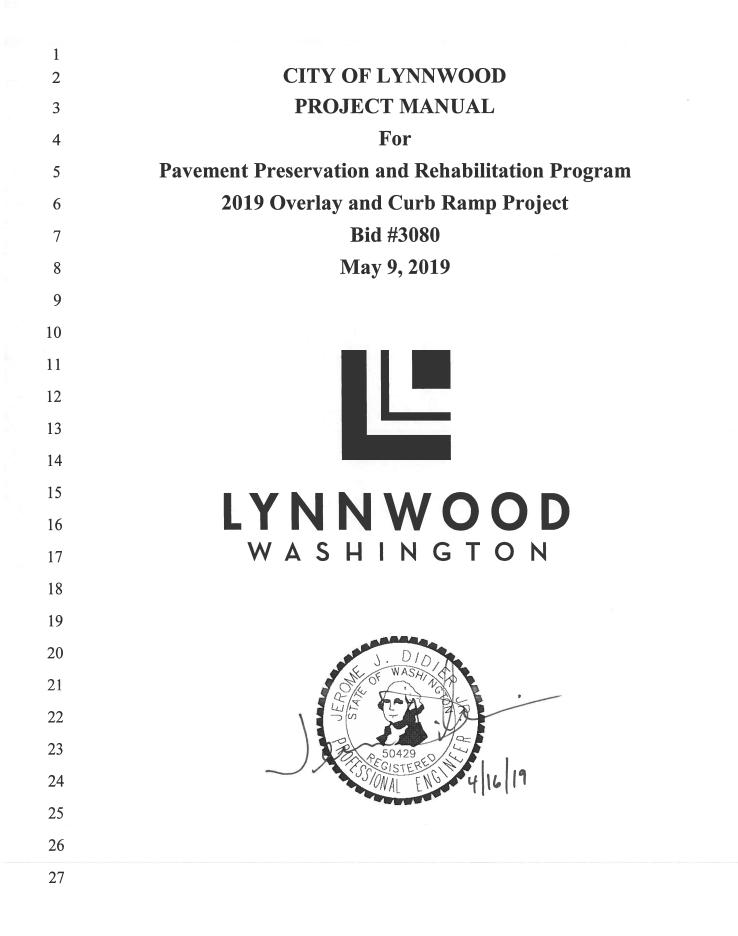
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1	SECTION 1
2	INVITATION FOR BIDS

<u>CITY OF LYNNWOOD</u> INVITATION FOR BIDS

SUBMITTAL OF SEALED BIDS:

Sealed bid proposals ("Bids") will be received by the Public Works Director, or the Public Works Director's representative, at Lynnwood City Hall, 19100 44th Avenue W., Lynnwood, Snohomish County, Washington, 98036 (or mailed to P.O. Box 5008, Lynnwood, WA 98046-5008), until 2:00 p.m., May 9, 2019, for the following project ("Project"):

2019 Overlay and Curb Ramp Project

Capitalized terms not defined in this Invitation for Bids shall have the meanings set forth in the Project Manual of which this Invitation for Bids is a part.

BID OPENING:

At the time and date above stated, the Bids will be publicly opened and read aloud ("Bid Opening"). Bids are to be submitted only on the bid proposal forms provided with the Project Manual. All Bids must be accompanied by a bid bond, cashier's check, certified check, or postal money order in an amount not less than five percent (5%) of the total amount of the Bid. Bids received after the time fixed for the Bid Opening will not be considered.

DESCRIPTION OF WORK:

This Contract provides for the improvement of various City of Lynnwood roadways by HMA for pavement repair, grind and overlay, curb ramps, pedestrian push buttons and pedestrian signals, raised pavement markers, paint line, plastic pavement markings, and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

All Bids shall be based upon compliance with the Project Manual (including, without limitation, the Contract Plans and Specifications). The estimated cost range for this project is \$ 2,600,000 to 3,100,000. The project shall be Physically Completed within 60 working days of the Notice to Proceed.

OBTAINING BID DOCUMENTS:

The Project Manual for this Project (including the Contract Plans, Specifications and all other Contract Documents) may be examined at the Lynnwood City Hall. All questions regarding to this Project shall be addressed to Nicholas Barnett, P.E., Project Manager, at <u>NBarnett@lynnwoodwa.gov</u>, and shall be provided prior to 2:00 p.m., May 2, 2019, 1 week prior to bid opening.

The Project Manual, plans, specifications, addenda, bidders list, and plan holders list for this project are available through Builders Exchange at the City of Lynnwood's on-line plan room. Free of charge access is provided to Prime Bidders, Subcontractors, and Vendors by going to <u>http://www.bxwa.com</u> and clicking on "Posted Projects", "Public Works" and "City of Lynnwood". Bidders are encouraged to "Register" in order to receive automatic email notification

of future addenda and to be placed on the "Bidders List". This on-line plan room provides Bidders with fully usable on-line documents with the ability to download, print to your own printer, order full / partial plan sets from hundreds of reprographic sources (on-line print order form), and a free on-line digitizer / take-off tool. Contact Builders Exchange of Washington at 425-258-1303 should you require assistance.

A prebid walk-through of the Project will **not** be offered with the City before the bid opening.

The City of Lynnwood expressly reserves the right to reject any or all Bids, to waive irregularities, and to award the Project to the lowest responsive, responsible Bidder.

Bidder Proposals shall remain valid for forty-five (45) days after the actual date of Bid Opening.

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

David Mach, P.E. Engineering Manager

Published: Everett Herald – April 18, 2019, April 25, 2019

Daily Journal of Commerce - April 18, 2019, April 25, 2019

1	SECTION 2
2	BIDDER'S CHECKLIST
3	INSTRUCTIONS TO BIDDERS

1	BIDDER'S CHECKLIST		
2 3 4	This non-inclusive checklist is included here as a convenience to the Bidder to ensure that all items are properly addressed.		
5	These items are related to the submittal of a Bid:		
6	1. Have you included a unit or lump sum price for each bid item on the proposal?		
7	2. Have you completed the Bid Security?		
8	3. Has the Bid Bond or Bid Deposit (certified check) been enclosed with your Bid?		
9	4. Is the amount of the bid guaranty at least 5% of the total amount of the Bid?		
10	5. Has the proposal been properly signed?		
11	6. Have you completed Statement of Bidder's Qualifications & Responsible Bidder		
12	Determination Form?		
13	7. Have you certified receipt of addenda?		
14	8. Have you listed all subcontractors as required by RCW 39.30.060?		
15	9. Have you completed the Non-Collusion Affidavit?		
16	10. Have you completed and signed, under penalty of perjury, the "Contractor Certification-		
17	Wage Law Compliance-Responsibility Criteria" document (DOT Form 272-009) in the		
18	Bid Proposal Package?		
19	11. Have you filled out and signed the following affidavits?		
20	a. Public Bidding Crimes		
21	b. Liquidated Damages		
22	c. Termination for Cause		
23	d. Litigation		
24			
25	Within 48 hours of being apparent or second low bidder, submit the following:		
26	1. Supplemental Bidder Responsibility criteria documentation for Bidder (Prime) as outlined		
27	in Section 2.22B of Instructions to Bidders.		
28	2. Proposed subcontractors completed "Responsible Bidder Determination" form as outlined		
29	in Section 2.22C of Instructions to Bidders.		
30			
31 32	The following items are included in the Project Manual for informational purposes only and will		
33	be executed by the successful Bidder after award: 1. Contract		
34	2. Performance Bond		
35	3. Payment Bond		
36	4. Certificate of Insurance		
37	5. Contractor's Declaration of Option for Management of Statutory Retained Percentage		
38			

1 2		CITY OF LYNNWOOD
3		INSTRUCTIONS TO BIDDERS
4	2.01	SUBMISSION OF BIDS:
5 6 7 8 9 10 11		To receive consideration, Bids must be received at the <u>City of Lynnwood, 19100 44th Ave.</u> <u>West, Lynnwood, WA 98036 (physical), or P.O. Box 5008, Lynnwood WA 98046-5008</u> (mailing), prior to the specified date and time of the Bid Opening, in a sealed envelope, clearly marked with the Bidder's company or firm name, address, telephone number, Invitation for Bid number, Project name, and the date and time of the Bid Opening. Mailed Bids must be actually <u>received</u> at the Public Works Deputy Director's office prior to the date and time noted in the Invitation for Bid.
12 13 14 15		<u>Note</u> : Any deviations from the required Contract Plans, Specifications or other Contract Documents shall be identified in writing by the Bidder, and the Invitation for Bid number and company or firm name should appear on any technical data or other information furnished by the Bidder with its Bid.
16	2.02	<u>SIGNATURE</u> :
17 18 19 20 21 22 23 24		Each Bid must be signed in longhand by the Bidder. Bids by general or limited partnerships must be executed in the partnership name by at least one of the general partners, followed by signature(s) and designation(s) of the signing partner(s). Bids by corporations, limited liabilities companies and other legal entities must be executed in the legal name of the entity, followed by the name of the State or Province of organization and by the signature of the president, manager or other officer or person authorized to execute legal documents on behalf of the entity. The typed or printed name of the person(s) signing the Bid shall appear below each signature.
25 26		<u>Note</u> : If erasures or other changes appear on the Bid forms as submitted, each erasure or change must be initialed by an authorized representative of the entity submitting the bid.
27	2.03	BID FORM:
28 29		Bids will not be considered unless submitted on the <u>Bid form</u> included in the Project Manual.
30	2.04	BID DEPOSIT:
31 32 33 34 35 36 37		All Bids must be accompanied by cash, a bid bond, cashier's check or certified check on a solvent bank, payable to City of Lynnwood , in the sum of five percent (5%) of the Bid amount ("Deposit"). Said Deposit will be held as a guarantee that the successful Bidder will, within ten days from the date of notification of award, enter into a Contract and furnish approved Payment and Performance Bonds, on the forms enclosed in the Project Manual, in amounts equal to one hundred percent (100%) of the amount of the Contact, including state sales tax. Deposits of all other Bidders will be returned as soon as practicable after

- award of the Contract. Should a Bidder fail to enter into a Contract within ten (10) days
 after notice of acceptance of its Bid, the Bidder's Deposit shall be forfeited to the City.
- 3 2.05 <u>WITHDRAWAL OF BIDS</u>:
- Any Bidder may withdraw its Bid, either personally or by written request, at any time prior
 to the time set for the Bid Opening. However, after the Bid Opening, no Bid may be
 withdrawn for forty-five (45) days after the date of the actual Bid Opening.

7 2.06 MODIFICATION OF BIDS:

- 8 A Bid that is in the possession of the City of Lynnwood (City) may be modified, altered or 9 amended by a letter or facsimile from and signed by an authorized representative of the 10 Bidder, provided it is received prior to the time and date of the Bid Opening. No oral or 11 telephonic modifications will be accepted.
- 12 2.07 <u>EXCEPTIONS</u>:

13 If awarded a Contract, the Bidder will be required to furnish the construction and services 14 in strict accordance with the Project Manual, including, without limitation, all materials, 15 equipment, tools, plant and other facilities and all management, superintendents, labor, and 16 services, except as may be provided otherwise in the Project Manual, unless an exception, 17 substitution or deviation, clearly noted and described in the Bid in the space provided, is 18 approved by the City in awarding the Contract (collectively, the "Work").

19 2.08 <u>TAXES</u>:

Unless otherwise noted on the Proposal form, bids shall show prices as separate entries
before Washington State Sales Tax. The City reserves the right to remit Sales Tax, at the
Lynnwood rate, directly to Washington State Department of Revenue. See Section 1-07.2
of the Standard Specifications.

- 24 2.09 <u>LATE BIDS AND MODIFICATIONS OF BIDS</u>:
- Any Bid or modification of a Bid will not be considered unless it was actually received at
 the Deputy Public Works Director's Office before the exact time set for the Bid Opening.
- 27 2.10 <u>NON-COLLUSION AFFIDAVIT</u>:
- All Bidders must complete the attached non-collusion affidavit. Bids submitted without a
 completed affidavit will be considered non-responsive.

1 2.11 <u>ADDENDA</u>:

If Lynnwood issues Addenda to the Project Manual, bidders must acknowledge receipt of the addenda on the Bid Form. It is the Bidders responsibility to ensure that they have received all addenda. Lynnwood will make reasonable effort to provide addenda to all bidders by posting to the City's on-line plan room at Builders Exchange <u>http://www.bxwa.com</u>.

- 7 If receipt of Addenda (if any) is not indicated on the Bid Form, Lynnwood may assume the
 8 Bid considers all Addenda OR the bid may be rejected at the City's discretion.
- 9 2.12 <u>NONRESPONSIVE BIDS</u>:

10 Any Bid that is incomplete, does not comply with the Bid schedule or other instructions in 11 the Project Manual, or is not properly signed, may be considered non-responsive. Any Bid 12 which includes any exceptions, substitutions or deviations from any part of the Project 13 Manual will be considered non-responsive.

