sup>th</sup> Street, Suite 18-300  
48 San Francisco, CA 94103(415) 625-7800 Phone  
49 (415) 625-7799 Fax  
50

- 51 4. As used in this Notice, and in the contract resulting from this solicitation, the Covered Area is as  
52 designated herein.  
53

1 Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive  
2 Order 11246)

3  
4 1. As used in these specifications:

- 5  
6 a. Covered Area means the geographical area described in the solicitation from which  
7 this contract resulted;  
8  
9 b. Director means Director, Office of Federal Contract Compliance Programs, United  
10 States Department of Labor, or any person to whom the Director delegates authority;  
11  
12 c. Employer Identification Number means the Federal Social Security number used on  
13 the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941;  
14  
15 d. Minority includes:  
16  
17 (1) Black, a person having origins in any of the Black Racial Groups of Africa.  
18  
19 (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican,  
20 Puerto Rican, Cuban, Central American, South American, or other Spanish  
21 origin.  
22  
23 (3) Asian or Pacific Islander, a person having origins in any of the original  
24 peoples of the Pacific rim or the Pacific Islands, the Hawaiian Islands and  
25 Samoa.  
26  
27 (4) American Indian or Alaskan Native, a person having origins in any of the  
28 original peoples of North America, and who maintain cultural identification  
29 through tribal affiliation or community recognition.  
30

31 2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work  
32 involving any construction trade, it shall physically include in each subcontract in excess of  
33 \$10,000 the provisions of these specifications and the Notice which contains the applicable  
34 goals for minority and female participation and which is set forth in the solicitations from which  
35 this contract resulted.  
36

37 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by  
38 the U.S. Department of Labor in the covered area either individually or through an association,  
39 its affirmative action obligations on all work in the Plan area (including goals and timetables)  
40 shall be in accordance with that Plan for those trades which have unions participating in the  
41 Plan. Contractors must be able to demonstrate their participation in and compliance with the  
42 provisions of any such Hometown Plan. Each Contractor or subcontractor participating in an  
43 approved Plan is individually required to comply with its obligations under the EEO clause, and  
44 to make a good faith effort to achieve each goal under the Plan in each trade in which it has  
45 employees. The overall good faith performance by other Contractors or subcontractors toward  
46 a goal in an approved Plan does not excuse any covered Contractor's or subcontractor's failure  
47 to take good faith effort to achieve the Plan goals and timetables.  
48

49 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs  
50 7a through 7p of this Special Provision. The goals set forth in the solicitation from which this  
51 contract resulted are expressed as percentages of the total hours of employment and training  
52 of minority and female utilization the Contractor should reasonably be able to achieve in each  
53 construction trade in which it has employees in the covered area. Covered construction

1 contractors performing construction work in geographical areas where they do not have a  
2 Federal or federally assisted construction contract shall apply the minority and female goals  
3 established for the geographical area where the work is being performed. The Contractor is  
4 expected to make substantially uniform progress in meeting its goals in each craft during the  
5 period specified.

- 6
- 7 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with  
8 whom the Contractor has a collective bargaining agreement, to refer either minorities or women  
9 shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or  
10 the regulations promulgated pursuant thereto.
- 11
- 12 6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting  
13 the goals, such apprentices and trainees must be employed by the Contractor during the training  
14 period, and the Contractor must have made a commitment to employ the apprentices and  
15 trainees at the completion of their training, subject to the availability of employment  
16 opportunities. Trainees must be trained pursuant to training programs approved by the U.S.  
17 Department of Labor.
- 18
- 19 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity.  
20 The evaluation of the Contractor's compliance with these specifications shall be based upon its  
21 effort to achieve maximum results from its action. The Contractor shall document these efforts  
22 fully, and shall implement affirmative action steps at least as extensive as the following:
- 23
- 24 a. Ensure and maintain a working environment free of harassment, intimidation, and  
25 coercion at all sites, and in all facilities at which the Contractor's employees are  
26 assigned to work. The Contractor, where possible, will assign two or more women to  
27 each construction project. The Contractor shall specifically ensure that all foremen,  
28 superintendents, and other on-site supervisory personnel are aware of and carry out  
29 the Contractor's obligation to maintain such a working environment, with specific  
30 attention to minority or female individuals working at such sites or in such facilities.
  - 31
  - 32 b. Establish and maintain a current list of minority and female recruitment sources,  
33 provide written notification to minority and female recruitment sources and to  
34 community organizations when the Contractor or its unions have employment  
35 opportunities available, and maintain a record of the organizations' responses.
  - 36
  - 37 c. Maintain a current file of the names, addresses and telephone numbers of each  
38 minority and female off-the-street applicant and minority or female referral from a  
39 union, a recruitment source or community organization and of what action was taken  
40 with respect to each such individual. If such individual was sent to the union hiring hall  
41 for referral and was not referred back to the Contractor by the union or, if referred, not  
42 employed by the Contractor, this shall be documented in the file with the reason  
43 therefor, along with whatever additional actions the Contractor may have taken.
  - 44
  - 45 d. Provide immediate written notification to the Director when the union or unions with  
46 which the Contractor has a collective bargaining agreement has not referred to the  
47 Contractor a minority person or woman sent by the Contractor, or when the Contractor  
48 has other information that the union referral process has impeded the Contractor's  
49 efforts to meet its obligations.
  - 50
  - 51 e. Develop on-the-job training opportunity and/or participate in training programs for the  
52 area which expressly include minorities and women, including upgrading programs  
53 and apprenticeship and trainee programs relevant to the Contractor's employment



1 needs, especially those programs funded or approved by the U.S. Department of  
2 Labor. The Contractor shall provide notice of these programs to the sources compiled  
3 under 7b above.  
4

- 5 f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions  
6 and training programs and requesting their cooperation in assisting the Contractor in  
7 meeting its EEO obligations; by including it in any policy manual and collective  
8 bargaining agreement; by publicizing it in the company newspaper, annual report, etc.;  
9 by specific review of the policy with all management personnel and with all minority  
10 and female employees at least once a year; and by posting the company EEO policy  
11 on bulletin boards accessible to all employees at each location where construction  
12 work is performed.  
13
- 14 g. Review, at least annually, the company's EEO policy and affirmative action obligations  
15 under these specifications with all employees having any responsibility for hiring,  
16 assignment, layoff, termination or other employment decisions including specific  
17 review of these items with on-site supervisory personnel such as Superintendents,  
18 General Foremen, etc., prior to the initiation of construction work at any job site. A  
19 written record shall be made and maintained identifying the time and place of these  
20 meetings, persons attending, subject matter discussed, and disposition of the subject  
21 matter.  
22
- 23 h. Disseminate the Contractor's EEO policy externally by including it in any advertising in  
24 the news media, specifically including minority and female news media, and providing  
25 written notification to and discussing the Contractor's EEO policy with other  
26 Contractors and Subcontractors with whom the Contractor does or anticipates doing  
27 business.  
28
- 29 i. Direct its recruitment efforts, both oral and written to minority, female and community  
30 organizations, to schools with minority and female students and to minority and female  
31 recruitment and training organizations serving the Contractor's recruitment area and  
32 employment needs. Not later than one month prior to the date for the acceptance of  
33 applications for apprenticeship or other training by any recruitment source, the  
34 Contractor shall send written notification to organizations such as the above,  
35 describing the openings, screening procedures, and tests to be used in the selection  
36 process.  
37
- 38 j. Encourage present minority and female employees to recruit other minority persons  
39 and women and where reasonable, provide after school, summer and vacation  
40 employment to minority and female youth both on the site and in other areas of a  
41 Contractor's work force.  
42
- 43 k. Validate all tests and other selection requirements where there is an obligation to do  
44 so under 41 CFR Part 60-3.  
45
- 46 l. Conduct, at least annually, an inventory and evaluation of all minority and female  
47 personnel for promotional opportunities and encourage these employees to seek or to  
48 prepare for, through appropriate training, etc., such opportunities.  
49
- 50 m. Ensure that seniority practices, job classifications, work assignments and other  
51 personnel practices, do not have a discriminatory effect by continually monitoring all  
52 personnel and employment related activities to ensure that the EEO policy and the  
53 Contractor's obligations under these specifications are being carried out.

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- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
  - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
  - p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of the obligations under 7a through 7p of this Special Provision provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensure that the concrete benefits of the program are reflected in the Contractor's minority and female work-force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrate the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, terminations and cancellations of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

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14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include, for each employee, their name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, the Contractors will not be required to maintain separate records.
  15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
  16. Additional assistance for Federal Construction Contractors on contracts administered by Washington State Department of Transportation or by Local Agencies may be found at:

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23  
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Washington State Dept. of Transportation  
Office of Equal Opportunity  
PO Box 47314  
310 Maple Park Ave. SE  
Olympia WA  
98504-7314  
Ph: 360-705-7090  
Fax: 360-705-6801  
<http://www.wsdot.wa.gov/equalopportunity/default.htm>

31  
32  
33

**1-07.17 Utilities And Similar Facilities**  
(April 2, 2007)

34  
35

Section 1-07.17 is supplemented with the following:

36  
37  
38

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

39  
40  
41

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

42  
43  
44  
45  
46  
47

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

48  
49  
50  
51  
52  
53

LUMEN  
Dioni Cariaga  
Network Implementation Engineer II  
411 S Kaiser Rd, Olympia, WA 98502  
tel: 206-733-5261 / cell: 360-250-2596  
[dioni.cariaga@lumen.com](mailto:dioni.cariaga@lumen.com)

1  
2 Centralia Utilities Department  
3 500 N. Pearl St.  
4 Centralia, WA 98531  
5 (360) 330-7657  
6

7 The Contractor shall call the Underground locate service (800-424-5555) two to ten days prior to  
8 construction at each project site. The Contractor shall notify the Utility Owner of any utilities that are  
9 within two feet of the planned construction. The above list of Utility Owners may not be complete. As  
10 per RCW 19.122 it shall be the Contractors responsibility to contact the owners of utilities known or  
11 suspected of having services close to the project site.

## 12 **1-07.18 Public Liability and Property Damage Insurance**

13  
14  
15 Delete this section in its entirety, and replace it with the following:  
16

### 17 **1-07.18 Insurance** 18 *(December 30, 2022 APWA GSP)* 19

#### 20 **1-07.18(1) General Requirements**

- 21 A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-  
22 07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-:  
23 VII and licensed to do business in the State of Washington. The Contracting Agency reserves the  
24 right to approve or reject the insurance provided, based on the insurer's financial condition.
- 25  
26 B. The Contractor shall keep this insurance in force without interruption from the commencement of the  
27 Contractor's Work through the term of the Contract and for thirty (30) days after the Physical  
28 Completion date, unless otherwise indicated below.  
29
- 30 C. If any insurance policy is written on a claims-made form, its retroactive date, and that of all subsequent  
31 renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage  
32 is claims made and state the retroactive date. Claims-made form coverage shall be maintained by  
33 the Contractor for a minimum of 36 months following the Completion Date or earlier termination of  
34 this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal.  
35 If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the  
36 Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee  
37 acceptable to the Contracting Agency to assure financial responsibility for liability for services  
38 performed.
- 39  
40 D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella  
41 Liability insurance policies shall be primary and non-contributory insurance as respects the  
42 Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-  
43 insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of  
44 the Contractor's insurance and shall not contribute with it.
- 45  
46 E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice  
47 of any policy cancellation, within two business days of their receipt of such notice.  
48
- 49 F. The Contractor shall not begin work under the Contract until the required insurance has been obtained  
50 and approved by the Contracting Agency
- 51  
52 G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material  
53 breach of contract, upon which the Contracting Agency may, after giving five business days' notice

1 to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion,  
2 procure or renew such insurance and pay any and all premiums in connection therewith, with any  
3 sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the  
4 Contracting Agency, offset against funds due the Contractor from the Contracting Agency.

5  
6 H. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract  
7 and no additional payment will be made.

8  
9 **1-07.18(2) Additional Insured**

10 All insurance policies, with the exception of Workers Compensation, and of Professional Liability and  
11 Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s)  
12 using the forms or endorsements required herein:

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

14  
15 The above-listed entities shall be additional insured(s) for the full available limits of liability maintained  
16 by the Contractor, irrespective of whether such limits maintained by the Contractor are greater than  
17 those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the  
18 Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

19  
20 For Commercial General Liability insurance coverage, the required additional insured endorsements  
21 shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for  
22 completed operations.

23  
24 **1-07.18(3) Subcontractors**

25 The Contractor shall cause each subcontractor of every tier to provide insurance coverage that  
26 complies with all applicable requirements of the Contractor-provided insurance as set forth herein,  
27 except the Contractor shall have sole responsibility for determining the limits of coverage required to be  
28 obtained by subcontractors.

29  
30 The Contractor shall ensure that all subcontractors of every tier add all entities listed in 1-07.18(2) as  
31 additional insureds, and provide proof of such on the policies as required by that section as detailed in  
32 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01 for ongoing operations and  
33 CG 20 37 10 01 for completed operations.

34  
35 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency  
36 evidence of insurance and copies of the additional insured endorsements of each subcontractor of  
37 every tier as required in 1-07.18(4) Verification of Coverage.

38  
39 **1-07.18(4) Verification of Coverage**

40 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements  
41 for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the  
42 signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage  
43 with these insurance requirements or failure of Contracting Agency to identify a deficiency from the  
44 insurance documentation provided shall not be construed as a waiver of Contractor's obligation to  
45 maintain such insurance.

46  
47 Verification of coverage shall include:

- 48 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.  
49 2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as  
50 additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket  
51 additional insured clause from its policies instead of a separate endorsement.

- 1 3. Any other amendatory endorsements to show the coverage required herein.
- 2 4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these
- 3 requirements – actual endorsements must be submitted.
- 4

5 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency a full

6 and certified copy of the insurance policy(s). If Builders Risk insurance is required on this Project, a full

7 and certified copy of that policy is required when the Contractor delivers the signed Contract for the

8 work.

9

10 **1-07.18(5) Coverages and Limits**

11 The insurance shall provide the minimum coverages and limits set forth below. Contractor’s

12 maintenance of insurance, its scope of coverage, and limits as required herein shall not be construed to

13 limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the

14 Contracting Agency’s recourse to any remedy available at law or in equity.

15

16 All deductibles and self-insured retentions must be disclosed and are subject to approval by the

17 Contracting Agency. The cost of any claim payments falling within the deductible or self-insured

18 retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability

19 subject to any policy’s deductibles or self-insured retention, said deductibles or self-insured retention

20 shall be the responsibility of the Contractor.

21

22 **1-07.18(5)A Commercial General Liability**

23 Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO

24 occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop

25 gap liability, independent contractors, products-completed operations, personal and advertising injury,

26 and liability assumed under an insured contract. There shall be no exclusion for liability arising from

27 explosion, collapse or underground property damage.

28

29 The Commercial General Liability insurance shall be endorsed to provide a per project general

30 aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

31

32 Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor’s

33 completed operations for at least three years following Substantial Completion of the Work.

34

35 Such policy must provide the following minimum limits:

36	\$1,000,000	Each Occurrence
37	\$2,000,000	General Aggregate
38	\$2,000,000	Products & Completed Operations Aggregate
39	\$1,000,000	Personal & Advertising Injury each offence
40	\$1,000,000	Stop Gap / Employers’ Liability each accident

41

42 **1-07.18(5)B Automobile Liability**

43 Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on

44 a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of

45 pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

46

47 Such policy must provide the following minimum limit:

48	\$1,000,000	Combined single limit each accident
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49

50 **1-07.18(5)C Workers’ Compensation**

51 The Contractor shall comply with Workers’ Compensation coverage as required by the Industrial

52 Insurance laws of the State of Washington.

1  
2  
3 **1-08, PROSECUTION AND PROGRESS**

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

7 Add the following new section:

8  
9 **1-08.0(1) Preconstruction Conference**  
10 (October 10, 2008 APWA GSP)  
11

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

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

23  
24 The Contractor shall prepare and submit at the preconstruction conference the following:

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

28  
29 Add the following new section:  
30

31 **1-08.0(2) Hours of Work**  
32 (December 8, 2014 APWA GSP)  
33

34 Except in the case of emergency or unless otherwise approved by the Engineer, the normal working  
35 hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday  
36 through Friday, exclusive of a lunch break. If the Contractor desires different than the normal working  
37 hours stated above, the request must be submitted in writing prior to the preconstruction conference,  
38 subject to the provisions below. The working hours for the Contract shall be established at or prior to  
39 the preconstruction conference.  
40

41 All working hours and days are also subject to local permit and ordinance conditions (such as noise  
42 ordinances).  
43

44 If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a  
45 written request to the Engineer for consideration. This request shall state what hours are being  
46 requested, and why. Requests shall be submitted for review no later than 3 working days prior to the  
47 day(s) the Contractor is requesting to change the hours.  
48

49 If the Contracting Agency approves such a deviation, such approval may be subject to certain other  
50 conditions, which will be detailed in writing. For example:

1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency representatives who worked during such times. (The Engineer may require designated representatives to be present during the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence.)
2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.
3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the non working day for the week will be charged as a working day.
5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll

**1-08.1 Subcontracting**  
*(December 30, 2022 APWA GSP, Option A)*

Section 1-08.1 is supplemented with the following:

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

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

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

The Contractor shall submit to the Engineer a completed Monthly Retainage Report (WSDOT Form 272-065) within 15 calendar days after receipt of every monthly progress payment until every subcontractor and lower tier subcontractor's retainage has been released.

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

**1-08.3 Progress Schedule**  
**1-08.3(2)A Type A Progress Schedule**  
*(December 30, 2022 APWA GSP)*



1  
2 Revise this section to read:

3  
4 The Contractor shall submit 3 copies of a Type A Progress Schedule no later than at the  
5 preconstruction conference, or some other mutually agreed upon submittal time. The schedule  
6 may be a critical path method (CPM) schedule, bar chart, or other standard schedule format.  
7 Regardless of which format used, the schedule shall identify the critical path. The Engineer will  
8 evaluate the Type A Progress Schedule and approve or return the schedule for corrections within  
9 15 calendar days of receiving the submittal.

10  
11 **1-08.4 Prosecution Of Work**

12 Delete this section and replace it with the following:

13  
14 **1-08.4 Notice to Proceed and Prosecution of Work**  
15 *(July 23, 2015 APWA GSP)*

16  
17 Notice to Proceed will be given after the contract has been executed and the contract bond and  
18 evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall  
19 not commence with the work until the Notice to Proceed has been given by the Engineer. The  
20 Contractor shall commence construction activities on the project site within ten days of the Notice to  
21 Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the work to  
22 the physical completion date within the time specified in the contract. Voluntary shutdown or slowing of  
23 operations by the Contractor shall not relieve the Contractor of the responsibility to complete the work  
24 within the time(s) specified in the contract.

25  
26 When shown in the Plans, the first order of work shall be the installation of high visibility fencing to  
27 delineate all areas for protection or restoration, as described in the Contract. Installation of high visibility  
28 fencing adjacent to the roadway shall occur after the placement of all necessary signs and traffic control  
29 devices in accordance with 1-10.1(2). Upon construction of the fencing, the Contractor shall request the  
30 Engineer to inspect the fence. No other work shall be performed on the site until the Contracting  
31 Agency has accepted the installation of high visibility fencing, as described in the Contract.

32  
33 **1-08.5 Time for Completion**  
34 *(December 30, 2022 APWA GSP, Option B)*

35  
36 Revise the third and fourth paragraphs to read:

37  
38 Contract time shall begin on the first working day following the 14<sup>th</sup> calendar day after the Notice to  
39 Proceed date. If the Contractor starts work on the project at an earlier date, then contract time shall  
40 begin on the first working day when onsite work begins.

41  
42 Each working day shall be charged to the contract as it occurs, until the contract work is physically  
43 complete. If substantial completion has been granted and all the authorized working days have been  
44 used, charging of working days will cease. Each week the Engineer will provide the Contractor a  
45 statement that shows the number of working days: (1) charged to the contract the week before; (2)  
46 specified for the physical completion of the contract; and (3) remaining for the physical completion of  
47 the contract. The statement will also show the nonworking days and all partial or whole days the  
48 Engineer declares as unworkable. The statement will be identified as a Written Determination by the  
49 Engineer. If the Contractor does not agree with the Written Determination of working days, the  
50 Contractor shall pursue the protest procedures in accordance with Section 1-04.5. By failing to follow  
51 the procedures of Section 1-04.5, the Contractor shall be deemed as having accepted the statement  
52 as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule)  
53 and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working  
54 day, then the fifth day of that week will be charged as a working day whether or not the Contractor

1 works on that day.

2  
3 Revise the sixth paragraph to read:

4  
5 The Engineer will give the Contractor written notice of the completion date of the contract after all  
6 the Contractor's obligations under the contract have been performed by the Contractor. The  
7 following events must occur before the Completion Date can be established:

- 8 1. The physical work on the project must be complete; and
- 9 2. The Contractor must furnish all documentation required by the contract and required by law, to  
10 allow the Contracting Agency to process final acceptance of the contract. The following  
11 documents must be received by the Project Engineer prior to establishing a completion date:
  - 12 a. Certified Payrolls (per Section 1-07.9(5)).
  - 13 b. Material Acceptance Certification Documents
  - 14 c. Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract  
15 Provisions.
  - 16 d. Final Contract Voucher Certification
  - 17 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all  
18 subcontractors
  - 19 f. A copy of the Notice of Termination sent to the Washington State Department of Ecology  
20 (Ecology); the elapse of 30 calendar days from the date of receipt of the Notice of  
21 Termination by Ecology; and no rejection of the Notice of Termination by Ecology. This  
22 requirement will not apply if the Construction Stormwater General Permit is transferred back  
23 to the Contracting Agency in accordance with Section 8-01.3(16).
  - 24 g. Property owner releases per Section 1-07.24

25  
26  
27 *(March 13, 1995)*

28 This project shall be physically completed within \*\*\* 30 \*\*\* working days.

29  
30 **1-08.9 Liquidated Damages**

31 *(March 3, 2021 APWA GSP, Option B)*

32  
33 Revise the second and third paragraphs to read:

34  
35 Accordingly, the Contractor agrees:

- 36  
37 1. To pay (according to the following formula) liquidated damages for each working day  
38 beyond the number of working days established for Physical Completion, and
- 39  
40 2. To authorize the Engineer to deduct these liquidated damages from any money due or  
41 coming due to the Contractor.

42  
43 **Liquidated Damages Formula**

44  
45  $LD=0.15C/T$

46  
47 Where:

48  
49 LD = liquidated damages per working day (rounded to the nearest dollar)

50 C = original Contract amount

51 T = original time for Physical Completion

1  
2 When the Contract Work has progressed to Substantial Completion as defined in the Contract, the  
3 Engineer may determine the Contract Work is Substantially Complete. The Engineer will notify the  
4 Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring  
5 after the date so established, the formula for liquidated damages shown above will not apply. For  
6 overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall  
7 be assessed on the basis of direct engineering and related costs assignable to the project until the  
8 actual Physical Completion Date of all the Contract Work. The Contractor shall complete the  
9 remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor  
10 shall furnish a written schedule for completing the physical Work on the Contract.  
11

## 12 **1-09, MEASUREMENT AND PAYMENT**

### 13 **1-09.9 Payments**

14 *(December 30, 2022 APWA GSP)*  
15

16  
17 Section 1-09.9 is revised to read:  
18

19 The basis of payment will be the actual quantities of Work performed according to the Contract and  
20 as specified for payment.  
21

22 The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction  
23 Conference, to enable the Project Engineer to determine the Work performed on a monthly basis. A  
24 breakdown is not required for lump sum items that include a basis for incremental payments as part  
25 of the respective Specification. Absent a lump sum breakdown, the Project Engineer will make a  
26 determination based on information available. The Project Engineer's determination of the cost of  
27 work shall be final.  
28

29 Progress payments for completed work and material on hand will be based upon progress  
30 estimates prepared by the Engineer. A progress estimate cutoff date will be established at the  
31 preconstruction conference.  
32

33 The initial progress estimate will be made not later than 30 days after the Contractor commences  
34 the work, and successive progress estimates will be made every month thereafter until the  
35 Completion Date. Progress estimates made during progress of the work are tentative, and made  
36 only for the purpose of determining progress payments. The progress estimates are subject to  
37 change at any time prior to the calculation of the final payment.  
38

39 The value of the progress estimate will be the sum of the following:

- 40 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work  
41 completed multiplied by the unit price.
- 42 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum  
43 breakdown for that item, or absent such a breakdown, based on the Engineer's determination.
- 44 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other  
45 storage area approved by the Engineer.
- 46 4. Change Orders — entitlement for approved extra cost or completed extra work as determined  
47 by the Engineer.  
48

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

- 2 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
- 3 2. The amount of progress payments previously made; and
- 4 3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract
- 5 Documents.

6  
7 Progress payments for work performed shall not be evidence of acceptable performance or an  
8 admission by the Contracting Agency that any work has been satisfactorily completed. The  
9 determination of payments under the contract will be final in accordance with Section 1-05.1.

10  
11 Failure to perform obligations under the Contract by the Contractor may be decreed by the  
12 Contracting Agency to be adequate reason for withholding any payments until compliance is  
13 achieved.

14  
15 Upon completion of all Work and after final inspection (Section 1-05.11), the amount due the  
16 Contractor under the Contract will be paid based upon the final estimate made by the Engineer and  
17 presentation of a Final Contract Voucher Certification to be signed by the Contractor. The  
18 Contractor's signature on such voucher shall be deemed a release of all claims of the Contractor  
19 unless a Certified Claim is filed in accordance with the requirements of Section 1-09.11 and is  
20 expressly excepted from the Contractor's certification on the Final Contract Voucher Certification.  
21 The date the Contracting Agency signs the Final Contract Voucher Certification constitutes the final  
22 acceptance date (Section 1-05.12).

23  
24 If the Contractor fails, refuses, or is unable to sign and return the Final Contract Voucher  
25 Certification or any other documentation required for completion and final acceptance of the  
26 Contract, the Contracting Agency reserves the right to establish a Completion Date (for the purpose  
27 of meeting the requirements of RCW 60.28) and unilaterally accept the Contract. Unilateral final  
28 acceptance will occur only after the Contractor has been provided the opportunity, by written  
29 request from the Engineer, to voluntarily submit such documents. If voluntary compliance is not  
30 achieved, formal notification of the impending establishment of a Completion Date and unilateral  
31 final acceptance will be provided by email with delivery confirmation from the Contracting Agency to  
32 the Contractor, which will provide 30 calendar days for the Contractor to submit the necessary  
33 documents. The 30 calendar day period will begin on the date the email with delivery confirmation is  
34 received by the Contractor. The date the Contracting Agency unilaterally signs the Final Contract  
35 Voucher Certification shall constitute the Completion Date and the final acceptance date (Section 1-  
36 05.12). The reservation by the Contracting Agency to unilaterally accept the Contract will apply to  
37 Contracts that are Physically Completed in accordance with Section 1-08.5, or for Contracts that  
38 are terminated in accordance with Section 1-08.10. Unilateral final acceptance of the Contract by  
39 the Contracting Agency does not in any way relieve the Contractor of their responsibility to comply  
40 with all Federal, State, tribal, or local laws, ordinances, and regulations that affect the Work under  
41 the Contract.

42  
43 Payment to the Contractor of partial estimates, final estimates, and retained percentages shall be  
44 subject to controlling laws.

### 45 46 **1-09.11 Disputes and Claims**

47  
48

1 **1-09.11(3) Time Limitation and Jurisdiction**

2 *(December 30, 2022 APWA GSP)*

3  
4 Revise this section to read:

5  
6 For the convenience of the parties to the Contract it is mutually agreed by the parties that all  
7 claims or causes of action which the Contractor has against the Contracting Agency arising from  
8 the Contract shall be brought within 180 calendar days from the date of final acceptance  
9 (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that all  
10 such claims or causes of action shall be brought only in the Superior Court of the county where  
11 the Contracting Agency headquarters is located, provided that where an action is asserted  
12 against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand  
13 and agree that the Contractor's failure to bring suit within the time period provided, shall be a  
14 complete bar to all such claims or causes of action. It is further mutually agreed by the parties  
15 that when claims or causes of action which the Contractor asserts against the Contracting  
16 Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the  
17 Contractor shall permit the Contracting Agency to have timely access to all records deemed  
18 necessary by the Contracting Agency to assist in evaluating the claims or action.

19  
20 **1-09.13 Claims Resolution**

21  
22  
23 **1-09.13(3)A Arbitration General**

24 *(January 19, 2022 APWA GSP)*

25  
26 Revise the third paragraph to read:

27  
28 The Contracting Agency and the Contractor mutually agree to be bound by the decision of the  
29 arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior  
30 Court of the county in which the Contracting Agency's headquarters is located, provided that where  
31 claims subject to arbitration are asserted against a county, RCW 36.01.050 shall control venue and  
32 jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the  
33 decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

34  
35 **1-09.13(4) Venue for Litigation**

36 *(December 30, 2022 APWA GSP)*

37  
38 Revise this section to read:

39  
40 Litigation shall be brought in the Superior Court of the county in which the Contracting Agency's  
41 headquarters is located, provided that where claims are asserted against a county, RCW 36.01.050  
42 shall control venue and jurisdiction of the Superior Court. It is mutually agreed by the parties that  
43 when litigation occurs, the Contractor shall permit the Contracting Agency to have timely access to  
44 all records deemed necessary by the Contracting Agency to assist in evaluating the claims or  
45 action.

46  
47  
48 **1-10, TEMPORARY TRAFFIC CONTROL**

49 **1-10.2 Traffic Control Management**

50  
51 **1-10.2(1) General**

1 Section 1-10.2(1) is supplemented with the following:

2  
3 (October 3, 2022)

4 The Traffic Control Supervisor shall be certified by one of the following:

5  
6 The Northwest Laborers-Employers Training Trust  
7 27055 Ohio Ave.  
8 Kingston, WA 98346  
9 (360) 297-3035  
10 <https://www.nwlett.edu>

11  
12 Evergreen Safety Council  
13 12545 135<sup>th</sup> Ave. NE  
14 Kirkland, WA 98034-8709  
15 1-800-521-0778  
16 <https://www.esc.org>

17  
18 The American Traffic Safety Services Association  
19 15 Riverside Parkway, Suite 100  
20 Fredericksburg, Virginia 22406-1022  
21 Training Dept. Toll Free (877) 642-4637  
22 Phone: (540) 368-1701  
23 <https://atssa.com/training>

24  
25 Integrity Safety  
26 13912 NE 20th Ave.  
27 Vancouver, WA 98686  
28 (360) 574-6071  
29 <https://www.integritysafety.com>

30  
31 US Safety Alliance  
32 (904) 705-5660  
33 <https://www.ussafetyalliance.com>

34  
35 K&D Services Inc.  
36 2719 Rockefeller Ave.  
37 Everett, WA 98201  
38 (800) 343-4049  
39 <https://www.kndservices.net>

40  
41 **1-10.4 Measurement**

42  
43 **1-10.4(3) Reinstating Unit Items with Lump Sum Traffic Control**

44 Section 1-10.4(3) is supplemented with the following:

45  
46 (\*\*\*\*\*)

47 The bid proposal contains the item "Project Temporary Traffic Control," lump sum and the additional  
48 temporary traffic control items listed below. The provisions of Section 1-10.4(1), Section 1-10.4(3),  
49 and Section 1-10.5(3) shall apply.

50  
51 "Flaggers", per hour.

52 "Construction Signs Class A", per square foot.

53 "Other Traffic Control Labor", per hour.

1  
2  
3  
4  
5

**DIVISION 2  
EARTHWORK**

6  
7  
8  
9

**2-01, CLEARING, GRUBBING, AND ROADSIDE CLEANUP**

10  
11  
12

**2-01.1 Description**  
(March 13, 1995)

13  
14

Section 2-01.1 is supplemented with the following:

15  
16  
17  
18

Clearing and grubbing on this project shall be performed within the following limits:

19  
20  
21  
22  
23  
24  
25  
26

\*\*\* The limits staked in the field by the Engineer prior to first working day and/or as shown on the Contract Plans. The Contractor will be required to limit all construction operations to within the area staked to be cleared. No equipment will be allowed past the clearing limits unless directed by the Engineer. \*\*\*

27  
28  
29

**2-02, REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

30  
31  
32

**2-02.1 Description**

33  
34

Section 2-02.1 is supplemented with the following:

35  
36

*(February 25, 2021)*

37  
38

***Decommissioning Wells***

39  
40

The Contractor shall decommission wells at the locations as shown in the Plans.

41  
42  
43

**2-02.2 Materials**

44  
45

Section 2-02.2 is supplemented with the following:

46  
47

*(February 25, 2021)*

48  
49  
50

Materials shall conform to WAC 173-160-381 for the type of well scheduled for decommissioning.

51  
52  
53

**2-02.3 Construction Requirements**

54  
55

Section 2-02.3 is supplemented with the following:

56  
57

*(September 7, 2021)*

58  
59

**Removal of Obstructions**

60  
61

The following miscellaneous Obstructions shall be removed and disposed of:

62  
63

\*\*\* Removing Wire Fence \*\*\* (329 LF)

64  
65

\*\*\* Existing 18 In. Diam. Conc. Pipe \*\*\* (Abandoned)

66  
67

\*\*\* 18 In. Diam. Asbestos Concrete Pipe (Waterline)\*\*\* (See Section 1-07.5(4)C to comply)

68  
69

*(February 25, 2021)*

70  
71

***Decommissioning of Wells***

72  
73

1. Protect the well in place until decommissioned.

74  
75  
76  
77

2. The Contractor shall provide the Department of Ecology (Ecology) a Notice of Intent (NOI) prior to decommissioning a well. A pdf of the NOI shall be provided to the Engineer within 24 hours of submittal to Ecology. A pdf of any Ecology required well reports shall be provided to the

1 Engineer within 24 hours of submittal to the Ecology. Well reports shall include tag numbers,  
2 coordinates or other data required by Ecology for incorporation into the Ecology database for  
3 wells.

- 4
- 5 3. Licensed well drillers shall be utilized in accordance with Chapter 18.104 RCW, the Washington  
6 Well Construction Act.
- 7
- 8 4. The Contractor shall comply with WAC 173-160-381 which describes the standards for  
9 decommissioning a well.
- 10
- 11 5. The Contractor shall comply with WAC 173-160-261 requiring all dug wells to have a proper cap  
12 to prevent injury and contamination.
- 13
- 14 6. The Contractor shall comply with local laws pertaining to the decommissioning of wells.
- 15
- 16 7. This Work shall be completed prior to physical completion of the project or as agreed upon with  
17 the Engineer.
- 18

19 (\*\*\*\*\*)

20 Notice of Intent to decommission the wells can be found at the following hyperlink:

21 <https://apps.ecology.wa.gov/wellconstruction/Wells/NoticeOfIntentGeneralInformation.aspx>

22  
23 Well identification as follows:

24  
25 **NOI No.**  
26 RE22453  
27

## 28 **2-02.5 Payment**

29 Section 2-02.5 is supplemented with the following:

30  
31 *(February 25, 2021)*

32 “Decommissioning Well”, lump sum including all Work as specified and payment to regulatory  
33 agencies for any associated fees for monitoring or decommissioning  
34  
35

## 36 **2-03, ROADWAY EXCAVATION AND EMBANKMENT**

### 37 **2-03.1 Description**

38 Section 2-03.1 is supplement with the following:

39  
40 (\*\*\*\*\*)

41 The Work includes sawcutting HMA, as shown on the plans, needed for excavating buttress and  
42 maintaining traffic on a temporary single lane detour being protected with pinned temporary barrier.  
43 The Work also includes sawcutting HMA along centerline of roadway, as shown on the plans, in  
44 preparation of reconstructing the roadway pavement section.  
45

### 46 **2-03.3 Construction Requirements**

#### 47 **2-03.3(7) Disposal of Surplus Material**

48 Section 2-03.3(7) is supplemented with the following:

49  
50 (LCPW GSP)  
51



1 No waste site has been provided to the Contractor for the disposal of unsuitable and excess  
2 excavation material. The Contractor shall make his own arrangement to acquire a site for the  
3 disposal of unsuitable and excess excavation material.

4  
5 The Contractor shall make his own arrangements to acquire a site and obtain all environmental  
6 permits required for the disposal of the unsuitable excavation material. The Contracting Agency  
7 must approve the waste site prior to it being utilized. Approval cannot be given until the Contracting  
8 Agency receives copies of all environmental approvals.

9  
10 All costs for acquiring a disposal site and for the loading, hauling, and disposal of unsuitable and  
11 excess excavation material shall be considered incidental to the project and be included in the unit  
12 contract prices for the various items of work therein.

### 13 **2-03.4 Measurement**

14 Section 2-03.4 is supplemented with the following:

15  
16 (March 13, 1995)

17 Only one determination of the original ground elevation will be made on this project. Measurement  
18 for roadway excavation and embankment will be based on the original ground elevations recorded  
19 previous to the award of this contract. Control stakes will be set during construction to provide the  
20 Contractor with all essential information for the construction of excavation and embankments.  
21

22  
23 If discrepancies are discovered in the ground elevations which will materially affect the quantities of  
24 earthwork, the original computations of earthwork quantities will be adjusted accordingly.

25  
26 Earthwork quantities will be computed, either manually or by means of electronic data processing  
27 equipment, by use of the average end area method or by the finite element analysis method utilizing  
28 digital terrain modeling techniques.

29  
30 Copies of the ground cross-section notes will be available for the bidder's inspection, before the  
31 opening of bids, at the County Engineer's office.

32  
33 Upon award of the contract, copies of the original ground cross-sections will be furnished to the  
34 successful bidder on request to the Project Engineer.

35  
36 (\*\*\*\*\*)

37 The "Roadway Excavation Incl. Haul" bid item shall include all HMA sawcutting and the removal and  
38 disposal of soil generated from landslide debris excavation. All sawcut of HMA is considered  
39 incidental to "Roadway Excavation Incl. Haul." Roadway Excavation quantities will be measured and  
40 paid in accordance with the requirements of Sections 2-03.4 and 2-03.5.  
41

## 42 **2-09, STRUCTURE EXCAVATION**

### 43 **2-09.3(4) Construction Requirements, Structure Excavation, Class B**

44 Section 2-09.3(4) is supplemented with the following:

45  
46 (\*\*\*\*\*)

47 Excavation for the shear key and slot cutting shall be approved by the Engineer prior to backfill, and  
48 may extend beyond the limits of excavation as shown on the plans. The Variation in Excavated  
49 Quantities 1-04.6 shall not apply for this bid item. The Contractor shall submit a Type 3 working  
50 drawing to the Engineer for approval showing the slot cut sequencing, and proposed equipment for  
51 the shear key slot cutting.