- 14 2.13 <u>REJECTION OF BIDS</u>:
- Any Bids that are non-responsive or deviate from the express requirements of the Project
 Manual may be rejected at the City's discretion.
- 17 2.14 INTERPRETATION OF CONTRACT DOCUMENTS:

18 The Bidder shall promptly notify the City of any discovered conflicts, ambiguities, or 19 discrepancies in or between, or omissions from, the Contract Documents. No oral 20 interpretations will be made to any Bidder as to the meaning of the Project Manual or any 21 Contract Document; and any oral communications are not binding on the City. Requests 22 for an interpretation must be made in writing and received by the Public Works Deputy 23 Director at least four (4) days before the date specified for the Bid Opening. Any 24 interpretation deemed necessary by the City will be in the form of an addendum to the 25 Project Manual and when issued will be posted as promptly as is practical to the City's online plan room at Builders Exchange of Washington at http://www.bxwa.com. All such 26 27 addenda shall become part of the Project Manual.

28 2.15 EXAMINATION OF SITE AND CONTRACT DOCUMENTS:

29 The submission of a Bid shall constitute an acknowledgment upon which the City may rely that the Bidder has thoroughly examined and is familiar with (a) the Project Manual 30 31 (including Contract Plans, Specifications and all other Contract Documents) and all work 32 sites identified in the Project Manual, and (b) has reviewed and inspected all applicable 33 statutes, regulations, ordinances, and resolutions dealing with or related to the Work to be 34 provided thereunder. The failure or neglect of a Bidder to examine the Project Manual, 35 work site(s), or statutes, regulations, ordinances or resolutions shall in no way relieve the 36 Bidder from any obligation with respect to the Bidder's Bid or the Contract. No claim for 37 additional compensation will be allowed which is based upon a lack of knowledge of any 1 Contract Document, work site, statute, regulation, ordinance or resolution. The submittal 2 of a Bid shall be deemed an offer by the Bidder to perform the Work in accordance with 3 the Project Manual and the Bid. The furnishing by the City to a Bidder of a signed purchase 4 order or contract shall result in a binding contract without further action by either party.

5 2.16 <u>BID ERRORS</u>:

6 .1 A Bidder who wishes to claim error after the Bids have been opened and read shall 7 submit a notarized affidavit signed by the Bidder, accompanied by original worksheets 8 used in the preparation of the Bid. The affidavit shall describe the specific error(s) and 9 certify that the worksheets are the originals used in the preparation of the Bid.

10 .2 The affidavit and the worksheets must be received by the City before 5:00 p.m. 11 local time on the next business day following the day of the Bid Opening or the claim of 12 error will not be considered. The City will review the certified worksheets to determine 13 the validity of the claimed error. If the claim of error is allowable under applicable law, 14 the Bidder will be relieved of responsibility, and the Bid Deposit of the Bidder claiming 15 error will be returned. Thereafter, at the discretion of the City, all Bids may be rejected or 16 the Contract may be awarded to the next lowest responsive, responsible Bidder.

17 .3 All bidders shall be presumed to know the bid results that are opened and read by 18 the City. The City has no affirmative duty to notify any bidder as to their bid order or rank.

19 2.17 <u>ESTIMATED QUANTITIES</u>:

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20 Unit quantities shown in the Contract Documents are estimates and are stated only for Bid 21 comparison purposes. The City does not warrant that the actual unit quantities will 22 correspond with those estimates. The City reserves the right to increase or decrease any 23 unit quantities shown in the Contract Documents by up to 25% without adjusting the unit 24 contract prices. Payment will be made on the basis of the actual quantities of each item of 25 Work satisfactorily completed in accordance with the requirements of the Contract 26 Documents.

27 2.18 <u>SUBMISSION OF SUBCONTRACTOR INFORMATION</u>:

29 For contracts where the estimated cost of the project, including sales tax, is One Million 30 Dollars (\$1,000,000) or more, the requirements of RCW 39.30.060, including any 31 amendments, shall apply and each Bidder shall submit a list of proposed subcontractors 32 with whom the Bidder, if awarded the contract, will subcontract for performance of the 33 work of heating, ventilation and air conditioning, plumbing and electrical, or name itself 34 for the work. The Bidder shall not list more than one subcontractor for each category of 35 work identified, unless subcontractors vary with bid alternatives, in which case, the Bidder 36 must indicate which subcontractor will be used for which alternative. This list must be 37 submitted as part of the Bid, or within one hour after the published bid submittal time. 38 Failure of the Bidder to submit as part of the bid the names of such subcontractors or to

name itself to perform the work or the naming of two or more subcontractors to perform
 the same work shall render the Bidder's bid non-responsive and, therefore, void.

The requirement to name the Bidder's proposed heating, ventilation and air conditioning, plumbing, and electrical subcontractors applies only to proposed heating, ventilation and air conditioning, plumbing, and electrical subcontractors who will contract directly with the general contractor submitting the bid.

7 2.19 <u>BID PRICE</u>:

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- 8 A. The Bid price shall include everything necessary for the prosecution and completion 9 of the Work specified in the Contract Documents including, but not limited to, furnishing all materials, equipment, tools, plant and other facilities and all management, 10 superintendents, labor, and services, except as may be provided otherwise in the 11 12 Contract Documents. The offer represented by the Bid shall remain in effect for fortyfive (45) days after the date of the Bid Opening. In the event of a discrepancy between 13 14 the unit price and the total price, the unit price will govern and the total price will be adjusted accordingly. Bidders should indicate in their Bids the address to which 15 payment should be mailed, if such address is different from that shown for the Bidder. 16
- B. In accordance with RCW 39.04.380, effective March 30, 2012, the City of Lynnwood is
 enforcing a Reciprocal Preference for Resident Contractors. For any public works
 bid received from a nonresident contractor from a state that provides an instate
 percentage bidding preference, a comparable percentage disadvantage must be applied
 to the bid of that nonresident contractor.
- A nonresident contractor from a state that provides a percentage bid preference means a contractor that:
 - 1. Is from a state that provides a percentage bid preference to its resident contractors bidding on a public works contract.
 - 2. At the time of bidding on a public works project, does not have a physical office located in Washington.
- The state of residence for a nonresident contractor is the state in which the contractor
 was incorporated or, if not a corporation, the state where the contractor's business entity
 was formed.
- 31 All nonresident contractors will be evaluated for out of state bidder's preference. If the 32 state of the nonresident contractor provides an in-state contractor's preference, a 33 comparable percentage disadvantage will be applied to their bid prior to contract award.
- If a nonresident contractor is still the lowest responsive, responsible bidder after the
 Nonresident Disadvantage Total is applied, then they will be awarded a contract in the
 amount of their original bid (not including the disadvantage percentage amount).

1 This section does not apply to public works procured pursuant to RCW 39.04.155, 2 30.04.280, or any other procurement exempt from competitive bidding.

3 2.20 <u>CONTRACT AWARD</u>:

4 The Contract may be awarded to the lowest responsive, responsible Bidder complying with 5 the Project Manual (including, without limitation, the Contract Plans and Specifications) 6 and all applicable statutes, regulations, ordinances and resolutions, provided the Bid is 7 reasonable and in the best interests of the City. The City reserves the right to award to the 8 lowest responsive, responsible Bidder submitting the base bid, or base bid and any 9 alternative selected by the City, as determined most advantageous to the City. The City 10 reserves the right to reject any and all Bids, to reissue the Invitation for Bids, to revise or cancel the Project, or to waive any irregularities in the Bids received. The Contract is 11 12 subject to final approval by the City and is of no effect, and no rights against the City arise, until executed by the City Mayor. The Contract is further subject to requirements of 13 14 applicable federal and state agencies.

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2.21 <u>BID PROTESTS</u>:

The City's Protest Policy may be found at the following link:
 http://www.lynnwoodwa.gov/City-Services/Bids-Proposals.htm

20 2.22 QUALIFICATIONS OF BIDDERS

- A <u>Responsible Bidder Determination at Time of Bid:</u> Pursuant to RCW 39.04.350, it is the intent of Owner to award a contract to the low responsible bidder. <u>At the time of bid</u>, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder shall be required by the Owner to submit documentation demonstrating compliance with the criteria.
 - 1. Mandatory Bidder Responsibility Criteria:
 - a. <u>Criterion:</u> To be considered a responsible bidder, the bidder must:
 - 1) Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
 - 2) Have a current Washington Unified Business Identifier (UBI) number;
 - 3) If applicable:
 - a) Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
 - b) Have a Washington Employment Security Department number, as required in Title 50 RCW;
 - c) Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;

1	4) Not be disqualified from bidding on any public works contract under
2	RCW 39.06.010 or 39.12.065(3).
3	5) Not "willfully" violated state minimum wage laws within the last
4	three-year period prior to bid opening date.
5	b. Documentation:
6	1) For items a.1) through a.4), above, Bidder shall complete the
7	applicable portion of the "Responsible Bidder Determination
8	Form" in Section 4 and <u>submit with bid</u> .
9	2) For item a.5), above, Bidder shall submit with bid a completed
10	"Contractor Certification-Wage Law Compliance-
11	Responsibility Criteria" document (DOT Form 272-009) included
12	in the bid package.
13	2. Supplemental Bidder Responsibility Criteria:
14	a. Public Bidding Crimes
15	1. <u>Criterion</u> : The Bidder and any person with ownership interest
16	in the Bidder shall not have been convicted of a crime involving
17	bidding on a public works contract within five years from the
18	bid submittal deadline.
19	2. Documentation: The Bidder shall sign a statement (on a form
20	included at the end of Section 4) that the Bidder has not been
21	convicted of a crime involving bidding on a public works
22	contract in compliance with Section 2.22.A.2.a.1 and submit
23	with bid. The Owner may also use independent sources of
24	information that may be available to demonstrate whether the
25	Bidder is in compliance with this criterion
26	
27	b. Liquidated Damages
28	1. <u>Criterion</u> : The Bidder shall not have been assessed liquidated
29	damages related to the performance of a public works contract
30	by a government agency during the five year period immediately
31	proceeding the bid submittal deadline for this project, unless
32	there are extenuating circumstances acceptable to the Owner.
33	2. Documentation: The Bidder shall sign a statement (on a form
34	included at the end of Section 4) that the Bidder has not been
35	assessed liquidated damages related to the performance of a
36	public works contract by a government agency during the five
37	year period immediately proceeding the bid submittal deadline
38	for this project and <u>submit with bid</u> . The Owner may also use
39	independent sources of information that may be available to
40	demonstrate whether the Bidder is in compliance with this
41	criterion.
42	a Torreinstian for Course
43	c. Termination for Cause
44	1. <u>Criterion</u> : The Bidder shall not have had any public works
45	contract terminated for cause by a government agency during the