1  
2 Groundwater is likely to be present within the buttress and/or shear key excavation. The need for  
3 dewatering should be anticipated. Dewatering of excavation is considered incidental to Structure  
4 Excavation, Class B Incl. Haul, per cubic yard.

5  
6 **2-09.5 Payment**

7 Section 2-09.5 is supplemented with the following:

8  
9 (\*\*\*\*\*)

10 Payment for Structure Excavation Class B Incl. Haul shall also include all labor, equipment, and  
11 materials for dewatering the excavation of the buttress and shear key.

12  
13  
14 **DIVISION 4**  
15 **BASES**  
16

17 **4-04, BALLAST AND CRUSHED SURFACING**

18 **4-04.3 Construction Requirements**

19  
20 **4-04.3(5) Shaping and Compacting**

21 Section 4-04.3(5) is supplemented with the following:

22  
23 (LCPW GSP)

24 **Shoulder Finishing**

25 Shoulder finishing material shall not be placed until the abutting pavement has been completed,  
26 unless designated by the Engineer. Shoulder finishing material (Crushed Surfacing Top Course)  
27 shall be placed by a spreader box in one lift. Processing of the shoulder finishing material on the  
28 roadway shall not be permitted.

29  
30 The existing shoulder material, as well as any additional crushed surfacing material required shall  
31 be placed, watered, and compacted against the vertical edge of the pavement. The Contractor  
32 shall grade the shoulder material to a uniform slope, remove all debris (sod, large rocks, etc.) and  
33 dress all berms resulting from this operation to the satisfaction of the Engineer. The material shall  
34 be graded into place and compacted by wheel rolling a minimum of two passes with a motor  
35 grader or comparable piece of equipment in areas where the shoulder is narrow. All other areas  
36 shall be compacted to the satisfaction of the Engineer. In all areas where the shoulder is wide  
37 enough, as determined by the Engineer, a steel drum vibratory compactor shall be used. For  
38 compaction, water shall be applied as determined by the Engineer. Damage to the HMA mat due  
39 to the Contractor's operation shall be repaired at no cost to the Contracting Agency.

40  
41 Following the placement of crushed surfacing material each day, the new mainline and shoulder  
42 pavement shall be cleaned of all dirt and debris to the satisfaction of the Engineer. Prior to  
43 commencing work on the Shoulder Finishing operation the Contractor shall submit the selected  
44 method of compaction and equipment to be used to the Engineer for approval.

45  
46 **4-04.4 Measurement**

47 Section 4-04.4 is supplemented with the following:

48  
49 (\*\*\*\*\*)

50 "Shoulder Finishing" shall be measured per mile along centerline.  
51

1 **4-04.5 Payment**

2 Section 4-04.5 is supplemented with the following:

3  
4 (\*\*\*\*\*)

5 The unit contract price per mile for "Shoulder Finishing" shall be full pay for furnishing crushed  
6 surfacing, hauling, grading existing material, placing additional material, compacting and all other  
7 work as specified.

8  
9  
10 **DIVISION 5**  
11 **SURFACE TREATMENTS AND PAVEMENTS**

12  
13 **5-04, HOT MIX ASPHALT**

14 Delete Section 5-04 and amendments, Hot Mix Asphalt and replace it with the following:

15 (LCPW GSP)

16 **5-04.1 Description**

17 This Work shall consist of providing and placing one or more layers of plant-mixed hot mix asphalt (HMA)  
18 on a prepared foundation or base in accordance with these Specifications and the lines, grades,  
19 thicknesses, and typical cross-sections shown in the Plans.

20  
21  
22 HMA shall be composed of asphalt binder and mineral materials as may be required, mixed in the  
23 proportions specified to provide a homogeneous, stable, and workable mixture.

24  
25 The term "Approach" shall include Road approaches, driveways, and extensions.

26  
27 **Superintendents, Labor, and Equipment of Contractor**

28 The Contractor shall have a sufficient number of qualified personnel on the project to insure the  
29 following minimum crew size:

- 30  
31 One paving superintendent  
32 One paver operator  
33 Two screed operators  
34 Three roller operators  
35 Two rakers

36  
37 These workers shall be present and not assigned to dual activities that would stop them from fulfilling  
38 their assigned task while the paver is in operation. There will be one assigned supervisor who will be in  
39 charge of paving operations and who will be responsible for work performed.

40  
41 **Fiber Reinforced HMA:**

42  
43 This work shall consist of providing and placing Fiber Reinforced HMA in accordance with these  
44 Specifications and the lines, grades, thicknesses and typical cross-sections shown in the plans.

45  
46 **Definitions:**

- 47  
48  
49  
50  
51  
52  
53  
54
- Reinforcing Fibers: High tensile strength synthetic aramid fiber blend specially formulated to reinforce hot mix asphalt.
  - Fiber Reinforced Asphalt Concrete (FRAC): A mixture of hot mix asphalt and reinforcing fibers that has greater resistance to rutting, thermal cracking, fatigue cracking, and reflective cracking as compared to conventional non-fiber asphalt mixes.
  - Aramid Dispersion State Ratio (ADSR): A measure of the dispersion efficiency of the Reinforcing Fibers within asphalt mixes. ADSR is calculated by comparing the mass of aramid in the individual state to the total mass of extracted aramid fibers, expressed as a percentage.

1  
2 **5-04.2 Materials**

3 Materials shall meet the requirements of the following sections:  
4

5	Asphalt Binder	9-02.1(4)
6	Cationic Emulsified Asphalt	9-02.1(6)
7	Anti-Stripping Additive	9-02.4
8	HMA Additive	9-02.5
9	Aggregates	9-03.8
10	Recycled Asphalt Pavement	9-03.8(3)B
11	Mineral Filler	9-03.8(5)
12	Recycled Material	9-03.21
13	Portland Cement	9-01
14	Sand	9-03.1(2)
15	<i>(As noted in 5-04.3(5)C for crack sealing)</i>	
16	Joint Sealant	9-04.2
17	Foam Backer Rod	9-04.2(3)A

18  
19 The Contract documents may establish that the various mineral materials required for the manufacture  
20 of HMA will be furnished in whole or in part by the Contracting Agency. If the documents do not establish  
21 the furnishing of any of these mineral materials by the Contracting Agency, the Contractor shall be  
22 required to furnish such materials in the amounts required for the designated mix. Mineral materials  
23 include coarse and fine aggregates, and mineral filler.  
24

25 No recycled asphalt pavement (RAP) may be used in the production of HMA for wearing course.  
26

27 The grade of asphalt binder shall be as required by the Contract. Blending of asphalt binder from different  
28 sources is not permitted.  
29

30 Production of aggregates shall comply with the requirements of Section 3-01. Preparation of stockpile  
31 site, the stockpiling of aggregates, and the removal of aggregates from stockpiles shall comply with the  
32 requirements of Section 3-02.  
33

34 **Reinforcing Fibers:**

- 35  
36 1. Provide a reinforcing fiber blend of virgin polyolefins and virgin aramids that meets the  
37 requirements in Table 1 and Table 2 below:  
38  
39

**Table 1**

<b>Reinforcing Fiber Material Properties</b>			
<b>Property</b>	<b>Standard</b>	<b>Polyolefin</b>	<b>Aramid</b>
Form	Manufacturer Certification	Serrated	Monofilament
Nominal Specific Gravity	ASTM D276	0.91	1.44
Tensile Strength (psi)	ASTM D7269	NA <sup>1</sup>	400,000

Length (in)	Manufacturer Certification	0.75	0.75
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1. Polyolefin fibers will melt or become plastically deformed during production

**Table 2**

Reinforcing Fiber Performance Properties			
Performance Measure	Test Method	Standard	Requirement
Dispersion Efficiency	Aramid Dispersion State Ratio (ADSR)	Modified ASTM D2172	≥ 85%
Field Performance Cracking Resistance	Pavement Condition Index	ASTM D6433	≥ 10 PCI Points increase, Minimum 4 years
Resistance to Permanent Deformation (Rutting)	Flow Number (FN)	AASTHO TP79	≥ 75% increase

2. If an aramid-based fiber blend is proposed that does not meet all of the material properties in Table 1 above, performance test results meeting Table 2 above and complying with Part 2 of Section 5-04.2(2) below a substitute fiber blend shall be submitted at least one week prior to bid date for approval by engineer.

3. Non-aramid fiber blends will not be considered as acceptable alternatives to this specification

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

If the contractor wishes to submit a mix design for inclusion in the Qualified Products List (QPL), please follow the WSDOT process outlined in Standard Specification 5-04.2(1).

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

No paving shall begin prior to the approval of the mix design by the Engineer.

*(January 3, 2011)*

**ESAL's**

The number of ESAL's for the design and acceptance of the HMA shall be \*\*\* 1.0 \*\*\* million.

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

**Commercial** evaluation will be used for Commercial HMA and for other classes of HMA if approved by the Engineer, in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Project Engineer. The Proposal quantity of HMA that is accepted by commercial evaluation will be excluded from the quantities used in the determination of nonstatistical evaluation.

1 **Nonstatistical Mix Design.** Fifteen days prior to the first day of paving the contractor shall provide  
2 one of the following mix design verification certifications for Contracting Agency review;  
3

- 4 • The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix  
5 design verification certifications listed below.
- 6 • The proposed HMA mix design on WSDOT Form 350-042 with the seal and certification  
7 (stamp & signature) of a valid licensed Washington State Professional Engineer.
- 8 • The Mix Design Report for the proposed HMA mix design developed by a qualified City or  
9 County laboratory that is within one year of the approval date.\*\*

10  
11 The mix design shall be performed by a lab accredited by a national authority such as Laboratory  
12 Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials  
13 Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall supply  
14 evidence of participation in the AASHTO: resource proficiency sample program.

15  
16 Mix designs for HMA accepted by Nonstatistical evaluation shall;

- 17  
18 • Have the aggregate structure and asphalt binder content determined in accordance with  
19 WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-03.8(2),  
20 except that Hamburg testing for ruts and stripping are at the discretion of the Engineer, and  
21 9-03.8(6).
- 22 • Have anti-strip requirements, if any, for the proposed mix design determined in accordance  
23 with AASHTO T 283 or T 324, or based on historic anti-strip and aggregate source  
24 compatibility from previous WSDOT lab testing.

25  
26 At the discretion of the Engineer, agencies may accept verified mix designs older than 12 months  
27 from the original verification date with a certification from the Contractor that the materials and  
28 sources are the same as those shown on the original mix design.

29  
30 Commercial Evaluation Approval of a mix design for "Commercial Evaluation" will be based on a  
31 review of the Contractor's submittal of WSDOT Form 350-042 (For commercial mixes, AASHTO T  
32 324 evaluation is not required) or a Mix Design from the current WSDOT QPL or from one of the  
33 processes allowed by this section. Testing of the HMA by the Contracting Agency for mix design  
34 approval is not required.

35  
36 For the Bid Item Commercial HMA, the Contractor shall select a class of HMA and design level of  
37 Equivalent Single Axle Loads (ESAL's) appropriate for the required use.

### 38 **Reinforcing Fibers:**

- 39 1. Submit the following prior to Construction:
  - 40 a. Representative fiber product sample.
  - 41 b. Fiber product data sheet and certification from the Manufacturer that the fiber product  
42 supplied meets the requirements of this specification.
  - 43 c. Manufacturer's instructions and general recommendations.
  - 44 d. Performance test results of ADSR testing from a minimum of three separate laboratory  
45 trials to validate dispersion efficiency.
  - 46 e. Performance results of PCI testing from a minimum of three separate field trials to validate  
47 cracking resistance.

- f. Performance test results of FN testing from a minimum of three separate laboratory trials to validate rutting resistance.
- g. A minimum of five unique project examples and references where the reinforcing fiber product was used within 250 miles of the project location

**\*\*NOTE: Testing is NOT required on samples from the job mix. Submit previously completed lab testing only.**

2. Performance testing requirements

All historical test results submitted to validate the fiber’s performance in asphalt mixes shall be from previously completed laboratory and field trials using plant-mixed FRAC only. **Testing is NOT required on samples from the job mix.**

Performance testing must be from laboratory trials at a fiber dosage rate equal to the rate proposed for the project. Tests must be performed by an AASHTO accredited laboratory or nationally recognized university testing lab and must be reviewed and approved by the project engineer.

- a. Aramid Dispersion State Ratio (ADSR) Tests from a minimum of three (3) separate laboratory trials.
  - 1. Perform ADSR test based on modified ASTM D2172 procedures as provided in the document entitled “Extraction of Aramid Fibers from Fiber Reinforced Asphalt Concrete – Special Test Method”. A copy of the modified extraction methodology can be obtained by making an inquiry to the Pavement and Materials Laboratory at Arizona State University at NCE@asu.edu.
  - 2. To validate ADSR results, average extracted aramid fiber quantity must equal 0.007 percent by total sample weight with no individual result less than 0.005 percent of the total sample weight.
  - 3. All tested fiber mixes must achieve a minimum ADSR of 85%.
- b. Pavement Condition Index (PCI) side by side comparison from a minimum of three (3) field trails with a minimum in-service pavement age of four years.
  - 1. PCI surveys shall be performed according to ASTM D6433.
  - 2. Tests results shall include a control and a fiber reinforced pavement section. FRAC mix shall be identical to control mix except for the inclusion of fibers added at the same dosage as proposed on the project.
  - 3. In field performance sections shall be subject to the same environmental and traffic conditions. A minimum surface area of 500 yd<sup>2</sup> per FRAC and control section is required.
  - 4. PCI results from fiber sections shall show a minimum 10 PCI points greater than the control section after a minimum of 4 years.
- c. Flow Number (FN) Tests from a minimum of three (3) separate laboratory trials.
  - 1. Perform FN tests using the protocol from AASHTO TP79.
  - 2. Tests results shall include a control and a fiber reinforced mix. FRAC mix shall be identical to control mix except for the inclusion of fibers added at the same dosage as proposed on the project.
  - 3. Results from fiber specimens shall show an average FN increase of at least 75% over control specimens.

1  
2 **5-04.3 Construction Requirements**  
3

4 **5-04.3(1) Weather Limitations**

5 Do not place HMA for wearing course on any Traveled Way beginning October 1st through March  
6 31st of the following year without written concurrence from the Engineer.  
7

8 Do not place HMA on any wet surface, or when the average surface temperatures are less than those  
9 specified below, or when weather conditions otherwise prevent the proper handling or finishing of the  
10 HMA.  
11

12 **Minimum Surface Temperature for Paving**

Compacted Thickness (Feet)	Wearing Course	Other Courses
Less than 0.10	55°F	45°F
0.10 to .20	45°F	35°F
More than 0.20	35°F	35°F

13  
14 **5-04.3(2) Paving Under Traffic**

15 When the Roadway being paved is open to traffic, the requirements of this Section shall apply.  
16

17 The Contractor shall keep intersections open to traffic at all times except when paving the intersection  
18 or paving across the intersection. During such time, and provided that there has been an advance  
19 warning to the public, the intersection may be closed for the minimum time required to place and  
20 compact the mixture. In hot weather, the Engineer may require the application of water to the  
21 pavement to accelerate the finish rolling of the pavement and to shorten the time required before  
22 reopening to traffic.  
23

24 Before closing an intersection, advance warning signs shall be placed and signs shall also be placed  
25 marking the detour or alternate route.  
26

27 During paving operations, temporary pavement markings shall be maintained throughout the project.  
28 Temporary pavement markings shall be installed on the Roadway prior to opening to traffic.  
29 Temporary pavement markings shall be in accordance with Section 8-23.  
30

31 All costs in connection with performing the Work in accordance with these requirements shall be  
32 included in the unit Contract prices for the various Bid items involved in the Contract.  
33

34 **5-04.3(3) Equipment**

35  
36 **5-04.3(3)A Mixing Plant**

37 Plants used for the preparation of HMA shall conform to the following requirements:  
38



- 1           **1. Equipment for Preparation of Asphalt Binder** – Tanks for the storage of asphalt binder  
2           shall be equipped to heat and hold the material at the required temperatures. The heating  
3           shall be accomplished by steam coils, electricity, or other approved means so that no flame  
4           shall be in contact with the storage tank. The circulating system for the asphalt binder shall  
5           be designed to ensure proper and continuous circulation during the operating period. A  
6           valve for the purpose of sampling the asphalt binder shall be placed in either the storage  
7           tank or in the supply line to the mixer.
- 8           **2. Thermometric Equipment** – An armored thermometer, capable of detecting temperature  
9           ranges expected in the HMA mix, shall be fixed in the asphalt binder feed line at a location  
10          near the charging valve at the mixer unit. The thermometer location shall be convenient  
11          and safe for access by Inspectors. The plant shall also be equipped with an approved dial-  
12          scale thermometer, a mercury actuated thermometer, an electric pyrometer, or another  
13          approved thermometric instrument placed at the discharge chute of the drier to  
14          automatically register or indicate the temperature of the heated aggregates. This device  
15          shall be in full view of the plant operator.
- 16          **3. Heating of Asphalt Binder** – The temperature of the asphalt binder shall not exceed the  
17          maximum recommended by the asphalt binder manufacturer nor shall it be below the  
18          minimum temperature required to maintain the asphalt binder in a homogeneous state. The  
19          asphalt binder shall be heated in a manner that will avoid local variations in heating. The  
20          heating method shall provide a continuous supply of asphalt binder to the mixer at a uniform  
21          average temperature with no individual variations exceeding 25°F. Also, when a WMA  
22          additive is included in the asphalt binder, the temperature of the asphalt binder shall not  
23          exceed the maximum recommended by the manufacturer of the WMA additive.
- 24          **4. Sampling and Testing of Mineral Materials** – The HMA plant shall be equipped with a  
25          mechanical sampler for the sampling of the mineral materials. The mechanical sampler  
26          shall meet the requirements of Section 1-05.6 for the crushing and screening operation.  
27          The Contractor shall provide for the setup and operation of the field testing facilities of the  
28          Contracting Agency as provided for in Section 3-01.2(2).
- 29          **5. Sampling HMA** – The HMA plant shall provide for sampling HMA by one of the following  
30          methods:
  - 31               a. A mechanical sampling device attached to the HMA plant.
  - 32               b. Platforms or devices to enable sampling from the hauling vehicle without entering the  
33               hauling vehicle.

#### 35           **5-04.3(3)B Hauling Equipment**

36           Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall have a cover  
37           of canvas or other suitable material of sufficient size to protect the mixture from adverse weather.  
38           Whenever the weather conditions during the work shift include, or are forecast to include,  
39           precipitation or an air temperature less than 45°F or when time from loading to unloading exceeds  
40           30 minutes, the cover shall be securely attached to protect the HMA.

41  
42           The contractor shall provide an environmentally benign means to prevent the HMA mixture from  
43           adhering to the hauling equipment. Excess release agent shall be drained prior to filling hauling  
44           equipment with HMA. Petroleum derivatives or other coating material that contaminate or alter  
45           the characteristics of the HMA shall not be used. For live bed trucks, the conveyer shall be in  
46           operation during the process of applying the release agent.

1  
2 **5-04.3(3)C Pavers**

3 HMA pavers shall be self-contained, power-propelled units, provided with an internally heated  
4 vibratory screed and shall be capable of spreading and finishing courses of HMA plant mix  
5 material in lane widths required by the paving section shown in the Plans.  
6

7 The HMA paver shall be in good condition and shall have the most current equipment available  
8 from the manufacturer for the prevention of segregation of the HMA mixture installed, in good  
9 condition, and in working order. The equipment certification shall list the make, model, and year  
10 of the paver and any equipment that has been retrofitted.  
11

12 The screed shall be operated in accordance with the manufacturer's recommendations and shall  
13 effectively produce a finished surface of the required evenness and texture without tearing,  
14 shoving, segregating, or gouging the mixture. A copy of the manufacturer's recommendations  
15 shall be provided upon request by the Contracting Agency. Extensions will be allowed provided  
16 they produce the same results, including ride, density, and surface texture as obtained by the  
17 primary screed. Extensions without augers and an internally heated vibratory screed shall not be  
18 used in the Traveled Way.  
19

20 When specified in the Contract, reference lines for vertical control will be required. Lines shall be  
21 placed on both outer edges of the Traveled Way of each Roadway. Horizontal control utilizing the  
22 reference line will be permitted. The grade and slope for intermediate lanes shall be controlled  
23 automatically from reference lines or by means of a mat referencing device and a slope control  
24 device. When the finish of the grade prepared for paving is superior to the established tolerances  
25 and when, in the opinion of the Engineer, further improvement to the line, grade, cross-section,  
26 and smoothness can best be achieved without the use of the reference line, a mat referencing  
27 device may be substituted for the reference line. Substitution of the device will be subject to the  
28 continued approval of the Engineer. A joint matcher may be used subject to the approval of the  
29 Engineer. The reference line may be removed after the completion of the first course of HMA  
30 when approved by the Engineer. Whenever the Engineer determines that any of these methods  
31 are failing to provide the necessary vertical control, the reference lines will be reinstalled by the  
32 Contractor.  
33

34 The Contractor shall furnish and install all pins, brackets, tensioning devices, wire, and  
35 accessories necessary for satisfactory operation of the automatic control equipment.  
36

37 If the paving machine in use is not providing the required finish, the Engineer may suspend Work  
38 as allowed by Section 1-08.6. Any cleaning or solvent type liquids spilled on the pavement shall  
39 be thoroughly removed before paving proceeds.  
40

41 **5-04.3(3)D Material Transfer Vehicle**

42 When used, the MTV shall mix the HMA after delivery by the hauling equipment and prior to  
43 laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a uniform  
44 temperature throughout the mixture.  
45

46 To be approved for use, an MTV:

- 47
- 48 1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.
  - 49 2. Shall not be connected to the hauling vehicle or paver.

- 1 3. May accept HMA directly from the haul vehicle.
- 2 4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into
- 3 the paving machine.
- 4 5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.
- 5

6 Direct transfer of the HMA mixture from the hauling equipment to the paving machine will not be  
7 allowed. The Contractor shall use a self-propelled material transfer vehicle (MTV) to deliver the  
8 HMA mixture from the hauling equipment to the paving machine when placing HMA pavement on  
9 travel lanes and shoulders, when shoulders are paved in conjunction with travel lanes. A material  
10 transfer vehicle is not required for small quantities such as driveways and is optional for shoulders  
11 that are paved separately from the driving lane(s). A windrow elevator is not acceptable as a  
12 transfer device.

13  
14 The transfer vehicle's holding hopper shall have a minimum capacity of 15 tons. The material  
15 transfer vehicle shall mix the HMA after delivery by the hauling equipment but prior to lay down  
16 by the paving machine. Mixing of the HMA material shall be sufficient to obtain a consistent  
17 temperature throughout the mixture. If a transfer vehicle does not have holding or mixing  
18 capabilities, the paving machine shall be fitted with a holding and mixing hopper having a  
19 minimum capacity of 15 tons.

20  
21 Prior to use, the Contractor shall submit the manufacturer and model number of the equipment to  
22 the Engineer for review and approval. All costs to incorporate the material transfer device or  
23 vehicle into the paving train shall be included in the unit contract price for the HMA.

24  
25 The Contractor shall deliver the mixture to the paving machine at a rate that provides continuous  
26 operation of the paving machine, except for unavoidable delay or breakdown. If excessive  
27 stopping of the paving machine occurs during paving operations, the Engineer may suspend  
28 paving operations until the mixture deliver rate matches the paving machine operation.

### 30 **5-04.3(3)E Rollers**

31 Rollers shall be of the steel wheel, vibratory, oscillatory, or pneumatic tire type, in good condition  
32 and capable of reversing without backlash. Operation of the roller shall be in accordance with the  
33 manufacturer's recommendations. When ordered by the Engineer for any roller planned for use  
34 on the project, the Contractor shall provide a copy of the manufacturer's recommendation for the  
35 use of that roller for compaction of HMA. The number and weight of rollers shall be sufficient to  
36 compact the mixture in compliance with the requirements of Section 5-04.3(10). The use of  
37 equipment that results in crushing of the aggregate will not be permitted. Rollers producing pickup,  
38 washboard, uneven compaction of the surface, displacement of the mixture or other undesirable  
39 results shall not be used.

### 41 **5-04.3(4) Preparation of Existing Paved Surfaces**

42 When the surface of the existing pavement or old base is irregular, the Contractor shall bring it to a  
43 uniform grade and cross-section as shown on the Plans or approved by the Engineer.

44  
45 Preleveling of uneven or broken surfaces over which HMA is to be placed may be accomplished by  
46 using an asphalt paver, a motor patrol grader, or by hand raking, as approved by the Engineer.

47  
48 Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may require the use  
49 of small steel wheel rollers, plate compactors, or pneumatic rollers to avoid bridging across preleveled

1 areas by the compaction equipment. Equipment used for the compaction of preleveling HMA shall be  
2 approved by the Engineer.  
3

4 Before construction of HMA on an existing paved surface, the entire surface of the pavement shall  
5 be clean. All fatty asphalt patches, grease drippings, and other objectionable matter shall be entirely  
6 removed from the existing pavement. All pavements or bituminous surfaces shall be thoroughly  
7 cleaned of dust, soil, pavement grindings, and other foreign matter. All holes and small depressions  
8 shall be filled with an appropriate class of HMA. The surface of the patched area shall be leveled and  
9 compacted thoroughly. Prior to the application of tack coat, or paving, the condition of the surface  
10 shall be approved by the Engineer.  
11

12 A tack coat of asphalt shall be applied to all paved surfaces on which any course of HMA is to be  
13 placed or abutted; except that tack coat may be omitted from clean, newly paved surfaces at the  
14 discretion of the Engineer. Tack coat shall be uniformly applied to cover the existing pavement with  
15 a thin film of residual asphalt free of streaks and bare spots at a rate between 0.02 and 0.10 gallons  
16 per square yard of retained asphalt. The rate of application shall be approved by the Engineer. A  
17 heavy application of tack coat shall be applied to all joints. For Roadways open to traffic, the  
18 application of tack coat shall be limited to surfaces that will be paved during the same working shift.  
19 The spreading equipment shall be equipped with a thermometer to indicate the temperature of the  
20 tack coat material.  
21

22 Equipment shall not operate on tacked surfaces until the tack has broken and cured. If the  
23 Contractor's operation damages the tack coat it shall be repaired prior to placement of the HMA.  
24

25 The tack coat shall be CSS-1, or CSS-1h emulsified asphalt. The CSS-1 and CSS-1h emulsified  
26 asphalt may be diluted once with water at a rate not to exceed one part water to one part emulsified  
27 asphalt. The tack coat shall have sufficient temperature such that it may be applied uniformly at the  
28 specified rate of application and shall not exceed the maximum temperature recommended by the  
29 emulsified asphalt manufacturer.  
30

### 31 **5-04.3(4)A Crack Sealing**

#### 32 **5-04.3(4)A1 General**

33 When the Proposal includes a pay item for crack sealing, seal all cracks ¼ inch in width and  
34 greater. If the Proposal does not include an item for crack sealing or sealed joints it shall be  
35 incidental to and included in the unit contract price per ton for the HMA  
36  
37

38 **Cleaning:** Ensure that cracks are thoroughly clean, dry and free of all loose and foreign  
39 material when filling with crack sealant material. Use a hot compressed air lance to dry and  
40 warm the pavement surfaces within the crack immediately prior to filling a crack with the  
41 sealant material. Do not overheat pavement. Do not use direct flame dryers. Routing cracks  
42 is not required.  
43

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

1  
2 The sand slurry shall consist of approximately 20 percent CSS-1 emulsified asphalt,  
3 approximately 2 percent portland cement, water (if required), and the remainder clean Class  
4 1 or 2 fine aggregate per section 9-03.1(2). The components shall be thoroughly mixed and  
5 then poured into the cracks and joints until full. The following day, any cracks or joints that are  
6 not completely filled shall be topped off with additional sand slurry. After the sand slurry is  
7 placed, the filler shall be struck off flush with the existing pavement surface and allowed to  
8 cure. The HMA overlay shall not be placed until the slurry has fully cured. The requirements  
9 of Section 1-06 will not apply to the portland cement and sand used in the sand slurry.  
10

11 In areas where HMA will be placed, use sand slurry to fill the cracks.  
12

13 In areas where HMA will not be placed, fill the cracks as follows:  
14

- 15 1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
- 16 2. Cracks greater than 1 inch in width – fill with sand slurry.  
17

18 **Hot Poured Sealant:** For cracks that are to be filled with hot poured sealant, apply the material  
19 in accordance with these requirements and the manufacturer's recommendations. Furnish a  
20 Type 1 Working Drawing of the manufacturer's product information and recommendations to  
21 the Engineer prior to the start of work, including the manufacturer's recommended heating  
22 time and temperatures, allowable storage time and temperatures after initial heating,  
23 allowable reheating criteria, and application temperature range. Confine hot poured sealant  
24 material within the crack. Clean any overflow of sealant from the pavement surface. If, in the  
25 opinion of the Engineer, the Contractor's method of sealing the cracks with hot poured sealant  
26 results in an excessive amount of material on the pavement surface, stop and correct the  
27 operation to eliminate the excess material.  
28

#### 29 **5-04.3(4)A2 Crack Sealing Areas Prior to Paving**

30 In areas where HMA will be placed, use sand slurry to fill the cracks.  
31

#### 32 **5-04.3(4)A3 Crack Sealing Areas Not to be Paved**

33 In areas where HMA will not be placed, fill the cracks as follows:  
34

- 35 1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.
- 36 2. Cracks greater than 1 inch in width – fill with sand slurry.  
37

#### 38 **5-04.3(4)B Vacant**

#### 39 **5-04.3(4)C Pavement Repair**

40 All planning bituminous pavement shall be complete before performing pavement repair. The  
41 Contractor shall excavate pavement repair areas and shall backfill these with HMA in accordance  
42 with the details shown in the Plans and as marked in the field. The Contractor shall conduct the  
43 excavation operations in a manner that will protect the pavement that is to remain. Pavement not  
44 designated to be removed that is damaged as a result of the Contractor's operations shall be  
45 repaired by the Contractor to the satisfaction of the Engineer at no cost to the Contracting Agency.  
46 The Contractor shall excavate only within one lane at a time unless approved otherwise by the  
47

1 Engineer. The Contractor shall not excavate more area than can be completely finished during  
2 the same shift, unless approved by the Engineer.  
3

4 Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth of 1.0  
5 feet. The Engineer will make the final determination of the excavation depth required. The  
6 minimum width of any pavement repair area shall be 40 inches unless shown otherwise in the  
7 Plans. Before any excavation, the existing pavement shall be sawcut or shall be removed by a  
8 pavement grinder. Excavated materials will become the property of the Contractor and shall be  
9 disposed of in a Contractor-provided site off the Right of Way or used in accordance with Sections  
10 2-02.3(3) or 9-03.21.  
11

12 Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy application of  
13 tack coat shall be applied to all surfaces of existing pavement in the pavement repair area.  
14

15 Placement of the HMA backfill shall be accomplished in lifts not to exceed 0.35-foot compacted  
16 depth. Lifts that exceed 0.35-foot of compacted depth may be accomplished with the approval of  
17 the Engineer. Each lift shall be thoroughly compacted by a mechanical tamper or a roller.  
18

### 19 **5-04.3(5) Producing/Stockpiling Aggregates and RAP**

20 Aggregates and RAP shall be stockpiled according to the requirements of Section 3-02. Sufficient  
21 storage space shall be provided for each size of aggregate and RAP. Materials shall be removed  
22 from stockpile(s) in a manner to ensure minimal segregation when being moved to the HMA plant for  
23 processing into the final mixture. Different aggregate sizes shall be kept separated until they have  
24 been delivered to the HMA plant.  
25

#### 26 **5-04.3(5)A Vacant**

### 27 **5-04.3(6) Mixing**

28 After the required amount of mineral materials, asphalt binder, recycling agent and anti-stripping  
29 additives have been introduced into the mixer the HMA shall be mixed until complete and uniform  
30 coating of the particles and thorough distribution of the asphalt binder throughout the mineral  
31 materials is ensured.  
32  
33

34 When discharged, the temperature of the HMA shall not exceed the optimum mixing temperature by  
35 more than 25°F as shown on the reference mix design report or as approved by the Engineer. A  
36 maximum water content of 2 percent in the mix, at discharge, will be allowed providing the water  
37 causes no problems with handling, stripping, or flushing. If the water in the HMA causes any of these  
38 problems, the moisture content shall be reduced as directed by the Engineer.  
39

40 Storing or holding of the HMA in approved storage facilities will be permitted with approval of the  
41 Engineer, but in no event shall the HMA be held for more than 24 hours. HMA held for more than 24  
42 hours after mixing shall be rejected. Rejected HMA shall be disposed of by the Contractor at no  
43 expense to the Contracting Agency. The storage facility shall have an accessible device located at  
44 the top of the cone or about the third point. The device shall indicate the amount of material in storage.  
45 No HMA shall be accepted from the storage facility when the HMA in storage is below the top of the  
46 cone of the storage facility, except as the storage facility is being emptied at the end of the  
47 working shift.  
48

### 49 **Reinforcing Fibers**

1. Delivery & Storage: Deliver fiber-reinforcement to plant in sealed, undamaged containers with labels intact and legible, indicating material name and lot number. Store materials covered and off the ground. Keep sand and dust out of boxes and do not allow boxes to become wet.
2. Add aramid and polyolefin reinforcing fiber blends at a dosage rate of one (1) pound per one (1) ton of asphalt.
3. Add alternative aramid fiber blends at a rate proposed by the manufacturer that achieves the ADSR, PCI, and FN results required in Section 5-04.2.
4. Have a fiber manufacturer's representative on site during mixing and production. This requirement can be waived if fiber manufacturer and asphalt producer can supply evidence of manufacturer's brand of fiber being successfully produced a minimum of three times at the asphalt plant to be used for the project.
5. Batch Plant. When a batch plant is used, add fiber to the aggregate in the weigh hopper and increase both dry and wet mixing times. Ensure that the fiber is uniformly distributed before the injection of asphalt cement into the mixture.
6. Drum Plant:
  - a. Inject fibers through the RAP collar by feeding them with a blower tube system. Rate the feeding of fibers with the rate the plant is producing asphalt mix. If there is any evidence of fiber balls at the discharge chute, increase the mixing time and/or temperature or change the angle of the fiber feeder line to increase dry mixing time.
  - b. When using a blower tube system, add fibers continuously and in a steady uniform manner. Provide automated proportioning devices and control delivery within  $\pm 10\%$  of the mass of the fibers required. Perform an equipment calibration to the satisfaction of the fiber manufacturer's representative to show that the fiber is being accurately metered and uniformly distributed into the mix.

Include the following with the blower tube system:

- Low level indicators
- No-flow indicators
- A printout of feed rate status in pounds/minute
- A section of transparent pipe in the fiber supply line for observing consistency of flow or feed.
- Manufacturer's representative's approval of fiber addition system

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

The mixture shall be laid upon an approved surface, spread, and struck off to the grade and elevation established. HMA pavers complying with Section 5-04.3(3) shall be used to distribute the mixture. Unless otherwise directed by the Engineer, the nominal compacted depth of any layer of any course shall not exceed the following:

HMA Class 1"	0.35 feet
HMA Class $\frac{3}{4}$ " and HMA Class $\frac{1}{2}$ "	
wearing course	0.30 feet
other courses	0.35 feet

On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the paving may be done with other equipment or by hand.

When more than one JMF is being utilized to produce HMA, the material produced for each JMF shall be placed by separate spreading and compacting equipment. The intermingling of HMA produced from more than one JMF is prohibited. Each strip of HMA placed during a work shift shall conform to a single JMF established for the class of HMA specified unless there is a need to make an adjustment in the JMF.

#### **5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA**

For HMA accepted by nonstatistical evaluation the aggregate properties of sand equivalent, uncompacted void content and fracture will be evaluated in accordance with Section 3-04. Sampling and testing of aggregates for HMA accepted by commercial evaluation will be at the option of the Engineer.

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

Acceptance of HMA shall be as provided under nonstatistical, or commercial evaluation.

Nonstatistical evaluation will be used for the acceptance of HMA unless Commercial Evaluation is specified.

Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Engineer.

The mix design will be the initial JMF for the class of HMA. The Contractor may request a change in the JMF. Any adjustments to the JMF will require the approval of the Engineer and may be made in accordance with this section.

#### **Reinforcing Fibers**

1. Follow manufacturer's representative's recommendations for placement of FRAC.
2. Collect a small sample (10-20kg) of mix from the discharge chute during first 50 tons of production. If there are one or more undistributed fiber clips or bundles, adjust mixing operations per manufacturer's recommendations to eliminate fiber bundles.
3. Visually observe FRAC mix in the back of first three trucks and every tenth truck thereafter to confirm adequate blending of the fiber.
4. Remove any observed fiber bundles from placed mixture and adjust operations per the manufacturer's recommendation to eliminate future fiber bundle development.

#### **HMA Tolerances and Adjustments**

1. **Job Mix Formula Tolerances** – The constituents of the mixture at the time of acceptance shall be within tolerance. The tolerance limits will be established as follows:



For Asphalt Binder and Air Voids (Va), the acceptance limits are determined by adding the tolerances below to the approved JMF values. These values will also be the Upper Specification Limit (USL) and Lower Specification Limit (LSL) required in Section 1-06.2(2)D2

Property	Non-Statistical Evaluation	Commercial Evaluation
Asphalt Binder	+/- 0.5%	+/- 0.7%
Air Voids, Va	2.5% min. and 5.5% max	N/A

For Aggregates in the mixture:

- a. First, determine preliminary upper and lower acceptance limits by applying the following tolerances to the approved JMF.

Aggregate Percent Passing	Non-Statistical Evaluation	Commercial Evaluation
1", ¾", ½", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/-5%	+/- 8%
No. 8 Sieve	+/- 4%	+/-8%
No. 200 sieve	+/- 1.0%	+/- 3.0%

- b. Second, adjust the preliminary upper and lower acceptance limits determined from step (a) the minimum amount necessary so that none of the aggregate properties are outside the control points in Section 9-03.8(6). The resulting values will be the upper and lower acceptance limits for aggregates, as well as the USL and LSL required in Section 1-06.2(2)D2.

2. Job Mix Formula Adjustments – An adjustment to the aggregate gradation or asphalt binder content of the JMF requires approval of the Engineer. Adjustments to the JMF will only be considered if the change produces material of equal or better quality and may require the development of a new mix design if the adjustment exceeds the amounts listed below.

- a. **Aggregates** –2 percent for the aggregate passing the 1½", 1", ¾", ½", ⅜", and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and 0.5 percent for the aggregate passing the No. 200 sieve. The adjusted JMF shall be within the range of the control points in Section 9-03.8(6).

- b. **Asphalt Binder Content** – The Engineer may order or approve changes to asphalt binder content. The maximum adjustment from the approved mix design for the asphalt binder content shall be 0.3 percent

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

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

**5-04.3(9)C Mixture Acceptance – Nonstatistical Evaluation**

HMA mixture which is accepted by Nonstatistical Evaluation will be evaluated by the Contracting Agency by dividing the HMA tonnage into lots.

**5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots and Sublots**

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A subplot shall be equal to one day's

1 production or 800 tons, whichever is less except that the final subplot will be a minimum of 400  
2 tons and may be increased to 1200 tons.

3  
4 All of the test results obtained from the acceptance samples from a given lot shall be evaluated  
5 collectively. If the Contractor requests a change to the JMF that is approved, the material  
6 produced after the change will be evaluated on the basis of the new JMF for the remaining  
7 sublots in the current lot and for acceptance of subsequent lots. For a lot in progress with a  
8 CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is  
9 satisfied that material conforming to the Specifications can be produced.

10  
11 Sampling and testing for evaluation shall be performed on the frequency of one sample per  
12 subplot.

### 13 14 **5-04.3(9)C2 Mixture Nonstatistical Evaluation Sampling**

15 Samples for acceptance testing shall be obtained by the Contractor when ordered by the  
16 Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer and  
17 in accordance with AASH-TO T 168. A minimum of three samples should be taken for each  
18 class of HMA placed on a project. If used in a structural application, at least one of the three  
19 samples shall to be tested.

20  
21 Sampling and testing HMA in a Structural application where quantities are less than 400 tons  
22 is at the discretion of the Engineer.

23  
24 For HMA used in a structural application and with a total project quantity less than 800 tons  
25 but more than 400 tons, a minimum of one acceptance test shall be performed. In all cases,  
26 a minimum of 3 samples will be obtained at the point of acceptance, a minimum of one of the  
27 three samples will be tested for conformance to the JMF:

- 28
- 29 • If the test results are found to be within specification requirements, additional testing
- 30 will be at the Engineer's discretion.
- 31 • If test results are found not to be within specification requirements, additional testing
- 32 of the remaining samples to determine a Composite Pay Factor (CPF) shall be
- 33 performed.
- 34

### 35 **5-04.3(9)C3 Mixture Nonstatistical Evaluation – Acceptance Testing**

36 Testing of HMA for compliance of  $V_a$  will be at the option of the Contracting Agency. If tested,  
37 compliance of  $V_a$  will use WSDOT SOP 731.

38  
39 Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 308.

40  
41 Testing for compliance of gradation will be by FOP for WAQTC T 27/T 11.

### 42 43 **5-04.3(9)C4 Mixture Nonstatistical Evaluation – Pay Factors**

44 For each lot of material falling outside the tolerance limits in 5-04.3(9), the Contracting Agency  
45 will determine a Composite Pay Factor (CPF) using the following price adjustment factors:

## 46 **Table of Price Adjustment Factors**

Constituent	Factor "F"
All aggregate passing: 1½", 1", ¾", ½", ⅜" and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (Va) (where applicable)	20

Each lot of HMA produced under Nonstatistical Evaluation and having all constituents falling within the tolerance limits of the job mix formula shall be accepted at the unit Contract price with no further evaluation. When one or more constituents fall outside the nonstatistical tolerance limits in the Job Mix Formula shown in Table of Price Adjustment Factors, the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The nonstatistical tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the existing sublots or samples from the Roadway shall be tested to provide a minimum of three sets of results for evaluation.

**5-04.3(9)C5 Vacant**

**5-04.3(9)C6 Mixture Nonstatistical Evaluation – Price Adjustments**

For each lot of HMA mix produced under Nonstatistical Evaluation when the calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The total job mix compliance price adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

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

**5-04.3(9)C7 Mixture Nonstatistical Evaluation - Retests**

The Contractor may request a subplot be retested. To request a retest, the Contractor shall submit a written request within 7 calendar days after the specific test results have been received. A split of the original acceptance sample will be retested. The split of the sample will not be tested with the same tester that ran the original acceptance test. The sample will be tested for a complete gradation analysis, asphalt binder content, and, at the option of the agency, V<sub>a</sub>. The results of the retest will be used for the acceptance of the HMA in place of the original subplot sample test results. The cost of testing will be deducted from any monies due or that may come due the Contractor under the Contract at the rate of \$500 per sample.

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

If sampled and tested, HMA produced under Commercial Evaluation and having all constituents falling within the tolerance limits of the job mix formula shall be accepted at the unit Contract price with no further evaluation. When one or more constituents fall outside the commercial tolerance limits in the Job Mix Formula shown in 5-04.3(9), the lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The commercial tolerance limits will be used in the calculation of the CPF and the maximum CPF shall be 1.00. When less than three sublots

1 exist, backup samples of the existing sublots or samples from the street shall be tested to provide  
2 a minimum of three sets of results for evaluation.

3  
4 For each lot of HMA mix produced and tested under Commercial Evaluation when the calculated  
5 CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The NCMF equals  
6 the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The Job Mix Compliance  
7 Price Adjustment will be calculated as the product of the NCMF, the quantity of HMA in the lot in  
8 tons, and the unit Contract price per ton of mix.

9  
10 If a constituent is not measured in accordance with these Specifications, its individual pay factor  
11 will be considered 1.00 in calculating the Composite Pay Factor (CPF).

### 12 13 **5-04.3(10) HMA Compaction Acceptance**

14 HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including lanes for  
15 intersections, ramps, truck climbing, weaving, and speed change, and having a specified compacted  
16 course thickness greater than 0.10-foot, shall be compacted to a specified level of relative density.  
17 The specified level of relative density shall be a Composite Pay Factor (CPF) of not less than 0.75  
18 when evaluated in accordance with Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of  
19 the maximum density). The maximum density shall be determined by WSDOT FOP for AASHTO T  
20 729. The specified level of density attained will be determined by the evaluation of the density of the  
21 pavement. The density of the pavement shall be determined in accordance with WSDOT FOP for  
22 ASSHTO T 355, except that gauge correlation will be at the discretion of the Engineer, when using  
23 the nuclear density gauge and WSDOT SOP 736 when using cores to determine density.

24  
25 Tests for the determination of the pavement density will be taken in accordance with the required  
26 procedures for measurement by a nuclear density gauge or roadway cores after completion of the  
27 finish rolling.

28  
29 If the Contracting Agency uses a nuclear density gauge to determine density the test procedures  
30 WSDOT FOP for ASSHTO T 355 and WSDOT SOP T 729 will be used on the day the mix is placed  
31 and prior to opening to traffic.

32  
33 Roadway cores for density may be obtained by either the Contracting Agency or the Contractor in  
34 accordance with WSDOT SOP 734. The core diameter shall be 4-inches minimum, unless otherwise  
35 approved by the Engineer. Roadway cores will be tested by the Contracting Agency in accordance  
36 with WSDOT FOP for AASHTO T 166.

37  
38 If the Contract includes the Bid item "Roadway Core" the cores shall be obtained by the Contractor  
39 in the presence of the Engineer on the same day the mix is placed and at locations designated by the  
40 Engineer. If the Contract does not include the Bid item "Roadway Core" the Contracting Agency will  
41 obtain the cores.

42  
43 For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after  
44 the Engineer is satisfied that material conforming to the Specifications can be produced.

45  
46 HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than  
47 those listed above shall be compacted on the basis of a test point evaluation of the compaction train.  
48 The test point evaluation shall be performed in accordance with instructions from the Engineer. The

1 number of passes with an approved compaction train, required to attain the maximum test point  
2 density, shall be used on all subsequent paving.  
3

4 HMA for preleveling shall be thoroughly compacted. HMA that is used for preleveling wheel rutting  
5 shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.  
6

### 7 **Test Results**

8 For a subplot that has been tested with a nuclear density gauge that did not meet the minimum of 92  
9 percent of the reference maximum density in a compaction lot with a CPF below 1.00 and thus subject  
10 to a price reduction or rejection, the Contractor may request that a core be used for determination of  
11 the relative density of the subplot. The relative density of the core will replace the relative density  
12 determined by the nuclear density gauge for the subplot and will be used for calculation of the CPF  
13 and acceptance of HMA compaction lot.  
14

15 When cores are taken by the Contracting Agency at the request of the Contractor, they shall be  
16 requested by noon of the next workday after the test results for the subplot have been provided or  
17 made available to the Contractor. Core locations shall be outside of wheel paths and as determined  
18 by the Engineer. Traffic control shall be provided by the Contractor as requested by the Engineer.  
19 Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request  
20 for cores. When the CPF for the lot based on the results of the HMA cores is less than 1.00, the cost  
21 for the coring will be deducted from any monies due or that may become due the Contractor under  
22 the Contract at the rate of \$200 per core and the Contractor shall pay for the cost of the traffic control.  
23

### 24 **5-04.3(10)A HMA Compaction – General Compaction Requirements**

25 Compaction shall take place when the mixture is in the proper condition so that no undue  
26 displacement, cracking, or shoving occurs. Areas inaccessible to large compaction equipment  
27 shall be compacted by other mechanical means. Any HMA that becomes loose, broken,  
28 contaminated, shows an excess or deficiency of asphalt, or is in any way defective, shall be  
29 removed and replaced with new hot mix that shall be immediately compacted to conform to the  
30 surrounding area.  
31

32 The type of rollers to be used and their relative position in the compaction sequence shall  
33 generally be the Contractor's option, provided the specified densities are attained. Unless the  
34 Engineer has approved otherwise, rollers shall only be operated in the static mode when the  
35 internal temperature of the mix is less than 175°F. Regardless of mix temperature, a roller shall  
36 not be operated in a mode that results in checking or cracking of the mat. Rollers shall only be  
37 operated in static mode on bridge decks.  
38

### 39 **5-04.3(10)B HMA Compaction – Cyclic Density**

40 Low cyclic density areas are defined as spots or streaks in the pavement that are less than 90  
41 percent of the theoretical maximum density. At the Engineer's discretion, the Engineer may  
42 evaluate the HMA pavement for low cyclic density, and when doing so will follow WSDOT SOP  
43 733. A \$500 Cyclic Density Price Adjustment will be assessed for any 500-foot section with two  
44 or more density readings below 90 percent of the theoretical maximum density.  
45

### 46 **5-04.3(10)C Vacant**

### 47 **5-04.3(10)D HMA Nonstatistical Compaction**

### 48 **5-04.3(10)D1 HMA Nonstatistical Compaction – Lots and Sublots**

1 HMA compaction which is accepted by nonstatistical evaluation will be based on acceptance  
2 testing performed by the Contracting Agency dividing the project into compaction lots.  
3

4 A lot is represented by randomly selected samples of the same mix design that will be tested  
5 for acceptance. A lot is defined as the total quantity of material or work produced for each Job  
6 Mix Formula placed. Only one lot per JMF is expected. A subplot shall be equal to one day's  
7 production or 400 tons, whichever is less except that the final subplot will be a minimum of 200  
8 tons and may be increased to 800 tons. Testing for compaction will be at the rate of 5 tests  
9 per subplot per WSDOT T 738. The compaction test locations will be determined by the  
10 Engineer in accordance with WSDOT Test Method T 716.  
11

12 The subplot locations within each density lot will be determined by the Engineer. For a lot in  
13 progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the  
14 Engineer is satisfied that material conforming to the Specifications can be produced.  
15

16 HMA mixture accepted by commercial evaluation and HMA constructed under conditions  
17 other than those listed above shall be compacted on the basis of a test point evaluation of the  
18 compaction train. The test point evaluation shall be performed in accordance with instructions  
19 from the Engineer. The number of passes with an approved compaction train, required to  
20 attain the maximum test point density, shall be used on all subsequent paving.  
21

22 HMA for preleveling shall be thoroughly compacted. HMA that is used to prelevel wheel ruts  
23 shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.  
24

#### 25 **5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing**

26 The location of the HMA compaction acceptance tests will be randomly selected by the  
27 Engineer from within each subplot, with one test per subplot. The Contracting Agency will  
28 determine the random sample location using WSDOT Test Method T 716.  
29

#### 30 **5-04.3(10)D3 HMA Nonstatistical Compaction – Price Adjustments**

31 For each compaction lot with one or two sublots, having all sublots attain a relative density  
32 that is 92 percent of the reference maximum density the HMA shall be accepted at the unit  
33 Contract price with no further evaluation. When a subplot does not attain a relative density that  
34 is 92 percent of the reference maximum density, the lot shall be evaluated in accordance with  
35 Section 1-06.2 to determine the appropriate CPF. The maximum CPF shall be 1.00, however,  
36 lots with a calculated CPF in excess of 1.00 will be used to offset lots with CPF values below  
37 1.00 but greater than 0.90. Lots with CPF lower than 0.90 will be evaluated for compliance  
38 per 5-04.3(11). Additional testing by either a nuclear moisture-density gauge or cores will be  
39 completed as required to provide a minimum of three tests for evaluation.  
40

41 For compaction below the required 92% a Non-Conforming Compaction Factor (NCCF) will  
42 be determined. The NCCF equals the algebraic difference of CPF minus 1.00 multiplied by  
43 40 percent. The Compaction Price Adjustment will be calculated as the product of CPF, the  
44 quantity of HMA in the compaction control lot in tons, and the unit Contract price per ton of  
45 mix.  
46

#### 47 **5-04.3(11) Reject Work**

#### 48 **5-04.3(11)A Reject Work General** 49

1 Work that is defective or does not conform to Contract requirements shall be rejected. The  
2 Contractor may propose, in writing, alternatives to removal and replacement of rejected material.  
3 Acceptability of such alternative proposals will be determined at the sole discretion of the  
4 Engineer. HMA that has been rejected is subject to the requirements in Section 1-06.2(2) and this  
5 specification, and the Contractor shall submit a corrective action proposal to the Engineer for  
6 approval.

7  
8 **5-04.3(11)B Rejection by Contractor**

9 The Contractor may, prior to sampling, elect to remove any defective material and replace it with  
10 new material. Any such new material will be sampled, tested, and evaluated for acceptance.

11  
12 **5-04.3(11)C Rejection Without Testing (Mixture or Compaction)**

13 The Engineer may, without sampling, reject any batch, load, or section of Roadway that appears  
14 defective. Material rejected before placement shall not be incorporated into the pavement. Any  
15 rejected section of Roadway shall be removed.

16  
17 No payment will be made for the rejected materials or the removal of the materials unless the  
18 Contractor requests that the rejected material be tested. If the Contractor elects to have the  
19 rejected material tested, a minimum of three representative samples will be obtained and tested.  
20 Acceptance of rejected material will be based on conformance with the nonstatistical acceptance  
21 Specification. If the CPF for the rejected material is less than 0.75, no payment will be made for  
22 the rejected material; in addition, the cost of sampling and testing shall be borne by the Contractor.  
23 If the CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne by the  
24 Contracting Agency. If the material is rejected before placement and the CPF is greater than or  
25 equal to 0.75, compensation for the rejected material will be at a CPF of 0.75. If rejection occurs  
26 after placement and the CPF is greater than or equal to 0.75, compensation for the rejected  
27 material will be at the calculated CPF with an addition of 25 percent of the unit Contract price  
28 added for the cost of removal and disposal.

29  
30 **5-04.3(11)D Rejection - A Partial Sublot**

31 In addition to the random acceptance sampling and testing, the Engineer may also isolate from a  
32 normal sublot any material that is suspected of being defective in relative density, gradation or  
33 asphalt binder content. Such isolated material will not include an original sample location. A  
34 minimum of three random samples of the suspect material will be obtained and tested. The  
35 material will then be statistically evaluated as an independent lot in accordance with Section 1-  
36 06.2(2).

37  
38 **5-04.3(11)E Rejection - An Entire Sublot**

39 An entire sublot that is suspected of being defective may be rejected. When a sublot is rejected  
40 a minimum of two additional random samples from this sublot will be obtained. These additional  
41 samples and the original sublot will be evaluated as an independent lot in accordance with Section  
42 1-06.2(2).

43  
44 **5-04.3(11)F Rejection - A Lot in Progress**

45 The Contractor shall shut down operations and shall not resume HMA placement until such time  
46 as the Engineer is satisfied that material conforming to the Specifications can be produced:

- 47  
48 1. When the Composite Pay Factor (CPF) of a lot in progress drops below 1.00 and the  
49 Contractor is taking no corrective action, or

2. When the Pay Factor (PF) for any constituent of a lot in progress drops below 0.95 and the Contractor is taking no corrective action, or
3. When either the PFI for any constituent or the CPF of a lot in progress is less than 0.75.

#### **5-04.3(11)G Rejection - An Entire Lot (Mixture or Compaction)**

An entire lot with a CPF of less than 0.75 will be rejected.

### **5-04.3(12) Joints**

#### **5-04.3(12)A HMA Joints**

##### **5-04.3(12)A1 Transverse Joints**

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

A temporary wedge of HMA constructed on a 20H:1V shall be constructed where a transverse joint as a result of paving or planing is open to traffic. The HMA in the temporary wedge shall be separated from the permanent HMA by strips of heavy wrapping paper or other methods approved by the Engineer. The wrapping paper shall be removed and the joint trimmed to a slightly beveled edge for the full thickness of the course prior to resumption of paving.

The material that is cut away shall be wasted and new mix shall be laid against the cut. Rollers or tamping irons shall be used to seal the joint.

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

The longitudinal joint in any one course shall be offset from the course immediately below by not more than 6 inches nor less than 2 inches. All longitudinal joints constructed in the wearing course shall be located at a lane line or an edge line of the Traveled Way. A notched wedge joint shall be constructed along all longitudinal joints in the wearing surface of new HMA unless otherwise approved by the Engineer. The notched wedge joint shall have a vertical edge of not less than the maximum aggregate size or more than ½ of the compacted lift thickness and then taper down on a slope not steeper than 4H:1V. The sloped portion of the HMA notched wedge joint shall be uniformly compacted.

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

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

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

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



1  
2 Construct the bridge paving joint seal as specified ion the Plans and in accordance with the  
3 detail shown in the Standard Plans. Construct the sawcut in accordance with the detail shown  
4 in the Standard Plan. Construct the sawcut in accordance with Section 5-05.3(8)B and the  
5 manufacturer's application procedure.  
6

#### 7 **5-04.3(12)B2 Paved Panel Joint Seal**

8 Construct the paved panel joint seal in accordance with the requirements specified in Section  
9 5-04.3(12)B1 and the following requirement:  
10

- 11 1. Clean and seal the existing joint between concrete panels in accordance with Section  
12 5-01.3(8) and the details shown in the Standard Plans.  
13

#### 14 **5-04.3(13) Surface Smoothness**

15 The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and  
16 grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary  
17 more than  $\frac{1}{8}$  inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the  
18 centerline. The transverse slope of the completed surface of the wearing course shall vary not more  
19 than  $\frac{1}{4}$  inch in 10 feet from the rate of transverse slope shown in the Plans.  
20

21 When deviations in excess of the above tolerances are found that result from a high place in the HMA,  
22 the pavement surface shall be corrected by one of the following methods:  
23

- 24 1. Removal of material from high places by grinding with an approved grinding machine, or
- 25 2. Removal and replacement of the wearing course of HMA, or
- 26 3. By other method approved by the Engineer.  
27

28 Correction of defects shall be carried out until there are no deviations anywhere greater than the  
29 allowable tolerances.  
30

31 Deviations in excess of the above tolerances that result from a low place in the HMA and deviations  
32 resulting from a high place where corrective action, in the opinion of the Engineer, will not produce  
33 satisfactory results will be accepted with a price adjustment. The Engineer shall deduct from monies  
34 due or that may become due to the Contractor the sum of \$500.00 for each and every section of  
35 single traffic lane 100 feet in length in which any excessive deviations described above are found.  
36

37 When utility appurtenances such as manhole covers and valve boxes are located in the traveled way,  
38 the utility appurtenances shall be adjusted to the finished grade prior to paving. This requirement may  
39 be waived when requested by the Contractor, at the discretion of the Engineer or when the adjustment  
40 details provided in the project plan or specifications call for utility appurtenance adjustments after the  
41 completion of paving.  
42

43 Utility appurtenance adjustment discussions will be included in the Pre-Paving planning (5-  
44 04.3(14)B3). Submit a written request to waive this requirement to the Engineer prior to the start of  
45 paving.  
46

1 **5-04.3(14) Planing (Milling) Bituminous Pavement**

2 The planing plan must be approved by the Engineer and a pre planing meeting must be held prior to  
3 the start of any planing. See Section 5-04.3(14)B2 for information on planing submittals.  
4

5 Locations of existing surfacing to be planed are as shown in the Drawings.  
6

7 For mainline planing operations, use equipment with automatic controls and with sensors for either  
8 or both sides of equipment. The controls shall be capable of sensing the grade from an outside  
9 reference line, or a mat-referencing device. The automatic controls shall have a transverse slope  
10 controller capable of maintaining the mandrel at the desired transverse slope (expressed as a  
11 percentage) within plus or minus 0.1 percent.  
12

13 Where planing an existing pavement is specified in the Contract, the Contractor must remove existing  
14 surfacing material and to reshape the surface to remove irregularities. The finished product must be  
15 a prepared surface acceptable for receiving an HMA overlay.  
16

17 Use the cold milling method for planing unless otherwise specified in the Contract. Do not use the  
18 planer on the final wearing course of new HMA.  
19

20 Conduct planing operations in a manner that does not tear, break, burn, or otherwise damage the  
21 surface which is to remain. The finished planed surface must be slightly grooved or roughened and  
22 must be free from gouges, deep grooves, ridges, or other imperfections. The Contractor must repair  
23 any damage to the surface by the Contractor's planing equipment, using an Engineer approved  
24 method.  
25

26 The Contractor where necessary shall plane or grind, and provide any hand work necessary to work  
27 around utility appurtenances, castings, lids, curbs, gutters, sidewalks, manholes, and catch basins to  
28 provide smooth transition of pavement to the finished thickness and grade as staked in the field or  
29 approved by the Engineer.  
30

31 Repair or replace any metal castings and other surface improvements damaged by planing, as  
32 determined by the Engineer.  
33

34 A tapered wedge cut must be planed longitudinally along curb lines sufficient to provide a minimum  
35 of 4 inches of curb reveal after placement and compaction of the final wearing course. The dimensions  
36 of the wedge must be as shown on the Drawings or as specified by the Engineer.  
37

38 A tapered wedge cut must also be made at transitions to adjoining pavement surfaces (meet lines)  
39 where butt joints are shown on the Drawings. Cut butt joints in a straight line with vertical faces 2  
40 inches or more in height, producing a smooth transition to the existing adjoining pavement.  
41

42 After planing is complete, planed surfaces must be swept, cleaned, and if required by the Contract,  
43 patched and preleveled.  
44

45 The Engineer may direct additional depth planing. Before performing this additional depth planing,  
46 the Contractor must conduct a hidden metal in pavement detection survey as specified in Section 5-  
47 04.3(14)A.

1  
2 **5-04.3(14)A Pre-Planing Metal Detection Check**

3 Before starting planing of pavements, and before any additional depth planing required by the  
4 Engineer, the Contractor must conduct a physical survey of existing pavement to be planed with  
5 equipment that can identify hidden metal objects.  
6

7 Should such metal be identified, promptly notify the Engineer.  
8

9 See Section 1-07.16(1) regarding the protection of survey monumentation that may be hidden in  
10 pavement.  
11

12 The Contractor is solely responsible for any damage to equipment resulting from the Contractor's  
13 failure to conduct a pre-planing metal detection survey, or from the Contractor's failure to notify  
14 the Engineer of any hidden metal that is detected.  
15

16 **5-04.3(14)B Paving and Planing Under Traffic**  
17

18 **5-04.3(14)B1 General**

19 In addition the requirements of Section 1-07.23 and the traffic controls required in Section 1-  
20 10, and unless the Contract specifies otherwise or the Engineer approves, the Contractor  
21 must comply with the following:  
22

23 1. Intersections:

- 24 a. Keep intersections open to traffic at all times, except when paving or planing  
25 operations through an intersection requires closure. Such closure must be kept to  
26 the minimum time required to place and compact the HMA mixture, or plane as  
27 appropriate. For paving, schedule such closure to individual lanes or portions  
28 thereof that allows the traffic volumes and schedule of traffic volumes required in  
29 the approved traffic control plan. Schedule work so that adjacent intersections are  
30 not impacted at the same time and comply with the traffic control restrictions  
31 required by the Traffic Engineer. Each individual intersection closure or partial  
32 closure, must be addressed in the traffic control plan, which must be submitted to  
33 and accepted by the Engineer, see Section 1-10.2(2).  
34 b. When planing or paving and related construction must occur in an intersection,  
35 consider scheduling and sequencing such work into quarters of the intersection, or  
36 half or more of an intersection with side street detours. Be prepared to sequence  
37 the work to individual lanes or portions thereof.  
38 c. Should closure of the intersection in its entirety be necessary, and no trolley  
39 service is impacted, keep such closure to the minimum time required to place and  
40 compact the HMA mixture, plane, remove asphalt, tack coat, and as needed.  
41 d. Any work in an intersection requires advance warning in both signage and a  
42 number of Working Days advance notice as determined by the Engineer, to alert  
43 traffic and emergency services of the intersection closure or partial closure.  
44 e. Allow new compacted HMA asphalt to cool to ambient temperature before any  
45 traffic is allowed on it. Traffic is not allowed on newly placed asphalt until approval  
46 has been obtained from the Engineer.

47 2. Temporary centerline marking, post-paving temporary marking, temporary stop bars,  
48 and maintaining temporary pavement marking must comply with Section 8-23.

49 3. Permanent pavement marking must comply with Section 8-22.

1  
2 **5-04.3(14)B2 Submittals – Planing Plan and HMA Paving Plan**

3 The Contractor must submit a separate planing plan and a separate paving plan to the  
4 Engineer at least 5 Working Days in advance of each operation's activity start date. These  
5 plans must show how the moving operation and traffic control are coordinated, as they will be  
6 discussed at the pre-planing briefing and pre-paving briefing. When requested by the  
7 Engineer, the Contractor must provide each operation's traffic control plan on 24 x 36 inch or  
8 larger size Shop Drawings with a scale showing both the area of operation and sufficient detail  
9 of traffic beyond the area of operation where detour traffic may be required. The scale on the  
10 Shop Drawings is 1 inch = 20 feet, which may be changed if the Engineer agrees sufficient  
11 detail is shown.

12  
13 The planing operation and the paving operation include, but are not limited to, metal detection,  
14 removal of asphalt and temporary asphalt of any kind, tack coat and drying, staging of supply  
15 trucks, paving trains, rolling, scheduling, and as may be discussed at the briefing.

16  
17 When intersections will be partially or totally blocked, provide adequately sized and noticeable  
18 signage alerting traffic of closures to come, a minimum 2 Working Days in advance. The traffic  
19 control plan must show where police officers will be stationed when signalization is or may be,  
20 countermanded, and show areas where flaggers are proposed.

21  
22 At a minimum, the planing and the paving plan must include:

- 23  
24 1. A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing each day's  
25 traffic control as it relates to the specific requirements of that day's planing and paving.  
26 Briefly describe the sequencing of traffic control consistent with the proposed planing  
27 and paving sequence, and scheduling of placement of temporary pavement markings  
28 and channelizing devices after each day's planing, and paving.
- 29 2. A copy of each intersection's traffic control plan.
- 30 3. Haul routes from Supplier facilities, and locations of temporary parking and staging  
31 areas, including return routes. Describe the complete round trip as it relates to the  
32 sequencing of paving operations.
- 33 4. Names and locations of HMA Supplier facilities to be used.
- 34 5. List of all equipment to be used for paving.
- 35 6. List of personnel and associated job classification assigned to each piece of paving  
36 equipment.
- 37 7. Description (geometric or narrative) of the scheduled sequence of planing and of  
38 paving, and intended area of planing and of paving for each day's work, must include  
39 the directions of proposed planing and of proposed paving, sequence of adjacent lane  
40 paving, sequence of skipped lane paving, intersection planing and paving scheduling  
41 and sequencing, and proposed notifications and coordinations to be timely made. The  
42 plan must show HMA joints relative to the final pavement marking lane lines.
- 43 8. Names, job titles, and contact information for field, office, and plant supervisory  
44 personnel.
- 45 9. A copy of the approved Mix Designs.
- 46 10. Tonnage of HMA to be placed each day.
- 47 11. Approximate times and days for starting and ending daily operations.
- 48

1 **5-04.3(14)B3 Pre-Paving and Pre-Planing Briefing**

2 At least 2 Working Days before the first paving operation and the first planing operation, or as  
3 scheduled by the Engineer for future paving and planing operations to ensure the Contractor  
4 has adequately prepared for notifying and coordinating as required in the Contract, the  
5 Contractor must be prepared to discuss that day's operations as they relate to other entities  
6 and to public safety and convenience, including driveway and business access, garbage truck  
7 operations, Metro transit operations and working around energized overhead wires, school  
8 and nursing home and hospital and other accesses, other contractors who may be operating  
9 in the area, pedestrian and bicycle traffic, and emergency services. The Contractor, and  
10 Subcontractors that may be part of that day's operations, must meet with the Engineer and  
11 discuss the proposed operation as it relates to the submitted planing plan and paving plan,  
12 approved traffic control plan, and public convenience and safety. Such discussion includes,  
13 but is not limited to:  
14

- 15 1. General for both Paving Plan and for Planing Plan:
- 16 a. The actual times of starting and ending daily operations.
  - 17 b. In intersections, how to break up the intersection, and address traffic control and  
18 signalization for that operation, including use of peace officers.
  - 19 c. The sequencing and scheduling of paving operations and of planing operations,  
20 as applicable, as it relates to traffic control, to public convenience and safety, and  
21 to other contractors who may operate in the Project Site.
  - 22 d. Notifications required of Contractor activities, and coordinating with other entities  
23 and the public as necessary.
  - 24 e. Description of the sequencing of installation and types of temporary pavement  
25 markings as it relates to planning and to paving.
  - 26 f. Description of the sequencing of installation of, and the removal of, temporary  
27 pavement patch material around exposed castings and as may be needed
  - 28 g. Description of procedures and equipment to identify hidden metal in the pavement,  
29 such as survey monumentation, monitoring wells, street car rail, and castings,  
30 before planning, see Section 5-04.3(14)B2.
  - 31 h. Description of how flaggers will be coordinated with the planing, paving, and  
32 related operations.
  - 33 i. Description of sequencing of traffic controls for the process of rigid pavement base  
34 repairs.
  - 35 j. Other items the Engineer deems necessary to address.
- 36 2. Paving – additional topics:
- 37 a. When to start applying tack and coordinating with paving.
  - 38 b. Types of equipment and numbers of each type equipment to be used. If more  
39 pieces of equipment than personnel are proposed, describe the sequencing of the  
40 personnel operating the types of equipment. Discuss the continuance of operator  
41 personnel for each type equipment as it relates to meeting Specification  
42 requirements.
  - 43 c. Number of JMFs to be placed, and if more than one JMF how the Contractor will  
44 ensure different JMFs are distinguished, how pavers and MTVs are distinguished  
45 if more than one JMF is being placed at the time, and how pavers and MTVs are  
46 cleaned so that one JMF does not adversely influence the other JMF.
  - 47 d. Description of contingency plans for that day's operations such as equipment  
48 breakdown, rain out, and Supplier shutdown of operations.

- e. Number of sublots to be placed, sequencing of density testing, and other sampling and testing.

**5-04.3(15) Sealing Pavement Surfaces**

Apply a fog seal where shown in the plans. Construct the fog seal in accordance with Section 5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior to opening to traffic.

**5-04.3(16) HMA Road Approaches**

HMA approaches shall be constructed at the locations shown in the Plans or where staked by the Engineer. The Work shall be performed in accordance with Section 5-04.

**5-04.4 Measurement**

“HMA CL. 1/2 In. PG 58H-22 Fiber Reinforced” per Ton.

**5-04.5 Payment**

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

“HMA Cl. 1/2 In. PG 58H-22 Fiber Reinforced” per Ton.

The unit contract price per ton for “HMA CL. 1/2 In. PG 58H-22 Fiber Reinforced” shall be full compensation for all costs, including paving reinforcing fiber, anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for those costs included in other items which are included in this Subsection and which are included in the Proposal.

**5-04.5(1) Quality Assurance Price Adjustment**

In the event that test results indicate the HMA does not meet specifications, a change order will be issued for the price adjustments for Quality of HMA Mixture and Quality of HMA Compaction based upon these specifications.

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

The maximum CPF of a compaction lot is 1.00.

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

The CPF shall be as follows:

<u>Compaction</u>	<u>CPF</u>
91.0% to 91.9%	95%
90.0% to 90.9%	90%
89.0% to 89.9%	80%
88.0% to 88.9%	75%
At or below 87.9%	Mix is removed

1 **DIVISION 7**  
2 **DRAINAGE STRUCTURES, STORM SEWERS, SANITARY SEWERS, WATER MAINS, AND**  
3 **CONDUITS**  
4

5 **7-02 CULVERT PIPE**

6 **7-02.5 Payment**

7 Section 7-02.5 is supplemented with the following:

8  
9 (\*\*\*\*\*)

10 "Cl. IV. Reinf. Conc. Culv. Pipe 18 In. Diam." per lineal foot.

11 The unit contract price per foot for "Cl. IV. Reinf. Conc. Culv. Pipe 18 In. Diam." shall include all  
12 costs for labor, equipment and material for controlled density (CDF) backfill for pipe zone backfill  
13 up to subgrade.  
14

15 **DIVISION 8**  
16 **MISCELLANEOUS CONSTRUCTION**

17 **8-02 ROADSIDE RESTORATION**

18 **8-02.1 Description**

19 Section 8-02.1 is supplemented with the following:

20  
21 (\*\*\*\*\*)

22 The work described in this section, regardless of the nature or type of the materials encountered,  
23 includes supplying plant material, planting, installing plant protectors, installing bark mulch  
24 areas/rings (at tree and shrub locations) and installing monitoring stakes as shown in the Contract  
25 Plans, marked in the field, and as directed by the Engineer. This work shall be accomplished in  
26 accordance with all environmental permits regulating the work.  
27

28 **8-02.3 Construction Requirements**

29 Section 8-02.1 is supplemented with the following:

30  
31 **8-02.3(6) Mulch and Amendments**

32 Section 8-02.3(6) is supplemented with the following:

33  
34 (\*\*\*\*\*)

35 Long-Term Wood Cellulose Fiber mulch shall be applied at a rate of 4,000 pounds per acre with all  
36 permanent seed mixes and shall conform to Section 9-14.5(2)A Long-Term Mulch of the Standard  
37 Specifications. No more than 2,000 pounds shall be applied in any single lift.  
38

39 Tackifiers with mulch tracer shall be applied per the manufacturer's recommendation. PAM shall be  
40 added to seed mixes at the time of hydraulic application. Application rates and methods shall  
41 conform to Section 8-01.3(2)E of the Standard Specifications.  
42

43 **No fertilizer shall be used at this project site.**  
44

45 **8-02.3(8)B Plant Installation**

46 Section 8-02.3(8)B is supplemented with the following:  
47

(\*\*\*\*\*)

**PLANTING MITIGATION CONSTRUCTION**

The Contractor shall grade, plant, and otherwise construct mitigated planting areas as shown in the Contract Plans, marked in the field, and required by the Engineer. The planting of the enhancement sites shall be performed by a biologist, horticulturist, landscape architect or other similar professional. The credentials of the supervisor of this work shall be approved by the Engineer prior to beginning work on this item.

**Planting Zones**

Planting zone shall be as depicted in the Contract Plans Sheet 12 of 12.

**8-02.3(9)C Seeding with Fertilizers and Mulches**

Section 8-02.3(9)C is supplemented with the following:

(\*\*\*\*\*)

Seed Mix - Roadside: Grass seed, of the following composition, proportion, and quality shall be applied at the rate of \*\*\*80 \*\*\* pounds of pure live seed per acre on all areas requiring permanent roadside seeding within the project limits.

Kind and Variety of Seed in Mixture by Common Name and <u>(Botanical name)</u>	Pounds Pure Live Seed (PLS) Per Acre
<i>Elymus glaucus</i> Blue Wildrye	34.43
<i>Hordeum brachyantherum</i> Meadow Barley	29.71
<i>Lolium multiflorum</i> Sterile Annual Ryegrass	8.73
<i>Festuca idahonesis</i> Idaho Fescue	5.61
<i>Festuca ovina</i> Sheep Fescue	0.93
<i>Deschampsia elongata</i> Slender Hairgrass	0.32
<i>Koeler macratha</i> Prairie Junegrass	0.27

After seeding the Contractor shall be responsible to ensure a healthy stand of grass, otherwise, the Contractor shall, restore eroded areas, clean up materials, and reapply the seed, at no cost to the Contracting Agency.

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

**8-02.3(13) Plant Establishment**

Section 8-02.3(13) is replaced with the following:



1  
2 (\*\*\*\*\*)

3 The Contractor shall provide a one-year plant guarantee period from the date of final acceptance, in  
4 accordance with performance standards of local, state and federal permits. At the end of the one-  
5 year guarantee period, all dead and unacceptable plant materials shall be replaced by the Contractor  
6 at the Contractor's expense. The Contractor shall provide maintenance and monitoring efforts during  
7 the guarantee period.

8  
9 All shrubs and trees in the Planting Mitigation area shall be marked with an independent monitoring  
10 stake and include a 3-foot diameter bark mulch ring 3 inches in depth. Bark mulch shall be pulled  
11 back 3 inches from the plant base. Wood monitoring stakes shall be installed to a depth of 18 inches.  
12 Wood monitoring stakes shall be 2-inch square wood stakes four to five feet above grade (buried 8-  
13 inches). The top six inches of the monitoring stakes shall be painted and color coded to species, to  
14 aid in identification of dead and/or missing species.