1		five year period immediately preceding the bid submittal
2		deadline for this project, unless there are extenuating
3		circumstances acceptable to the Owner.
4		2. Documentation: The Bidder shall sign a statement (on a form
5		included at the end of Section 4) that the Bidder has not had any
6		public works contract terminated for cause by a government
7		agency during the five year period immediately preceding the
8		bid submittal deadline for this project and submit with bid. The
9		Owner may also use independent sources of information that
10		may be available to demonstrate whether the Bidder is in
11		compliance with this criterion.
12		
13		d. Litigation
14		1. Criterion: The Bidder shall not have been a party as a plaintiff
15		or defendant in any lawsuits in Washington State superior or
16		district court in the Puget Sound region (defined as King, Kitsap,
17		Pierce, Snohomish and Thurston Counties) or federal district
18		court for Western Washington in the last six years involving
19		performance or payment issues relating to a public works
20		contract which were resolved adversely to the Bidder through
21		judgment or settlement, unless there are extenuating
22		circumstances acceptable to the Owner.
23		2. Documentation: The Bidder shall sign a statement (on a form
24		included at the end of Section 4) that the Bidder has not been a
25		plaintiff or defendant in any lawsuits in Washington State
26		superior or district court in the Puget Sound region (defined as
27		King, Kitsap, Pierce, Snohomish and Thurston Counties) or
28		federal district court for Western Washington in the last six years
29		involving performance or payment issues relating to a public
30		works contract which were resolved adversely to the Bidder
31		through judgment or settlement and submit with bid. The Owner
32		may also use independent sources of information that may be
33		available to demonstrate whether the Bidder is in compliance
34		with this criterion.
35	В	Supplemental Bidder Responsibility Criteria - Post Bid: In addition to the
36		mandatory bidder responsibility criteria referenced above, the bidder must also meet
37		the following relevant supplemental bidder responsibility criteria applicable to the
38		project and, as evidence that the bidder meets the supplemental bidder responsibility
39		criteria, the apparent and second low bidders must submit the required
40		documentation to the Owner within 48 hours of the bid opening. The Owner
41		reserves the right to request such documentation from other bidders:
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1 2 3 4 5 6 7 8	1.	 Delinquent State Taxes: a. <u>Criterion</u>: The Bidder shall not owe delinquent taxes to the Washington State Department of Revenue without a payment plat approved by the Department of Revenue. b. <u>Documentation</u>: Apparent Low Bidder shall, upon request, submitt Washington State Department of Revenue letter "Request for Tagstatus" to the Contracting Agency.
9	2.	Federal Debarment
10		a. <u>Criterion</u> : The Bidder shall not currently be debarred or suspended b
11		the Federal government.
12		b. Documentation: The Bidder shall not be listed as a current debarred of
13		suspended bidder on the U.S. General Services Administration
14		"System for Award Management" website: <u>http://www.sam.gov/</u> .
15		
16	3.	Business Status
17		a. <u>Criterion</u> : The Bidder shall not be "inactive" or "not in good standing
18		with the Washington State Secretary of State's Office, the Department
19		of Revenue or the Department of Labor & Industries.
20		b. Documentation: The Bidder shall provide documented informatic
21		from the Washington State Secretary of State's Office, the Department
22		of Revenue or the Department of Labor & Industries providing the day
23 24		of incorporation or formation, the state of incorporation or formation that the Bidder is eative and in good standing in the State of Washington
25		that the Bidder is active and in good standing in the State of Washington State of Washington tax reporting number, and the name and address of
26		the registered agent, general partner or managing member.
20 27		the registered agent, general partner of managing memoer.
28	Δ	Subcontractor Responsibility
29	ч.	a. <u>Criterion:</u> The Bidder's standard subcontract form shall include the
30		subcontractor responsibility language required by RCW 39.06.020, and
31		the Bidder shall have an established procedure which it utilizes the
32		validate the responsibility of each of its subcontractors. The Bidder
33		subcontract form shall also include a requirement that each of i
34		subcontractors shall have and document a similar procedure
35		determine whether the sub-tier subcontractors with whom it contrac
36		are also "responsible" subcontractors as defined by RCW 39.06.020.
37		b. Documentation: The Bidder shall submit a copy of its standar
38		subcontract form for review by the Owner, and a written description of
39		its procedure for validating the responsibility of subcontractors with
40		which it contracts.
41		
42	5.	Claims Against Retainage and Bonds
43		a. <u>Criterion</u> : The Bidder shall not have a record of excessive claims file
44		against the retainage or payment bonds for public works projects durin
45		the previous five years that demonstrate a lack of effective management

1 2 3 4 5 6 7 8 9 10 11 12 13	 by the Bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances acceptable to the Owner. b. <u>Documentation:</u> The Bidder shall submit a list of the public works projects completed within the previous five years and include for each project the following information: The owner and contact information for the owner; A list of claims filed against the retainage and/or payment bond for any of the projects listed; A written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.
14	
15	6. Completion of Similar Projects
16	a. <u>Criterion</u> : The Bidder shall have successfully completed projects of a
17	similar size and scope as required by the contract documents for this
18 19	project. In evaluating whether the projects were "successfully
20	completed," the Owner may check owner references for the previous projects and may evaluate the owner's assessment of the Bidder
20	performance, including but not limited to the following areas:
21	1. Quality control;
22	2. Safety record;
23	3. Timeliness of performance;
25	4. Use of skilled personnel;
26	5. Management of subcontractors;
27	6. Availability of and use of appropriate equipment;
28	7. Compliance with contract documents;
29	8. Management of submittals process, change orders, and close-
30	out.
31	b. Documentation: The Bidder shall submit a list of projects of similar
32	size and scope to this project as described in the Invitation to Bid
33	completed within the last five (5) years. The information about each
34	project shall include the following:
35	1. Owner's name and contact information for the owner's
36	representative;
37	2. Awarded contract amount;
38	3. Final contract amount;
39	4. A description of the scope of the project and how the project is
40	similar to this project;
41	5. The Bidder's assessment of its performance of each project,
42	including but not limited to the following:
43	a) Quality control;
44	b) Safety record;
45	c) Timeliness of performance;

1	d) Use of skilled personnel;
2	e) Management of subcontractors;
3	f) Availability of and use of appropriate equipment;
4	g) Compliance with contract documents;
5	h) Management of submittals process and change orders.
6	
7	7. Insurance
8	a. Criterion : The Bidder shall be able to fully comply with the insurance
9	requirements set forth in the Invitation to Bid and Project Manual.
10	b. <u>Documentation:</u> The Successful Bidder shall provide the Owner with
11	the types and amounts of insurance and related endorsements set forth
12	in the Invitation to Bid and Project Manual.
13	in the invitation to Did and Project Mandal.
14	C Subcontractor Responsibility: The successful Bidder shall include the language of
15	this section in each of its first tier subcontracts, and shall require each of its
16	subcontractors to include the same language of this section in each of their
17	subcontracts, adjusting only as necessary the terms used for the contracting parties.
18	Upon request of the Owner, the successful Bidder shall promptly provide
19	documentation to the Owner demonstrating that the subcontractor meets the
20	subcontractor responsibility criteria below. The requirements of this section apply to
20	all subcontractors regardless of tier.
21	e e
22	1. <u>Criteria</u> : At the time of subcontract execution, the successful Bidder shall verify that each of its first tier subcontractors most the following hidder
23 24	verify that each of its first tier subcontractors meets the following bidder
24 25	responsibility criteria:
	a. Have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of
26	
27 28	subcontract bid submittal; h. Have a current Weshington Unified Pusiness Identifier (UPI) number;
	b. Have a current Washington Unified Business Identifier (UBI) number;
29	c. If applicable, have:
30	1. Have Industrial Insurance (workers' compensation) coverage
31	for the subcontractor's employees working in Washington, as
32	required in Title 51 RCW;
33	2. A Washington Employment Security Department number, as
34	required in Title 50 RCW;
35	3. A Washington Department of Revenue state excise tax
36	registration number, as required in Title 82 RCW;
37	4. An electrical contractor license, if required by Chapter 19.28
38	RCW;
39	5. An elevator contractor license, if required by Chapter 70.87
40	RCW.
41	6. Not be disqualified from bidding on any public works contract
42	under RCW 39.06.010 or 39.12.065 (3).
43	

- 2. **Documentation:** The Bidder shall have all proposed subcontractors complete the "Responsible Bidder Determination Form" at the end of Section 4 and submit the form within 48 hours of bid opening.
- D References: The Owner may conduct reference checks for the apparent low and second low bidder whose bids are under consideration for award. In the event that information obtained from the reference checks: (1) reveals that the bidder does not meet the Supplemental Bidder Responsibility Criteria; or (2) indicates concerns about the bidder's performance on projects identified as meeting the Supplemental Bidder Responsibility Criteria, which may include, but not be limited to the quality of construction, the bidder's management of subcontractors, timeliness of required submittals, and safety record on the project; or (3) indicates other concerns about the bidder's ability to successfully perform the work, the owner shall have the right to determine that the bidder is not a responsible bidder.
- Prior to making such a determination that a bidder is not responsible based on information received through reference checks, the Owner may discuss with the bidder the information obtained from the references, and provide the bidder with the opportunity to offer explanations that may help inform whether the Owner declares the bidder not responsible.

In conducting reference checks, the Owner may include itself as a reference if the bidder has performed work for the Owner, even if the bidder did not identify the Owner as a reference.

If the Owner determines the bidder is not a responsible bidder, subject to following the requirements of the appeal process (see below), the Owner may award the contract to the next lowest bidder who meets the Supplemental Bidder Responsibility Criteria and whose reference checks validate the ability of the bidder to successfully perform the work.

- E Failure to Submit Documentation: If a bidder fails to submit the documentation required by the bidding documents to demonstrate compliance with the Mandatory and Supplemental Bidder Responsibility Criteria within the time period specified in the bidding documents, the Owner may: (1) find the bidder not responsible, or (2) find the bidder responsible based upon any available information that demonstrates that the bidder meets the Mandatory and Supplemental Bidder Responsibility Criteria.
- F Procedure to Request Modification of Supplemental Bidder Responsibility
 Criteria. During the bidding period, but not later than five (5) business days before the
 bid submittal deadline, a potential bidder may request that the Owner modify the
 supplemental bidder responsibility criteria. The Owner shall evaluate any such
 requests, and if a decision is made by the Owner in its sole discretion to modify the
 criteria, such modification shall be communicated to all bidders and plan holders via
 the issuance of an addendum to the bidding documents. If the Owner determines not to

modify the supplemental criteria, the Owner shall notify the requesting bidder of its decision in writing.

- G <u>Appeal of Determination that Bidder does not Meet Responsibility Criteria:</u> If the Owner determines that a bidder does not meet the bidder responsibility criteria set forth in this section and is therefore not a responsible bidder, the Owner shall notify the bidder in writing with the reasons for its determination. If the bidder disagrees with this determination, it may appeal the determination within 24 hours of receipt of the Owner's determination by presenting additional information in writing to the Owner. The Owner will consider the additional information before issuing its final determination in writing. If the final determination affirms that the bidder until two (2) business days after the bidder determined to be not responsible has received written notice of the final determination. For the purposes of this subsection, the date of the Owner's transmission of the Owner's determination(s) by facsimile or electronic mail to the bidder at the facsimile number or e-mail address provided by the bidder in its bid shall constitute the date of receipt by the bidder of the written notices provided for herein.
- The Owner may make such investigations as it deems necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose. A Contract will not be awarded until the Owner has satisfied itself that the successful Bidder is familiar with this class of work, has successfully completed similar projects, and has the necessary capital and tools to satisfactorily perform the same. The right is specifically reserved by the Owner to reject any or all Proposals, to accept the Proposal of the lowest responsible Bidder or to re-advertise for new Proposals.

The Bidder's attention is hereby directed to that portion of the Contract Documents which require that the Bidder furnish information concerning Bidder's experience with work of a similar nature, equipment to be used on this project, and general background information.

The Owner, in its discretion, may determine that a Bidder is not responsible and reject Bidder's proposal for any of the following reasons or for any other reason deemed proper.

- 1. More than one proposal on the same project from a Bidder under the same or different names;
- 2. Evidence of collusion with any other Bidder or Bidders. Participants in such collusion shall be disqualified from submitting bids on any further work;
 - 3. If a Bidder is not qualified for the work involved or to the extent of this Bid;
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1 2	5. Incompleted work, whether for the Owner or otherwise, which might hinder or prevent the prompt completion of the work bid upon;
3	6. Failure to pay or settle bills for labor or materials on former or current contracts;
4	7. If the Bidder has previously defaulted in the performance of or failed to
5	complete a written public contract, or has been convicted of a crime arising
6	from a previous public contract;
7	8. Any other inability, financial or otherwise, to perform a previous public
8	contract;
9	9. A bidder not authorized to do business in the State of Washington.
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11	The Owner reserves the right to approve all subcontractors on the basis of work record,
12	equipment, experience and ability.
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1	SECTION 3
2	GENERAL PROVISIONS

1

GENERAL PROVISIONS

2 3.01 <u>GENERAL</u>:

3 All Work included in the Project shall be done for the price set forth in the Bid of the 4 successful Bidder (the "Contract Sum"), in accordance with the Project Manual, including, 5 without limitation, the Contract Plans and Specifications, and with the Standard 6 Specifications for Road, Bridge and Municipal Construction (English version), 2018 7 edition, as issued by the Washington State Department of Transportation ("Standard 8 Specifications"). "Consultant" as used herein refers to the City's Consulting Engineer 9 and/or Architect. "Construction Manager" as used herein refers to the City's representative 10 who administers the construction program for the City. "Resident Engineer" as used herein 11 refers to the City's representative who manages a specific construction project. Director as 12 used herein refers to the City's representative who acts as the head of the City Public Works 13 Department.

14 3.02 <u>AWARD OF CONTRACT</u>:

A Contract will not be awarded until the City is satisfied that the successful Bidder is familiar with this type of Work and has the necessary capital and tools to satisfactorily complete the Project. The City specifically reserves the right to accept the Bid of the lowest responsive, responsible Bidder, to reject any and all Bids, to reissue the Invitation for Bids, to revise or cancel the Project, or to waive any irregularities in the Bids received.