15  
16 Plant protectors shall be placed around all tree and shrub species to be planted. Plant protectors  
17 shall be made of solid flexible plastic and should be held in place with a minimum of one (1) bamboo  
18 or wood stake per plant protector used. Plant protectors shall be installed a minimum of one (1) inch  
19 below the soil surface and one (1) to two (2) inches of soil packed around the base, leaving no gaps  
20 between the base of the plant protector and the soil surface. Plant protectors shall be installed so  
21 as to not constrict the branches, stems, and leaves of the plant. Multiple plant protectors may be  
22 joined together in order to ensure plants will not become girdled by plant protectors.. Bamboo or  
23 wood stakes should extend a minimum two (2) inches below and minimum two (2) inches above the  
24 plant protector. Plant protectors shall be secured to bamboo or wood stakes with a minimum of two  
25 (2) zip ties per stake or equivalent.

#### 26 27 **8-02.4 Measurement**

28 Section 8-02.4 is supplemented with the following:

29  
30 (\*\*\*\*\*)

31 "Planting Mitigation Construction", no specific unit of measure will apply to this lump sum item. Items  
32 specified are approximate and are provided for estimating purposes only. The successful Contractor  
33 shall provide the Contracting Agency a lump sum breakdown of all items after bid award.

#### 34 35 **8-02.5 Payment**

36 Section 8-02.5 is supplemented with the following:

37  
38 (\*\*\*\*\*)

39 "Planting Mitigation Construction" per lump sum.

40 The unit contract price per Lump Sum for "Planting Mitigation Construction" shall be full  
41 compensation for furnishing and installing all plants, monitoring stakes, Bark Mulch, and plant  
42 protectors - as described in Special Provision. Material descriptions and construction requirements  
43 are as described in this Special Provision and the Contract Plans. The long term monitoring and  
44 maintenance (after the one-year plant guarantee period) shall be completed by others.

45  
46 All "Bark Mulch" required for this project shall be incidental to and included as part of the "Planting  
47 Mitigation Construction" lump sum bid item.

48  
49 "Seeding and Mulching," per acre.

50 The unit contract price per acre for "Seeding and Mulching" shall be full pay for furnishing and  
51 installing the specified seed mix, long-term mulch, and PAM, chemical weed and grass  
52 control/removal immediately prior to seeding to produce the specified surface conditions,

scarification of compacted areas, minor filling of ruts, and all material and equipment necessary and incidental to the approved application of the specified seed.

## 8-21, PERMANENT SIGNING

### 8-21.3(4) Sign Removal

Section 8-21.3(4) is supplemented with the following:

(\*\*\*\*\*)

During the life of the contract, the Contractor shall be responsible for all existing signs damaged or removed by construction operations.

County Road name signs and Private Road name signs shall be temporarily relocated to portable sign stands for convenience of construction subject to the approval of the Engineer. The signs shall be located at or as near as practical to their original locations and shall have a minimum vertical clearance above the pavement in accordance with the Manual on Uniform Traffic Control Devices. Upon completion of construction in the area immediately surrounding the permanent sign location, the Contractor shall reinstall the sign and supports in their permanent locations.

Signs damaged or removed shall be replaced by the Contractor at no cost to the County.

All costs involved in removing, maintaining and resetting existing signing as specified shall be considered incidental to the project and included in the various bid items therein. No additional compensation will be allowed.

## DIVISION 9 MATERIALS

### POWER EQUIPMENT

(\*\*\*\*\*)

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

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

### E-VERIFY

(\*\*\*\*\*)

"Effective June 21<sup>st</sup>, 2010, all contracts with a value of  $\geq$  \$100,000 shall require that the awarded contractor register with the Department of Homeland Security E-Verify program. Contractors shall have sixty days after the execution of the contract to register and enter into a Memorandum of Understanding (MOU) with the Department of Homeland Security (DHS) E-Verify program. After completing the MOU the contractor shall have an additional sixty days to provide a written record on the authorized employment status of their employees and those of any sub-contractor(s) currently assigned to the contract. Employees hired during the execution of the contract and after submission of the initial verification will be verified to the county within 30 days of hire, as reported from the E-Verify program.

1 The contractor will continue to update the County on all corrective actions required and changes made  
2 during the performance of the contract.”

### 3 **BOND**

4 (\*\*\*\*\*)

5 The Bidder's special attention is directed to the attached bond form, which the successful bidder will be  
6 required to execute and furnish the County. **NO OTHER BOND FORMS WILL BE ACCEPTED.** The  
7 bond shall be for the full amount of the contract.  
8

### 9 **LEWIS COUNTY ESTIMATES AND PAYMENT POLICY**

10 (\*\*\*\*\*)

11  
12 On or before the 10th day of each calendar month during the term of this contract, the Contracting  
13 Agency shall prepare monthly Progress Payments for work completed and material furnished. If the  
14 Contractor agrees, the Contractor will approve the Progress Payment and return the estimate to the  
15 Contracting Agency by the 20th day of that same calendar month. The Contracting Agency shall  
16 prepare a voucher based upon the approved Progress Payment and payment based thereon shall be  
17 due the Contractor near the 10th day of the next calendar month. Material Supply contracts involving  
18 delivery of prefabricated material or stockpile material only (no physical work on Contracting Agency  
19 property) may be reimbursed via Contractor generated invoices upon written approval by the  
20 Engineer. Reimbursement by invoice shall not be subject to late charges listed on the Contractor's  
21 standard invoice form.  
22

23 The Contracting Agency in conformance with R.C.W. 60.28.010 shall retain from such moneys earned  
24 by the Contractor a sum equal to five percent (5%) of the amount so estimated as a trust fund for the  
25 protection and payment of any person or persons, mechanics, subcontractors, or materialmen who shall  
26 perform any labor upon such contract or the doing of said work, and all persons who shall supply such  
27 person or persons or subcontractors with provisions and supplies for the carrying on of such work, and  
28 the State with respect to taxes imposed pursuant to Title 82 R.C.W. which may be due from such  
29 contractor. Said funds shall be retained and disbursed in accordance with provisions of Chapter 60.28  
30 R.C.W.  
31

32 When the Contractor reports the work is completed he/she shall then notify the Contracting  
33 Agency. The Contracting Agency shall inspect the work and report any deficiencies to the  
34 Contractor. When the Contracting Agency is satisfied the work has been completed in accordance with  
35 all plans and specifications, the Contracting Agency shall then accept the work.  
36

37 Upon completion of all work described in this Contract, the Contracting Agency shall prepare a Final  
38 Progress Payment and Final Contract Voucher for approval by the Contractor and processing for final  
39 payment. Release of the Contract Bond will be 60 days following Contracting Agency Final Acceptance  
40 of Contract, provided the conditions of Section 1-03.4 and Section 1-07.2 of these Special Provisions  
41 have been satisfied.  
42

### 43 **APPENDICES**

44 (July 12, 1999)

45  
46 The following appendices are attached and made a part of this contract:  
47

48 \*\*\*\*\* APPENDIX A:

Little Hanaford Rd. MP 4.1 Slide Repair Project  
County Project No. 90-22F171510410

1  
2  
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Geotechnical Report and Boring Logs

APPENDIX B:  
Washington State Prevailing Wage Rates  
Wage Rates Supplements  
Wage Rates Benefit Codes

APPENDIX C:  
Federal Contract Provisions

APPENDIX D:  
Bid Proposal Documents

APPENDIX E:  
Contract Documents

APPENDIX F:  
Contract Plans  
Traffic Control Plan \*\*\*\*\*

1 (January 9, 2023)

2 **Standard Plans**

3 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01, effective  
4 September 30, 2022, is made a part of this contract.

5  
6 The Standard Plans are revised as follows:

7  
8 A-10.30

9 RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table): The RISER  
10 RING detail is deleted from the plan.

11  
12 INSTALLATION detail, SECTION A: The "1/4" callout is revised to read "+/- 1/4" (SEE CONTRACT  
13 ~ Note: The + 1/4" installation is shown in the Section A view)"

14  
15 B-90.40

16 Valve Detail – DELETED

17  
18 C-8

19 DELETED

20  
21 C-8A

22 DELETED

23  
24 C-20.42

25 Plan View (Case 22A-31), callout, was; "BEAM GUARDRAIL ANCHOR TYPE 10 PAY LIMIT" is  
26 revised to read; "BEAM GUARDRAIL ANCHOR TYPE 11 PAY LIMIT"

27  
28 C-23.60

29 DELETED

30  
31 C-23.70

32 Sheet 1, Detail A, callout, was – "EIGHT 5/8" x 1/2" (IN) BOLTS W/ HEX NUTS AND WASHERS  
33 (SEE NOTE 5)" is revised to read: "EIGHT 5/8" x 1-1/2" (IN) BOLTS W/ HEX NUTS AND WASHERS  
34 (SEE NOTE 5)".

35 Sheet 2, ANCHOR RAIL ELEMENT DETAIL and associated Enlarged Detail, 3/4" Diameter hole  
36 pattern (8 holes), callout, "3/4" DIAMETER HOLE (TYP.)" is revised to read: "29/32" x 1 1/8" (IN)  
37 SLOT (TYP.)"

38  
39 D-2.04

40 DELETED

41  
42 D-2.06

43 DELETED

44  
45 D-2.08

46 DELETED

47  
48 D-2.32

49 DELETED

50  
51 D-2.34

52 DELETED

1 D-2.60  
2 DELETED

3  
4 D-2.62  
5 DELETED

6  
7 D-2.64  
8 DELETED

9  
10 D-2.66  
11 DELETED

12  
13 D-2.68  
14 DELETED

15  
16 D-2.80  
17 DELETED

18  
19 D-2.88  
20 DELETED

21  
22 D-3.15  
23 DELETED

24  
25 D-3.16  
26 DELETED

27  
28 D-3.17  
29 DELETED

30  
31 D-3.10  
32 Sheet 1, Typical Section, callout – “FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER. USE  
33 THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.15” is revised to read; “FOR  
34 WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE CONTRACT PLANS”

35 Sheet 1, Typical Section, callout – “FOR WALLS WITH F-SHAPE TRAFFIC BARRIER. USE THE  
36 DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16” is revised to read; “FOR  
37 WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS”

38  
39 D-3.11  
40 Sheet 1, Typical Section, callout – “B” BRIDGE APPROACH SLAB (SEE BRIDGE PLANS) OR  
41 PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS D-3.15 OR D-3.16”  
42 is revised to read; “B” BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)  
43 Sheet 1, Typical Section, callout – “TYPICAL BARRIER ON BRIDGE APPROACH SLAB (SEE  
44 BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD PLANS  
45 D-3.15 OR D-3.16” is revised to read; “TYPICAL BARRIER ON BRIDGE APPROACH SLAB OR  
46 MOMENT SLAB (SEE CONTRACT PLANS)

47  
48 D-10.10  
49 Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers  
50 attached on top of the wall are considered non-standard and shall be designed in accordance with  
51 the current WSDOT Bridge Design Manual (BDM) and the revisions stated in the 11/3/15 Bridge  
52 Design memorandum.

1 D-10.15

2 Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers  
3 attached on top of the wall are considered non-standard and shall be designed in accordance with  
4 the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

5  
6 D-10.30

7 Wall Type 5 may be used in all cases.

8  
9 D-10.35

10 Wall Type 6 may be used in all cases.

11  
12 D-10.40

13 Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers  
14 attached on top of the wall are considered non-standard and shall be designed in accordance with  
15 the current WSDOT BDM and the revisions stated in the 11/3/15 Bridge Design memorandum.

16  
17 D-10.45

18 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic barriers  
19 attached on top of the wall are considered non-standard and shall be designed in accordance with  
20 the current WSDOT BDM and the revisions stated in the revisions stated in the 11/3/15 Bridge  
21 Design memorandum.

22  
23 D-15.10

24 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are  
25 withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of  
26 these STD Plans.

27  
28 D-15.20

29 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are  
30 withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of  
31 these STD Plans.

32  
33 D-15.30

34 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are  
35 withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of  
36 these STD Plans.

37  
38 F-10.18

39 Note 2, "Region Traffic engineer approval is needed to install a truck apron lower than 3". -  
40 DELETED

41  
42 J-10.10

43 Sheet 4 of 6, "Foundation Size Reference Table", PAD WIDTH column, Type 33xD=6' - 3" is revised  
44 to read: 7' - 3". Type 342LX / NEMA P44=5' - 10" is revised to read: 6' - 10"

45 Sheet 5 of 6, Plan View, "FOR EXAMPLE PAD SHOWN HERE:, "first bullet" item, "-SPACE  
46 BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6" (IN)" IS REVISED TO READ: "SPACE  
47 BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL STEEL) AND 33x CABINET IS 6"  
48 (IN) (CHANNEL STEEL ADDS ABOUT 5" (IN))"

49  
50 J-10.16

51 Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

52  
53 J-10.17

1 Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

2  
3 J-10.18

4 Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

5  
6 J-20.10

7 Elevation View, horizontal dimension to edge of sidewalk 10" (IN) OR LESS DESIRABLE ~ 18" (IN)  
8 MAXIMUM is revised to read: "10" (IN) MAXIMUM"

9  
10 J-20.26

11 Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton post."

12  
13 J-20.16

14 View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

15  
16 J-21.10

17 Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – "ANCHOR BOLTS ~ □" (IN)  
18 x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO READ: "ANCHOR  
19 BOLTS ~ □" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY"

20 Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top of the  
21 foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR.. Delete "(TYP.)" from the 2 □" CLR.  
22 dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

23 Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top of the  
24 foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 □" CLR.  
25 dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

26 Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top of the  
27 foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 □" CLR.  
28 dimension, depicting the distance from the bottom of the foundation to find 2 # 4 reinf. Bar.

29 Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top of the  
30 foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from the 2 □" CLR.  
31 dimension, depicting the distance from the bottom of the foundation to find 1 # 4 reinf. Bar.

32 Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping Bolts (see  
33 Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping  
34 Bolts (see Note 1)"

35 Detail F, callout, "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is revised to  
36 read; "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"

37  
38 J-21.15

39 Partial View, callout, was – LOCK NIPPLE ~ 1 □" DIAM., is revised to read; CHASE NIPPLE ~ 1 □"  
40 (IN) DIAM.

41  
42 J-21.16

43 Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE

44  
45 J-22.15

46 Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0"

47 (2x) Detail A, callout, was – LOCK NIPPLE ~ 1 □" DIAM. is revised to read; CHASE NIPPLE ~ 1 □"  
48 (IN) DIAM.

49  
50 J-40.10

51 Sheet 2 of 2, Detail F, callout, "12 – 13 x 1 □" S.S. PENTA HEAD BOLT AND 12" S. S. FLAT  
52 WASHER" is revised to read; "12 – 13 x 1 □" S.S. PENTA HEAD BOLT AND 1/2" (IN) S. S. FLAT  
53 WASHER"



1  
2 J-40.36

3 Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read;  
4 "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.  
5

6 J-40.37

7 Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is revised to read;  
8 "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and Pickled) for the cover.  
9

10 J-75.20

11 Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel Bands", add the  
12 following to the end of the note: "Alternate: Stainless steel cable with stainless steel ends, nuts, bolts,  
13 and washers may be used in place of stainless steel bands and associated hardware."  
14

15 J-75.41

16 DELETED  
17

18 J-75.55

19 Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20.  
20

21 K-80.20

22 DELETED  
23

24 L-5.10

25 Sheet 2, Typical Elevation, callout - "2' – 0" MIN. LAP SPLICE BETWEEN (mark) A #3 BAR AND  
26 WALL REINFORCEMENT ~ TYPICAL" is revised to read: "2' – 0" MIN. LAP SPLICE BETWEEN  
27 (MARK) A #4 BAR AND WALL REINFORCEMENT ~ TYPICAL"

28 Section C, callout; "(mark) A #3" is revised to read: "(mark) A #4", callout - "(mark) B #3" is revised  
29 to read: "(mark) B #4", callout - "(mark) C #3 TIE" is revised to read: "(mark) C #4 TIE"

30 Reinforcing Steel Bending Diagram, (mark) B detail, callout – "128 deg." is revised to read: "123  
31 deg.", callout – "51 deg." is revised to read: "57 deg."  
32

33 The following are the Standard Plan numbers applicable at the time this project was advertised. The  
34 date shown with each plan number is the publication approval date shown in the lower right-hand  
35 corner of that plan. Standard Plans showing different dates shall not be used in this contract.  
36

A-10.10-00.....8/7/07	A-30.35-00.....10/12/07	A-50.10-01.....8/17/21
A-10.20-00.....10/5/07	A-40.00-01.....7/6/22	A-50.40-01.....8/17/21
A-10.30-00.....10/5/07	A-40.10-04.....7/31/19	A-60.10-03.....12/23/14
A-20.10-00.....8/31/07	A-40.15-00.....8/11/09	A-60.20-03.....12/23/14
A-30.10-00.....11/8/07	A-40.20-04.....1/18/17	A-60.30-01.....6/28/18
A-30.30-01.....6/16/11	A-40.50-02.....12/23/14	A-60.40-00.....8/31/07

B-5.20-03.....9/9/20	B-30.50-03.....2/27/18	B-75.20-03.....8/17/21
B-5.40-02.....1/26/17	B-30.60-00.....9/9/20	B-75.50-02.....3/15/22
B-5.60-02.....1/26/17	B-30.70-04.....2/27/18	B-75.60-00.....6/8/06
B-10.20-02.....3/2/18	B-30.80-01.....2/27/18	B-80.20-00.....6/8/06
B-10.40-02.....8/17/21	B-30.90-02.....1/26/17	B-80.40-00.....6/1/06
B-10.70-02.....8/17/21	B-35.20-00.....6/8/06	B-85.10-01.....6/10/08
B-15.20-01.....2/7/12	B-35.40-00.....6/8/06	B-85.20-00.....6/1/06
B-15.40-01.....2/7/12	B-40.20-00.....6/1/06	B-85.30-00.....6/1/06
B-15.60-02.....1/26/17	B-40.40-02.....1/26/17	B-85.40-00.....6/8/06
B-20.20-02.....3/16/12	B-45.20-01.....7/11/17	B-85.50-01.....6/10/08

B-20.40-04.....2/27/18	B-45.40-01.....7/21/17	B-90.10-00.....6/8/06
B-20.60-03.....3/15/12	B-50.20-00.....6/1/06	B-90.20-00.....6/8/06
B-25.20-02.....2/27/18	B-55.20-03.....8/17/21	B-90.30-00.....6/8/06
B-25.60-02.....2/27/18	B-60.20-02.....9/9/20	B-90.40-01.....1/26/17
B-30.05-00.....9/9/20	B-60.40-01.....2/27/18	B-90.50-00.....6/8/06
B-30.10-03.....2/27/18	B-65.20-01.....4/26/12	B-95.20-02.....8/17/21
B-30.15-00.....2/27/18	B-65.40-00.....6/1/06	B-95.40-01.....6/28/18
B-30.20-04.....2/27/18	B-70.20-01.....3/15/22	
B-30.30-03.....2/27/18	B-70.60-01.....1/26/17	
B-30.40-03.....2/27/18		

1

C-1.....9/8/22	C-22.40-09.....9/8/22	C-60.70-01.....9/8/22
C-1b.....9/8/22	C-22.45-06.....9/8/22	C-60.80-01.....9/8/22
C-1d.....10/31/03	C-23.70-00.....8/22/22	C-70.15-00.....8/17/21
C-2c.....8/12/19	C-24.10-03.....7/24/22	C-70.10-03.....8/20/21
C-4f.....8/12/19	C-24.15-00.....3/15/22	C-75.10-02.....9/16/20
C-6a.....9/8/22	C-25.20-07.....8/20/21	C-75.20-03.....8/20/21
C-7.....9/8/22	C-25.22-06.....8/20/21	C-75.30-03.....8/20/21
C-7a.....9/8/22	C-25.26-05.....8/20/21	C-80.10-02.....9/16/20
C-20.10-08.....9/8/22	C-25.30-01.....8/20/21	C-80.20-01.....6/11/14
C-20.14-05.....9/8/22	C-25.80-05.....8/12/19	C-80.30-02.....8/20/21
C-20.15-02.....6/11/14	C-60.10-02.....9/8/22	C-80.40-01.....6/11/14
C-20.18-04.....9/8/22	C-60.15-00.....8/17/21	C-85.10-00.....4/8/12
C-20.40-09.....9/8/22	C-60.20-01.....9/8/22	C-85.11-01.....9/16/20
C-20.41-04.....8/22/22	C-60.30-01.....8/17/21	C-85.15-02.....8/27/21
C-20.42-05.....7/14/15	C-60.40-00.....8/17/21	C-85-18-03.....9/8/22
C-20.43-00.....8/22/22	C-60.45-00.....8/17/21	
C-20.45.03.....9/8/22	C-60.50-00.....8/17/21	
C-22.16-07.....9/16/20	C-60.60-00.....8/17/21	

2

D-2.36-03.....6/11/14	D-4.....12/11/98	D-10.35-00.....7/8/08
D-2.46-02.....8/13/21	D-6.....6/19/98	D-10.40-01.....12/2/08
D-2.84-00.....11/10/05	D-10.10-01.....12/2/08	D-10.45-01.....12/2/08
D-2.92-01.....4/26/22	D-10.15-01.....12/2/08	
D-3.09-00.....5/17/12	D-10.20-01.....8/7/19	
D-3.10-01.....5/29/13	D-10.25-01.....8/7/19	
D-3.11-03.....6/11/14	D-10.30-00.....7/8/08	

3

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

4

F-10.12-04.....9/24/20	F-10.62-02.....4/22/14	F-40.15-04.....9/25/20
F-10.16-00.....12/20/06	F-10.64-03.....4/22/14	F-40.16-03.....6/29/16
F-10.18-03.....3/28/22	F-30.10-04.....9/25/20	F-45.10-03.....8/13/21
F-10.40-04.....9/24/20	F-40.12-03.....6/29/16	F-80.10-04.....7/15/16
F-10.42-00.....1/23/07	F-40.14-03.....6/29/16	

5

G-10.10-00.....9/20/07	G-26.10-00.....7/31/19
G-20.10-03.....8/20/21	G-30.10-04.....6/23/15
G-22.10-04.....6/28/18	G-50.10-03.....6/28/18
G-24.10-00.....11/8/07	G-90.10-03.....7/11/17
G-24.20-01.....2/7/12	G-90.20-05.....7/11/17

G-24.30-02.....6/28/18	G-90.30-04.....7/11/17
G-24.40-07.....6/28/18	G-95.10-02.....6/28/18
G-24.50-05.....8/7/19	G-95.20-03.....6/28/18
G-24.60-05.....6/28/18	G-95.30-03.....6/28/18
G-25.10-05.....9/16/20	

1

H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-02.....8/17/21
H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-02.....8/17/21
H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	

2

I-10.10-01.....8/11/09	I-30.20-00.....9/20/07	I-40.20-00.....9/20/07
I-30.10-02.....3/22/13	I-30.30-02.....6/12/19	I-50.20-02.....7/6/22
I-30.15-02.....3/22/13	I-30.40-02.....6/12/19	I-60.10-01.....6/10/13
I-30.16-01.....7/11/19	I-30.60-02.....6/12/19	I-60.20-01.....6/10/13
I-30.17-01.....6/12/19	I-40.10-00.....9/20/07	I-80.10-02.....7/15/16

3

J-05.50-00.....8/30/22	J-28.10-02.....8/7/19	J-50.25-00.....6/3/11
J-10.....7/18/97	J-28.22-00.....8/07/07	J-50.30-00.....6/3/11
J-10.10-04.....9/16/20	J-28.24-02.....9/16/20	J-60.05-01.....7/21/16
J-10.12-00.....9/16/20	J-28.26-01.....12/02/08	J-60.11-00.....5/20/13
J-10.14-00.....9/16/20	J-28.30-03.....6/11/14	J-60.12-00.....5/20/13
J-10.15-01.....6/11/14	J-28.40-02.....6/11/14	J-60.13-00.....6/16/10
J-10.16-02.....8/18/21	J-28.42-01.....6/11/14	J-60.14-01.....7/31/19
J-10.17-02.....8/18/21	J-28.43-01.....6/28/18	J-75.10-02.....7/10/15
J-10.18-02.....8/18/21	J-28.45-03.....7/21/16	J-75.20-01.....7/10/15
J-10.20-04.....8/18/21	J-28.50-03.....7/21/16	J-75.30-02.....7/10/15
J-10.21-02.....8/18/21	J-28.60-03.....8/27/21	J-75.50-00.....8/30/22
J-10.22-02.....8/18/21	J-28.70-04.....8/30/22	J-75.55-00.....8/30/22
J-10.25-00.....7/11/17	J-29.10-02.....8/26/22	J-80.05-00.....8/30/22
J-10.26-00.....8/30/22	J-29.15-01.....7/21/16	J-80.10-01.....8/18/21
J-12.15-00.....6/28/18	J-29.16-02.....7/21/16	J-80.12-00.....8/18/21
J-12.16-00.....6/28/18	J-30.10-01.....8/26/22	J-80.15-00.....6/28/18
J-15.10-01.....6/11/14	J-40.01-00.....8/30/22	J-81.10-02.....8/18/21
J-15.15-02.....7/10/15	J-40.05-00.....7/21/16	J-81.12-00.....9/3/21
J-20.01-00.....8/30/22	J-40.10-04.....4/28/16	J-84.05-00.....8/30/22
J-20.10-04.....7/31/19	J-40.20-03.....4/28/16	J-86.10-00.....6/28/18
J-20.11-03.....7/31/19	J-40.30-04.....4/28/16	J-90.10-03.....6/28/18
J-20.15-03.....6/30/14	J-40.35-01.....5/29/13	J-90.20-03.....6/28/18
J-20.16-02.....6/30/14	J-40.36-02.....7/21/17	J-90.21-02.....6/28/18
J-20.20-02.....5/20/13	J-40.37-02.....7/21/17	J-90.50-00.....6/28/18
J-20.26-01.....7/12/12	J-40.38-01.....5/20/13	
J-21.10-04.....6/30/14	J-40.39-00.....5/20/13	
J-21.15-01.....6/10/13	J-40.40-02.....7/31/19	
J-21.16-01.....6/10/13	J-45.36-00.....7/21/17	
J-21.17-01.....6/10/13	J-50.05-00.....7/21/17	
J-21.20-01.....6/10/13	J-50.10-01.....7/31/19	
J-22.15-02.....7/10/15	J-50.11-02.....7/31/19	
J-22.16-03.....7/10/15	J-50.12-02.....8/7/19	
J-26.10-03.....7/21/16	J-50.13-01.....8/30/22	
J-26.15-01.....5/17/12	J-50.15-01.....7/21/17	
J-26.20-01.....6/28/18	J-50.16-01.....3/22/13	
J-27.10-01.....7/21/16	J-50.18-00.....8/7/19	

J-27.15-00.....3/15/12            J-50.19-00.....8/7/19  
J-28.01-00.....8/30/22            J-50.20-00.....6/3/11

1

K-70.20-01.....6/1/16            K-80.32-00.....8/17/21            K-80.35-01.....9/16/20  
K-80.10-02.....9/25/20            K-80.34-00.....8/17/21            K-80.37-01.....9/16/20

2

L-5.10-00.....9/19/22            L-20.10-03.....7/14/15            L-40.20-02.....6/21/12  
L-5.15-00.....9/19/22            L-30.10-02.....6/11/14            L-70.10-01.....5/21/08  
L-10.10-02.....6/21/12            L-40.15-01.....6/16/11            L-70.20-01.....5/21/08

3

M-1.20-04.....9/25/20            M-11.10-04.....8/2/22            M-40.20-00.....10/12/07  
M-1.40-03.....9/25/20            M-12.10-03.....8/2/22            M-40.30-01.....7/11/17  
M-1.60-03.....9/25/20            M-15.10-01.....2/6/07            M-40.40-00.....9/20/07  
M-1.80-03.....6/3/11            M-17.10-02.....7/3/08            M-40.50-00.....9/20/07  
M-2.20-03.....7/10/15            M-20.10-04.....8/2/22            M-40.60-00.....9/20/07  
M-2.21-00.....7/10/15            M-20.20-02.....4/20/15            M-60.10-01.....6/3/11  
M-3.10-04.....9/25/20            M-20.30-04.....2/29/16            M-60.20-03.....8/17/21  
M-3.20-04.....8/2/22            M-20.40-03.....6/24/14            M-65.10-03.....8/17/21  
M-3.30-04.....9/25/20            M-20.50-02.....6/3/11            M-80.10-01.....6/3/11  
M-3.40-04.....9/25/20            M-24.20-02.....4/20/15            M-80.20-00.....6/10/08  
M-3.50-03.....9/25/20            M-24.40-02.....4/20/15            M-80.30-00.....6/10/08  
M-5.10-03.....9/25/20            M-24.60-04.....6/24/14  
M-7.50-01.....1/30/07            M-24.65-00.....7/11/17  
M-9.50-02.....6/24/14            M-24.66-00.....7/11/17  
M-9.60-00.....2/10/09            M-40.10-03.....6/24/14

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1  
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## **APPENDIX A**

### Geotechnical Report and Boring Logs



# Technical Memorandum

---

**TO:** Mr. Geoff Soderquist, PE, Assistant County Engineer, Lewis County Public Works  
**FROM:** Barsha Pradhan, EIT, and Daniel Simpson, PE  
**DATE:** June 16, 2022  
**RE:** **Summary of Geotechnical Engineering Services**  
**Little Hanaford Road Slide Repair**  
**Centralia, Washington**  
**Project No. 1647017.010.013**

## Introduction

This memorandum summarizes the results of geotechnical engineering services provided by Landau Associates, Inc. (Landau) in support of the Little Hanaford Road Slide Repair project in Centralia, Washington (site; Figure 1). Services were provided in accordance with the scope outlined in Task Order No. 12, authorized on March 22, 2022.

This memorandum has been prepared with information provided by Lewis County Public Works (County; project owner) and with data collected during Landau's geotechnical field exploration and laboratory testing programs.

## Project Understanding

In January 2022, an approximately 120-foot (ft) segment of Little Hanaford Road, in the vicinity of milepost 4.1, began to exhibit signs of slope instability, including severe pavement cracking and embankment settlement. Approximately 6 inches of displacement occurred in the eastbound travel lane, ground deformation damaged a culvert beneath the roadway, and ground deformation has occurred adjacent to a waterline owned by the City of Centralia. In response, the County restricted travel in the affected area to a single lane.

At the County's request, Landau investigated subsurface soil and groundwater conditions at the site and developed design recommendations and cost estimates for slide repair. Landau understands that the County will seek funding for repairs from the Federal Emergency Management Agency.

## Existing Site Conditions

An approximately 24-ft-wide, asphalt-paved roadway (Little Hanaford Road) runs north-south through the site, which is developed with privately owned timberland and rural residential properties. The roadway is built on a hillside embankment with a maximum fill height of approximately 16.5 ft on the downhill side. An 18-inch-diameter asbestos concrete pressurized

waterline is located near roadway centerline. An 18-inch-diameter concrete culvert crosses the roadway at the site.

An approximately 120-ft-long landslide scarp has developed in the eastbound travel lane (downhill side of the embankment). During Landau's February 2022 site visit, ground displacement and cracking were observed along the roadway embankment and downslope of the eastbound travel lane. Landau did not observe displacement at the toe of the embankment. Areas of slope instability are shown on Figure 2.

## **Geologic Setting**

Geologic information for the site and the surrounding area was obtained from the *Geologic Map of the Centralia Quadrangle, Washington* (Schasse 1987). Subsurface deposits in the vicinity of the site are mapped as Eocene-age nearshore sedimentary rocks [En(sk)] and consist of sandstone, siltstone, shale, carbonaceous siltstone, claystone, and thick coal seams. Alpine glacial outwash of the Logan Hill Formation [Qapo(lh)] also is mapped in the vicinity of the site and consists of sand and gravel deposits with minor interbeds of silt and clay.

The soils observed in Landau's exploration were generally consistent with the mapped geology; however, roadway embankment fill also was encountered in the exploration.

## **Subsurface Conditions**

On February 15, 2022, Landau's drilling subcontractor advanced one hollow-stem auger boring (B-1) approximately 49.0 ft below ground surface (bgs) and completed with an inclinometer casing. Boring B-1 was advanced through slide debris, in the shoulder of the eastbound travel lane (see Figure 2). On May 31, 2022, Landau advanced two hand-auger borings (HA-1 and HA-2) at the locations shown on Figure 2. Landau personnel monitored the exploration, collected representative soil samples, and maintained a detailed log of the subsurface soil and groundwater conditions observed. Subsurface conditions were described using the soil classification system shown in Attachment 1, Figure 1-1, in general accordance with ASTM International (ASTM) standard test method D2488, *Standard Practice for Description and Identification of Soils (Visual-Manual Procedures)*. Summary boring logs are included on Figures 1-2 through 1-4.

Soil samples were transported to Landau's geotechnical laboratory for further examination and testing. Moisture content determinations were performed on select soil samples in accordance with ASTM standard test method D2216-19, *Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass*. The natural moisture content is shown as "W = xx" (i.e., percentage of dry weight) in the "Test Data" column on Figure 1-2. Atterberg limits tests were performed on select samples in accordance with ASTM standard test method D4318-



00, *Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils*. Samples selected for Atterberg limits tests are designated with an “AL” in the “Test Data” column on Figure 1-2. Grain size distribution by hydrometer analysis were performed in accordance with ASTM standard test method D7928-19, *Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis*. The results of the Atterberg limits tests and grain size analysis tests are included in Attachment 2, Figure 2-1.

Landau recorded a baseline inclinometer measurement on February 16, 2022. Additional measurements were recorded on March 1, 2022. In Landau’s opinion, the inclinometer data collected from boring B-1 are indicative of slope instability, i.e., a rotating or translating mass of soil moving along a defined failure plane. A summary of inclinometer data is included on Figure 4.

## Soil Conditions

The soils observed were categorized into three general units:

- **Fill:** Fill was observed in boring B-1 and consisted of crushed aggregate near the surface and silt with variable sand, gravel, and organic content below. The fill was in a very soft/loose, moist to wet condition and extended approximately 7 ft bgs.
- **Alpine Glacial Outwash – Logan Hill Formation:** The alpine glacial outwash was encountered below the fill in B-1 and below the topsoil in HA-1 and HA-2. The alpine glacial outwash consisted of very soft to medium stiff silt or elastic silt with variable sand and gravel content and medium dense sand with variable silt and gravel content. The alpine outwash also contained organics and flecks of charcoal. The alpine glacial outwash extended to the full depth of exploration in HA-1 and HA-2.
- **Marine Sedimentary Rock – Skookumchuck Formation:** Marine sedimentary rock was observed beneath the alpine outwash in B-1 and extended to the full depth of exploration. The marine sedimentary rock consisted of weathered siltstone and transitioned from very stiff to hard with depth.

Figure 3 includes an interpreted geologic cross-section of the site and delineates suspected slide plane geometry based on inclinometer data and site observations.

## Groundwater Conditions

During Landau’s February 15, 2022 field investigation, groundwater was observed in boring B-1 at 30.7 ft bgs (elevation 266.3 ft). Groundwater conditions will vary depending on local subsurface conditions, weather conditions, and other factors. Furthermore, groundwater levels are expected to fluctuate seasonally, with maximum groundwater levels occurring during late winter and early spring.

During subsequent site visits in February and March 2022, Landau observed the culvert that spans the slide mass to be broken or blocked, noting that light could not pass through the culvert. Though water exited the culvert, no water was observed flowing into the upstream end of the culvert. This may indicate that the fill entering the culvert near the landslide slip plane includes a perched groundwater layer draining into the culvert at a break in the culvert.

Boring HA-1 encountered water at about elevation 275 ft at the time of drilling. Approximately 1 hour after drilling, the groundwater had risen to elevation 277.7 ft.

## Landslide Assessment

In Landau's opinion, slope instability may be the result of groundwater fluctuations within the fine-grained embankment fill and the upper portion alpine glacial outwash. Site groundwater levels likely rose during the January 2022 storm event, reducing the strength of embankment and/or foundation soils and destabilizing the roadway embankment. Ground movement initiated by high groundwater has likely reduced the shear strength of soils along the landslide slip plane to residual strength conditions.

Without mitigation, the eastbound travel lane is likely to experience additional movement, which is likely to damage the waterline and potentially threaten stability of the westbound lane. Additionally, the existing culvert does not appear functional. In their current state, site embankments should be considered marginally stable with a factor of safety (FS) of 1. High groundwater conditions caused by precipitation or other factors are likely to lower the FS and cause additional slope instability. The blocked culvert could lead to stormwater impoundment on the uphill side of the embankment.

## Repair Alternatives Analysis

Landau used the limit-equilibrium software SLIDE2 (Rocscience, Version 9) to complete a back-analysis for the purpose of estimating slide plane strength properties at the site.

Stability analyses were completed at a critical cross section that combine the most severe toe slope conditions, back slope conditions, and pavement cracking. Site soil strength properties were classified according to their engineering stratigraphic units (ESUs), as shown in Table 1.

**Table 1. Soil Parameters**

Material Name	Description	Soil Parameters
ESU 1 (fill/alpine outwash)	Soft to Medium Stiff SILT with sand	$\gamma = 115$ pcf, $\phi = 30$ degrees
ESU 2 (alpine outwash)	Medium stiff elastic SILT	$\gamma = 120$ pcf, $\phi = 32$ degrees

Material Name	Description	Soil Parameters
ESU 3 (alpine outwash)	Medium dense silty SAND	$\gamma = 120$ pcf, $\phi = 32$ degrees
Slide Plane	Residual strength SILT	$\gamma = 110$ pcf, $\phi = 22$ degrees
ESU 4 (marine sedimentary rock)	Very stiff to hard SILT	$\gamma = 125$ pcf, $\phi = 34$ degrees

Note: Apparent cohesion ignored.

$\gamma$  = unit weight

$\phi$  = effective friction angle

ESU = engineering stratigraphic unit

pcf = pounds per cubic foot

Once baseline conditions were established, Landau evaluated the feasibility of three slide repair alternatives: 1) tied-back soldier pile wall, 2) mechanically stabilized earth wall, and 3) infill buttress/shear key. Commensurate with typical embankment/slope stability design standards, a minimum FS of approximately 1.3 [for global stability] was used to assess repair alternatives, except for the infill buttress alternative. Preliminary designs for the three repair alternatives are presented on Figures 5 through 7.

### **Alternative 1. Tied-Back Soldier Pile Wall**

Alternative 1 consists of installing drilled soldier piles along the roadway embankment (Figure 5). The piles would stabilize the embankment by providing lateral resistance to the sliding soil mass.

Based on a preliminary analysis, installation of W18×97 piles with a single row of tie-backs would be required to restore slope stability to baseline conditions. The piles should measure 50 ft long and be spaced 6 ft horizontally. Reconstruction would be required in areas where pavement and embankment fill were damaged by the landslide. The majority of embankment fill can remain in place. A temporary access road is necessary to provide a pad for the crane and/or tie-back drill.