20 3.03 <u>CONTRACT DOCUMENTS</u>:

21 .1 This Project Manual consists of the following Contract Documents and shall be a 22 part of the Contract entered into by the City and the successful Bidder (the "Contractor"): 23 Invitation for Bids, Instruction to Bidders, General Provisions, Bid Form, Contract, 24 Payment and Performance Bonds, Prevailing Wage Rate, Local Agency General Special (Engineering 25 Provisions. Special Provisions, Contract Plans, Specifications, 26 Specifications, when the CSI format is used), and the Standard Specifications for Road, 27 Bridge and Municipal Construction 2018 edition (English version) (the "Standard Specifications"), which are incorporated herein by this reference (provided that, as used in 28 the Standard Specifications, "State" means City of Lynnwood;" "Department of 29 Transportation" means "Department of Public Works;" "Secretary" means "Director of 30 31 Public Works"). In the event there is any conflict, ambiguity, or inconsistency between 32 any of the foregoing Contract Documents, the following order of documents governs so 33 that the former prevails over the latter:

- 34 (i) Addenda,
- 35 (ii) Contract,
- 36 (iii) Bid Form,
- 37 (iv) Instructions to Bidders,

1	(v) Special Provisions,
2	(vi) Contract Plans,
3	(vii) General Provisions,
4	(viii) Amendments to the Standard Specifications,
5	(ix) Standard Specifications,
6	(x) Standard Plans, and
7	(xi) Payment and Performance Bonds.
8	.2 In the event there exists a conflict, inconsistency, or ambiguity within the terms or
9	conditions of one of the Contract Document categories set forth above that is not resolved
10	under subsection 1, the more stringent or more costly requirements or greater quantity or
11	quality shall be deemed to have been intended and to have been included in the original
12	Contract Price.

13 3.04 FAILURE TO EXECUTE CONTRACT:

Failure to execute the Contract in compliance with this Project Manual shall result in forfeiture of the Bidder's Deposit. If this should occur, the City may then award the Contract to the next lowest responsive, responsible Bidder, reject any or all Bids, reissue the Invitation for Bids, or revise or cancel the Project.

18 3.05 <u>ALTERATION OR MODIFICATION</u>:

- 19 No alteration or modification of the Contract Documents will be binding unless set forth20 in writing signed by the City.
- 21 3.06 <u>ADDITIONS OR DELETIONS</u>:
- The City reserves the right to add or delete Work from the Contract, subject to appropriateadjustments to the Contract Sum.
- 24 3.07 <u>NOTICE TO PROCEED</u>:
- A Notice to Proceed will be given after the Contract has been executed by the City and the Contractor and, where applicable, by any State or Federal agencies responsible for funding any portion of the Project. The time allowed for Physical Completion of the Work shall begin as of the date specified in the Notice to Proceed, or if no date is specified, ten calendar days after the date of issuance of the Notice to Proceed, or the date work commences, whichever is earlier. The Contractor shall not commence the Work until the Notice to Proceed has been given by the City.
- 32

1 3.08 <u>CONSTRUCTION SCHEDULE AND TIME LIMIT</u>:

.1 Within ten (10) calendar days after issuance of the Notice to Proceed, the Contractor shall submit a preliminary schedule for the orderly performance and completion of all parts of the Work in accordance with the Contract and within the Contract Time ("Construction Schedule"). The Construction Schedule shall be based upon a critical path method analysis of construction activities and sequence of operations, in the form of a precedence diagram and activity listing, shall be time scaled, and shall include the Notice to Proceed date, the date(s) of Substantial and Physical Completion, and the date(s) of Final Completion in accordance with the Contract Documents, along with clearly defined milestone completion dates. The Construction Schedule will be provided both as a document (network diagram) and electronically.

- 12 .2 The network diagram shall show in detail and in order the sequence of all 13 significant activities, their descriptions necessary to complete all parts of the Work, and 14 shall show the following information for each activity:
- 15 (i) description,
- 16 (ii) duration,
- 17 (iii) craft,

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- 18 (iv) equipment,
- 19 (v) start and finish dates,
- 20 (vi) total float time and free float time, and
 - (vii) dates that work must be performed and completed by other contractors and subcontractors to support the Work.
- The electronic schedule shall be unmodified from the Contractor's version and show all
 input parameters including, but not limited to, logic ties, constraints, and assumptions.

25 .3 The Contractor shall perform the Work at all reasonable times so as to complete the 26 Work in accordance with the Construction Schedule, and shall discontinue the Work only 27 if delayed by inclement weather that could not have been reasonably anticipated at the time 28 the Contractor submitted its Bid. Except for delays due to unanticipated inclement weather, 29 the City shall be entitled to all float in the Construction Schedule and the Contractor shall 30 not be entitled to any adjustment in the Contract Time, the Construction Schedule or the 31 Contract Sum, or to any additional payment of any sort by reason of the loss or use of any 32 float time, including time between the Contractor's anticipated completion date and the 33 end of the Contract Time, whether or not the float time is described as such on the Construction Schedule. 34

35 .4 Should the Contractor fail to meet any scheduled date as shown on the current
 36 Construction Schedule or if the sequence of the Work varies significantly from that shown

1 on the Construction Schedule, the Contractor shall, at the Contractor's own expense, 2 submit an updated Construction Schedule within ten days after notice from the City. 3 Should the Contractor fail to provide an updated Construction Schedule in the time required 4 herein, the City may, in its sole discretion, withhold payment from Contractor until an 5 updated Construction Schedule in compliance with subsection 3.08.2 is received. If the 6 Contractor's progress indicates that the Work will not be Physically Completed within the 7 Contract Time, upon notice from the City, the Contractor shall, at the Contractor's own 8 expense, increase its work force and working hours to bring the actual completion dates of 9 the activities into conformance with the Construction Schedule and Physical Completion 10 within the Contract Time.

- 11.5The Contractor shall attain Physical Completion of the Work in accordance with12the Contract within 60 calendar days after the date of Substantial Completion.
- .6 During the period commencing with the issuance of Notice to Proceed and ending
 with the date of Physical Completion of the Work, the Contractor shall attend and
 participate in and ensure applicable Subcontractors of any tier and Suppliers attend and
 participate in:
- 17 (i) A Pre-contract Meeting;

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- (ii) A Pre-construction Meeting;
- 19(iii)Regular weekly Project status meetings as scheduled by the City to review20progress of the Work, to discuss the Contractor's progress reports, and to21obtain necessary City approvals, and generally to keep the City informed22and involved in the progress of the Project; and
 - (iv) Regular on-site meetings as scheduled by the City to review progress of the Work and other pertinent matters.

25 .7 In the event the Contractor fails to proceed with the Work for more than ten (10) 26 working days, the Contractor shall be deemed to have abandoned the Project, and the City 27 may, in its discretion, elect to terminate the Contract and thereafter proceed to complete the Project through its own forces or through an independent third party. In such event, 28 the Contractor will be responsible for all expenses reasonably incurred by the City in 29 30 completing the Work. The Contractor will also be responsible for all legal, engineering or 31 other costs caused by the Contractor's abandonment of the Project, or the failure or refusal 32 of the Contractor to complete the Work within the Contract Time.

33 3.09 <u>DELAYS & EXTENSION OF TIME</u>:

34 .1 The Contractor shall notify the City in writing of any event which could delay
35 performance of any part of the Work, of the anticipated effect of the delay on the
36 Construction Schedule, of the action being taken to correct the delay situation, and of any
37 proposed changes in the Construction Schedule or the Contract Time. The Contractor shall
38 not recover damages, a monetary adjustment or an increase in the Contract Sum from the
39 City for any disruption or delay where (i) the actions or inactions of the City were not the

- actual, substantial cause of the disruption or delay, or (ii) the Contractor could have reasonably avoided the disruption or delay by the exercise of due diligence.
- .2 If a disruption or delay is not actually and substantially caused by the City, in lieu of damages, a monetary adjustment or an increase in the Contract Sum, the Contractor may be granted equitable changes in the Construction Schedule and/or extensions of the Contract Time under the following circumstances:
- 7(i)If a disruption or delay is caused by a suit or other legal action against the
City, the Contractor will receive an equivalent extension of the Contract
Time, unless the period of such delay-exceeds ninety (90) calendar days.10When such period is exceeded, the City will, upon request of the Contractor,
in writing, either negotiate a termination of the Contract or grant a further
extension of the Contract Time, whichever may at the time be in the best
interests of the City.
- 14(ii)If the disruption or delay is due to inclement weather which could not have15been anticipated by the Contractor or reasonably avoided by the exercise of16due diligence, subject to the approval of the City, the Contractor will receive17an extension of the Contract Time equivalent to the total time lost, whether18it be a single continuous period or the accumulated total of several periods.
- 19 (iii) Should a disruption or delay be caused by other unforeseen circumstances 20 beyond the reasonable control of the Contractor which could not be avoided by the exercise of due diligence, or should performance of work under a 21 22 Change Order make the Work more complex or difficult than originally set 23 forth in the Contract Documents, and such work, in the Contractor's 24 opinion, requires more time to execute than allowed by the Contract, the 25 Contractor shall notify the City in writing prior to the performance of such work, setting forth in detail its estimate of the additional time required for 26 27 such work. If such estimate is approved by the City, the Contractor will receive an equitable extension of the Contract Time. 28
- 29 .3 In the event the Contractor (including any subcontractors or suppliers of any tier) 30 is held to be entitled to damages from the City for disruption or delay, it is agreed that the 31 total damages to the Contractor (including damages to any subcontractor or supplier of any 32 tier) shall be limited to the lesser of (i) the time and materials costs associated with the 33 impact of such disruption or delay, along with markups on the Contractor's own work and 34 on that of its subcontractors and suppliers at the rates specified in the Contract, or (ii) the 35 daily liquidated damages rate specified in the Contract. No damages will be allowed and the Contractor waives any such damages or costs incurred for any time prior to ten (10) 36 calendar days before receipt of a written notice of disruption or delay. 37
- 38 .4 The Contractor will not in any event be entitled to damages, a monetary adjustment
 39 or an increase in the Contract Sum arising out of any actual or alleged loss of efficiency;
 40 morale, fatigue, attitude or labor rhythm; constructive acceleration; home office overhead;
 41 expectant underrun; trade stacking; reassignment of workers; concurrent operations;

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dilution of supervision; learning curve; beneficial or joint occupancy; logistics; ripple;
 season change; extended overhead; profit upon damages for delay; impact damages; or
 similar damages or other form of economic loss.

4 3.10 <u>EQUIPMENT AND MATERIALS SPECIFIED</u>:

5 Within the Contract Documents, certain processes, materials or equipment are designated 6 by brand, style, trade name, or manufacturer in order to set forth a standard of quality, 7 and/or preference by the City. It is not the intent to exclude other processes, materials or 8 equipment of a type and quality equal to those designated. Whenever a manufacturer's 9 name, brand, style or item designation is given, it shall be understood that the words "or equal" follow such name or designation whether in fact they do so or not; provided, 10 however, that the Contractor shall not substitute any alternative process, material or item 11 12 of equipment unless such has been approved in advance in writing by the City. No additional compensation or extension of time will be allowed the Contractor for any 13 14 changes required to adopt a substitute process, material or item of equipment unless approved in advance in writing by the City. Therefore, the Contractor's Bid (and the 15 16 Contract) shall include any proposed substitutions and all costs for any modifications to the Work which may be necessary for approval and adaptation of the proposed 17 18 substitutions.

19 3.11 <u>SAFETY MEASURES</u>:

20 All Work shall be performed in a safe manner, and the Contractor and all .1 subcontractors shall observe the Federal Occupational Safety and Health Act, the 21 22 Washington Industrial Safety and Health Act (WISHA), and all rules and regulations 23 promulgated thereunder, all rules, regulations and orders of the Washington State 24 Department of Labor and Industries and any other governmental authority, and all other 25 applicable safety standards. In case of conflict between any such requirements, the more 26 stringent regulation or requirement shall apply. There is no acceptable deviation from these 27 safety requirements, regardless of practice in the construction industry. Any violation of 28 OSHA, WISHA, or other safety requirements applicable to the work may, at the sole 29 discretion of the City, be considered a material breach of this Contract. The Contractor shall be solely and completely responsible for conditions of the job site, including the safety 30 31 of all persons and property during performance of the Work. This requirement shall apply 32 continuously and not be limited to normal working hours.

32 .2 Review by the Resident Engineer of the Contractor's plan for the sequence, 34 schedule and performance of the Work is not intended to and will not include any review 35 or approval of the adequacy of the Contractor's safety measures in, on, or near the job site. 36 The Resident Engineer does not purport to be a safety expert, will not be so engaged in that 37 capacity with respect to the Project, and has neither the authority nor the responsibility to 38 enforce construction safety laws, rules, regulations or procedures, or to order a stoppage of 39 the Work for claimed violations thereof.

40 .3 The Contractor shall at all times exercise every precaution for the prevention of 41 accidents and the protection of persons (including, without limitation, employees of the

1 City, the Contractor and all subcontractors) and property (including, without limitation, property owned by the City or any third party). All exposed moving parts of equipment 2 3 capable of inflicting injury by accidental contact shall be protected with sturdy removable 4 guards in accordance with applicable safety regulations.