Alternative 1 could require an underground easement on the south side of the roadway for the permanent ground anchors. Temporary construction activities would occur outside of the right of way during anchor drilling and lagging installation.

The estimated cost for Alternative 1 is \$1,213,803, as detailed in Attachment 3. This includes costs for final engineering design; permitting; and construction, such as document preparation and quality control.

### **Alternative 2. Mechanically Stabilized Earth Wall**

Alternative 2 consists of removing the majority of fine-grained embankment fill and replacing it with alternating layers of compacted backfill and soil reinforcement elements (geosynthetic

reinforcements; Figure 6). Excavations along a 120-ft segment of roadway would extend approximately 17 ft below road grade. This alternative would help to mitigate slope instability by providing a structural wall to resist destabilizing forces. Landau assumed a Washington State Department of Transportation (WSDOT) standard plan geosynthetic wall with precast concrete panels for the analysis. A City of Centralia-owned waterline may be present within the depth of the excavation. The contractor should be responsible for protecting the waterline during construction excavation.

Alternative 2 would require ROW acquisition and temporary construction activities outside of the ROW.

The estimated cost for Alternative 2 is \$1,097,308, as detailed in Attachment 3. This includes costs for final engineering design; permitting; and construction, such as document preparation and quality control.

### **Alternative 3. Infill Buttress/Shear Key**

Alternative 3 consists of replacing a portion of the existing embankment soil with quarry spalls or gravel borrow (infill buttress) and a portion of foundation soil with quarry spalls (shear key). The new fill would have a higher shear resistance and would provide better drainage than the *in situ* soil, increasing stability. The excavation should extend to approximately 21 ft below grade at the toe of the existing embankment. A geotextile would be required at the contact between the native soil and the rockfill to prevent fines from entering voids in the rockfill.

Alternative 3 would require ROW acquisition, as shown on Figure 7.

The estimated cost for Alternative 3 is \$719,751, as detailed in Attachment 3. This includes costs for final engineering design; permitting; and construction, such as document preparation and quality control.

## **Alternatives Analysis Conclusions**

The three repair alternatives are considered feasible from geotechnical and constructability standpoints and will provide a minimum FS of 1.3 for sliding resistance. If constructed as recommended, all repair alternatives are anticipated to have a design life of 50 years or more.

Only Alternative 3 can be constructed by County personnel. Alternatives 1 and 2 would require the assistance of specialty contractors. As it appears to be the most cost-effective, Alternative 3 is recommended by Landau.

The existing roadway before the slide occurred was likely marginally stable to unstable during a design-level seismic event. Because the intent of the landslide repair will be to restore the roadway to pre-existing conditions, the design does not include seismic loading. This approach to landslide repairs is consistent with similar landslide repair projects in the region.

## **Final Design Recommendations**

The County has selected the infill buttress/shear key stability remedy. Additional stability calculations were performed to refine the required material properties and assess the extent of fill. Figure 8 shows the required geometry and extents of materials. Quarry spalls should accord with the requirements in Section 9-13.1(5) of WSDOT's 2022 *Standard Specifications for Road, Bridge, and Municipal Construction (2022 WSDOT Standard Specifications)*. Gravel Borrow should accord with the requirements in Section 9-03.14(1) of the 2022 *WSDOT Standard Specifications*.

Shoring may be required to complete installation of the shear key. Landau recommends Shoring or Extra Excavation, Class B, per Section 2-09.3(4) of the 2022 *WSDOT Standard Specifications*, to allow for the use of trench boxes or similar shoring systems installed after the excavation is advanced.

Groundwater is likely to be present within the buttress or shear key excavation. The need for dewatering should be anticipated. Site soils are relatively fine-grained, and sumps should be sufficient to dewater the excavation. If the project is let for public bid, Landau recommends including a Special Provision to notify the contractor that dewatering is required and incidental to shoring or earthwork.

A geotextile should be placed between quarry spalls and native site soils. The geotextile should comply with the material requirements for underground drainage, class C, moderate survivability, per Section 9-33.2(1) of the 2022 *WSDOT Standard Specifications*. The geotextile should be installed as shown on Figure 8.

## **Use of This Technical Memorandum**

Landau Associates has prepared this technical memorandum for the exclusive use of Lewis County Public Works for specific application to the Little Hanaford Road Slide Repair project in Centralia, Washington. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau Associates. Reuse of the information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau Associates, shall be at the user's sole risk. Landau Associates warrants that, within the limitations of scope, schedule, and budget, its services have been provided in a manner consistent with that

level of skill and care ordinarily exercised by members of the profession currently practicing in the same locality, under similar conditions as this project. Landau Associates makes no other warranty, either express or implied.

## Closing

We trust that this memorandum provides you with the information necessary to proceed with the project. If you have questions or comments, or if we can be of further service, please contact Daniel Simpson at 360.791.3178 or at dsimpson@landauinc.com.

LANDAU ASSOCIATES, INC.



Barsha Pradhan  
Senior Staff EIT



Daniel Simpson, PE  
Senior Associate



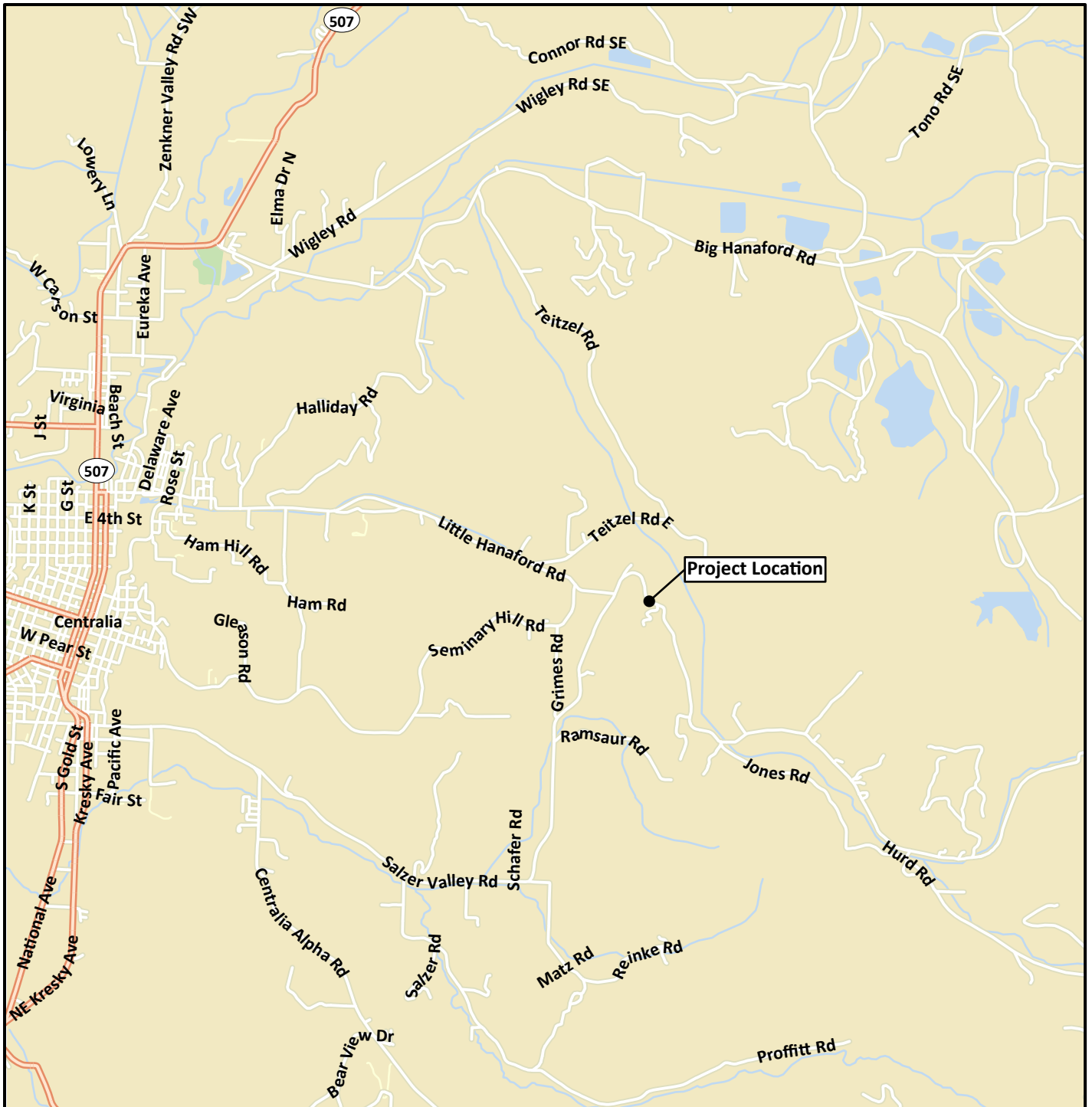
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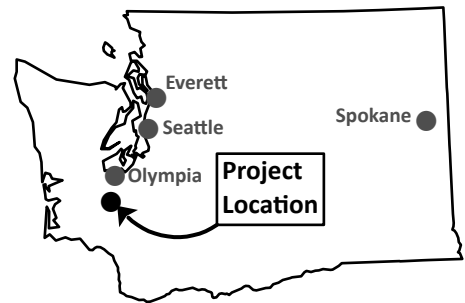
- Attachments:
- Figure 1. Vicinity Map
  - Figure 2. Site and Exploration Plan
  - Figure 3. Geologic Cross Section
  - Figure 4. Inclinator Data Summary
  - Figure 5. Alternative 1. Tied-Back Soldier Pile Wall
  - Figure 6. Alternative 2. Mechanically Stabilized Earth Wall
  - Figure 7. Alternative 3. Infill Buttress/Shear Key
  - Figure 8. Buttress/Shear Key Design Requirements
  - Attachment 1. Field Explorations Logs
  - Attachment 2. Laboratory Test Results
  - Attachment 3. Cost Estimates
  - Attachment 4. Final Design Configuration Stability Analysis

## References

- ASTM. 2018. D420-D5876: Annual Book of ASTM Standards. In: *Soil and Rock (I)*. West Conshohocken, PA: ASTM International.
- Schasse, H.W. 1987. *Geologic Map of the Centralia Quadrangle, Washington*. Washington Division of Geology and Earth Resources.
- WSDOT. 2021. *M 41-10: Standard Specifications for Road, Bridge, and Municipal Construction*. 2022 Edition. Washington State Department of Transportation. August 22.



**Project Location**



Data Source: Esri.

Little Hanaford Road  
Slide Repair  
Centralia, Washington

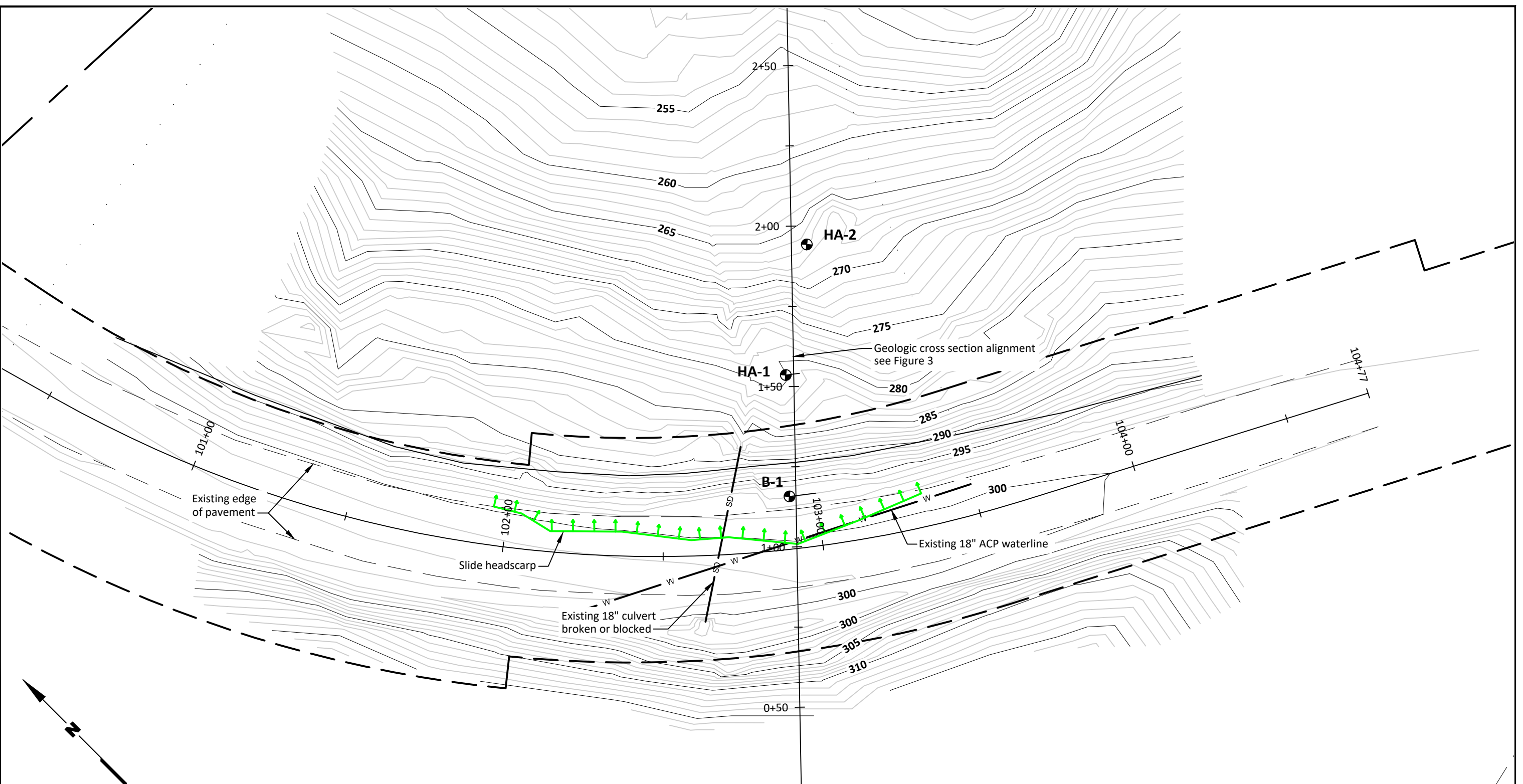
**Vicinity Map**

Figure  
**1**

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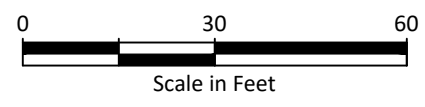


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**Legend**  
 B-1 Approximate Boring Location

**Note**  
 1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



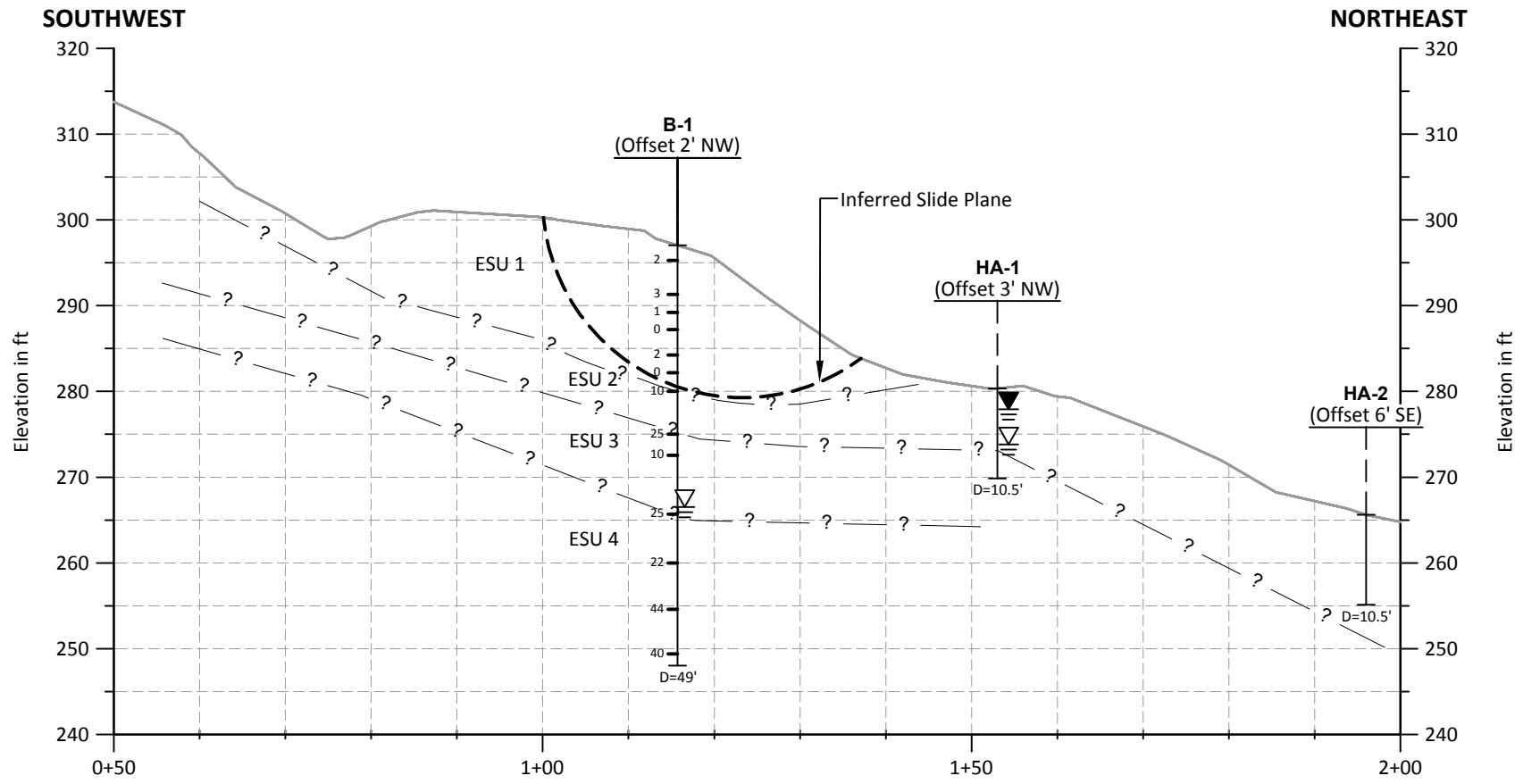
Source: Lewis County 2022



Little Hanaford Road  
 Slide Repair  
 Centralia, Washington

**Site and Exploration Plan**

Figure  
**2**

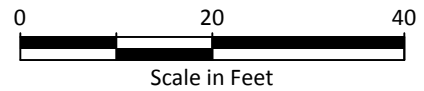


**Legend**

- Project Exploration Designation
- (Offset 2' NW) — Offset Distance in Feet and Direction
- Top of Exploration
- Groundwater Level (At time of drilling)
- ? — Engineering Stratigraphic Unit (ESU) Contact
- Standard Penetration Test Sample Blow Count
- Groundwater Level (After drilling)
- Bottom of Exploration
- D=14' — Depth of Exploration

**Finish Grade Profile**

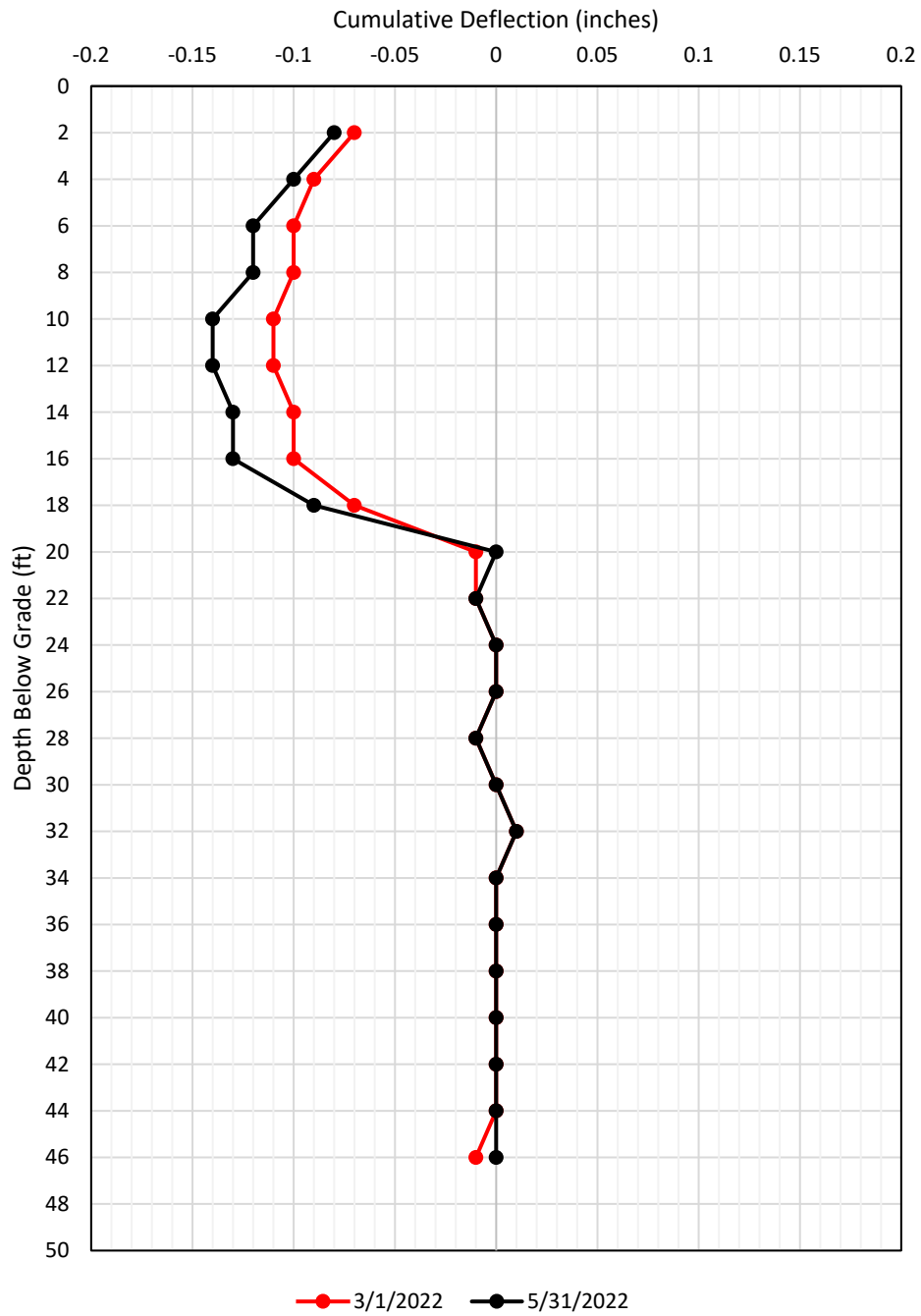
Horizontal Scale in Feet: 1"=20'  
Vertical Scale in Feet: 1"=20'



**Notes**

1. Soil descriptions are generalized, based on interpretation of field and laboratory data. Stratigraphic contacts are interpolated between borings and based on topographic features; actual conditions may vary.
2. See main text for descriptions of geologic units.
3. For cross-section location, see Figure 2.

### A-Axis Deflection Data

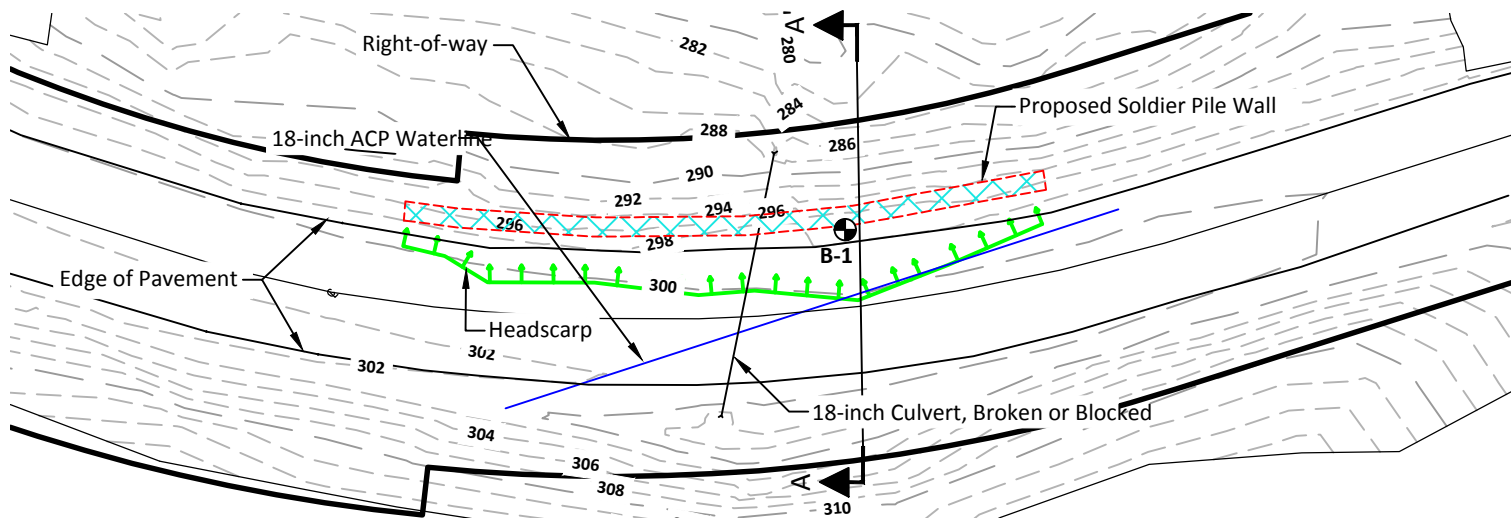
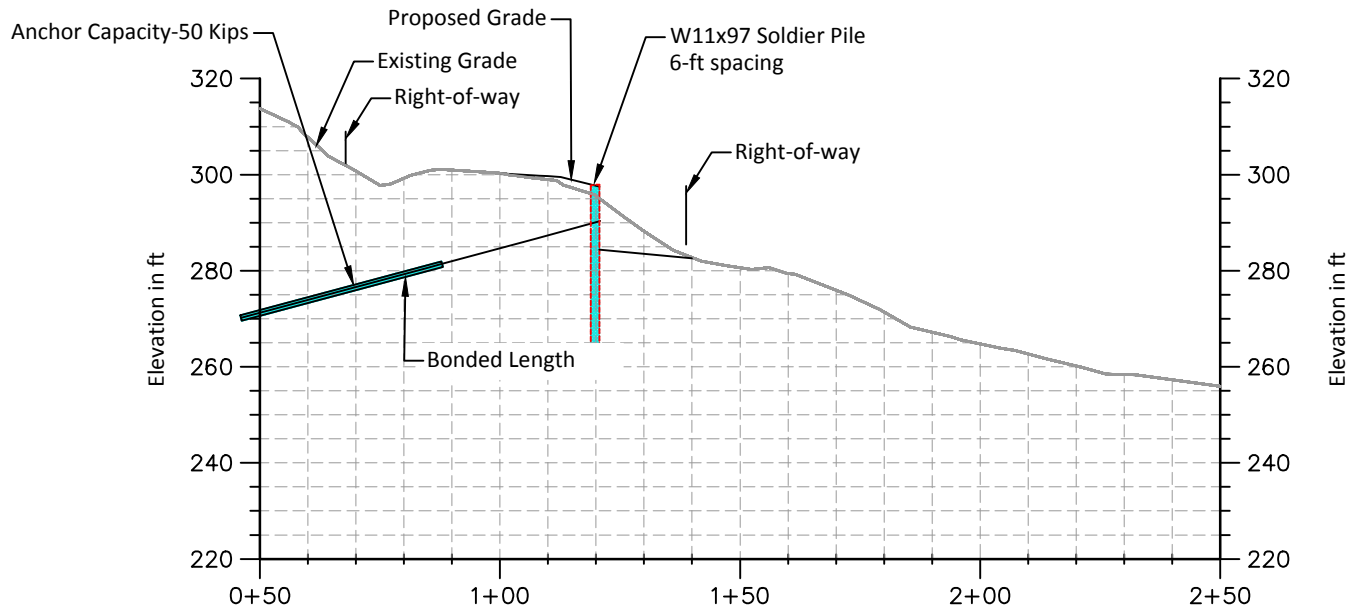


**Notes**

Deflections measured against baseline obtained on February 16, 2022.  
 A-Axis is oriented to show positive in the uphill direction of the slide.

6/15/22 Y:\1647017.010\Inclinometer Data.docx

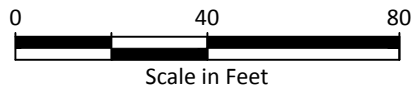
Little Hanford Road Slide Repair Centralia, Washington	<b>Inclinometer Data Summary</b>	Figure <b>4</b>
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**Note**

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

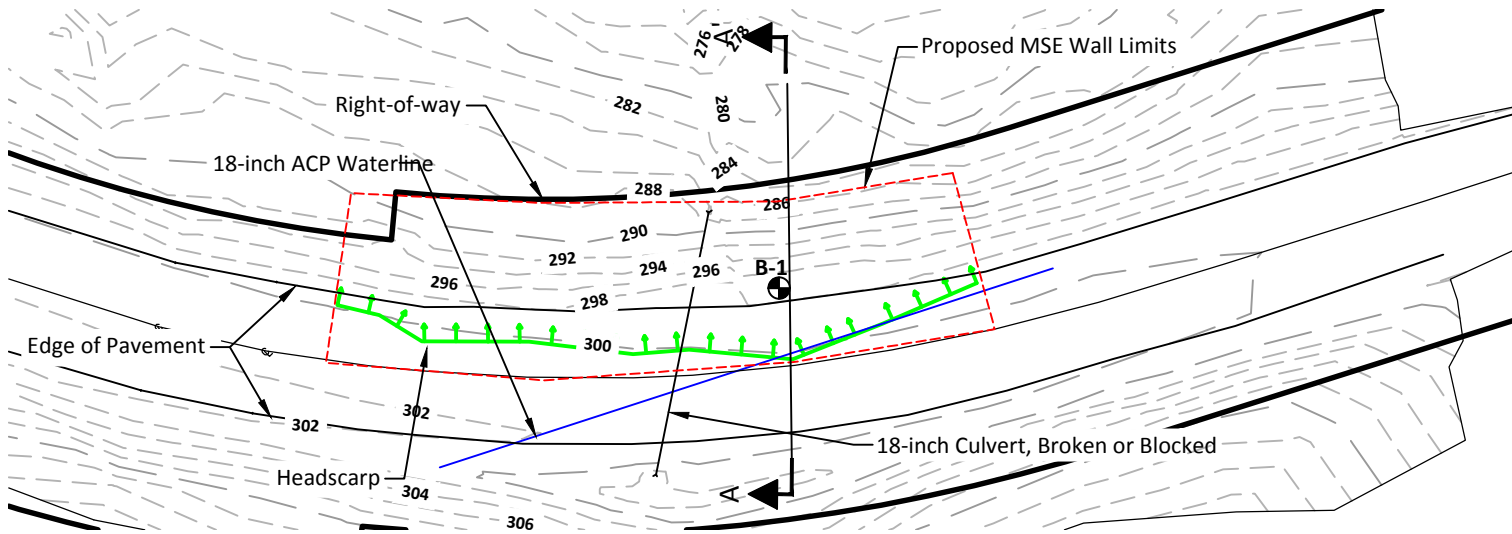
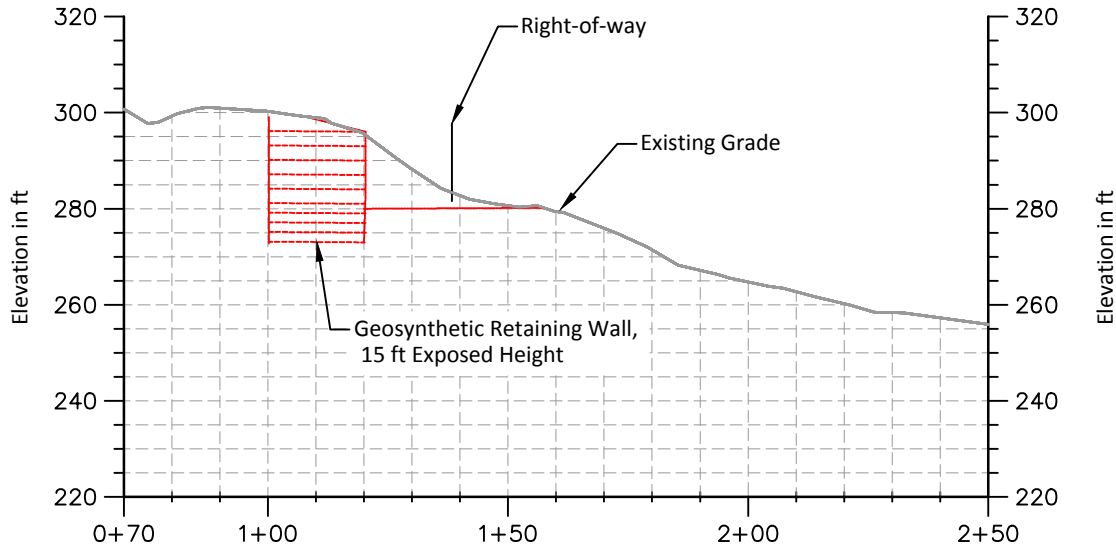
Source: Lewis County 2022



Little Hanaford Road  
Slide Repair  
Centralia, Washington

**Alternative 1**  
**Tied-Back Soldier Pile Wall**

Figure  
**5**

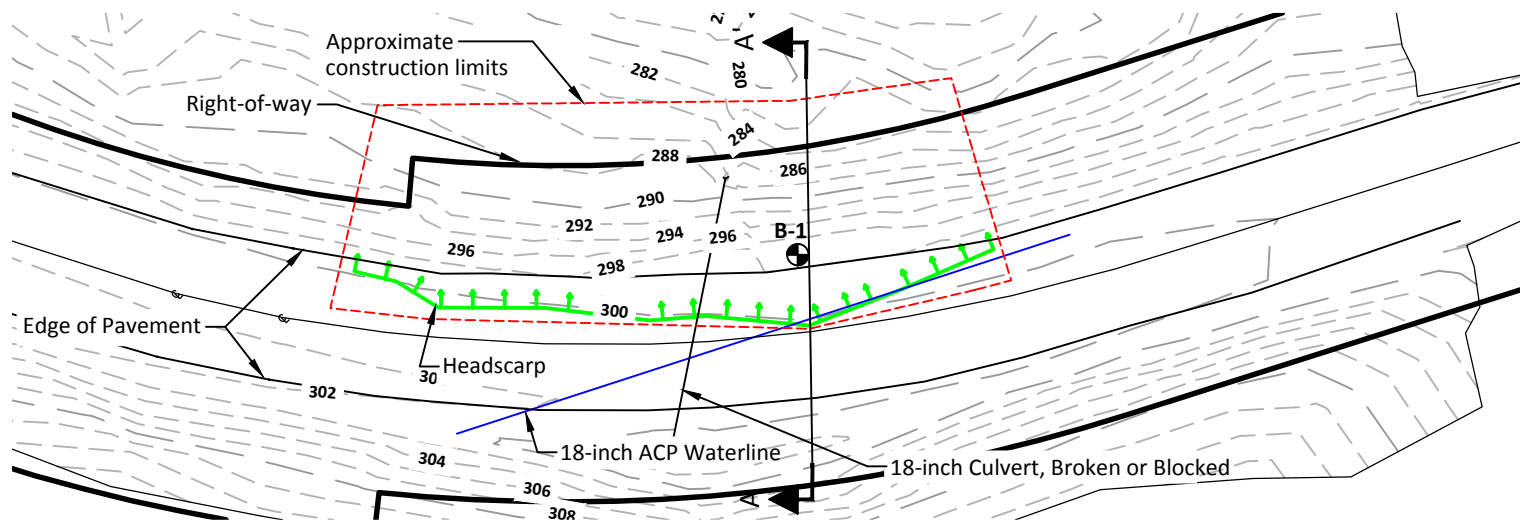
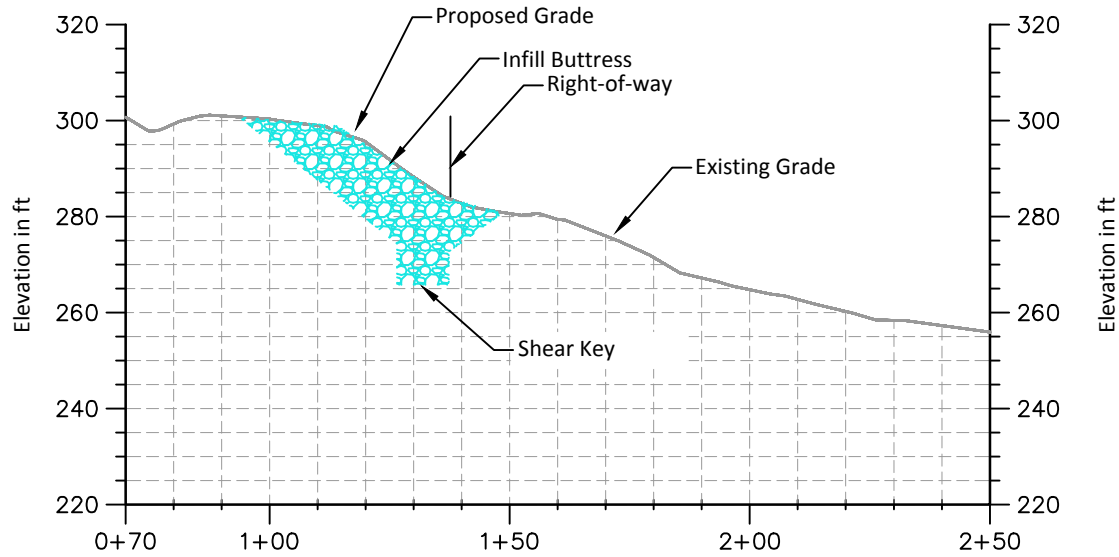