5 3 1 2 CHANGES IN THE WORK:

6 The City may, at any time, without notice to the sureties, and without invalidating .1 the Contract, by order designated or indicated to be a change order or directive, make any 7 8 change, including modifications to, additions to or deletions from the Work within the 9 general scope of the Contract ("Change"), including, but not limited to, changes:

- 10
- (i) In the Contract Plans and Specifications;
- 11 In the quantities or performance of the Work; (ii)
- 12
 - (iii) In any City-furnished facilities, equipment, materials, services or site; or
- 13
- Directing acceleration or suspension of the performance of the Work. (iv)

14 If the Contractor intends to assert a Claim for any Change in the Work the .2 Contractor shall, within 10 calendar days after receipt of a notice of a Change, submit to 15 the City a written statement setting forth the general nature and monetary and other impact 16 of such Change, unless this period is extended, in writing, by the City. All Claims must be 17 18 made in strict accordance with the applicable provisions of the Contract Documents, 19 including Paragraphs 3.31 - 3.33 hereto, or they will be waived.

- 20 .3 Change orders and directives will be prepared and executed in triplicate; two copies 21 shall be retained by the City, and one copy shall be delivered to the Contractor.
- 22 .4 WSDOT Standard Specifications Section 1-04.4 remains in force.

23 3.13 **INCREASED OR DECREASED QUANTITIES:**

24 In the case of unit prices, when accepted quantities of Work vary from the original Bid 25 quantities, payment will be at the unit contract price for accepted Work unless the total 26 quantity of any contract item increases or decreases by more than 25% of the original Bid 27 quantity.

1 3.14 <u>GUARANTEE</u>:

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The Contractor hereby guarantees that all Work (including, without limitation, all labor, materials and equipment) furnished by the Contractor under the Contract will meet fully all requirements for quality of workmanship, materials, strength and any and all other requirements set forth in the Contract Documents (including, without limitation, the Contract Plans and Specifications).

7 3.15 <u>PAYMENT AND PERFORMANCE BONDS</u>:

8 The Contractor shall furnish both a Payment Bond and a Performance Bond, each in the 9 full amount of the Contract Sum, which shall guarantee the faithful performance of the 10 Contract and the payment of all labor, mechanics, subcontractors, material and taxes. The Contractor shall maintain the Payment and Performance Bonds in full force and effect until 11 12 Completion of the Project and acceptance by the City, and thereafter for a minimum of two 13 (2) years with respect to the Performance Bond and for such period as the law allows for 14 the filing or enforcement of liens with respect to the Payment Bond. The Payment and Performance Bonds shall be furnished by a corporate surety company or companies 15 authorized to do business in the State of Washington and acceptable to the City in its 16 17 discretion, in substantially the forms included in the Project Manual. Notwithstanding the 18 foregoing, on contracts of \$25,000 or less, at the option of the Contractor, the City may, in 19 lieu of Payment and Performance Bonds, retain 50% of the Contract Sum for (i) a period 20 of thirty (30) days after the City's final acceptance of the Project, or (ii) until receipt of all 21 necessary releases from the Washington Department of Revenue and Department of Labor and Industries, and settlement of all liens filed against the Project, whichever is later. 22

23 3.16 <u>LICENSES, PERMITS AND TAXES</u>:

- The Contractor shall procure, at Contractor's expense, all permits and licenses, pay all charges, fees and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the Work.
- 27 3.17 <u>HOLD HARMLESS</u>:
- 1. The Contractor agrees to indemnify, defend and hold harmless the City from and against any and all claims, damages, losses, liabilities and expenses, including reasonable attorney's and expert fees and costs, arising out of or relating to Contractor's performance of this Contract, including, without limitation, any and all claims, damages and liabilities
- 32 (i) under workers' or workmen's compensation, disability benefit and other
 33 similar employee benefit acts which are applicable to the Work;
- 34 (ii) because of bodily injury, occupational sickness or disease, or death of any
 35 employee of the Contractor;
- 36 (iii) because of bodily injury, sickness or disease, or death of any person other
 37 than the Contractor's employees;

- 1 (iv) sustained by a person as a result of a claim directly or indirectly related to 2 employment of such person by the Contractor, or by another person; 3 because of injury to or destruction of tangible property, including loss of (v) 4 use resulting therefrom; 5 because of bodily injury, death of a person or property damage arising out (vi) of ownership, maintenance or use of a motor vehicle and/or mobile 6 7 equipment; or 8 (vii) involving contractual liability insurance applicable to the Contractor's 9 obligations hereunder. Contractor waives any right of contribution against 10 the City. 11 .2 For the purposes of RCW 4.24.115, the Contractor and City agree that the term "damages" applies only to the finding in a judicial proceeding and is exclusive of third 12 13 party claims for damages preliminary thereto. 14 .3 It is mutually negotiated and agreed that in any claim against the City or any of its 15 agents or employees, by the Contractor, any subcontractor, anyone directly or indirectly 16 employed by any of them, or anyone for whose acts any of them may be liable, the 17 Contractor's indemnification obligation hereunder shall not be limited in any way by any 18 limitation on the amount or type of damages, compensation or benefits payable by or for 19 the Contractor or any subcontractor under Workman's Compensation Acts, disability benefits acts or other employee's benefit acts. The City and the Contractor agree that all 20 21 third party claims for damages against the City of which the Contractor's insurance carrier 22 does not accept defense may be tendered by the City to the Contractor, who shall accept 23 and undertake to defend or settle the same. Notwithstanding the foregoing, the City retains
- 24 the right to approve claims investigations and legal counsel assigned to defend such claims. 25 All investigation and legal work product regarding such claims shall be performed under a 26 fiduciary relationship to the City. In the event that the City agrees or a court finds that any 27 claim for bodily injury to persons or damage to property arises from the sole negligence of 28 the City, or its agents or employees, this indemnification and duty to defend shall be void. 29 In the event that the City and the Contractor agree or a court finds that any claim for bodily 30 injury to persons or damage to property is caused by or resulting from the concurrent 31 negligence of the Contractor, or its agents, employees, or subcontractors, and the City, or 32 its agents or employees, the Contractor shall be responsible for all damages payable to the 33 claimant, and, in addition thereto, the Contractor shall defend and indemnify the City for 34 all damages paid or payable by the City, in an amount not to exceed the percentage of total 35 fault attributable to the Contractor, its agents, employees, or subcontractors. For example, where the Contractor (or its agents, employees, or subcontractors) is 25% negligent, the 36 Contractor shall not be required to indemnify the City for any amount in excess of 25% of 37 38 the claimant's total damages, and shall only be responsible for 25% of the costs to defend 39 the claim. Solely and expressly for the purpose of its duties to indemnify, defend, and 40 hold harmless the City, the Contractor specifically waives any immunity it may have under the State Industrial Insurance Law, Title 51 RCW. 41

1 3.18 <u>WORKER'S BENEFITS</u>.

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.1 The Contractor shall make all payments required for unemployment compensation under Title 50 RCW and for industrial insurance and medical aid required under Title 51 RCW. If any such payment is not made when due, the City may retain such amount from any monies due the Contractor and may pay the same into the appropriate fund.

6 .2 The Contractor shall include in the various items in the Bid all costs for payment 7 of unemployment compensation and for providing all required insurance coverages. The 8 Contractor will not be entitled to any additional payment for: (i) failure to include such 9 costs, or (ii) determinations made by the U.S. Department of Labor or the Washington State 10 Department of Labor and Industries regarding such insurance coverages.

11 3.19 CONTRACTOR'S LIABILITY & PROPERTY DAMAGE INSURANCE:

12 The Contractor shall not commence the Work until the Contractor has furnished the .1 13 City with an Acord 25 Insurance Certificate as evidence of the required policies, and upon 14 request by the City, with evidence (in duplicate copy) of all policies of insurance required 15 hereunder, and such insurance has been approved by the City; nor shall the Contractor 16 allow any subcontractor to commence Work on its subcontract until such subcontractor has 17 complied with such insurance requirements. Approval of any insurance by the City shall not relieve or decrease the liability of the Contractor for any damages arising from or 18 related to the Contractor's performance of the Work. All insurance required shall be with 19 20 insurers with a financial rating from A.M. Best Company of A(-) VII or better.

21 .2 The Contractor shall procure and maintain, during the term of the Contract, 22 Commercial General Liability and Commercial Automobile Liability Insurance, as set 23 forth below. The insurance policies shall include the City, and others if required by the 24 Contract Documents, as Additional Insureds for both ongoing and completed operations. 25 Products and Completed Operations coverage shall be maintained for not less than three 26 years following completion of the project. There shall also be included contractual liability 27 coverage sufficiently broad to insure the provisions of Section 3.17 above.

- 28 Contractor insurance policies shall include Lynnwood as Additional Insured for both 29 ongoing and completed operations, using Insurance Services Office forms CG 2010 (07-30 04) and CG2037(07-04) or the equivalent, on a Primary Basis and others if required by the 31 Contract documents and such insurance shall not include a cross-claims or similar 32 exclusion.
- The Contractor shall provide the Contracting Agency and all Additional Insureds with written notice of any policy cancelation, within two business days of their receipt of such notice.
- A Certificate of Insurance including a copy of the Additional Insured Endorsement on
 Forms CG 2010 (07-04) and CG 2037(07-04) shall be filed with Lynnwood after award,
 but prior to execution of the contract, for a primary policy of Commercial General Liability
 insurance and Commercial Automobile Liability insurance meeting the requirements
 herein.

1 2 3 4	.3 The Commercial General Liability Insurance shall be written using Insurance Services Office form CG0001(12-07) or the equivalent with limits of liability in no case less than \$1,000,000 each occurrence and \$2,000,000 in the aggregate. Coverage shall include:
5	(i) Premises & Operations;
6	(ii) Liability of the insured arising out of operations of subcontractors;
7 8 9	 Products Liability, including Completed Operations Coverage; Products & Completed Operations coverage shall be maintained for not less than three years following completion of the project;
10	(iv) Contractual Liability;
11	(v) Broad Form Property Damage;
12	(vi) Employees as Additional Insured;
13	(vii) Explosion, Collapse & Underground Hazard;
14	(viii) Independent Contractors;
15	(ix) Personal Injury;
16	(x) Stop Gap or Employer's Liability; and
17	(xi) Cross Liability Clause or Separation of Insureds Clause.
18 19 20 21	.4 The Commercial Automobile Liability Insurance shall be written on Insurance Services Office form CA0001(03-10) or the equivalent with limits of liability as required by the Supplementary General Conditions but shall in no case be for limits less than \$1,000,000 each accident. Coverage shall include:
22	(i) All owned automobiles, if any;
23	(ii) Non-owned automobiles;
24	(iii) Hired automobiles.
25 26 27 28 29 30	.5 The insurance coverages listed above shall protect the Contractor and the City from claims for damages for bodily injury, including death resulting therefrom, as well as claims for property damage, which may arise from operations under the Contract, whether such operations be by the Contractor or by any subcontractor or by anyone directly employed by any of them, it being understood that it is the Contractor's obligation to enforce the requirements of this section in respect to any subcontractor employed for this Project.
31 32 33	.6 Any Umbrella Liability Insurance or Excess Liability Insurance shall be written to provide limits in excess of the underlying Commercial General Liability, Commercial Automobile Liability and Employer's Liability (Stop Gap) with limits of not less than

- \$2,000,000 each occurrence and \$2,000,000 aggregate; HOWEVER, \$5,000,000 Umbrella
 Liability insurance is required for contracts exceeding \$200,000 and/or with a stated
 construction time for completion that is greater than 120 days, and/ or for contracts that
 require roadway and/or trenching activity.
- 5 .7 Commercial General Liability Bodily Injury Liability Insurance shall be written on 6 an occurrence basis for bodily injury, sickness or disease, including death resulting 7 therefrom.
- 8 .8 Commercial General Liability Property Damage Liability Insurance shall be 9 written on an occurrence basis for damage to or destruction of property, including loss of 10 use thereof, and shall not exclude:
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- ("X") Injury to or destruction of any property arising out of blasting or explosion;
- 12 ("C") Injury to or destruction of any property arising out of the collapse or 13 structural injury to any building or structure due to:
 - (i) Excavation, including borrowing, filling or backfilling in connection therewith, or tunneling, pile driving, cofferdam Work or caisson Work, or
 - Moving, shoring, underpinning, raising or demolition of any building or structure or removal or rebuilding of any structural support thereof.
- 20 ("U") (i) Injury to or destruction of wires, conduits, pipes, mains, sewers or
 21 other similar property or any apparatus in connection therewith,
 22 below the surface of the ground, if such injury or destruction is
 23 caused by and occurs during the use of mechanical equipment for
 24 the purpose of excavating or drilling, or
 - (ii) Injury to or destruction of property at any time resulting therefrom.
- 26 .9 Nothing contained in these insurance requirements is to be construed as limiting 27 the Contractor's liability for damages resulting from its operations under the Contract.
- 28 .10 Prior to commencement of the Work, the Contractor shall furnish the City with
 29 certified copies of all insurance policy or policies, including all endorsements, required
 30 hereunder.
- 31 .11 The City and Contractor waive all rights against each other and any of their
 32 subcontractors, sub-subcontractors, agents and employees for damages caused by fire or
 33 other perils to the extent covered by property insurance agreement or other property
 34 insurance applicable to the Work, except such rights as they have to proceeds of such
 35 insurance.

1 .12 The Contractor shall require its first tier subcontractors and subcontractor of any 2 tier whose subcontract is for an amount greater than \$50,000 to provide the scope and 3 amount of insurance coverage and evidence of such coverage, including any requirements 4 to list and/or name the City or Contractor as additional insured, in accordance with the 5 requirements of the Contract.

6 3.20 CONTRACTOR'S BUILDER'S RISK INSURANCE:

7 Prior to commencement of the Work, when required by the special provisions, the .1 8 Contractor shall submit written evidence that the Contractor has obtained and will maintain 9 until the Project is accepted by the City as complete, Course of Construction Completed 10 Value Insurance Coverage (including Earthquake, Flood, Landslide, Collapse and Damage resulting from Faulty Workmanship, Material or Design) upon the entire Work which is 11 12 the subject of the Contract, and including completed Work and Work in progress. The insurance policies shall include the City, and others if required by the Contract Documents, 13 14 as Additional Insureds. An Acord 24 Property Insurance Certificate shall be provided to 15 the City as evidence of this coverage.

16 .2 Such insurance may have a deductible clause, which shall not exceed \$5,000,
17 except that the deductible on Earthquake, Flood and Landslide may be in accordance with
18 underwriters' requirements. Builders' Risk "All-Risk" Insurance shall include provisions
19 for Flood and Earthquake, on a 100% completed value basis on the insurable portion of the
20 Project. The Contractor shall be responsible for all deductible amounts.

21 3.21 <u>COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE</u>:

1 The Contractor shall maintain Worker's Compensation Insurance as required by
State law for all of employees to be engaged in the Work. Should any Work be
subcontracted, the Contractor shall require the subcontractors similarly to provide
Worker's Compensation Insurance for all of the subcontractors' employees to be engaged
in such Work. The Contractor's Labor and Industries account number shall be provided in
the Bid in the space provided.

28 .2 In the event any class of employees engaged in Work on the Project is not covered 29 under the Worker's Compensation Insurance as required by the State law, the Contractor 30 shall provide, and shall cause each subcontractor to provide, Employer's Liability 31 Insurance with a private insurance company with limits of at least \$1,000,000 each 32 accident, \$1,000,000 each employee and shall furnish the City with satisfactory evidence 33 of the same prior to commencement of the Work.

34 3.22 <u>CONTRACTOR RESPONSIBLE FOR WORK</u>:

The Contractor warrants to the City that: (i) the materials and equipment furnished under the Contract will be of good quality and new, unless otherwise required or permitted by the Contract Documents; (ii) the Work will conform to the requirements of the Contract Documents; and (iii) the Work will be free from defects in materials and workmanship for a period of not less than two (2) years after the Work has been completed and accepted by the City in writing, or such longer period as specified in the Contract Documents. Any Work not conforming to these requirements, including substitutions or deviations not properly approved by the City, will be considered defective and will be repaired or replaced at the Contractor's sole expense. Deviations, alterations, variations, additions, or omissions from the Contract requirements without prior written consent shall preclude Contractor from bringing any Claim on the basis of an alleged defect or error in the Contract Documents.

7 3.23 <u>POSSESSION</u>:

8 The City reserves the right to use and occupy any portion of the improvements which have 9 been completed sufficiently to permit use and occupancy; provided that such use and 10 occupancy shall not be construed as an acceptance of all or any portion of the Work. The 11 City shall not be deemed to have waived any claims it may have against the Contractor by 12 reason of such use and occupancy.

13 3.24 <u>RISK OF LOSS</u>:

14The Contractor shall assume all risk of loss of materials, equipment or other supplies15through theft, fire, act of God, or any other cause until written acceptance of the Project by16the City, at which time risk of loss shall transfer to the City. No partial payment or advance17by the City shall change the foregoing allocation of risk of loss.

18 3.25 <u>APPLICABLE LAW AND FORUM</u>:

Except as specifically provided herein, the Contract shall be governed by and construed according to the laws of the State of Washington. Any suit arising herefrom shall be brought in Snohomish County (Washington) Superior Court, which shall have sole and exclusive jurisdiction and venue.

23 3.26 THIS SECTION NOT USED.

24 3.27 <u>WAGE RATES</u>:

25 The Contractor and all subcontractors are required to abide by Section 1-07.9 of the Standard Specifications and the State's Prevailing Wage Act, Chapter 39.12 RCW and 26 27 Chapter 49.28 RCW. A copy of the current prevailing wage rates is available from the 28 State of Washington, Department of Labor and Industries, Industrial Relations Division, 29 General Administration Building, Olympia, WA 98501, ATTN: Industrial Statistician, as 30 outlined in Section 7 of the Project Manual and shall be incorporated in and become a part 31 of the Contract. No worker shall be paid less than the specified hourly rate. The Contractor and all subcontractors must submit a "Statement of Intent to Pay Prevailing Wages" 32 33 approved by the Department of Labor and Industries to the City prior to any payments 34 being made. All fees are the responsibility of the Contractor. The Contractor shall post a "Statement of Intent to Pay Prevailing Wages" and a copy of the current prevailing wage 35 rates on the Project site. 36

It is the Contractor's responsibility to see that all subcontractors comply with the above.
Progress payments will not be released until all subcontractors have complied.

Following Physical Completion of the Project, the Contractor and each subcontractor shall
 submit an "Affidavit of Wages Paid." The Completion date of the Contract will not be
 established until all affidavits have been received.

4 3.28 <u>PAYMENT</u>:

5 Within seven (7) calendar days of the progress estimate cutoff date, the Contractor shall 6 submit to the Engineer three (3) copies of an itemized application for payment, supported 7 to the extent required by the Engineer by receipts or other vouchers showing payment for 8 materials and labors, payments to subcontractors, and other such evidence of the 9 Contractor's right to payment. The Contractor shall be entitled to monthly progress 10 payments corresponding to the stage of work.

- Progress estimates will be prepared by the Engineer not later than thirty (30) calendar days after commencing work, and every thirty (30) calendar days thereafter, if so entitled, for the duration of construction. These shall be based upon an approximate estimate of quantities or work completed and considered acceptable, as extended by the unit prices established in the contract or as provided by the schedule of lump sum payments.
- 16 The City shall also deduct or withhold from each monthly progress payment for any 17 charges against the Contractor authorized by the Contract Documents.
- 18 Quantities used for progress estimates shall be considered only as approximate and provisional and shall be subject to recalculations, adjustment and correction by the 19 20 Engineer, in its sole discretion, in subsequent progress estimates and in final estimates. Any disputes by Contractor of any amount or estimate in a progress estimate must be made 21 22 in strict accordance with the applicable provisions of the Contract Documents, including 23 Paragraphs 3.31 through 3.33 hereto, or they will be waived. Inclusion of any quantities 24 in progress estimates, or failure to disapprove the work at the time of progress estimates, 25 shall not be construed as acceptance of corresponding work or materials.
- 26 3.29 <u>RETAINAGE</u>:

27 .1 Five percent (5%) of the Contract Sum shall be retained by the City, in accordance with Chapter 60.28 RCW, for the protection and payment of the claims of any person 28 29 arising under the Contract and the State of Washington with respect to taxes imposed 30 pursuant to Title 82 RCW which may be due from the Contractor ("Retainage"). The 31 Contractor acknowledges that the City shall release the Retainage only in accordance with 32 Chapter 60.28 RCW, which requires, among other things, that the City receive from the 33 Washington State Department of Revenue a certificate that all taxes, increases and 34 penalties due from the Contractor and all taxes due and to become due with respect to the 35 Contract have been paid in full or that they are, in the opinion of the Department of 36 Revenue, readily collectible without recourse to the State's lien on the Retainage.

37 .2 The Contractor shall also comply, and shall cause all of the Contractor's
 38 subcontractors to comply, with Chapter 60.28 RCW with respect to Retainage of amounts
 39 earned by any subcontractor or sub-subcontractor or supplier contracted with to provide

- labor, materials or equipment for the Project. Progress payments will not be released until
 the Contractor and all subcontractors have complied.
- 3 .3 If the Contractor wishes to set up an escrow account for the Retainage, an escrow
 agreement must be submitted to the City on a City provided form for review at least thirty
 (30) days prior to the first deposit.
- 6 .4 If the Contractor wishes to submit a bond for all or any portion of the Retainage, 7 the form of bond and surety must be acceptable to the City in its reasonable discretion and 8 must be submitted to the City for review at least thirty (30) days prior to the intended 9 effective date.

10 3.30 <u>LIQUIDATED DAMAGES</u>:

11 Time is of the essence of the Contract, and the Contractor acknowledges that the City will suffer monetary and other damages in the event of an unexcused delay in Physical 12 13 Completion of the Work. If the Contractor fails, without excuse under the Contract 14 Documents, or otherwise refuses to complete the Work within the Contract Time, or any 15 proper extension thereby granted by the City in writing, then the Contractor does hereby 16 agree as part of the consideration for the awarding of the Contract, to pay to the City the 17 amount specified in the Contract and as shown on the Bid, not as a penalty, but as liquidated damages for such breach of Contract, for each and every calendar day that the Contractor 18 shall be in default after the time stipulated in the Contract for Physical Completion of the 19 20 Work

21 3.31 <u>CLAIMS</u>:

22 Definition. A Claim is a demand or assertion by one of the parties seeking, as a .1 matter of right, adjustment of Contract terms, payment of money, extension of time or other 23 relief with respect to the terms of the Contract. The term "Claim" also includes other 24 disputes and matters in question between the City and Contractor arising out of or relating 25 26 to the Contract or the Work. Claims must be made in writing and include the information and substantiation required by the Contract. The responsibility to substantiate Claims shall 27 rest with the party making the Claim. A notice of a potential or future Claim does not 28 29 constitute a Claim.

- Any Claim of the Contractor against the City for damages, additional payment for
 any reason, or extension of time, whether under the Contract or otherwise, must be made
 pursuant to and in strict accordance with the applicable provisions of the Contract. No act,
 omission, or knowledge, actual or constructive, of the City or the Consultant shall in any
 way be deemed to be a waiver of the requirement for timely written notice and a timely
 written Claim unless the City provides the Contractor with an explicit, unequivocal written
 waiver.
- 37 .3 All Claims shall be addressed to:
 38
 39 Resident Engineer
 40 City of Lynnwood

1 2 3		P.O. Box 5008 Lynnwood, WA 98046-5008							
4		A copy should be submitted to the Construction Manager.							
5	3.32	PROCEDURES AND PROTESTS BY THE CONTRACTOR:							
6 7 8 9 10		.1 <u>Waiver of Claims</u> . The execution of a Change Order shall constitute a waiver of Claims by the Contractor arising out of the Work to be performed or deleted pursuant to the Change Order and related to all prior Work on the Project, except as specifically described in the Change Order. General reservations of rights will be deemed waived and void.							
11 12 13 14 15 16 17 18 19		.2 <u>Claim for Additional Costs</u> . All Claims for additional cost must be made according to Paragraph 3.33 Dispute Resolution, or they will be waived. In the event that work is shown on the Drawings but not contained in Specifications, it will be assumed the work as shown shall be provided at no change in the Contact Sum or Time. The Contractor shall not be entitled to an increase in the Contract Sum or Time arising out of an error or conflict where the Contractor failed adequately to review the Contract Documents and timely to report the error or conflict to the Resident Engineer. In no event shall a Total Cost Method or a modified Total Cost Method be used by the Contractor to calculate any adjustments to the Contract Price.							
20		.3 <u>Claims for Additional Time</u> .							
21 22 23 24		 A timely, written Claim, as provided herein, shall be required for any Claim for an increase in the Contract Time. The Contractor's Claim shall include an estimate of cost and probable effect of delay on progress of the Work. In the case of a continuing delay only one Claim is necessary. 							
25 26 27 28 29		(ii) If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time and could not have been reasonably anticipated, and that weather conditions had an adverse effect on the scheduled construction.							
30 31		(iii) In no event shall the Contractor be allowed to bring a Claim based upon a cumulative impact.							
32 33 34 35 36 37 38		.4 <u>Injury or Damage to Person or Property</u> . If the Contractor suffers injury or damage to person or property because of an act or omission of the City, of any of the City's employees or agents, or of others for whose acts the City is legally liable, written notice of such injury or damage, whether or not insured, shall be given to the City within a reasonable time not exceeding 21 days after first observance. The notice shall provide sufficient detail to enable the other party to investigate the matter. This Subparagraph does not apply to Claims, damages for additional costs, acceleration, or delay.							