Source: Lewis County 2022

**Note**

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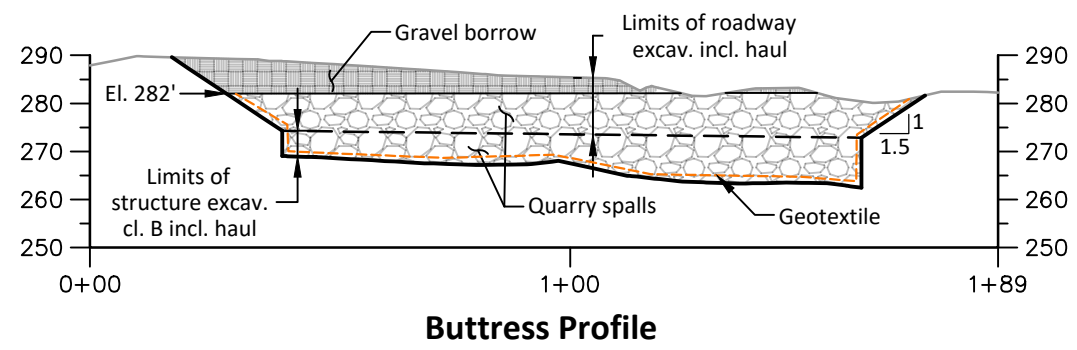
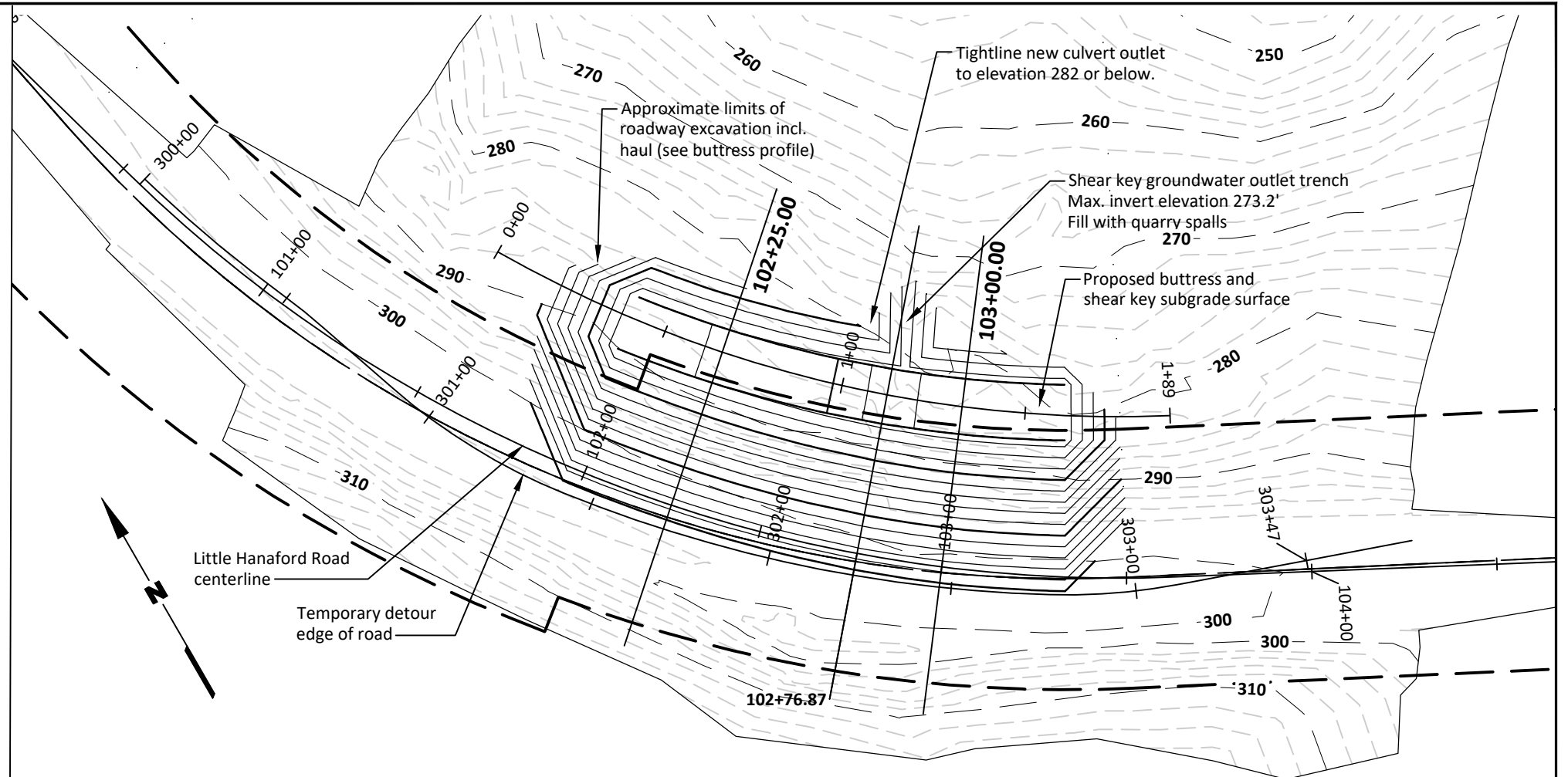
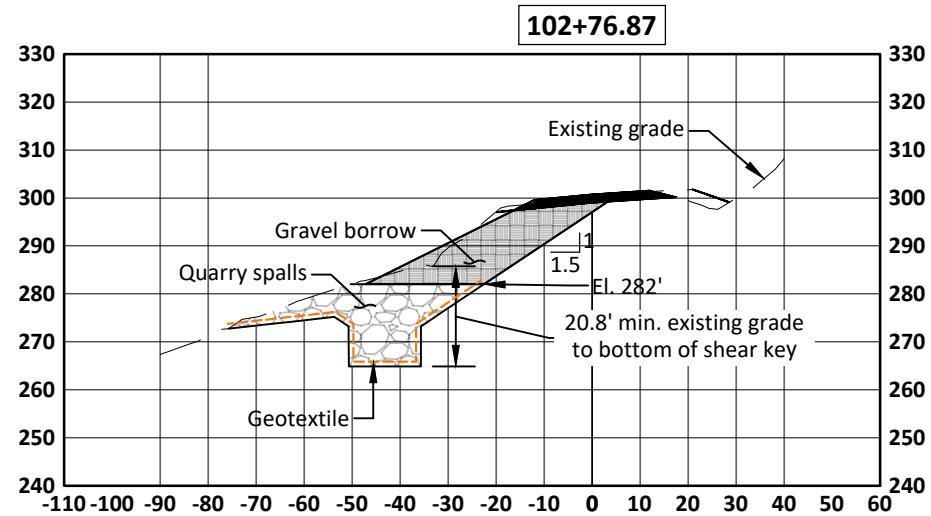
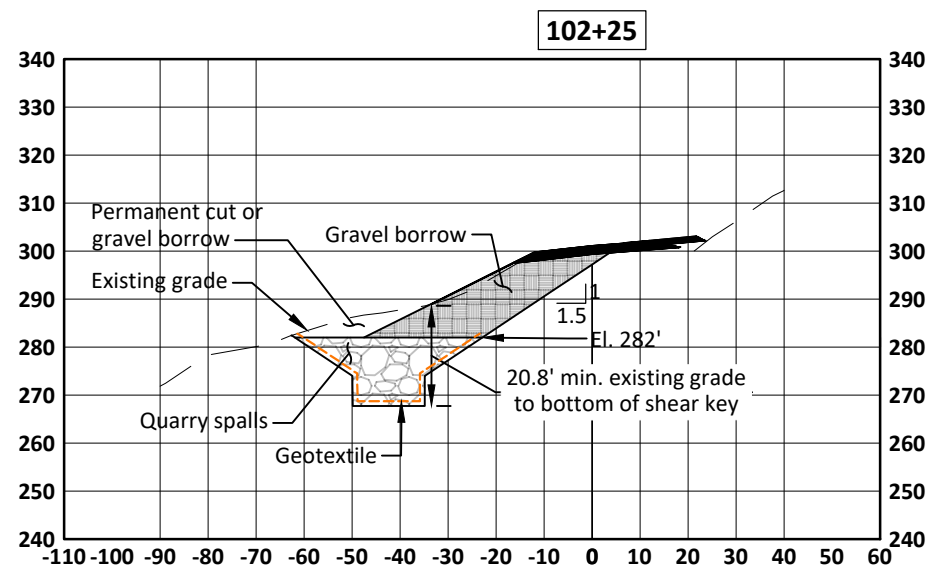
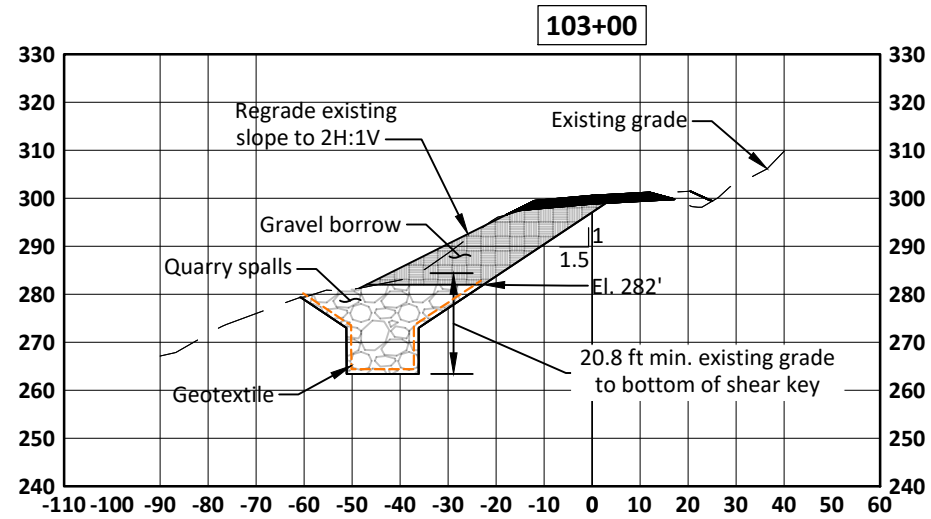




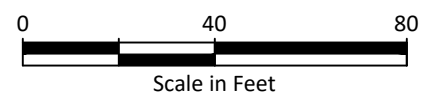
Source: Lewis County 2022



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- Notes:**
1. Refer to report text for additional information regarding buttress and shear key design and construction requirements.
  2. Final elevations to be verified during construction based on field conditions observed during excavation.
  3. This figure contains colored lines and black-and-white reproduction may lead to incorrect interpretation.



Source: Lewis County Public Works 2022

Little Hanaford Road  
Slide Repair  
Centralia, Washington

**Buttress/Shear Key  
Design Requirements**

Figure  
**8**

ATTACHMENT 1

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# Field Exploration Logs



## Soil Classification System

	MAJOR DIVISIONS	CLEAN GRAVEL (Little or no fines)	GRAPHIC SYMBOL	LETTER SYMBOL <sup>(1)</sup>	TYPICAL DESCRIPTIONS <sup>(2)(3)</sup>	
COARSE-GRAINED SOIL (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL  (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		<b>GW</b>	Well-graded gravel; gravel/sand mixture(s); little or no fines	
		GRAVEL WITH FINES (Appreciable amount of fines)		<b>GP</b>	Poorly graded gravel; gravel/sand mixture(s); little or no fines	
	SAND AND SANDY SOIL  (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)	CLEAN SAND (Little or no fines)		<b>GM</b>	Silty gravel; gravel/sand/silt mixture(s)
			GRAVEL WITH FINES (Appreciable amount of fines)		<b>GC</b>	Clayey gravel; gravel/sand/clay mixture(s)
		SAND WITH FINES (Appreciable amount of fines)	CLEAN SAND (Little or no fines)		<b>SW</b>	Well-graded sand; gravelly sand; little or no fines
			SAND WITH FINES (Appreciable amount of fines)		<b>SP</b>	Poorly graded sand; gravelly sand; little or no fines
FINE-GRAINED SOIL (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY  (Liquid limit less than 50)	CLEAN SAND (Little or no fines)		<b>SM</b>	Silty sand; sand/silt mixture(s)	
		SAND WITH FINES (Appreciable amount of fines)		<b>SC</b>	Clayey sand; sand/clay mixture(s)	
		SILT AND CLAY (Liquid limit less than 50)		<b>ML</b>	Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity	
	SILT AND CLAY  (Liquid limit greater than 50)	SILT AND CLAY (Liquid limit less than 50)		<b>CL</b>	Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay	
		SILT AND CLAY (Liquid limit greater than 50)		<b>OL</b>	Organic silt; organic, silty clay of low plasticity	
		SILT AND CLAY (Liquid limit greater than 50)		<b>MH</b>	Inorganic silt; micaceous or diatomaceous fine sand	
	HIGHLY ORGANIC SOIL	SILT AND CLAY (Liquid limit greater than 50)		<b>CH</b>	Inorganic clay of high plasticity; fat clay	
		SILT AND CLAY (Liquid limit greater than 50)		<b>OH</b>	Organic clay of medium to high plasticity; organic silt	
				<b>PT</b>	Peat; humus; swamp soil with high organic content	

OTHER MATERIALS	GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
PAVEMENT		<b>AC or PC</b>	Asphalt concrete pavement or Portland cement pavement
ROCK		<b>RK</b>	Rock (See Rock Classification)
WOOD		<b>WD</b>	Wood, lumber, wood chips
DEBRIS		<b>DB</b>	Construction debris, garbage

- Notes:
- USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
  - Soil descriptions are based on the general approach presented in the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the Standard Test Method for Classification of Soils for Engineering Purposes, as outlined in ASTM D 2487.
  - Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:
    - Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc.
    - Secondary Constituents: > 30% and < 50% - "very gravelly," "very sandy," "very silty," etc.
    - > 15% and < 30% - "gravelly," "sandy," "silty," etc.
    - Additional Constituents: > 5% and < 15% - "with gravel," "with sand," "with silt," etc.
    - < 5% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted.
  - Soil density or consistency descriptions are based on judgement using a combination of sampler penetration blow counts, drilling or excavating conditions, field tests, and laboratory tests, as appropriate.

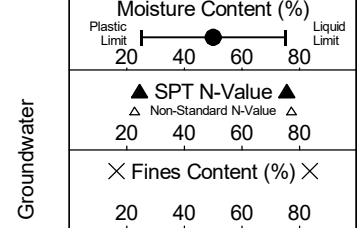
Drilling and Sampling Key		Field and Lab Test Data																																																				
SAMPLER TYPE	SAMPLE NUMBER & INTERVAL																																																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Code</th> <th>Description</th> </tr> <tr><td>a</td><td>3.25-inch O.D., 2.42-inch I.D. Split Spoon</td></tr> <tr><td>b</td><td>2.00-inch O.D., 1.50-inch I.D. Split Spoon</td></tr> <tr><td>c</td><td>Shelby Tube</td></tr> <tr><td>d</td><td>Grab Sample</td></tr> <tr><td>e</td><td>Single-Tube Core Barrel</td></tr> <tr><td>f</td><td>Double-Tube Core Barrel</td></tr> <tr><td>g</td><td>2.50-inch O.D., 2.00-inch I.D. WSDOT</td></tr> <tr><td>h</td><td>3.00-inch O.D., 2.375-inch I.D. Mod. California</td></tr> <tr><td>i</td><td>Other - See text if applicable</td></tr> <tr><td>1</td><td>300-lb Hammer, 30-inch Drop</td></tr> <tr><td>2</td><td>140-lb Hammer, 30-inch Drop</td></tr> <tr><td>3</td><td>Pushed</td></tr> <tr><td>4</td><td>Vibrocore (Rotasonic/Geoprobe)</td></tr> <tr><td>5</td><td>Other - See text if applicable</td></tr> </table>	Code	Description	a	3.25-inch O.D., 2.42-inch I.D. Split Spoon	b	2.00-inch O.D., 1.50-inch I.D. Split Spoon	c	Shelby Tube	d	Grab Sample	e	Single-Tube Core Barrel	f	Double-Tube Core Barrel	g	2.50-inch O.D., 2.00-inch I.D. WSDOT	h	3.00-inch O.D., 2.375-inch I.D. Mod. California	i	Other - See text if applicable	1	300-lb Hammer, 30-inch Drop	2	140-lb Hammer, 30-inch Drop	3	Pushed	4	Vibrocore (Rotasonic/Geoprobe)	5	Other - See text if applicable		<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Code</th> <th>Description</th> </tr> <tr><td>PP = 1.0</td><td>Pocket Penetrometer, tsf</td></tr> <tr><td>TV = 0.5</td><td>Torvane, tsf</td></tr> <tr><td>PID = 100</td><td>Photoionization Detector VOC screening, ppm</td></tr> <tr><td>W = 10</td><td>Moisture Content, %</td></tr> <tr><td>D = 120</td><td>Dry Density, pcf</td></tr> <tr><td>-200 = 60</td><td>Material smaller than No. 200 sieve, %</td></tr> <tr><td>GS</td><td>Grain Size - See separate figure for data</td></tr> <tr><td>AL</td><td>Atterberg Limits - See separate figure for data</td></tr> <tr><td>GT</td><td>Other Geotechnical Testing</td></tr> <tr><td>CA</td><td>Chemical Analysis</td></tr> </table>	Code	Description	PP = 1.0	Pocket Penetrometer, tsf	TV = 0.5	Torvane, tsf	PID = 100	Photoionization Detector VOC screening, ppm	W = 10	Moisture Content, %	D = 120	Dry Density, pcf	-200 = 60	Material smaller than No. 200 sieve, %	GS	Grain Size - See separate figure for data	AL	Atterberg Limits - See separate figure for data	GT	Other Geotechnical Testing	CA	Chemical Analysis
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Approximate water level at time of drilling (ATD)																																																						
Approximate water level at time after drilling/excavation/well																																																						

# B-1

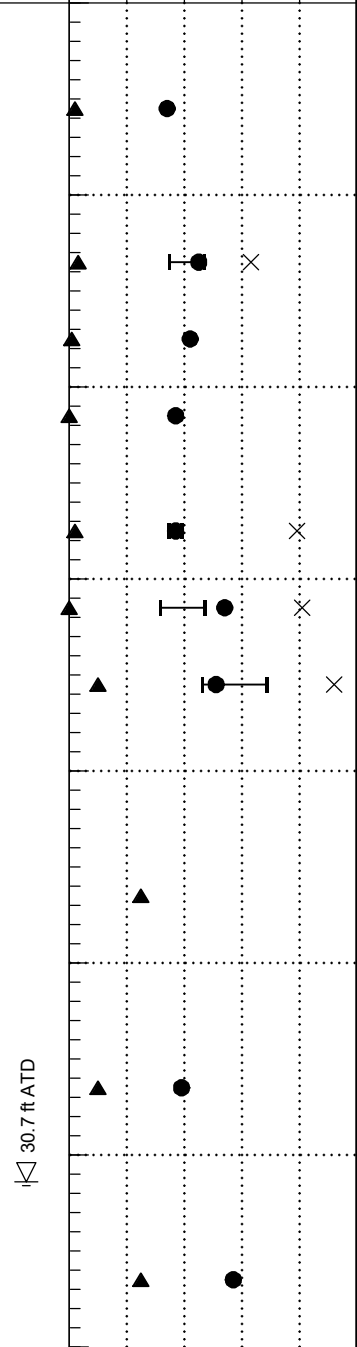
LAI Project No: 1647017.010

## SAMPLE DATA

## SOIL PROFILE



Depth (ft)	Elevation (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-Stem Auger	Ground Elevation (ft): 297	Drilled By: Holocene Drilling Inc.	Logged By: BP Date: 02/15/22
0							GM	Dark brown, silty, sandy, fine to coarse GRAVEL with trace organics (medium dense, moist)			
295		S-1	b2	2	W = 34		ML	(FILL) Gray-brown, iron-stained SILT with sand and trace organics (very soft, moist)			
290		S-2	b2	3	W = 45 GS AL		ML	-Grades to green-gray, soft, and with charcoal -Wood debris in sampler shoe			
285		S-3	b2	1	W = 42			Dark brown, sandy SILT with gravel and organics (very soft, moist) <b>(ALPINE GLACIAL OUTWASH)</b>			
285		S-4	b2	0	W = 37			-2-inch lens of wood debris at 8.8 ft -Grades to moist to wet -Organics observed			
280		S-5	b2	2	W = 37 GS AL			-Grades to gray and without gravel or charcoal -Iron-stained			
280		S-6	b2	0	W = 54 GS AL			-5-inch lens of silty sand at 15 ft -Grades to with gravel			
280		S-7	b2	10	W = 51 GS AL		MH	-Grades to gray-brown, moist, and iron-stained Gray, iron-stained, elastic SILT (stiff, moist)			
275		S-8	b2	25			SP-SM	Gray, fine to medium SAND with silt (medium dense, moist) -Iron-staining observed throughout the sample			
270		S-9	b2	10	W = 39		SM	Gray-brown, silty, fine to medium SAND (medium dense, moist to wet)			
265		S-10	b2	25	W = 57		ML	Green-gray, cemented SILT (very stiff, moist) <b>(MARINE SEDIMENTARY ROCK)</b> -Black mottling			



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1647017.01 6/13/22 C:\1647017.010\1647017.010.GPJ SOIL BORING LOG WITH GRAPH



Little Hanaford Road  
Slide Repair  
Centralia, Washington

Log of Boring B-1

Figure  
1-2  
(1 of 2)

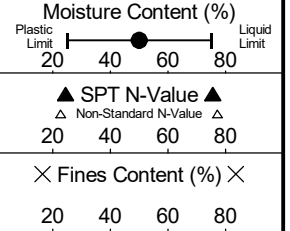
# B-1

LAI Project No: 1647017.010

## SAMPLE DATA

## SOIL PROFILE

Groundwater



Drilling Method: Hollow-Stem Auger  
 Ground Elevation (ft): 297  
 Drilled By: Holocene Drilling Inc.  
 Logged By: BP Date: 02/15/22

Depth (ft)	Elevation (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Description
35								
36-38	260	S-11	b2	22	W = 56		ML	Green-gray, cemented SILT (very stiff, moist)
40-42	255	S-12	b2	44	W = 48			-Grades to hard
44-46	250	S-13	b2	40	W = 55			

Boring Completed 02/15/22  
 Total Depth of Boring = 49.0 ft.

Inclinometer casing and 12-inch flush mount monumnet installed

- Notes:
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  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1647017.01\_6/13/22\_C:\1647017.010\1647017.010.GPJ SOIL BORING LOG WITH GRAPH



Little Hanaford Road  
 Slide Repair  
 Centralia, Washington

Log of Boring B-1

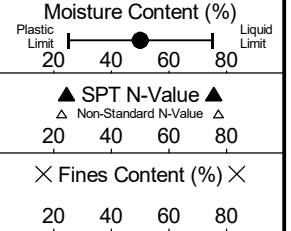
Figure  
 1-2  
 (2 of 2)

# HA-1

LAI Project No: 1647017.010

## SAMPLE DATA

## SOIL PROFILE



Depth (ft)	Elevation (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hand Auger	Ground Elevation (ft): 280	Drilled By: _____	Logged By: DCS	Date: 05/31/22	Groundwater
0	280						ML	Brown topsoil <b>(TOPSOIL)</b>					
2	278						MH	Brown, elastic SILT with trace sand (medium stiff, moist) <b>(ALPINE GLACIAL OUTWASH)</b>					2.3 ft 05/31/22
4	276							With sand, trace organics, and charcoal flecks					5.0 ft ATD
6	274				PP = 1 tsf TV = 0.4 tsf		ML	Gray SILT with orange mottling (soft, wet)					
8	272				PP = 1.5 tsf			With trace gravel (stiff, moist)					
10	270						SM	Gray, very silty SAND (medium dense, moist)					
								Grades to with silt (medium dense, moist)					

Boring Completed 05/31/22  
Total Depth of Boring = 10.5 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
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  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1647017.01 6/13/22 C:\1647017.010\1647017.010.GPJ SOIL BORING LOG WITH GRAPH



Little Hanaford Road  
Slide Repair  
Centralia, Washington

Log of Boring HA-1

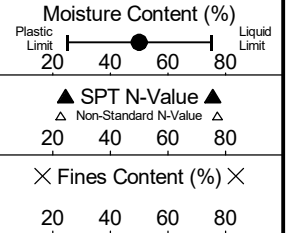
Figure  
1-3

# HA-2

LAI Project No: 1647017.010

## SAMPLE DATA

## SOIL PROFILE



Depth (ft)	Elevation (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Profile Description
0							ML	Drilling Method: <u>Hand Auger</u> Ground Elevation (ft): <u>267</u> Drilled By: _____ Logged By: <u>DCS</u> Date: <u>05/31/22</u> Topsoil (soft, moist) <b>(TOPSOIL)</b>
2	266						MH	Orange-brown, elastic SILT with sand (stiff, moist) <b>(ALPINE GLACIAL OUTWASH)</b>  Gray with orange mottling  With gravel, sand, and weathered clasts  Sandy to very sandy  With sand and trace gravel (soft, moist)  (stiff, moist)  Sandy Very sandy
10.5	258				PP = 1 tsf			

Groundwater

Groundwater Not Encountered

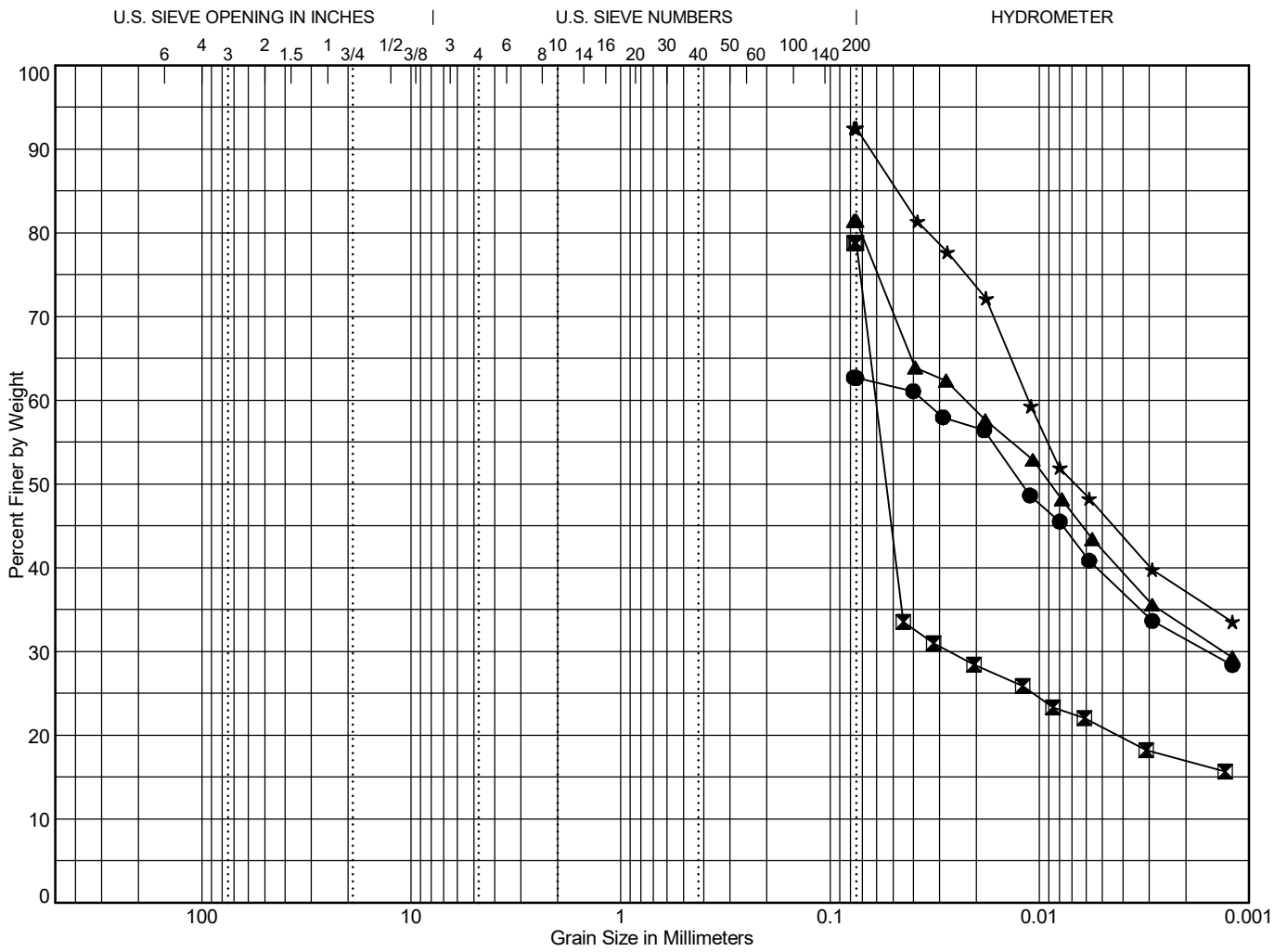
Boring Completed 05/31/22  
Total Depth of Boring = 10.5 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1647017.01 6/13/22 C:\1647017.010\1647017.010.GPJ SOIL BORING LOG WITH GRAPH



# Laboratory Test Results



Cobbles	Gravel		Sand			Silt or Clay
	coarse	fine	coarse	medium	fine	

Point	Depth	Classification	LL	PL	PI	C <sub>c</sub>	C <sub>u</sub>
●	B-1 6.0	SILT (ML)	47	35	12		
■	B-1 13.0	SILT (ML)	39	35	4		
▲	B-1 15.0	SILT (ML)	47	32	15		
★	B-1 17.0	Elastic SILT (MH)	68	46	22		

Point	Depth	D <sub>100</sub>	D <sub>90</sub>	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>10</sub>	% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines
●	B-1 6.0	0.077		0.036	0.012	0.002		0.0	0.0	0.0	0.0	0.0	62.7
■	B-1 13.0	0.077		0.06	0.054	0.027		0.0	0.0	0.0	0.0	0.0	78.8
▲	B-1 15.0	0.077		0.023	0.009	0.001		0.0	0.0	0.0	0.0	0.0	81.4
★	B-1 17.0	0.077	0.065	0.011	0.007			0.0	0.0	0.0	0.0	0.0	92.5

$$C_c = D_{30}^2 / (D_{60} * D_{10})$$

$$C_u = D_{60} / D_{10}$$

To be well graded:  $1 < C_c < 3$  and  $C_u > 4$  for GW or  $C_u > 6$  for SW

1647017.01 6/13/22 O:\1647017.01\1647017.010.GPJ GRAIN SIZE W\STATS



Little Hanaford Road  
Slide Repair  
Centralia, Washington

Grain Size Test Data

Figure  
2-1

# Cost Estimates



**Lewis County - Little Hanaford Road Slide Repair Cost Estimate**  
**Repair Alternative 1- Tied-back Soldier Pile Wall**

Landau Associates, Inc.

<b>Item</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Cost</b>
<b>Preparation</b>				
Mobilization (15%)	1	L.S.	\$133,000	\$133,000
Clearing and Grubbing	1	L.S.	\$2,000	\$2,000
Removing Drainage Structure	1	Each	\$30,000	\$30,000
High-visibility Silt Fence	400	L.F.	\$15	\$6,000
<b>Roadway Repair</b>				
Furnishing w11x97 Soldier Pile	1050	L.F.	\$200	\$210,000
Lagging	1200	S.F.	\$60	\$72,000
Permanent Ground Anchor	21	EACH	\$8,000	\$168,000
Permanent Ground Anchor Performance Test	21	EACH	\$1,000	\$21,000
Permanent Ground Anchor Verification Test	1	L.S.	\$15,000	\$15,000
Drilling 30-inch Shaft	1050	L.F.	\$150	\$157,500
Roadway Excavation, Including Haul	250	C.Y.	\$30	\$7,500
Gravel Borrow, Including Haul	1300	Ton	\$35	\$45,500
Crushed Surfacing (1.00-foot depth)	240	Ton	\$65	\$15,600
Hot-mix Asphalt Class 1/2" PG58H-22 (0.5-foot depth)	130	Ton	\$275	\$35,750
18-inch-diameter Culvert Pipe	1	L.S.	\$30,000	\$30,000
<b>Miscellaneous</b>				
Protect Existing Waterline	1	L.S.	\$50,000	\$50,000
Hydroseeding	1	L.S.	\$3,000	\$3,000
Erosion Control Supervisor Lead	20	Day	\$600	\$12,000
Spill Prevention, Control, and Countermeasure Plan	1	L.S.	\$2,500	\$2,500
			<b>Construction Subtotal</b>	<b>\$1,016,350</b>
Engineering (15% of construction - Structural, Survey, Inspection, etc.)				\$152,453
Geotechnical Engineering Design Support				\$30,000
Environmental Engineering and Permitting				\$15,000
			<b>Construction Total</b>	<b>\$1,213,803</b>

**Lewis County - Little Hanaford Road Slide Repair Cost Estimate**  
**Repair Alternative 2. Mechanically Stabilized Earth Wall**

Landau Associates Inc.

<b>Item</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Cost</b>
<b>Preparation</b>				
Mobilization (10%)	1	L.S.	\$83,000	\$83,000
Clearing and Grubbing	1	L.S.	\$2,000	\$2,000
Removing Drainage Structure	1	Each	\$30,000	\$30,000
High-visibility Silt Fence	400	L.F.	\$15	\$6,000
<b>Roadway Repair</b>				
Structure Excavation, Class A, Including Haul	3120	C.Y.	\$40	\$124,800
Shoring or Extra Excavation, Class A	1	L.S.	\$200,000	\$200,000
Gravel Borrow, Including Haul	360	Ton	\$35	\$12,600
Gravel Backfill for Structural Earth Wall	3360	Ton	\$40	\$134,400
Geosynthetic Retaining Wall	2040	S.F.	\$35	\$71,400
Concrete fascia Panel for Geosynthetic Wall	2040	S.F.	\$50	\$102,000
Crushed Surfacing (1.00-foot depth)	240	Ton	\$65	\$15,600
Hot-mix asphalt Class 1/2" PG58H-22	130	Ton	\$275	\$35,750
18-inch-diameter Culvert Pipe	1	L.S.	\$30,000	\$30,000
<b>Miscellaneous</b>				
Protect Existing Waterline	1	L.S.	\$50,000	\$50,000
Hydroseeding	1	L.S.	\$3,000	\$3,000
Erosion Control Supervisor Lead	20	Day	\$600	\$12,000
Spill Prevention, Control, and Countermeasure Plan	1	L.S.	\$2,500	\$2,500
			<b>Construction Subtotal</b>	<b>\$915,050</b>
Engineering (15% of construction - Structural, Survey, Inspection, etc.)				\$137,258
Geotechnical Engineering Design Support				\$30,000
Environmental Engineering and Permitting				\$15,000
			<b>Construction Total</b>	<b>\$1,097,308</b>

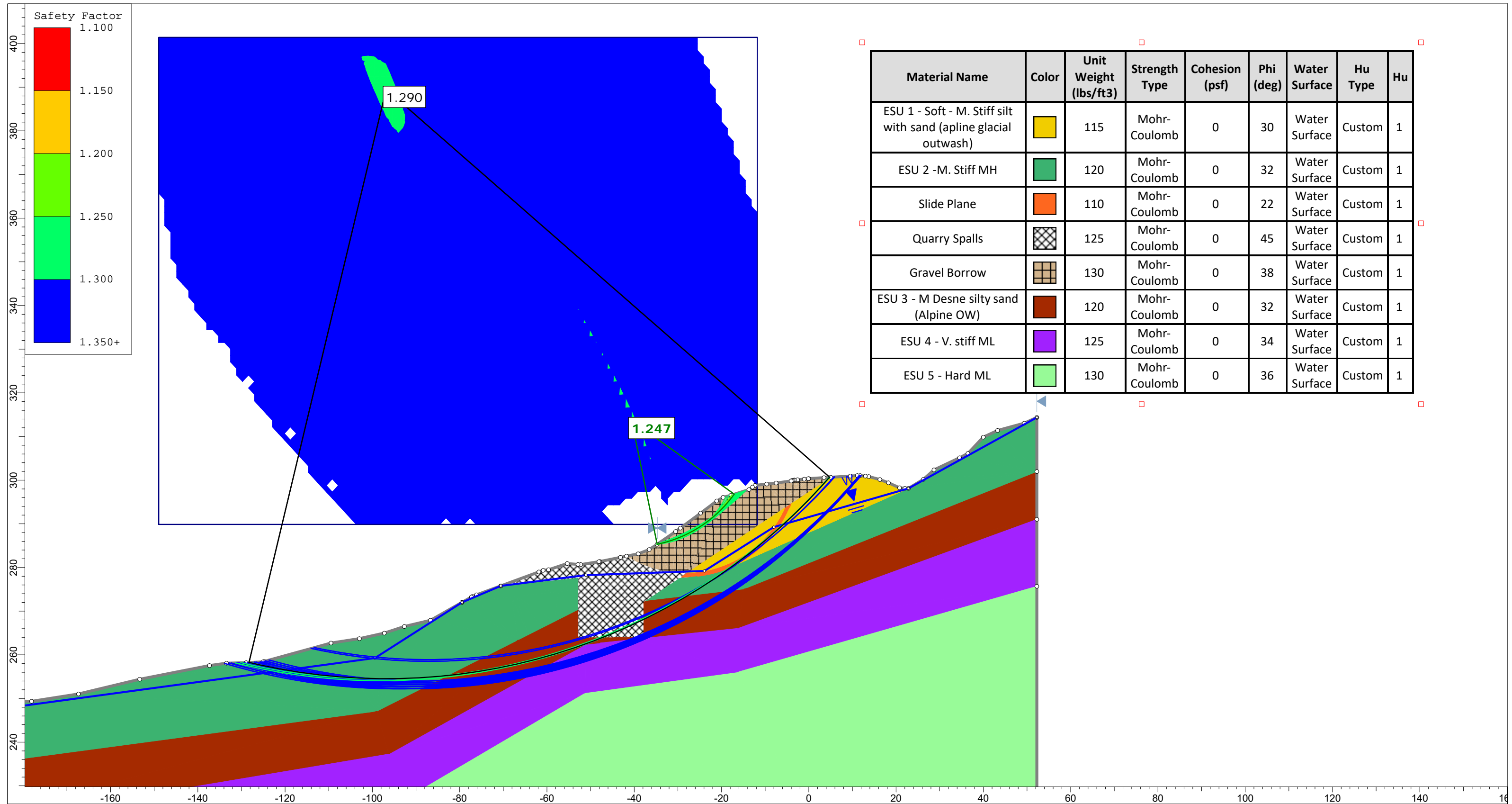
**Lewis County - Little Hanaford Road Slide Repair Cost Estimate**

Landau Associates Inc.