- 1 .5 <u>Timely Notice</u>. Without timely written notice and protest as required by the 2 Contract Documents, the Contractor shall conclusively be deemed to have accepted any 3 order, direction, change, instruction, interpretation, determination or adjustment by the 4 City. The Contractor's disagreement shall in no way relieve the Contractor of its obligation 5 to comply promptly with any written notice issued by the Director or his/her designee.
- 6 Contractor acknowledges that the City is entitled to timely notice as set forth in the Contract 7 Documents so as to enable the City to exercise its rightful control over the Project budget 8 and schedule. Failure to properly provide such information shall constitute a complete 9 waiver of the Contractor's right to addition time or cost, or any other equitable adjustment 10 or requested relief.
- 11 .6 Requirements. If in disagreement with anything required in a Change Order, 12 another written order, or oral order (including directions, instructions, interpretations, and 13 determinations) by the City and where timely written notice has been made, Contractor 14 shall follow the protest requirements set forth in the Contract Documents and immediately 15 initiate and maintain detailed, accurate daily records of the effect on the Work, additional 16 labor, material or equipment required, all costs and/or delays. Upon request, the Contractor shall submit to the City, in such form as the Resident Engineer may prescribe, an itemized 17 18 accounting together with supporting data and copies of the daily records being maintained.
- 19 If the act or event giving rise to the protest is continuing in nature, or the impacts are 20 continuing, the Contractor shall update its submittal not less often than every thirty (30) 21 days.
- 22 In order to facilitate checking of such quotations, all proposals, except those so minor that 23 their propriety can be seen by inspection, shall be accompanied by complete itemization of 24 costs, including labor, materials, and subcontract costs. Labor and materials shall be 25 itemized in the manner described in Subparagraph 3.32.9 below. When major cost items arise from Subcontractors or Suppliers of any tier, these items shall also be itemized. 26 27 Approval may not be given without such itemization. Failure to provide data within 21 28 days of the Resident Engineer's request shall constitute waiver of any Claim for changes 29 in the Contract Time or Contract Sum.
- 30 The City shall have the right to audit the books and records of the Contractor and of any 31 Subcontractor or Supplier of any tier seeking a change in the Contract Sum. The total cost 32 of any change, including a Claim, shall be limited to the reasonable value, as determined 33 by the Resident Engineer (subject to appeal through the dispute resolution procedure of the 34 items in Subparagraph 3.32.9 below). Unless otherwise agreed in writing by the City, the cost shall not exceed the lower of the prevailing cost for the work in the locality of the 35 Project or the cost of the work in the current edition of R.S. Means Company, Inc., Building 36 Construction Cost Data. 37
- 38 .7 <u>Amounts Not in Dispute</u>. Pending final determination of cost to the City, amounts 39 not in dispute may be included in Applications for Payment. The amount of credit to be 40 allowed by the Contractor to the City for a deletion or change which results in a net 41 decrease in the Contract Sum shall be actual net cost as confirmed by the Resident

Engineer. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

- (i) If the City and Contractor do not agree with the adjustment in Contract Time or the method for determining it, the adjustment or the method shall be referred to the Resident Engineer for determination. Any adjustment in the Contract Time arising from a Change or Claim shall be limited to the change in the actual critical path of the Contractor's most recently updated and accepted Construction Schedule directly caused thereby. The adjustment shall be determined by the Resident Engineer on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, in strict accordance with this Paragraph and other applicable provisions of the Contract Documents.
- 14(ii)When the City and Contractor agree with the determination made by the15Resident Engineer concerning the adjustments in the Contract Sum and16Contract Time, or otherwise reach agreement upon the adjustments, such17agreement shall be effective immediately and shall be recorded by18preparation and execution of an appropriate Change Order.

19 Minor Changes in the Work. When provided for in the Contract Documents, and .8 with prior written consent of the Engineer, the Resident Engineer will have the authority 20 21 to order Minor Changes in the Work not involving extension of the Contract Time, and not inconsistent with the intent of the Contract Documents, in accordance with Section 1-22 23 04.4(1) of the Standard Specifications. Such changes shall be effected by written order 24 and shall be binding on the City and Contractor. The Contractor shall carry out such written orders promptly. Any protest by the Contractor of any such written order must be made in 25 strict accordance with the applicable provisions of the Contract Documents, including 26 27 Paragraphs 3.31 through 3.33 hereto, or they will be waived.

- 9 <u>Pricing Components</u>. The value of any Claim for an increase or decrease in the
 Contract Sum shall be limited to the following components and Contractor shall
 contemporaneously segregate and separately record at the time incurred all costs associated
 with any Claim. Any work performed for which the Contractor intends to seek an
 adjustment in Contract Price, Contract Time, and/or other alleged damages shall be
 recorded on the same day the work is performed and kept separate so as to distinguish it
 from Contract Work:
 - (i) <u>Direct Labor Costs</u>: These are labor costs determined by either the estimated or actual number of additional craft hours and the hourly cost necessary to perform the change in the Work or the unit labor costs applied to the material quantities and extended, provided the unit labor costs are developed from the above craft hour cost, whichever is applicable, according to industry practice.
- 41 The hourly cost shall be based upon the following:

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1 2 3 4 5		(a) <u>Basic Wages</u> : Current Washington Department of Labor & Industries prevailing hourly wage for laborers, apprentices, journeyman, and foreman performing and/or directly supervising the changed Work on the site. The premium portion of overtime wages is not included unless pre-approved by the City.
6 7 8 9		(b) <u>Fringe Benefits</u> : Fringe benefits paid by the Contractor as established by the Washington Department of Labor and Industries or contracted to labor trust funds as itemized fringe benefits, whichever is applicable.
10 11 12 13		(c) <u>Worker's Insurance</u> : Direct contributions to the State of Washington as industrial insurance; medical aid; and supplemental pension by class and rates established by the Washington Department of Labor and Industries.
14 15 16		(d) <u>Federal Insurance</u> : Direct contributions required by the Federal Insurance Compensation Act (FICA); Federal Unemployment Tax Act (FUTA); and State Unemployment Compensation Act (SUCA).
17 18 19 20 21 22 23	(ii)	Direct Material Costs: This is an itemization of the quantity and cost of additional materials necessary to perform the change in the Work. These costs shall be by the unit cost applied to the quantity and extended. The unit cost shall be based upon the net cost after all discounts or rebates, freight costs, express charges, or special delivery costs, when applicable. No lump sum costs will be allowed except when approved in advance by the Resident Engineer.
24 25 26 27 28 29 30 31	(iii)	<u>Construction Equipment Usage Costs</u> : This in an itemization of the actual length of time construction equipment appropriate for the Work will be used solely on the change in the Work at the site times the applicable rental cost as established by the lower of the prevailing rate published in <u>The Rental Rate Blue Book</u> by Data Quest, San Jose, California, or the actual rate paid as evidenced by rental receipts. Actual, reasonable mobilization costs are permitted if the equipment is brought to the Site solely for the change in the Work and if approved in writing in advance by the Resident Engineer.
32 33 34 35 36 37 38 39 40		If more than one rate is applicable, the lowest rate will be utilized. The rates in effect at the time of the performance of the Change work are the maximum rates allowable for equipment of modern design and in good working condition and include full compensation for furnishing all fuel, oil, lubricants, repairs, maintenance, and insurance. Equipment not of modern design and/or not in good working condition will have lower rates. Hourly, weekly, and/or monthly rates, as appropriate, will be applied to yield the lowest total cost. After eight (8) hours of equipment use in a twenty-four (24) hour period, and after forty (40) hours of equipment use in a week, the

1 2		equipment usage cost shall be fifty percent (50%) of the rate established above.
3 4 5 6 7 8 9 10 11 12 13 14		The rate for equipment necessarily standing by for future use on the Work shall be fifty percent (50%) of the rate established above. The total standby hours per day will be a maximum of eight (8) hours less the operating hours paid as a result of the change in the Work and less the hours that the item of equipment was or could have been used on other changed or non-changed Work and less any hours that the equipment was in a "non-operational" condition, as determined and approved by the City. The total standby hours per week will be a maximum of forty (40) hours less the operating hours paid for the change in Work and less the hours that the item of equipment was or could have been used on other changed or non-changed Work and less any hours that the equipment was in a "non-operational" condition, as determined and approved by the City.
15 16 17 18 19 20		If equipment is required for which a rental rate is not established by <u>The Rental Rate Blue Book</u> an agreed rental rate shall be established for that equipment, which rate and use must be approved by the Resident Engineer prior to performing the work. Failure by the Contractor to obtain written approval of any rental rate not established by <u>The Rental Rate Blue Book</u> prior to performing the work shall be a waiver of all such costs.
21	(iv)	Cost of Change in Insurance or Bond Premium: This is defined as:
22 23 24		(a) <u>Contractor's liability insurance</u> : The costs (expressed as a percentage) of any changes in the contractor's liability insurance arising directly from the changed Work; and
25 26 27		(b) <u>Public Works bond</u> : The cost (expressed as a percentage) of the additional premium for the contractor's bond arising directly from the changed Work.
28 29		Upon request, the Contractor shall provide the City with supporting documentation from its insurer or surety.
30 31 32 33	(v)	<u>Subcontractor Costs</u> : These are payments the Contractor makes to Subcontractors for changed Work performed by Subcontractors. The Subcontractors' cost of Work shall be determined in the same manner as prescribed in this Subparagraph 3.32.9.
34 35 36 37 38 39 40	(vi)	<u>Fee</u> : This is the allowance for all combined overhead, profit and other costs, including all office, home office and site overhead (including contractor's project manager, project engineer, and superintendent's time), and includes delay and impact costs of any kind, added to the total cost to the City of any Change Order, Construction Change Directive, Claim or any other claim of any kind on this Project. It shall be limited in all cases to the following schedule:

- 1 (a) The Contractor shall receive 10% of the cost of any materials 2 supplied or work performed by the Contractor's own forces. 3 The Contractor shall receive 8% of the amount owed directly to a (b) 4 Subcontractor or its Supplier for materials supplied or work 5 performed by that Subcontractor or its Supplier. 6 Each Subcontractor (including lower tier subcontractors involved) (c) 7 shall receive 10% of the costs of any materials supplied or work 8 performed by its own forces. 9 (d) Each Subcontractor of any tier shall receive 8% of the amount it 10 owes for materials supplied or work performed by its suppliers or 11 subcontractors of any lower tier. 12 (e) The cost to which this Fee is to be applied shall be determined in 13 accordance with Subparagraph 3.32.9 (i) - (iv). 14 If a change in the Work involves both additive and deductive items, the appropriate Fee 15 allowed will be added to the net difference of the items. If the net difference is negative, 16 no Fee will be added to the negative figure as a further deduction.
- 17 The costs and allowances for overhead and profit as calculated in accordance with the 18 paragraphs and the Contract Documents shall constitute the Contractor's full and sole 19 entitlement to compensation or equitable adjustment for any changed work, Change Order, 20 Construction Change Directive, Claim or any other claim of any kind on this Project, 21 relating thereto, or resulting therefrom. No additional compensation shall be allowed for 22 items including, but not limited to, direct, indirect or impact damages, costs of delay, 23 acceleration inefficiency, and home office overhead.
- 24 3.33 <u>DISPUTE RESOLUTION</u>:
- 25 All Claims, direct or indirect, arising out of, or relating to, the Work or the Contract .1 Documents or the breach thereof shall be decided exclusively by the following dispute 26 27 resolution procedure. Claims that have been waived under the terms of the Contract 28 Documents are barred, including those waived due to Contractor's failure to timely comply 29 with this Paragraph 3.33 or failure to comply with the timing and notice procedures set 30 forth in the Contract Documents. As a condition precedent to submitting a Claim, the Contractor must comply with the requirements of Paragraph 3.32 above, WSDOT Standard 31 Specifications Section 1-04.5, and all other timing and notice requirements set forth in the 32 33 Contract Documents.
- 34 .2 The Contractor shall submit in writing to the Resident Engineer all Claims within
 35 ten (10) calendar days of the event giving rise to them, signed by the Contractor under
 36 penalty of perjury. The submission shall include a clear description of the Claim, the
 37 proposed change in the Contract Sum and/or Time of the Claim, or other relief sought by
 38 the Contractor, and provide sufficient data and information supporting the Claim to enable
 39 the City to conduct its own investigation of the event, including all information required in

Paragraph 3.32 above. The Claim shall be deemed to include <u>all</u> changes, direct and indirect, in cost and in time to which the Contractor (and Subcontractors and Suppliers of any tier) is or may be entitled. If the act or event is continuing in nature, or the impacts are continuing, the Claim shall so state and the Contractor shall update its claim not less often than every thirty (30) days.