**Repair Alternative 3- Infill Buttress/shear key**

<b>Item</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Cost</b>
<b>Preparation</b>				
Mobilization (10%)	1	L.S.	\$56,000	\$56,000
Clearing and Grubbing	1	L.S.	\$2,000	\$2,000
Removing Drainage Structure	1	Each	\$30,000	\$30,000
High-visibility Silt Fence	400	L.F.	\$15	\$6,000
<b>Roadway Repair</b>				
Structure Excavation Class B, Including Haul	500	C.Y.	\$40	\$20,000
Roadway Excavation, Including Haul	4000	C.Y.	\$30	\$120,000
Shoring or Extra Excavation Class B	1000	S.F.	\$25	\$25,000
Gravel Borrow, Including Haul	2376	Ton	\$35	\$83,160
Quarry Spalls, Including Haul	3060	Ton	\$40	\$122,400
Crushed Surfacing (1.00-foot depth)	240	Ton	\$65	\$15,600
Hot-mix Asphalt Class 1/2" PG58H-22	130	Ton	\$275	\$35,750
18-inch-diameter Culvert Pipe	1	L.S.	\$30,000	\$30,000
<b>Miscellaneous</b>				
Protect existing waterline	1	L.S.	\$50,000	\$50,000
Hydroseeding	1	L.S.	\$3,000	\$3,000
Erosion Control Supervisor Lead	20	Day	\$600	\$12,000
Spill Prevention, Control, and Countermeasure Plan	1	L.S.	\$2,500	\$2,500
Construction Subtotal				\$613,410
Engineering (10% of construction - Structural, Survey, Inspection, etc.)				\$61,341
Geotechnical Engineering Design Support				\$30,000
Environmental Engineering and Permitting				\$15,000
<b>Construction Total</b>				<b>\$719,751</b>

# **Final Design Configuration Stability Analysis**



Final Design Summary  
 Little Hanaford Road Slide Repair  
 Centralia, Washington

Group 1  
 Master Scenario

Figure  
 4-1



# **APPENDIX B**

## **WASHINGTON STATE PREVAILING WAGE RATES**

### **INCLUDING:**

**State Wage Rates**

**Wage Rate Supplements**

**Wage Rate Benefit Codes**





State of Washington  
 Department of Labor & Industries  
 Prevailing Wage Section - Telephone 360-902-5335  
 PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 4/17/2023

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>	<u>*Risk Class</u>
Lewis	<a href="#">Asbestos Abatement Workers</a>	Journey Level	\$56.80	<u>5D</u>	<u>1H</u>		<a href="#">View</a>
Lewis	<a href="#">Boilermakers</a>	Journey Level	\$74.29	<u>5N</u>	<u>1C</u>		<a href="#">View</a>
Lewis	<a href="#">Brick Mason</a>	Journey Level	\$66.32	<u>7E</u>	<u>1N</u>		<a href="#">View</a>
Lewis	<a href="#">Brick Mason</a>	Pointer-Caulker-Cleaner	\$66.32	<u>7E</u>	<u>1N</u>		<a href="#">View</a>
Lewis	<a href="#">Building Service Employees</a>	Janitor	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Building Service Employees</a>	Shampooer	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Building Service Employees</a>	Waxer	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Building Service Employees</a>	Window Cleaner	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Cabinet Makers (In Shop)</a>	Journey Level	\$23.17		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Carpenters</a>	Acoustical Worker	\$71.53	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Carpenters</a>	Bridge, Dock And Wharf Carpenters	\$71.53	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Carpenters</a>	Floor Layer & Floor Finisher	\$71.53	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Carpenters</a>	Journey Level	\$71.53	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Carpenters</a>	Scaffold Erector	\$71.53	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Application of all Composition Mastic	\$70.09	<u>15J</u>	<u>4U</u>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Application of all Epoxy Material	\$69.59	<u>15J</u>	<u>4U</u>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Application of all Plastic Material	\$70.09	<u>15J</u>	<u>4U</u>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Application of Sealing Compound	\$69.59	<u>15J</u>	<u>4U</u>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Application of Underlayment	\$70.09	<u>15J</u>	<u>4U</u>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Building General	\$69.59	<u>15J</u>	<u>4U</u>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Composition or Kalman Floors	\$70.09	<u>15J</u>	<u>4U</u>		<a href="#">View</a>

Lewis	<a href="#">Cement Masons</a>	Concrete Paving	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Curb & Gutter Machine	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Curb & Gutter, Sidewalks	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Curing Concrete	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Finish Colored Concrete	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Floor Grinding	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Floor Grinding/Polisher	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Green Concrete Saw, self-powered	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Grouting of all Plates	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Grouting of all Tilt-up Panels	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Gunite Nozzleman	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Hand Powered Grinder	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Journey Level	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Patching Concrete	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Pneumatic Power Tools	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Power Chipping & Brushing	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Sand Blasting Architectural Finish	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Screed & Rodding Machine	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Spackling or Skim Coat Concrete	\$69.59	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Troweling Machine Operator	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Troweling Machine Operator on Colored Slabs	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Cement Masons</a>	Tunnel Workers	\$70.09	<a href="#">15J</a>	<a href="#">4U</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$126.05	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Dive Supervisor/Master	\$89.94	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Diver	\$126.05	<a href="#">15J</a>	<a href="#">4C</a>	<a href="#">8V</a>	<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Diver On Standby	\$84.94	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Diver Tender	\$77.16	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$89.09	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$94.09	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$107.09	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$103.09	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$105.59	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>

Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$110.59	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$112.59	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$114.59	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$116.59	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Manifold Operator	\$77.16	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Manifold Operator Mixed Gas	\$82.16	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Remote Operated Vehicle Operator/Technician	\$77.16	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Divers &amp; Tenders</a>	Remote Operated Vehicle Tender	\$71.98	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Dredge Workers</a>	Assistant Engineer	\$76.56	<a href="#">5D</a>	<a href="#">3F</a>		<a href="#">View</a>
Lewis	<a href="#">Dredge Workers</a>	Assistant Mate (Deckhand)	\$75.97	<a href="#">5D</a>	<a href="#">3F</a>		<a href="#">View</a>
Lewis	<a href="#">Dredge Workers</a>	Boatmen	\$76.56	<a href="#">5D</a>	<a href="#">3F</a>		<a href="#">View</a>
Lewis	<a href="#">Dredge Workers</a>	Engineer Welder	\$78.03	<a href="#">5D</a>	<a href="#">3F</a>		<a href="#">View</a>
Lewis	<a href="#">Dredge Workers</a>	Leverman, Hydraulic	\$79.59	<a href="#">5D</a>	<a href="#">3F</a>		<a href="#">View</a>
Lewis	<a href="#">Dredge Workers</a>	Mates	\$76.56	<a href="#">5D</a>	<a href="#">3F</a>		<a href="#">View</a>
Lewis	<a href="#">Dredge Workers</a>	Oiler	\$75.97	<a href="#">5D</a>	<a href="#">3F</a>		<a href="#">View</a>
Lewis	<a href="#">Drywall Applicator</a>	Journey Level	\$71.53	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Drywall Tapers</a>	Journey Level	\$70.61	<a href="#">5P</a>	<a href="#">1E</a>		<a href="#">View</a>
Lewis	<a href="#">Electrical Fixture Maintenance Workers</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Inside</a>	Cable Splicer	\$86.25	<a href="#">5C</a>	<a href="#">1G</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Inside</a>	Journey Level	\$80.57	<a href="#">5C</a>	<a href="#">1G</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Inside</a>	Lead Covered Cable Splicer	\$91.94	<a href="#">5C</a>	<a href="#">1G</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Inside</a>	Welder	\$86.25	<a href="#">5C</a>	<a href="#">1G</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Motor Shop</a>	Craftsman	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Motor Shop</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Cable Splicer	\$93.00	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Certified Line Welder	\$85.42	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Groundperson	\$55.27	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Heavy Line Equipment Operator	\$85.42	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Journey Level Lineperson	\$85.42	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Line Equipment Operator	\$73.35	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Meter Installer	\$55.27	<a href="#">5A</a>	<a href="#">4D</a>	<a href="#">8W</a>	<a href="#">View</a>

Lewis	<a href="#">Electricians - Powerline Construction</a>	Pole Sprayer	\$85.42	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electricians - Powerline Construction</a>	Powderperson	\$63.50	<a href="#">5A</a>	<a href="#">4D</a>		<a href="#">View</a>
Lewis	<a href="#">Electronic Technicians</a>	Journey Level	\$51.14	<a href="#">6Z</a>	<a href="#">1B</a>		<a href="#">View</a>
Lewis	<a href="#">Elevator Constructors</a>	Mechanic	\$107.49	<a href="#">7D</a>	<a href="#">4A</a>		<a href="#">View</a>
Lewis	<a href="#">Elevator Constructors</a>	Mechanic In Charge	\$116.13	<a href="#">7D</a>	<a href="#">4A</a>		<a href="#">View</a>
Lewis	<a href="#">Fabricated Precast Concrete Products</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Fabricated Precast Concrete Products</a>	Journey Level - In-Factory Work Only	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Fence Erectors</a>	Fence Erector	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Fence Erectors</a>	Fence Laborer	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Flaggers</a>	Journey Level	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Glaziers</a>	Journey Level	\$75.91	<a href="#">7L</a>	<a href="#">1Y</a>		<a href="#">View</a>
Lewis	<a href="#">Heat &amp; Frost Insulators And Asbestos Workers</a>	Journey Level	\$84.84	<a href="#">15H</a>	<a href="#">11C</a>		<a href="#">View</a>
Lewis	<a href="#">Heating Equipment Mechanics</a>	Journey Level	\$94.11	<a href="#">7F</a>	<a href="#">1E</a>		<a href="#">View</a>
Lewis	<a href="#">Hod Carriers &amp; Mason Tenders</a>	Journey Level	\$59.85	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Industrial Power Vacuum Cleaner</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Inland Boatmen</a>	Boat Operator	\$61.41	<a href="#">5B</a>	<a href="#">1K</a>		<a href="#">View</a>
Lewis	<a href="#">Inland Boatmen</a>	Cook	\$56.48	<a href="#">5B</a>	<a href="#">1K</a>		<a href="#">View</a>
Lewis	<a href="#">Inland Boatmen</a>	Deckhand	\$57.48	<a href="#">5B</a>	<a href="#">1K</a>		<a href="#">View</a>
Lewis	<a href="#">Inland Boatmen</a>	Deckhand Engineer	\$58.81	<a href="#">5B</a>	<a href="#">1K</a>		<a href="#">View</a>
Lewis	<a href="#">Inland Boatmen</a>	Launch Operator	\$58.89	<a href="#">5B</a>	<a href="#">1K</a>		<a href="#">View</a>
Lewis	<a href="#">Inland Boatmen</a>	Mate	\$57.31	<a href="#">5B</a>	<a href="#">1K</a>		<a href="#">View</a>
Lewis	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Cleaner Operator, Foamer Operator	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Grout Truck Operator	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Head Operator	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Technician	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Tv Truck Operator	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Insulation Applicators</a>	Journey Level	\$71.53	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Ironworkers</a>	Journeyman	\$83.79	<a href="#">7N</a>	<a href="#">1O</a>		<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Air, Gas Or Electric Vibrating Screed	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Airtrac Drill Operator	\$58.56	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Ballast Regular Machine	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Batch Weighman	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>

Lewis	<a href="#">Laborers</a>	Brick Pavers	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Brush Cutter	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Brush Hog Feeder	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Burner	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Caisson Worker	\$58.56	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Carpenter Tender	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Cement Dumper-paving	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Cement Finisher Tender	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Change House Or Dry Shack	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Chipping Gun (30 Lbs. And Over)	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Chipping Gun (Under 30 Lbs.)	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Choker Setter	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Chuck Tender	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Clary Power Spreader	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Clean-up Laborer	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Concrete Dumper/Chute Operator	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Concrete Form Stripper	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Concrete Placement Crew	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Concrete Saw Operator/Core Driller	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Crusher Feeder	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Curing Laborer	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Demolition: Wrecking & Moving (Incl. Charred Material)	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Ditch Digger	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Diver	\$58.56	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Drill Operator (Hydraulic, Diamond)	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Dry Stack Walls	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Dump Person	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Epoxy Technician	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Erosion Control Worker	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Faller & Bucker Chain Saw	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Fine Graders	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Firewatch	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Form Setter	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Gabian Basket Builders	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	General Laborer	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Grade Checker & Transit Person	\$59.85	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Grinders	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Grout Machine Tender	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Groutmen (Pressure) Including Post Tension	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>

		Beams					
Lewis	<a href="#">Laborers</a>	Guardrail Erector	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Hazardous Waste Worker (Level A)	\$58.56	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Hazardous Waste Worker (Level B)	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Hazardous Waste Worker (Level C)	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	High Scaler	\$58.56	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Jackhammer	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Laserbeam Operator	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Maintenance Person	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Manhole Builder-Mudman	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Material Yard Person	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Mold Abatement Worker	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Motorman-Dinky Locomotive	\$59.95	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	nozzleman (concrete pump, green cutter when using combination of high pressure air & water on concrete & rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster)	\$59.85	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pavement Breaker	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pilot Car	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pipe Layer (Lead)	\$59.85	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pipe Layer/Tailor	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pipe Pot Tender	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pipe Reliner	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pipe Wrapper	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Pot Tender	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Powderman	\$58.56	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Powderman's Helper	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Power Jacks	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Railroad Spike Puller - Power	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Raker - Asphalt	\$59.85	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Re-timberman	\$58.56	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Remote Equipment Operator	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Rigger/Signal Person	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Rip Rap Person	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Rivet Buster	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Rodder	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Scaffold Erector	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Scale Person	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Sloper (Over 20")	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Sloper Sprayer	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>

Lewis	<a href="#">Laborers</a>	Spreader (Concrete)	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Stake Hopper	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Stock Piler	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Swinging Stage/Boatswain Chair	\$48.14	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tamper & Similar Electric, Air & Gas Operated Tools	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tamper (Multiple & Self-propelled)	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Timber Person - Sewer (Lagger, Shorer & Cribber)	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Toolroom Person (at Jobsite)	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Topper	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Track Laborer	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Track Liner (Power)	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Traffic Control Laborer	\$51.48	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9C</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Traffic Control Supervisor	\$54.55	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9C</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Truck Spotter	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tugger Operator	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 0-30 psi	\$158.87	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$163.90	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$167.58	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$173.28	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$175.40	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$180.50	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$182.40	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$184.40	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$186.40	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">9B</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Guage and Lock Tender	\$59.95	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Tunnel Work-Miner	\$59.95	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Vibrator	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Vinyl Seamer	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Watchman	\$43.76	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Welder	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Well Point Laborer	\$57.84	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers</a>	Window Washer/Cleaner	\$43.76	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Laborers - Underground Sewer &amp; Water</a>	General Laborer & Topman	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>

Lewis	<a href="#">Laborers - Underground Sewer &amp; Water</a>	Pipe Layer	\$57.84	<u>15J</u>	<u>4V</u>	<u>8Y</u>	<a href="#">View</a>
Lewis	<a href="#">Landscape Construction</a>	Landscape Construction/Landscaping Or Planting Laborers	\$43.76	<u>15J</u>	<u>4V</u>	<u>8Y</u>	<a href="#">View</a>
Lewis	<a href="#">Landscape Construction</a>	Landscape Operator	\$74.83	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Landscape Maintenance</a>	Groundskeeper	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Lathers</a>	Journey Level	\$71.53	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Marble Setters</a>	Journey Level	\$66.32	<u>7E</u>	<u>1N</u>		<a href="#">View</a>
Lewis	<a href="#">Metal Fabrication (In Shop)</a>	Fitter	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Metal Fabrication (In Shop)</a>	Laborer	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Metal Fabrication (In Shop)</a>	Machine Operator	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Metal Fabrication (In Shop)</a>	Painter	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Metal Fabrication (In Shop)</a>	Welder	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Millwright</a>	Journey Level	\$73.08	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Cabinet Assembly	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Electrician	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Equipment Maintenance	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Plumber	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Production Worker	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Tool Maintenance	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Utility Person	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Modular Buildings</a>	Welder	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Painters</a>	Journey Level	\$49.46	<u>6Z</u>	<u>11J</u>		<a href="#">View</a>
Lewis	<a href="#">Pile Driver</a>	Crew Tender	\$77.16	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Pile Driver</a>	Journey Level	\$71.98	<u>15J</u>	<u>4C</u>		<a href="#">View</a>
Lewis	<a href="#">Plasterers</a>	Journey Level	\$67.49	<u>7Q</u>	<u>1R</u>		<a href="#">View</a>
Lewis	<a href="#">Plasterers</a>	Nozzleman	\$71.49	<u>7Q</u>	<u>1R</u>		<a href="#">View</a>
Lewis	<a href="#">Playground &amp; Park Equipment Installers</a>	Journey Level	\$15.74		<u>1</u>		<a href="#">View</a>
Lewis	<a href="#">Plumbers &amp; Pipefitters</a>	Journey Level	\$84.72	<u>5A</u>	<u>1G</u>		<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Asphalt Plant Operator	\$76.08	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Assistant Engineer	\$72.22	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Barrier Machine (zipper)	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Batch Plant Operator: Concrete	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Bobcat	\$71.57	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Brokk - Remote Demolition Equipment	\$71.57	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Brooms	\$71.57	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Bump Cutter	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cableways	\$76.08	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Chipper	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Compressor	\$71.57	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$76.08	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>



Lewis	<a href="#">Power Equipment Operators</a>	Concrete Finish Machine - laser Screed	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Conveyors	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes Friction: 200 tons and over	\$79.13	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes, A-frame: 10 tons and under	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$77.56	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes: 20 tons through 44 tons with attachments	\$76.11	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$78.36	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$79.13	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes: Friction cranes through 199 tons	\$78.36	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Crusher	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Deck Engineer/deck Winches (power)	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Derricks: on building work	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Dozers D-9 & Under	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Drilling Machine	\$76.85	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Elevator and man-lift: permanent and shaft type	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Forklift: 3000 lbs and over with attachments	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Forklifts: under 3000 lbs. with attachments	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>

Lewis	<a href="#">Power Equipment Operators</a>	Grade Engineer: Using Blueprints, Cut Sheets,etc.	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Gradechecker/stakeman	\$71.57	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Guardrail punch/Auger	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$76.08	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Horizontal/directional Drill Locator	\$74.83	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Horizontal/directional Drill Operator	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Hydralifts/boom trucks: 10 tons and under	\$72.22	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Hydralifts/boom trucks: over 10 tons	\$75.53	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Loader, Overhead 8 Yards. & Over	\$76.85	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$76.08	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Loaders, Overhead Under 6 Yards	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Loaders, Plant Feed	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Loaders: Elevating Type Belt	\$74.83	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Locomotives, All	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Material Transfer Device	\$75.41	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$77.56	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Motor patrol graders	\$76.08	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$76.08	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$71.57	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	\$75.53	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Overhead, bridge type Crane: 20 tons through 44 tons	\$76.11	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Overhead, bridge type: 100 tons and over	\$77.56	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Overhead, bridge type: 45 tons through 99 tons	\$76.79	<u>7A</u>	<u>11H</u>	<u>8X</u>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Pavement Breaker	\$71.57	<u>15J</u>	<u>3K</u>	<u>8X</u>	<a href="#">View</a>

Lewis	<a href="#">Power Equipment Operators</a>	Pile Driver (other Than Crane Mount)	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Plant Oiler - Asphalt, Crusher	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Posthole Digger, Mechanical	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Power Plant	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Pumps - Water	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Quad 9, HD 41, D10 And Over	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Quick Tower: no cab, under 100 feet in height based to boom	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Rigger and Bellman	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Rigger/Signal Person, Bellman(Certified)	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Rollagon	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Roller, Other Than Plant Mix	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Roller, Plant Mix Or Multi-lift Materials	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Roto-mill, Roto-grinder	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Saws - Concrete	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Scraper, Self Propelled Under 45 Yards	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Scrapers - Concrete & Carry All	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Scrapers, Self-propelled: 45 Yards And Over	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Service Engineers: equipment	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Shotcrete/gunite Equipment	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$76.85	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$77.63	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Slipform Pavers	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>

Lewis	<a href="#">Power Equipment Operators</a>	Spreader, Topsider & Screedman	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Subgrader Trimmer	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Tower Bucket Elevators	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Tower Crane: over 175' through 250' in height, base to boom	\$78.36	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Tower crane: up to 175' in height base to boom	\$77.56	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Tower Cranes: over 250' in height from base to boom.	\$79.13	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Transporters, All Track Or Truck Type	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Trenching Machines	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Truck Crane Oiler/Driver: 100 tons and over	\$76.11	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Truck crane oiler/driver: under 100 tons	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Truck Mount Portable Conveyor	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Vac Truck (Vactor Guzzler, Hydro Excavator)	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Welder	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Wheel Tractors, Farmall Type	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators</a>	Yo Yo Pay Dozer	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Asphalt Plant Operator	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Assistant Engineer	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Barrier Machine (zipper)	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Batch Plant Operator: Concrete	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Bobcat	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Brokk - Remote Demolition Equipment	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Brooms	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Bump Cutter	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground</a>	Cableways	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>

	<a href="#">Sewer &amp; Water</a>						
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Chipper	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Compressor	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Concrete Finish Machine - laser Screed	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Conveyors	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes Friction: 200 tons and over	\$79.13	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes, A-frame: 10 tons and under	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$77.56	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes: 20 tons through 44 tons with attachments	\$76.11	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$78.36	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$79.13	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes: Friction cranes through 199 tons	\$78.36	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground</a>	Crusher	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>

	<a href="#">Sewer &amp; Water</a>						
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Deck Engineer/deck Winches (power)	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Derricks: on building work	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Dozers D-9 & Under	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Drilling Machine	\$76.85	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Elevator and man-lift: permanent and shaft type	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Forklift: 3000 lbs and over with attachments	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Forklifts: under 3000 lbs. with attachments	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Grade Engineer: Using Blueprints, Cut Sheets,etc.	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Gradechecker/stakeman	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Guardrail punch/Auger	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Horizontal/directional Drill Locator	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Horizontal/directional Drill Operator	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Hydralifts/boom trucks: 10 tons and under	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground</a>	Hydralifts/boom trucks: over 10 tons	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>

	<a href="#">Sewer &amp; Water</a>						
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Loader, Overhead 8 Yards. & Over	\$76.85	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Loaders, Overhead Under 6 Yards	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Loaders, Plant Feed	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Loaders: Elevating Type Belt	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Locomotives, All	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Material Transfer Device	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$77.56	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Motor patrol graders	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Overhead, bridge type Crane: 20 tons through 44 tons	\$76.11	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Overhead, bridge type: 100 tons and over	\$77.56	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Overhead, bridge type: 45 tons through 99 tons	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Pavement Breaker	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Pile Driver (other Than Crane Mount)	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Plant Oiler - Asphalt, Crusher	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>

Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Posthole Digger, Mechanical	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Power Plant	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Pumps - Water	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Quad 9, HD 41, D10 And Over	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Quick Tower: no cab, under 100 feet in height based to boom	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Rigger and Bellman	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Rigger/Signal Person, Bellman(Certified)	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Rollagon	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Roller, Other Than Plant Mix	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Roller, Plant Mix Or Multi-lift Materials	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Roto-mill, Roto-grinder	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Saws - Concrete	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Scraper, Self Propelled Under 45 Yards	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Scrapers - Concrete & Carry All	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Scrapers, Self-propelled: 45 Yards And Over	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Service Engineers: equipment	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Shotcrete/gunite Equipment	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>



Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$76.85	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Slipform Pavers	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Spreader, Toppers & Screedman	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Subgrader Trimmer	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Tower Bucket Elevators	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Tower Crane: over 175' through 250' in height, base to boom	\$78.36	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Tower crane: up to 175' in height base to boom	\$77.56	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Tower Cranes: over 250' in height from base to boom.	\$79.13	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Transporters, All Track Or Truck Type	\$76.08	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Trenching Machines	\$74.83	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Truck Crane Oiler/Driver: 100 tons and over	\$76.11	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Truck crane oiler/driver: under 100 tons	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Truck Mount Portable Conveyor	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Vac Truck (Vactor Guzzler, Hydro Excavator)	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Welder	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>

Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Wheel Tractors, Farmall Type	\$71.57	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Equipment Operators- Underground Sewer &amp; Water</a>	Yo Yo Pay Dozer	\$75.41	<a href="#">15J</a>	<a href="#">3K</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Power Line Clearance Tree Trimmers</a>	Journey Level In Charge	\$57.22	<a href="#">5A</a>	<a href="#">4A</a>		<a href="#">View</a>
Lewis	<a href="#">Power Line Clearance Tree Trimmers</a>	Spray Person	\$54.32	<a href="#">5A</a>	<a href="#">4A</a>		<a href="#">View</a>
Lewis	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Equipment Operator	\$57.22	<a href="#">5A</a>	<a href="#">4A</a>		<a href="#">View</a>
Lewis	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer	\$51.18	<a href="#">5A</a>	<a href="#">4A</a>		<a href="#">View</a>
Lewis	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer Groundperson	\$38.99	<a href="#">5A</a>	<a href="#">4A</a>		<a href="#">View</a>
Lewis	<a href="#">Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$85.71	<a href="#">5A</a>	<a href="#">1G</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Brick Mason</a>	Journey Level	\$21.96		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Carpenters</a>	Journey Level	\$24.89		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Cement Masons</a>	Journey Level	\$16.79		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Drywall Applicators</a>	Journey Level	\$36.07		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Drywall Tapers</a>	Journey Level	\$24.48		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Electricians</a>	Journey Level	\$43.03	<a href="#">6Z</a>	<a href="#">1B</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Glaziers</a>	Journey Level	\$25.40		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Insulation Applicators</a>	Journey Level	\$28.53		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Laborers</a>	Journey Level	\$23.10		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Marble Setters</a>	Journey Level	\$21.96		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Painters</a>	Journey Level	\$18.76		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Plumbers &amp; Pipefitters</a>	Journey Level	\$26.35		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$32.89		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Sheet Metal Workers</a>	Journey Level	\$33.28		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Soft Floor Layers</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$20.28		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Stone Masons</a>	Journey Level	\$21.96		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Terrazzo Workers</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Terrazzo/Tile Finishers</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Residential Tile Setters</a>	Journey Level	\$15.74		<a href="#">1</a>		<a href="#">View</a>
Lewis	<a href="#">Roofers</a>	Journey Level	\$60.90	<a href="#">5A</a>	<a href="#">2O</a>		<a href="#">View</a>
Lewis	<a href="#">Roofers</a>	Using Irritable Bituminous Materials	\$63.90	<a href="#">5A</a>	<a href="#">2O</a>		<a href="#">View</a>
Lewis	<a href="#">Sheet Metal Workers</a>	Journey Level (Field or Shop)	\$94.11	<a href="#">7F</a>	<a href="#">1E</a>		<a href="#">View</a>

Lewis	<a href="#">Sign Makers &amp; Installers (Electrical)</a>	Journey Level	\$18.04		1		<a href="#">View</a>
Lewis	<a href="#">Sign Makers &amp; Installers (Non-Electrical)</a>	Journey Level	\$56.80	<a href="#">15J</a>	<a href="#">4V</a>	<a href="#">8Y</a>	<a href="#">View</a>
Lewis	<a href="#">Soft Floor Layers</a>	Journey Level	\$62.39	<a href="#">15J</a>	<a href="#">4C</a>		<a href="#">View</a>
Lewis	<a href="#">Solar Controls For Windows</a>	Journey Level	\$15.74		1		<a href="#">View</a>
Lewis	<a href="#">Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$70.52	<a href="#">7J</a>	<a href="#">1R</a>		<a href="#">View</a>
Lewis	<a href="#">Stage Rigging Mechanics (Non Structural)</a>	Journey Level	\$15.74		1		<a href="#">View</a>
Lewis	<a href="#">Stone Masons</a>	Journey Level	\$66.32	<a href="#">7E</a>	<a href="#">1N</a>		<a href="#">View</a>
Lewis	<a href="#">Street And Parking Lot Sweeper Workers</a>	Journey Level	\$16.00		1		<a href="#">View</a>
Lewis	<a href="#">Surveyors</a>	Assistant Construction Site Surveyor	\$75.53	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Surveyors</a>	Chainman	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Surveyors</a>	Construction Site Surveyor	\$76.79	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Surveyors</a>	Drone Operator (when used in conjunction with surveying work only)	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Surveyors</a>	Ground Penetrating Radar	\$72.22	<a href="#">7A</a>	<a href="#">11H</a>	<a href="#">8X</a>	<a href="#">View</a>
Lewis	<a href="#">Telecommunication Technicians</a>	Journey Level	\$51.14	<a href="#">6Z</a>	<a href="#">1B</a>		<a href="#">View</a>
Lewis	<a href="#">Telephone Line Construction - Outside</a>	Cable Splicer	\$39.15	<a href="#">5A</a>	<a href="#">2B</a>		<a href="#">View</a>
Lewis	<a href="#">Telephone Line Construction - Outside</a>	Hole Digger/Ground Person	\$26.29	<a href="#">5A</a>	<a href="#">2B</a>		<a href="#">View</a>
Lewis	<a href="#">Telephone Line Construction - Outside</a>	Telephone Equipment Operator (Light)	\$32.72	<a href="#">5A</a>	<a href="#">2B</a>		<a href="#">View</a>
Lewis	<a href="#">Telephone Line Construction - Outside</a>	Telephone Lineperson	\$37.00	<a href="#">5A</a>	<a href="#">2B</a>		<a href="#">View</a>
Lewis	<a href="#">Terrazzo Workers</a>	Journey Level	\$60.36	<a href="#">7E</a>	<a href="#">1N</a>		<a href="#">View</a>
Lewis	<a href="#">Tile Setters</a>	Journey Level	\$60.36	<a href="#">7E</a>	<a href="#">1N</a>		<a href="#">View</a>
Lewis	<a href="#">Tile, Marble &amp; Terrazzo Finishers</a>	Finisher	\$51.19	<a href="#">7E</a>	<a href="#">1N</a>		<a href="#">View</a>
Lewis	<a href="#">Traffic Control Stripers</a>	Journey Level	\$51.90	<a href="#">7A</a>	<a href="#">1K</a>		<a href="#">View</a>
Lewis	<a href="#">Truck Drivers</a>	Asphalt Mix Over 16 Yards	\$71.70	<a href="#">15J</a>	<a href="#">11M</a>	<a href="#">8L</a>	<a href="#">View</a>
Lewis	<a href="#">Truck Drivers</a>	Asphalt Mix To 16 Yards	\$70.86	<a href="#">15J</a>	<a href="#">11M</a>	<a href="#">8L</a>	<a href="#">View</a>
Lewis	<a href="#">Truck Drivers</a>	Dump Truck	\$70.86	<a href="#">15J</a>	<a href="#">11M</a>	<a href="#">8L</a>	<a href="#">View</a>
Lewis	<a href="#">Truck Drivers</a>	Dump Truck & Trailer	\$71.70	<a href="#">15J</a>	<a href="#">11M</a>	<a href="#">8L</a>	<a href="#">View</a>
Lewis	<a href="#">Truck Drivers</a>	Other Trucks	\$71.70	<a href="#">15J</a>	<a href="#">11M</a>	<a href="#">8L</a>	<a href="#">View</a>
Lewis	<a href="#">Truck Drivers - Ready Mix</a>	Transit Mix	\$71.70	<a href="#">15J</a>	<a href="#">11M</a>	<a href="#">8L</a>	<a href="#">View</a>
Lewis	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Irrigation Pump Installer	\$18.18		1		<a href="#">View</a>
Lewis	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Oiler	\$15.74		1		<a href="#">View</a>
Lewis	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Well Driller	\$18.00		1		<a href="#">View</a>



**Washington State Department of Labor and Industries  
Policy Statement  
(Regarding the Production of "Standard" or "Non-standard" Items)**

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.
2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.
3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.
4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.
5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.
6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.

**WSDOT's  
Predetermined List for  
Suppliers - Manufactures - Fabricator**

Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
1. Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans		<b>X</b>
2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		<b>X</b>
3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		<b>X</b>
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		<b>X</b>
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		<b>X</b>
6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		<b>X</b>
7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		<b>X</b>

ITEM DESCRIPTION	YES	NO
8. Anchor Bolts & Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.		X
9. Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).	X	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	X	
11. Minor Structural Steel Fabrication - Fabrication of minor steel Items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contact Plans for item description and shop drawings.	X	
12. Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).		X
13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	X	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		X
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		X
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		<b>X</b>
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		<b>X</b>
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		<b>X</b>
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		<b>X</b>
21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		<b>X</b>
22. Vault Risers - For use with Valve Vaults and Utilities  X Vaults.		<b>X</b>
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		<b>X</b>
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		<b>X</b>
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	<b>X</b>	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	<b>X</b>	



ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	X	
28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	X	
32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
33. Monument Case and Cover See Std. Plan.		X

ITEM DESCRIPTION	YES	NO
34. Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
35. Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	X	
36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		X
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	X	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	X	
40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	X	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. <b>NOTE:</b> *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	X	X
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		X
44. Guardrail components	X	X
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		X
48. Electrical wiring/components		X
49. treated or untreated timber pile		X
50. Girder pads (elastomeric bearing)	X	
51. Standard Dimension lumber		X
52. Irrigation components		X

ITEM DESCRIPTION	YES	NO
53. Fencing materials		X
54. Guide Posts		X
55. Traffic Buttons		X
56. Epoxy		X
57. Cribbing		X
58. Water distribution materials		X
59. Steel "H" piles		X
60. Steel pipe for concrete pile casings		X
61. Steel pile tips, standard		X
62. Steel pile tips, custom	X	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010](#)(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

## **WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects**

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.

The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.

When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential \*\*\* ALL ASSOCIATED RATES \*\*\*
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

**Washington State Department of Labor and Industries  
Policy Statements  
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)**

**WAC 296-127-018 Agency filings affecting this section**

**Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.**

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]





Benefit Code Key – Effective 3/3/2023 thru 8/30/2023

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**Overtime Codes**

**Overtime calculations** are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
  - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
  - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
  - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
  - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

**Overtime Codes Continued**

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

**Overtime Codes Continued**

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
- F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
- M. This code appears to be missing. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
- O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.

3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

- F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
- H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
- J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

**Overtime Codes Continued**

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

- A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage
- C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.
- D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.  
  
On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

**Overtime Codes Continued**

4. J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.
- K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.
- L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.
- U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- S. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, work performed in excess of (10) hours shall be paid at one and one half (1-1/2) times the hourly rate of pay. On Monday through Friday, work performed outside the normal work hours of 6:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations).

All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Multiple Shift Operations: When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. Special Shifts: The Special Shift Premium is the basic hourly rate of pay plus \$2.00 an hour. When due to conditions beyond the control of the employer or when an owner (not acting as the contractor), a government agency or the contract specifications require more than four (4) hours of a special shift can only be performed outside the normal 6am to 6pm shift then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid the special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday).

**Overtime Codes Continued**

4. V. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established or outside the normal shift (5 am to 6pm), and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

In the event the job is down due to weather conditions, then Saturday may, be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

- X. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

11. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

- B After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

- C The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage. All non-overtime and non-holiday hours worked between 4:00 pm and 5:00 am, Monday through Friday, shall be paid at a premium rate of 15% over the hourly rate of wage.

**Overtime Codes Continued**

11. D. All hours worked on Saturdays and holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
- E. The first two (2) hours after eight (8) regular hours Monday through Friday, the first ten (10) hours on Saturday, and the first ten (10) hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, and Sundays shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
- F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one-half times the hourly rate of wage for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- G. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.
- All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of nine (9) hours or more. When an employee returns to work without at least nine (9) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the nine (9) hours rest period.
- H. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.
- All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of ten (10) hours or more. When an employee returns to work without at least ten (10) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the ten (10) hours rest period.

**Overtime Codes Continued**

11. J. All hours worked on holidays shall be paid at double the hourly rate of wage.
- K. On Monday through Friday hours worked outside 4:00 am and 5:00 pm, and the first two (2) hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked over 10 hours per day Monday through Friday, and all hours worked on Saturdays, Sundays, and Holidays worked shall be paid at double the hourly rate of wage.
- L. An employee working outside 5:00 am and 5:00 pm shall receive an additional two dollar (\$2.00) per hour for all hours worked that shift. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
- M. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay.
- Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. When due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift of 5:00 am to 6:00 pm, then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shift shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten shifts.
- On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay. All work performed after 6:00 pm Saturday to 5:00 am Monday, all work performed over twelve (12) hours, and all work performed on holidays shall be paid at double the straight time rate of pay.
- Shift Pay Premium: In an addition to any overtime already required, all hours worked between the hours of 6:00 pm and 5:00 am shall receive an additional two dollars (\$2.00) per hour.
- N. All work performed over twelve hours in a shift and all work performed on Sundays and Holidays shall be paid at double the straight time rate.
- Any time worked over eight (8) hours on Saturday shall be paid double the straight time rate, except employees assigned to work six 10-hour shifts per week shall be paid double the straight time rate for any time worked on Saturday over 10 hours.



Benefit Code Key – Effective 3/3/2023 thru 8/30/2023

**Holiday Codes**

- 5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- 6. G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).
- H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).

Benefit Code Key – Effective 3/3/2023 thru 8/30/2023

**Holiday Codes Continued**

6. T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**Holiday Codes Continued**

7. J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.
- X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.
- Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, Christmas Eve, and Christmas Day (9). Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday. Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

**Holiday Codes Continued**

15. G. New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, the last scheduled workday before Christmas, and Christmas Day (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

**Note Codes**

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

**Note Codes Continued**

8. U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.
- V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.
- Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.
- Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.
- W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.
- X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, and Class D Suit: \$0.50. Special Shift Premium: Basic hourly rate plus \$2.00 per hour.
- When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)
- Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.
- Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.
- Z. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

**Note Codes Continued**

9. A. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.

Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid \$0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

(A) – 130’ to 199’ – \$0.50 per hour over their classification rate.

(B) – 200’ to 299’ – \$0.80 per hour over their classification rate.

(C) – 300’ and over – \$1.00 per hour over their classification rate.

- B. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

- C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.

- D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

- E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.

- F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

**Note Codes Continued**

9. H. One (1) person crew shall consist of a Party Chief. (Total Station or similar one (1) person survey system). Two (2) person survey party shall consist of a least a Party Chief and a Chain Person. Three (3) person survey party shall consist of at least a Party Chief, an Instrument Person, and a Chain Person.





# APPENDIX C

## FEDERAL CONTRACT PROVISIONS



## **STATE AND FEDERAL LAWS TO BE OBSERVED**

The APPLICANT must comply with all state and federal laws in performing all tasks undertaken with respect to the Public Assistance Program. The following sections are included for informational purposes and are not professed to include all relevant laws. It is the APPLICANT's responsibility to comply with all federal, state, and local laws.

- 1. EQUAL EMPLOYMENT OPPORTUNITY** – All contracts shall contain a provision requiring compliance with E.O. 11246, "Equal Employment Opportunity," as amended by E.O. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and as supplemented by regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."
- 2. COPELAND "ANTI-KICKBACK" ACT (18 U.S.C. 874 AND 40 U.S.C. 276c)** – All contracts and subgrants in excess of \$2,000 for construction or repair awarded by recipients and subrecipients shall include a provision for compliance with the Copeland "Anti-Kickback" Act (18 U.S.C. 874), as supplemented by Department of Labor regulations (29 CFR part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient shall be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he is otherwise entitled. The recipient shall report all suspected or reported violations to the Federal awarding agency.
- 3. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (40 U.S.C 327-333)** – Where applicable, all contracts awarded by recipients in excess of \$2,000 for construction contracts and in excess of \$2,500 for other contracts that involve the employment of mechanics or laborers shall include a provision for compliance with Sections 102 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333), as supplemented by Department of Labor regulations (29 CFR part 5). Under Section 102 of the Act, each contractor shall be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than 1 ½ times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Section 107 of the Act is applicable to construction work and provides that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous.  
  
These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
- 4. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT** – Contracts or agreements for the performance of experimental, developmental, or research work shall provide for the rights of the Federal Government and the recipient in any resulting invention in accordance with 37 CFR part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.
- 5. CLEAN AIR ACT (42 U.S.C. 7401 et seq.) AND THE FEDERAL WATER POLLUTION CONTROL ACT(33 U.S.C. 1251 et seq.), as amended** – Contractors and subgrants of amounts in excess of \$100,000 shall contain a provision that requires the recipient to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean

Air Act (42 U.S.C. 7401 et seq.) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq.) Violations shall be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

- 6. BYRD ANTI-LOBBYING AMENDMENT (31 U.S.C. 1352)** – Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose any lobbying in non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.
- 7. DEBARMENT AND SUSPENSION (E.O.s 12549 and 12689)** – No contract shall be made to parties listed on the General Services Administration’s List of Parties Excluded from Federal Procurement or Nonprocurement Programs in accordance with E.O.s 12549 and 12689, “Debarment and Suspension.” This list contains the names of parties debarred, suspended, or otherwise excluded by agencies, and contractors declared ineligible under statutory or regulatory authority other than E.O. 12549. Contractors with awards that exceed the small purchase threshold shall provide the required certification regarding its exclusion status and that of its principal employees.
- 8. PUBLIC LAW 88-352, TITLE VI OF THE CIVIL RIGHTS ACT OF 1964(42 U.S.C. 2000d et seq.) (24 CFR Part 1).** The APPLICANT must comply with the provisions of "Public Law 88-352," which refers to Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.). The law provides that no person in the United States shall, on the grounds of race, color or national origin, be denied the benefits of, be excluded from participation in, or be subjected to discrimination under any program or activity receiving federal financial assistance.
- 9. SECTION 504 OF THE REHABILITATION ACT, 1973, AS AMENDED (29 U.S.C. 794).** The APPLICANT must comply with Section 504 of the Rehabilitation Act of 1973, as amended, which provides that no otherwise qualified individual shall, solely by reason of his or her disability, be excluded from participation (including employment), denied program benefits or be subjected to discrimination under any program or activity receiving federal assistance funds.
- 10. AMERICANS WITH DISABILITIES ACT (42 U.S.C. 12101, et seq.)** The APPLICANT shall comply with the provisions of the Americans with Disabilities Act, 42 U.S.C. 12101, et. seq. That Act provides a comprehensive national mandate to eliminate discrimination against individuals with disabilities. The Act may impose requirements on the APPLICANT in four principle ways: 1) with respect to employment; 2) with respect to the provision of public services; 3) with respect to transportation; 4) with respect to existing facilities and new construction.
- 11. THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 (NEPA) (42 U.S.C Section 4321 et seq., and 24 CFR Part 58).** The APPLICANT shall comply with the provisions of the National Environmental Policy Act of 1969. The purpose of this Act is to attain the widest use of the environment without degradation, risk to health or safety, or other undesirable and unintended consequences. Environmental review procedures, including determining and publishing a Finding of Significance or of No Significance for a proposal, are a necessary part of this process. Pursuant to these provisions, the APPLICANT must also submit

environmental certifications to the DEPARTMENT when requesting that funds be released for the project. The APPLICANT must certify that the proposed project will not significantly impact the environment and that the APPLICANT has complied with environmental regulations and fulfilled its obligations to give public notice of the funding request, environmental findings and compliance performance.

- 12. EXECUTIVE ORDER 11990, MAY 24, 1977: PROTECTION OF WETLANDS (42 F.R. 26961 et seq.)** The APPLICANT shall comply with Executive Order 11990. The intent of this Executive Order is (1) to avoid, to the extent possible, adverse impacts associated with the destruction or modification of wetland, and (2) to avoid direct or indirect support of new construction in wetlands wherever there is a practical alternative. The APPLICANT, to the extent permitted by law, must avoid undertaking or providing assistance for new construction located in wetlands unless (1) there is no practical alternative to such construction, and (2) the proposed action includes all practical measures to minimize harm to wetlands which may result from such use. In making this determination, the APPLICANT may take into account economic, environmental and other pertinent factors.
- 13. EXECUTIVE ORDER 11988, MAY 24, 1977: FLOODPLAIN MANAGEMENT (42 F.R. 26951 et seq.)** The APPLICANT shall comply with the provisions of Executive Order 11988. The intent of this Executive Order is to (1) avoid, to the extent possible, adverse impacts associated with the occupancy and modification of floodplains, and (2) avoid direct or indirect support of floodplain development wherever there is a practical alternative. If the APPLICANT proposes to conduct, support or allow an action to be located in a floodplain, the APPLICANT must consider alternatives to avoid adverse effects and incompatible involvement in the floodplain. If siting in a floodplain is the only practical alternative, the APPLICANT must, prior to taking any action (1) design or modify its actions in order to minimize any potential harm to the floodplain, and (2) prepare and circulate a notice containing an explanation of why the action is proposed to be located in a floodplain.
- 14. THE WILD AND SCENIC RIVERS ACT OF 1968, AS AMENDED (16 U.S.C. 1271 et seq.)** The APPLICANT shall comply with the Wild and Scenic Rivers Act. The purpose of this Act is to preserve selected rivers or sections of rivers in their free-flowing condition, to protect the water quality of such rivers and to fulfill other vital national conservation goals. Federal assistance by loan, grant, license, or other mechanism cannot be provided to water resources construction projects that would have a direct and adverse effect on any river included or designated for study or inclusion in the National Wild and Scenic River System.
- 15. COASTAL ZONE MANAGEMENT ACT OF 1972, AS AMENDED (16 U.S.C. 1451 et seq.)** The APPLICANT shall comply with the Coastal Zone Management Act of 1972, as amended. The intent of this Act is to preserve, protect, develop, and where possible, restore or enhance the resources of the nation's coastal zone. Federal agencies cannot approve assistance for proposed projects that are inconsistent with the state's Coastal Zone Management program except upon a finding by the U.S. Secretary of Commerce that such a project is consistent with the purpose of this chapter or necessary in the interests of national security.
- 16. THE ENDANGERED SPECIES ACT OF 1973, AS AMENDED (16 U.S.C. 1531 et seq.)** The APPLICANT shall comply with the Endangered Species Act of 1973, as amended. The intent of this Act is to ensure that all federally assisted projects seek to preserve endangered or threatened species. Federally authorized and funded projects must not jeopardize the continued existence of endangered and threatened species or result

in the destruction of or modification of habitat of such species which is determined by the U.S. Department of the Interior, after consultation with the state, to be critical.

- 17. THE RESERVOIR SALVAGE ACT OF 1960, AS AMENDED BY THE ARCHAEOLOGICAL AND HISTORIC PRESERVATION ACT OF 1974 (16 U.S.C. 469 et seq.).** Under the Reservoir Salvage Act, the APPLICANT must comply with provisions for the preservation of historical and archaeological data (including relics and specimens) that might otherwise be irreparably lost or destroyed as a result of any alteration of the terrain caused as a result of any federal construction project or federally licensed activity or program. Whenever the APPLICANT finds, or is notified in writing by an appropriate historical or archaeological authority, that its activities in connection with any federal funded construction project or federally licensed project, activity or program may cause irreparable loss or destruction of significant scientific, prehistoric, historical or archaeological data, the APPLICANT must stop work immediately and must notify the U.S. Secretary of Interior and the Department in writing and provide appropriate information concerning the project or program activity.
- 18. THE ARCHAEOLOGICAL AND HISTORICAL DATA PRESERVATION ACT OF 1974 (16 U.S.C. 469 a-1 et seq.).** The APPLICANT shall comply with the Archaeological and Historical Data Preservation Act, which provides for the preservation of historic and archaeological information that would be lost due to development and construction activities as a result of federally funded activities.
- 19. THE SAFE DRINKING WATER ACT OF 1974, AS AMENDED (42 U.S.C. Section 201, 300(f) et seq., and U.S.C. Section 349).** The APPLICANT must comply with the Safe Drinking Water Act, as amended, which is intended to protect underground sources of water.  
  
No commitment for federal financial assistance, according to this Act, shall be entered into for any project, which the U.S. Environmental Protection Agency determines, may contaminate an aquifer that is the sole or principal drinking water source for an area.
- 20. THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972, AS AMENDED, INCLUDING THE CLEAR WATER ACT OF 1977, PUBLIC LAW 92-212 (33 U.S.C. SECTION 1251 et seq.).** The APPLICANT must assure compliance with the Water Pollution Control Act, as amended, which provides for the restoration of chemical, physical and biological integrity of the nation's water.
- 21. THE SOLID WASTE DISPOSAL ACT, AS AMENDED BY THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976 (42 U.S.C. SECTION 6901 et seq.)** The APPLICANT must assure compliance with the Solid Waste Disposal Act, as amended. The purpose of this Act is to promote the protection of health and the environment and to conserve valuable material and energy resources.
- 22. THE FISH AND WILDLIFE COORDINATION ACT OF 1958, AS AMENDED (16 U.S.C. SECTION 661 et seq.)** The APPLICANT must assure compliance with the Fish and Wildlife Coordination Act, as amended. The Act assures that wildlife conservation receives equal consideration and is coordinated with other features of water resources development programs.
- 23. RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION POLICY, CHAPTER 8.26 RCW.** The APPLICANT shall comply with the provisions of Chapter 8.26 RCW and Chapter 365-24 WAC when its activities involve any acquisition of real property assisted under this Grant Agreement or the displacement of any family, individual, business, nonprofit

organization or farm that results from such acquisition.

**24. STATE ENVIRONMENTAL POLICY ACT (SEPA), CHAPTER 43.21**

**(C) RCW.** The APPLICANT shall comply with the provisions of Chapter 43.21(C) RCW and Chapter 197-11 WAC, the guidelines by which local agencies will (1) require environmental checklists from private and public entities considering an action potentially subject to the Environmental Impact Statement (EIS) requirement of SEPA, (2) make "threshold determinations" that such an action will not have a significant environmental impact, (3) provide for the preparation of a draft and final EIS if the action has significant impact, and (4) circulate the EIS to other agencies and interested parties.

**25. NOISE CONTROL, CHAPTER 70.107 RCW.** The APPLICANT shall assure compliance with the state Noise Control Act. Objectives of the Act are to assist local governments in implementing local noise ordinances and to control and reduce excessive noise in Washington.

**26. SHORELINE MANAGEMENT ACT OF 1971, CHAPTER 90.58 RCW.** The APPLICANT shall comply with the provisions of Chapter 90.58 RCW. This Act defines a planning program and a permit system, which are initiated at the local government level under state guidance. Its purpose is to protect and enhance the state's shoreline and it includes a comprehensive shoreline inventory process and a master program for regulation of shoreline uses. A permit application at the local level must be in compliance with those plans and consistent with the state Coastal Zone Management program if substantial developments and shoreline modifications occur, and a record of the application and decision must be submitted to the state.

**27. STATE BUILDING CODE, CHAPTER 19.27 RCW; ENERGY RELATED BUILDING STANDARDS, CHAPTER 19.27A RCW; AND PROVISIONS IN BUILDINGS FOR AGED AND HANDICAPPED PERSONS, CHAPTER 70.92 RCW.** The APPLICANT shall comply with the provisions of Chapter 19.27 RCW, Chapter 19.27A RCW, Chapter 70.92 RCW and the regulations for building construction and for barrier free facilities adopted by the Washington State Building Code Council pursuant to these statutes. The State Building Code Act provides for a uniform state building code and mandates counties, cities and towns to administer and enforce its provisions. Local governments are authorized to modify the state building code to fit local conditions as long as such modifications do not result in a code that is less than the minimum performance standards and objectives contained in the state code.

**28. OPEN PUBLIC MEETINGS ACT, CHAPTER 42.30 RCW.** The APPLICANT shall comply with provisions of Chapter 42.30 RCW which require that all meetings of the governing body which pertain to this Grant Agreement shall be open to the public except those where specific provision is made for executive sessions pursuant to RCW 42.30.110.

**29. LAW AGAINST DISCRIMINATION, CHAPTER 49.60 RCW.** The APPLICANT shall comply with the provisions of Chapter 49.60 RCW in all activities relating to this Grant Agreement.

**30. GOVERNOR'S EXECUTIVE ORDER 89-10, DECEMBER 11, 1989: PROTECTION OF WETLANDS, AND GOVERNOR'S EXECUTIVE ORDER 90-04, APRIL 21, 1990: PROTECTION OF WETLANDS.** The APPLICANT shall ensure that it avoids any activities that would adversely affect wetlands and adequately mitigates unavoidable impacts. For the purposes of this requirement, except where a contrary definition is provided by statute, mitigation means: (1) avoiding the impact altogether by not taking certain action or part of an action; (2) minimizing impacts by limiting the degree or magnitude of the action and its

implementation, by using appropriate technology, or by taking affirmative steps to avoid or reduce impacts; (3) rectifying the impact by repairing, rehabilitating, or restoring the affected environment; (4) reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; (5) compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and (6) monitoring the impact and taking appropriate corrective measures.

Mitigation for individual actions may include a combination of the above measures. Mitigation may not include any of the above measures to the extent that they may be contrary to statute as applied under the particular circumstances. Emergency work that is essential to save lives and protect property and public health is exempt from these provisions.

**31. PREVAILING WAGES ON PUBLIC WORKS, CHAPTER 39.12 RCW.** The APPLICANT shall comply with the provisions of Chapter 39.12, Prevailing Wages on Public Works. This statute mandates that the prevailing rate of wage, as determined by the State Department of Labor and Industries, be paid to workers performing under public works contracts.

**32. CONTRACTING WITH SMALL MINORITY FIRMS, WOMEN'S BUSINESS ENTERPRISE AND LABOR SURPLUS AREA FIRMS.** In accordance 44 CFR 13.36(e), Contracting With Small and Minority Firms, if employing contractors or suppliers the Contractor will take affirmative steps to assure that minority firms, women's business enterprises, and labor surplus area firms are used when possible. (1) The grantee and subgrantee will take all necessary affirmative steps to assure that minority firms, women's enterprises and labor surplus area firms are used when possible. (2) Affirmative steps shall include: (i) Placing qualified small and minority businesses, and women's business enterprises on solicitation lists; (ii) Assuring that small and minority enterprises are solicited whenever they are potential sources; (iii) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority business, and women's business enterprises; (iv) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority business, and women's business enterprises; (v) Using the services and assistance of the Small Business Administration, and the Minority Business Development Agency of the Department of Commerce; and (vi) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (e)(2)(i) through (v) of this section.

**33. PROHIBITION ON CONTRACTING FOR COVERED TELECOMMUNICATION EQUIPMENT OR SERVICES**

(a) *Definitions.* As used in this clause, the terms backhaul; covered foreign country; covered telecommunications equipment or services; interconnection arrangements; roaming; substantial or essential component; and telecommunications equipment or services have the meaning as defined in FEMA Policy 405-143-1, Prohibitions on Expending FEMA Award Funds for Covered Telecommunications Equipment or Services (Interim), as used in this clause—

(b) *Prohibitions.*

(1) Section 889(b) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Pub. L. No. 115-232, and 2 C.F.R. § 200.216 prohibit the head of an executive agency on or after Aug. 13, 2020, from obligating or expending grant, cooperative agreement, loan, or loan guarantee funds on certain telecommunications products or from certain entities for national security reasons.

(2) Unless an exception in paragraph (c) of this clause applies, the contractor and its



subcontractors may not use grant, cooperative agreement, loan, or loan guarantee funds from the Federal Emergency Management Agency to:

- (i) Procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;
- (ii) Enter into, extend, or renew a contract to procure or obtain any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology of any system;
- (iii) Enter into, extend, or renew contracts with entities that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system; or
- (iv) Provide, as part of its performance of this contract, subcontract, or other contractual instrument, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system.

*(c) Exceptions.*

(1) This clause does not prohibit contractors from providing— (i) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or (ii) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) By necessary implication and regulation, the prohibitions also do not apply to: (i) Covered telecommunications equipment or services that:

- i. Are not used* as a substantial or essential component of any system; *and*
- ii. Are not used* as critical technology of any system.

(ii) Other telecommunications equipment or services that are not considered covered telecommunications equipment or services.

*(d) Reporting requirement.*

(1) In the event the contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the contractor is notified of such by a subcontractor at any tier or by any other source, the contractor shall report the information in paragraph (d)(2) of this clause to the recipient or subrecipient, unless elsewhere in this contract are established procedures for reporting the information.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause:

(i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: Any further available information about mitigation actions undertaken or

recommended. In addition, the contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e), in all subcontracts and other contractual instruments.

#### **34. DOMESTIC PREFERENCE FOR PROCUREMENTS**

As appropriate, and to the extent consistent with law, the contractor should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States. This includes, but is not limited to iron, aluminum, steel, cement, and other manufactured products.

For purposes of this clause:

*Produced in the United States* means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

*Manufactured products* mean items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

In compliance with section 1225 of the Disaster Recovery Reform Act of 2018, the APPLICANT and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

#### **35. COMPLIANCE WITH FEDERAL LAW, REGULATIONS AND EXECUTIVE ORDERS AND ACKNOWLEDGEMENT OF FEDERAL FUNDING**

This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable federal law, regulations, executive orders, FEMA policies, procedures, and directives.

#### **36. NO OBLIGATION BY FEDERAL GOVERNMENT**

The federal government is not a party to this contract and is not subject to any obligations or liabilities to the non-federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

#### **37. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS**

The contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the contractor's actions pertaining to this contract.

#### **38. AFFIRMATIVE SOCIOECONOMIC STEPS**

If subcontracts are to be let, the prime contractor is required to take all necessary steps identified in 2 C.F.R. § 200.321(b)(1)-(5) to ensure that small and minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

#### **39. COPYRIGHT AND DATA RIGHTS**

License and Delivery of Works Subject to Copyright and Data Rights

The Contractor grants to the APPLICANT, a paid-up, royalty-free, nonexclusive, irrevocable, worldwide license in data first produced in the performance of this contract to reproduce, publish, or otherwise use, including prepare derivative works, distribute copies to the public, and perform publicly and display publicly such data. For data required by the contract but not first produced in the performance of this contract, the Contractor will identify such data and grant to the APPLICANT or acquires on its behalf a license of the same scope as for data first produced in the performance of this contract. Data, as used herein, shall include any work subject to copyright under 17 U.S.C. § 102, for example, any written reports or literary works, software and/or source code, music, choreography, pictures or images, graphics, sculptures, videos, motion pictures or other audiovisual works, sound and/or video recordings, and architectural works. Upon or before the completion of this contract, the Contractor will deliver to the APPLICANT data first produced in the performance of this contract and data required by the contract but not first produced in the performance of this contract in formats acceptable by the APPLICANT.



# **APPENDIX D**

## **BID PROPOSAL DOCUMENTS**

### **INCLUDING:**

**Notice to Contractor**

**Proposal Form**

**Non-Collusion Declaration**

**Proposal Signature Page**

**Certification of Compliance with Wage Payment Statutes**





## Lewis County Department of Public Works

Josh S. Metcalf, PE, Director

Tim Fife, PE, County Engineer

### NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN that the Board of County Commissioners of Lewis County or designee, will open sealed proposals and publicly read them aloud on or after 12:15 p.m. on Thursday, May 11, 2023, at the Lewis County Courthouse in Chehalis, Washington for the Little Hanaford Rd. MP 4.1 Slide Repair Project.

#### **SEALED BIDS MUST BE DELIVERED BY OR BEFORE 12:15 P.M. on Thursday, May 11, 2023**

(Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners.  
**Bids submitted after 12:15 PM will not be considered for this project.**)

Sealed proposals must be delivered to the Lewis County Commissioners Office (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532) by or before **12:15 p.m.** on the date specified for opening, and in an envelope clearly marked: **"SEALED BID FOR THE LITTLE HANAFORD RD. MP 4.1 SLIDE REPAIR PROJECT, TO BE OPENED ON OR AFTER 12:15 P.M. ON MAY 11, 2023."**

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the Lewis County Public Works Department.

Informational copies of maps, plans and specifications are on file for inspection in the office of the County Engineer of Lewis County in Chehalis, Washington. The contract documents may be viewed and downloaded from Lewis County's Web Site @ [www.lewiscountywa.gov/](http://www.lewiscountywa.gov/) or you may call the Lewis County Engineers office @ (360)740-1123 Ext. 7 and request a copy be mailed to you. All Contractor questions and Lewis County clarifying answers will be posted on our website and emailed to all Contractors registered on Lewis County's Planholder List. Plan or specification changes shall be accomplished through official project addendums.

The Lewis County Public Works Department in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.





## PROPOSAL

TO: BOARD OF COUNTY COMMISSIONERS  
LEWIS COUNTY  
CHEHALIS, WASHINGTON 98532

This certifies that the undersigned has examined the location of the Little Hanaford Rd. MP 4.1 Slide Repair Project, County Project No. 90-22F171510410, in Lewis County, Washington, and that the plans, specifications and contract governing the work embraced in these improvements, and the method by which payment will be made for said work is understood. The undersigned hereby proposes to undertake and complete the work embraced in this improvement, or as much thereof as can be completed with the money available in accordance with the said plans, specifications and contract, and the following schedules of rates and prices:

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

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
1	1 L.S.	MOBILIZATION	LUMP SUM	\$
2	0.42 ACRE	CLEARING AND GRUBBING	\$	\$
3	1 L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	\$
4	4,500 C.Y.	ROADWAY EXCAVATION INCL. HAUL	\$	\$
5	6,030 TON	GRAVEL BORROW INCL. HAUL	\$	\$
6	2,940 TON	QUARRY SPALLS	\$	\$
7	58 L.F.	CL. IV REINF.CONC. CULV. PIPE 18 IN. DIAM.	\$	\$
8	620 TON	CRUSHED SURFACING BASE COURSE	\$	\$
9	240 TON	CRUSHED SURFACING TOP COURSE	\$	\$
10	0.10 MILE	SHOULDER FINISHING	\$	\$
11	170 TON	HMA CL. 1/2 IN. PG 58H-22 FIBER REINFORCED	\$	\$
12	7 DAY	ESC LEAD	\$	\$
13	0.24 ACRE	SEEDING AND MULCHING	\$	\$
14	1 EST.	EROSION / WATER POLLUTION CONTROL	ESTIMATED	\$ 5,000.00
15	365 L.F.	HIGH VISIBILITY SILT FENCE	\$	\$
16	1 L.S.	PLANTING MITIGATION CONSTRUCTION	LUMP SUM	\$
17	374 L.F.	TEMPORARY BARRIER	\$	\$
18	850 L.F.	PAINT LINE	\$	\$

ITEM NO.	PLAN QUANTITY	ITEM DESCRIPTION	UNIT PRICE		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
19	12 EA.	FLEXIBLE GUIDE POST	\$		\$	
20	20 L.F.	TEMPORARY STOP LINE-SHORT DURATION	\$		\$	
21	1 L.S.	PROJECT TEMPORARY TRAFFIC CONTROL		LUMP SUM	\$	
22	350 HR.	FLAGGERS	\$		\$	
23	96 S.F.	CONSTRUCTION SIGNS CLASS A	\$		\$	
24	30 HR.	OTHER TRAFFIC CONTROL LABOR	\$		\$	
25	560 C.Y.	STRUCTURE EXCAVATION CLASS B, INCL. HAUL	\$		\$	
26	1,080 S.F.	SHORING OR EXTRA EXCAVATION CLASS B	\$		\$	
27	1 L.S.	DECOMMISSIONING WELL		LUMP SUM	\$	
28	1 EST.	ROADSIDE CLEANUP		ESTIMATED	\$	7,500.00
29	1,000 S.Y.	CONSTRUCTION GEOTEXTILE FOR SEPARATION	\$		\$	
30	15 S.Y.	CONSTRUCTION GEOTEXTILE FOR DITCH LINING	\$		\$	
31	1 EST.	REIMBURSEMENT FOR THIRD PARTY DAMAGE		ESTIMATED	\$	1.00
32	1 L.S.	SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN		LUMP SUM	\$	
				TOTAL BID	\$	

**Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.**

## **NON-COLLUSION DECLARATION**

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

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.

## **NOTICE TO ALL BIDDERS**

To report rigging activities call:

**1-800-424-9071**

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

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

**PROPOSAL - SIGNATURE PAGE**

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

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

**CASH**                     **IN THE AMOUNT OF** \_\_\_\_\_

**CASHIER'S CHECK**  \_\_\_\_\_ **DOLLARS**

**CERTIFIED CHECK**  **(\$\_\_\_\_\_)** **PAYABLE TO THE LEWIS COUNTY TREASURER**

**PROPOSAL BOND**     **IN THE AMOUNT OF 5% OF THE BID**

\*\* Receipt is hereby acknowledged of addendum(s) No.(s) \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, & \_\_\_\_\_

SIGNATURE OF AUTHORIZED OFFICIAL(S)

***Proposal Must be Signed***

\_\_\_\_\_

Firm Name

\_\_\_\_\_

Address

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

State of Washington Contractor's License No.

\_\_\_\_\_

Unified Business Identifier (U.B.I.) No.

\_\_\_\_\_

Telephone No.

\_\_\_\_\_

Federal ID No.

\_\_\_\_\_

**Note:**

This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the Lewis County Engineer will be cause for considering the proposal irregular and subsequent rejection of the bid.

\*Attach Power of Attorney





# APPENDIX E

## CONTRACT DOCUMENTS

### INCLUDING:

**Contract Form**

**Contract Bond**

**Power Equipment List**





## CONTRACT

THIS AGREEMENT, made and entered into this \_\_\_ day of \_\_\_\_\_, 2023, between the BOARD OF COUNTY COMMISSIONERS of LEWIS COUNTY, State of Washington, acting under and by virtue of RCW 36.77.040, hereinafter called

the Board, and \_\_\_\_\_ of \_\_\_\_\_

for \_\_\_sel\_\_\_, heirs, executors, administrators, successors and assigns, hereinafter called the Contractor.

WITNESSETH:

That in consideration of the payments, covenants and agreements hereinafter mentioned to be made and performed by the parties hereto, the parties hereto covenant and agree as follows:

### DESCRIPTION OF WORK:

1. The Contractor shall do all work and furnish all material necessary to improve Little Hanaford Rd. MP 4.1 landslide by constructing shear key, performing roadway excavation, placing quarry spalls, installing culvert pipe, and constructing Roadway Pavement Improvements, and other work, all in accordance with the attached Plans, these Contract Provisions, and the Standard Specifications, and in full compliance with the terms, conditions and stipulations herein set forth and attached, now referred to and by such reference incorporated herein and made a part hereof as fully for all purposes as if here set forth at length, and shall perform any alterations in or additions to the work covered by this contract and every part thereof and any extra work which may be ordered as provided in this contract and every part thereof.

The Contractor shall provide and be at the expense of all materials, labor, carriage, tools, implements and conveniences and things of every description that may be requisite for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof.

2. The County hereby promises and agrees with the Contractor to hire and does hire the Contractor to provide the materials and to do and cause to be done the above described work and to complete and furnish the same according to the attached plans and specifications and the terms and conditions herein contained, and hereby contracts to pay for the same according to the schedule of unit or itemized prices at the time and in the manner and upon the conditions provided for in this contract and every part thereof. The County further agrees to hire the contractor to perform any alterations in or conditions to the work covered by this contract and every part thereof and any force account work that may be ordered and to pay for the same under the terms of this contract and the attached plans and specifications.

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

4. It is further provided that no liability shall attach to the County by reason of entering into this contract, except as expressly provided herein.

**Contract - 1**

5. CANCELLATION OF CONTRACT FOR VIOLATION OF STATE POLICY

This contract, pursuant to RCW 49.28.040 to RCW 49.28.060, may be canceled by the officers or agents of the Owner authorized to contract for or supervise the execution of such work, in case such work is not performed in accordance with the policy of the State of Washington.

6. DOCUMENTS COMPRISING CONTRACT

All documents hereto attached, including but not being limited to the advertisement for bids, information for bidders, bid proposal form, general conditions (if any), special conditions (if any), complete specifications and the complete plans, are hereby made a part of this contract.

IN WITNESS WHEREOF, the said Contractor has executed this instrument, and the said Board of County Commissioners of aforesaid County, pursuant to resolution duly adopted, has caused this instrument to be executed by and in the name of said Board by its Chairman, duly attested by its Clerk, the day and year first above written, and the seal of said Board to be hereunto affixed on the date in this instrument first above written.

\_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_

Contractor

Performance of foregoing contract assured in accordance with the terms of the accompanying bond.

Dated: \_\_\_\_\_, 2023

By: \_\_\_\_\_

Surety

By: \_\_\_\_\_

Attorney-in-fact

APPROVED AS TO FORM:

JONATHAN L. MEYER, Prosecuting Attorney

By: \_\_\_\_\_

Civil Deputy

APPROVED:

\_\_\_\_\_  
County Engineer

**Contract – 2**

**CONTRACT BOND FOR  
LEWIS COUNTY, WASHINGTON**

**Bond No.** \_\_\_\_\_

WE, \_\_\_\_\_ d/b/a \_\_\_\_\_  
(Insert legal name of Contractor) (Insert trade name of Contractor, if any)

(hereinafter "Principal"), and \_\_\_\_\_ (hereinafter "Surety"), are held and firmly bound unto **LEWIS COUNTY, WASHINGTON** (hereinafter "County"), as Obligee, in an amount (in lawful money of the United States of America) equal to the total compensation and expense reimbursement payable to Principal for satisfactory completion of Principal's work under Contract No. **County Project No. 90-22F171510410** between Principal and County, which total is *initially* \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), for the payment of which sum Principal and Surety bind themselves, their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.. Said contract (hereinafter referred to as "the Contract") is for the **Little Hanaford Rd. MP 4.1 Slide Repair Project** and is made a part hereof by this reference. The Contract includes the original agreement as well as all documents attached thereto or made a part thereof and amendments, change orders, and any other document modifying, adding to or deleting from said Contract any portion thereof.

This Bond is executed in accordance with the laws of the State of Washington, and is subject to all provisions thereof and the ordinances of County insofar as they are not in conflict therewith, and is entered into for the use and benefit of County, and all laborers, mechanics, subcontractors, and materialmen, and all persons who supply such person or persons, or subcontractors, with provisions or supplies for the carrying on of the work covered by **County Project No. 90-22F171510410** between the below-named Contractor and County for the **Little Hanaford Rd. MP 4.1 Slide Repair Project**, a copy of which Contract, by this reference is made a part hereof and is hereinafter referred to as "the Contract." (The Contract as defined herein includes the aforesaid agreement together with all of the Contract documents including addenda, exhibits, attachments, modifications, alterations, and additions thereto, deletions therefrom, amendments and any other document or provision attached to or incorporated into the Contract)

**THE CONDITION OF THIS OBLIGATION** is such that if Contractor shall promptly and faithfully perform the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

**THE PARTIES FURTHER ACKNOWLEDGE & AGREE AS FOLLOWS:**

- (1) Surety hereby consents to, and waives notice of, any alteration, change order, or other modification of the Contract and any extension of time made by County, except that any single or cumulative change order amounting to more than twenty-five percent (25%) of the penal sum of this bond shall require Surety's written consent.
- (2) Surety recognizes that the Contract includes provisions for additions, deletions, and modifications to the work or Contract Time and the amounts payable to Contractor. Subject to the limitations contained in paragraph (1) above, no such change or any combination thereof, shall void or impair Surety's obligation hereunder.
- (3) Surety is subject to the provisions contained in Section 1-03.4, "Contract Bond," of the Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge, and Municipal Construction. And such provisions are incorporated by reference. A copy may be viewed at WSDOT's website [www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/](http://www.wsdot.wa.gov/fasc/EngineeringPublications/Manuals/).
- (4) Whenever County has declared Contractor to be in default and County has given Surety written notice of such declaration, Surety shall promptly (in no event more than thirty [30] days following receipt of such notice), specify, in written notice to County, which of the following actions Surety intends to take to remedy such default, and thereafter shall:
  - (a) Remedy the default within fifteen (15) days after its notice to County, as stated in such notice; or
  - (b) Assume within fifteen (15) days following its notice to County, full responsibility for the completion of the Contract in accordance with all of its provisions, as stated in such notice, and become entitled to payment of the balance of the Contract sum as provided in the Contract; or
  - (c) Pay County upon completion of the Contract, in cash, the cost of completion together with all other reasonable costs and expenses incurred by County as a result of Contractor's default, including but not limited to those incurred by County to mitigate its losses, which may include but are not limited to attorneys' fees and the cost of efforts to complete the work prior to Surety's exercising any option available to it under this Bond; or
  - (d) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon a determination by County and Surety jointly of the lowest responsible bidder, arrange for one or more agreements between such bidder and County, and make available as work progresses (even though there is a default or a succession of defaults under such agreement(s) for completion arranged for under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract price, but not exceeding, including other costs and damages for which Surety may be liable hereunder, the penal sum of this Bond. The term "balance of the Contract price," as used in this paragraph, shall mean the total amount payable by County to Contractor under the Contract, less the amount properly paid by County to Contractor.

(5) If County commences suit and obtains judgment against Surety for recovery hereunder, then Surety, in addition to such judgment, shall pay all costs and attorneys' fees incurred by County in enforcement of County's rights hereunder. The venue for any action arising out of or in connection with this bond shall be in Lewis County, Washington.

(6) No right or action shall accrue on this Bond to or for the use of any person or corporation other than Lewis County, except as herein provided.

(7) No rider, amendment or other document modifies this Bond except as follows, which by this reference is incorporated herein:

**SURETY'S QUALIFICATIONS:** Every Surety named on this bond must appear on the United States Treasury Department's most current list (Circular 570 as amended or superseded) and be authorized by the Washington State Insurance Commissioner to transact business as a surety in the State of Washington. In addition, the Surety must have a current rating of at least A-VII in A. M. Best's Key Rating Guide.

**INSTRUCTIONS FOR SIGNATURES:** This bond must be signed by the president or a vice-president of a corporation; the managing general partner of a partnership; managing joint venturer of a joint venture; manager of a limited liability company or, if no manager has been designated, a member of such LLC; a general partner of a limited liability partnership; or the owner(s) of a sole proprietorship. If the bond is signed by any other representative, the Principal must attach currently-dated, written proof of that signer's authority to bind the Principal, identifying and quoting the provision in the corporate articles of incorporation, bylaws, Board resolution, partnership agreement, certificate of formation, or other document authorizing delegation of signature authority to such signer, and confirmation acceptable to the County that such delegation was in effect on the date the bond was signed. **A**  
**NOTARY PUBLIC MUST ACKNOWLEDGE EACH SIGNATURE BELOW.**

**FOR THE SURETY:**

**FOR THE PRINCIPAL:**

By \_\_\_\_\_  
(Signature of Attorney-in-Fact)

By: \_\_\_\_\_  
(Signature of authorized signer for Contractor)

\_\_\_\_\_  
(Type or print name of Attorney-in-Fact)

\_\_\_\_\_  
(Type or print name of signer for Contractor)

\_\_\_\_\_  
(Type or print telephone number for Attorney-in-Fact)

\_\_\_\_\_  
(Type or print title of signer for Contractor)

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ )

ss: **ACKNOWLEDGMENT FOR CONTRACTOR**

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me a notary public in and for the State of \_\_\_\_\_, duly commissioned and sworn, personally appeared \_\_\_\_\_, the person described in and who executed the foregoing bond, and acknowledged to me that \_\_\_\_\_ signed and sealed said bond as the free and voluntary act and deed of the Contractor so identified in the foregoing bond for the uses and purposes therein mentioned, and on oath stated that \_\_\_\_\_ is authorized to execute said bond for the Contractor named therein. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

\_\_\_\_\_  
(Signature of Notary Public)

\_\_\_\_\_  
(Print or type name of Notary Public)

Notary Public in and for the State of \_\_\_\_\_ residing at \_\_\_\_\_  
My commission expires \_\_\_\_\_.

**SEAL →**

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ )

ss: **ACKNOWLEDGMENT FOR SURETY**

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me a notary public in and for the State of \_\_\_\_\_, duly commissioned and sworn, personally appeared \_\_\_\_\_, Attorney-in-Fact for the Surety that executed the foregoing bond, and acknowledged said bond to be the free and voluntary act and deed of the Surety for the uses and purposes therein mentioned, and on oath stated that \_\_\_\_\_ is authorized to execute said bond on behalf of the Surety, and that the seal affixed on said bond or the annexed Power of Attorney is the corporate seal of said Surety. WITNESS my hand and official seal hereto affixed the day and year in this certificate first above written.

\_\_\_\_\_  
(Signature of Notary Public)

\_\_\_\_\_  
(Print or type name of Notary Public)

Notary Public in and for the State of \_\_\_\_\_ residing at \_\_\_\_\_  
My commission expires \_\_\_\_\_.

**SEAL →**

**POWER EQUIPMENT LIST**

The undersigned furthermore certifies that he/she is thoroughly aware that time is of the essence for the completion of this contract within the time specified in the special provisions, and hereby agrees to provide the Engineer a list of his power equipment to be used on this project.

This equipment list will be used in computing any Force Account that may be performed within this contract.

**The Contractor must complete this form in its entirety.**

**POWER EQUIPMENT**

Type of Equipment	Make	Model Number	Serial Number	* Capacity	Year Built



# APPENDIX F

**CONTRACT PLANS  
TRAFFIC CONTROL PLAN**