6 The claims of a Subcontractor or Supplier of any tier may be brought only through the 7 Contractor and only after the Contractor notifies the City in writing and signed by the 8 Contractor under penalty of perjury that the Contractor has reviewed the Claim and believe 9 it to meritorious.

- 10 (i) Level I. Within seven (7) days of receipt of the written notice and all required information and data, the senior site representative of the 11 12 Contractor and the Resident Engineer shall meet, confer, and attempt to resolve the claim. The senior site representative of the Contractor shall have 13 14 the authority to resolve and settle the claim. Either the Contractor or the 15 City will be entitled to give the other written notice to delay the start of a properly requested Level I meeting for up to fourteen (14) days in order to 16 review the supporting data or to assemble more accurate or complete data 17 18 to support the Claim.
 - (ii) <u>Level II</u>. If the Claim is not resolved within seven (7) days of the close of the Level I meeting, the Contractor may require that an officer of the Contractor (who did not attend the Level I meeting), the Construction Manager, and the Resident Engineer meet, confer, and attempt to resolve the Claim within fourteen (14) days thereafter. Other City personnel may also attend the Level II meeting. Prior to being obligated to attend the Level II meeting, the City or its representatives shall have the right to audit and copy the Claim-related books and records of the Contractor and of any Subcontractor or Supplier of any tier making a Claim.
 - (iii) The terms of the resolution of any Claims concluded in Level I or Level II meetings shall be memorialized in writing and signed by each party.

30 .3 Mediation: If the Claim is not resolved in the dispute resolution procedure, neither 31 the Contractor nor any Subcontractor or Supplier of any tier may bring a Claim against the 32 City in litigation unless the Claim is first subject to nonbinding mediation before a single 33 mediator under the Voluntary Construction Mediation Rules of the American Arbitration 34 Association. Contractor waives all Claims by failing to provide written notice to the 35 Resident Engineer of the Contractor's intent to mediate within twenty-one (21) days of the Level II meeting. This requirement cannot be waived except by an explicit written waiver 36 signed by the City and the Contractor. An officer of the Contractor and the Director, both 37 38 having full authority to settle the Claim, must attend the mediation session. To the extent 39 there are other parties in interest, such as the Consultant, Subcontractors, or Suppliers of 40 any tier, their representatives with full authority to settle the Claim, shall also attend the 41 mediation session. Unless the City and the Contractor mutually agree in writing otherwise 42 and only in the event Contractor provides timely notice of intent to mediate, all unresolved

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1 Claims on the Project shall be considered at a single mediation session which shall occur 2 after Physical Completion, but prior to Final Acceptance by the City. The Contractor is 3 responsible for initiating the mediation procedure.

4 Litigation. The Contractor may not initiate litigation on any Claim unless each such .4 5 Claim was properly and timely raised and considered in the Procedures of Subparagraphs 6 3.33.1 through 3.33.3 above. All unresolved Claims of the Contractor shall be waived and 7 released unless the Contractor has complied with the time limits of the Contract 8 Documents, and litigation is served and filed within the earlier of (a) 180 days after the 9 Date of Physical Completion designated in writing by the City (provided that a mediation 10 session has occurred) or (b) 60 days after Final Acceptance. This requirement cannot be 11 waived except by an explicit written waiver signed by the City.

12 .5 The Contractor agrees that the City may join the Contractor as a party to any 13 litigation/arbitration involving the alleged fault of the Contractor.

.6 The Contractor shall diligently carry on the Work and maintain the Contractor's
 Construction Schedule during any dispute resolution proceedings, unless otherwise agreed
 by it and the City in writing.

17 3.34 <u>NONDISCRIMINATION AND AFFIRMATIVE ACTION</u>:

18 .1 Unless the Contractor is exempt by Federal Executive Order 11246, as amended by 19 Executive Order 11375, the Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin. The 20 21 Contractor will take affirmative action to ensure that applicants are employed and that 22 employees are treated during employment without regard to their race, color, religion, sex, 23 age or national origin. Such action shall include, but not be limited to, the following: 24 employment; upgrading; demotion or transfer; recruitment or recruitment advertising; 25 layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, 26 27 available to employees and applicants for employment, notices to be provided setting forth 28 the requirements of these nondiscrimination provisions.

29 .2 The Contractor further agrees to comply with all applicable non-discrimination 30 laws and affirmative action programs, including, without limitation, Sections 503 and 504 of the Vocational Rehabilitation Act of 1973 and Sections 2012 and 2014 of the Vietnam 31 32 Era Veterans Readjustment Act of 1984, and acknowledges that, should the Contractor be 33 in violation of this paragraph or any applicable laws or affirmative action programs, the Contractor shall be barred forthwith from receiving award of any purchase order from the 34 City unless a satisfactory showing is made that such noncompliance or discriminatory 35 practices have terminated and that a recurrence of such acts is unlikely. 36

37 3.35 <u>MINORITY AND WOMEN BUSINESS ENTERPRISE</u>:

The Contractor agrees that the Contractor shall actively solicit the employment of minority
 group members. The Contractor further agrees that the Contractor shall actively solicit
 bids for the subcontracting of goods or services from qualified minority businesses. The

1 Contractor shall furnish evidence of the Contractor's compliance with these requirements 2 of minority employment and solicitation. The Contractor further agrees to consider the 3 grant of subcontracts to said minority bidders on the basis of substantially equal proposals 4 in the light most favorable to said minority businesses. The Contractor shall be required 5 to submit evidence of compliance with this paragraph as part of the Contract.

6 3.36 <u>NOTICES:</u>

7 Any notice or communication under the Contract will be effective only if in writing and 8 delivered in person, by overnight courier service, by facsimile transmission, by electronic 9 mail transmission, or mailed by registered or certified mail return receipt requested postage 10 prepaid to the City at the address set forth in the Invitation for Bids or to the Contractor at the address set forth in the Bid, or to any other address the addressee may have notified the 11 12 sender beforehand referring to the Contract. All notices and communications will be deemed given, made and received: (a) upon delivery, if personally delivered; (b) when sent 13 14 by facsimile or electronic email transmission if confirmation is received; (c) one (1) business day after the deposit, if delivered by a nationally recognized courier service 15 16 offering guaranteed overnight delivery; or (d) three (3) business days after deposit in the United States mail. 17

18 3.37 PATENT, PATENT ROYALTIES & PROCESS FEES19

The Contractor shall furnish the City a license or licenses for the use of any equipment process or processes in connection with this Project that is the subject of any patent. The Contractor shall include in the unit prices bid any patent royalties or license fees for equipment installed or construction methods used. The Contractor shall provide at the request of the City a patent attorney's opinion letter acceptable to the City, advising that any process or equipment used by Contractor does not infringe on any patent.

27 3.38 LAWS AND REGULATIONS

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All applicable State laws and municipal ordinances, and the rules and regulations of all authorities having jurisdiction over the construction of the project, shall apply to the Contract throughout and they will be deemed to be included in the Contract the same as if written therein in full. This Contract is also subject to regulations for projects receiving Federal funding.

1	SECTION 4
2	BID PROPOSAL FORM
3	

	BID COVER SHEE	Т
PROJECT NAME:		
BID NUMBER:		
CONTRACTOR NAME:		
ADDRESS:		
PHONE:		
ADDENDA RECEIVED		
Addenda No.	Date Received	Name of Recipient
BIDDER NAME:		
	Printed	
BIDDER SIGNATURE:		

1	BID FOR PROJECT
2	2019 Overlay and Curb Ramp Project
3	2019 Overlag and Carls Hamp Project
4	
5	
6	To the Honorable
7	Mayor & Council
8	Lynnwood, Washington
9	
10	The undersigned ("Bidder") certifies that the Bidder has examined the site, that it has taken steps
11	reasonably necessary to ascertain the nature and location of the work, that it has investigated and
12	satisfied itself as to the general local conditions which can affect the work or its costs, that it has
13	examined Project Manual (including, without limitation, the Contract Plans and Specifications,
14	and all applicable laws and ordinances with respect to the above-mentioned Project. The Bidder
15	hereby offers to perform the required Work in accordance with the terms, provisions and
16	requirements of the Project Manual at the following unit prices and/or lump sums.
17	
18	As evidence of the Bidder's good faith, cash, a bid bond, cashier's check, or certified check in the
19	amount of five percent (5%) of the total amount of the Bid, payable to the City Treasurer, City of
20	Lynnwood ("Deposit"), is enclosed with this Bid, and using the Bid Security Form provided in
21	this section. The Bidder understands and hereby agrees that, should this Bid be accepted, and the
22	Bidder fail or refuse to enter into a Contract and furnish the required bonds or liability insurance,
23	the Bidder will forfeit the Deposit to the City, as provided in the Project Manual.
24	1 57 1 5
25	The Bidder fully understands and agrees that the unit prices submitted in this Bid shall apply to
26	the quantity actually used, regardless of its relation to the quantity shown in the Bid, as further
27	specified herein. The Bidder further understands and agrees that where the City has estimated and
28	include dollar amounts that are to be paid per force account, all such dollar amounts are to become
29	part of the Bidder's total bid. However, the City does not warranty expressly or by implication
30	that the actual amount of work or the cost of work will correspond with those estimates and that
31	payment will be made on the solely basis of the amount of work actually authorized by the City in
32	accordance with the Contract Documents.
33	accordance with the Contract Documents.
33 34	The Bidder freely states that the Bidder is familiar with the provisions of the competitive bidding
	statutes of the State of Washington, specifically the provisions of Chapter 9.18 RCW, and certifies
35	
36	that with respect to this Bid, there has been no collusion or understanding with any other person
37	or entity to prevent or eliminate full and unrestricted competition upon bidders on this public works
38	project.
39	
40	The Bidder further understands that the City reserves the right to award the Work based on bids
41	received and available funding and, in addition, to reject any or all bids. The Bidder further
42	understands that the City reserves the right to make award within forty-five (45) calendar days of
43	the Bid Opening specified in the Invitation to Bid and that the Bidder guarantees the Bidder's Bid
44	for said duration.
45	
46	

1 Bid Schedule:

Item	Spec.		Est.			
No.	Sect.	Description	Qty.	Unit	Unit Price	Amount
1.	1-04.4 SP	Unexpected Site Changes	30,000	EST	\$1.00	\$30,000
2.	1-05.4 SP	Roadway Surveying	1	LS	\$	\$
3.	1-05.4 SP	Licensed Surveying	1	LS	\$	\$
4.	1-05.18 SP	Record Drawings	1	LS	\$	\$
5.	1-07.13	Reimbursement for Third Party Damage (1%)	23,800	EST	\$1.00	\$23,800
6.	1-07.15	SPCC Plan	1	LS	\$	\$
7.	1-07.23 SP	Pedestrian Traffic Control	1	LS	\$	\$
8.	1-08.3	Type B Progress Schedule	1	LS	\$	\$
9.	1-09.7	Mobilization	1	LS	\$	\$
10.	1-10 SP	Portable Changeable Message Sign	12,290	HR	\$	\$
11.	1-10 SP	Project Temporary Traffic Control	1	LS	\$	\$
12.	1-10 SP	Traffic Control Supervisor	1	LS	\$	\$
13.	1-10 SP	Flaggers	2,400	HR	\$	\$
14.	1-10 SP	Off-Duty Uniformed Police Officer	256	HR	\$	\$
15.	2-02 SP	Saw Cutting Existing Pavement	13,880	LF	\$	\$
16.	2-02 SP	Removing Cement Conc. Curb and Gutter	830	LF	\$	\$
17.	2-02 SP	Removing Cement Conc. Sidewalk	560	SY	\$	\$
18.	2-03	Roadway Excavation Incl. Hauling	3,470	CY	\$	\$
19.	2-12	Construction Geotextile for Separation	6,590	SY	\$	\$
20.	4-04	Crushed Surfacing Top Course	1,470	TON	\$	\$
21.	5-04 SP	Pavement Repair Excavation Incl. Haul	130	SY	\$	\$
22.	5-04 SP	Asphalt Cost Price Adjustment	1	CALC	\$3,581	\$3,581

Item	Spec.		Est.			
No.	Sect.	Description	Qty.	Unit	Unit Price	Amount
23.	5-04 SP	HMA CL. ½ IN. PG 58H-22	7,280	TON	\$	\$
24.	5-04 SP	Planing Bituminous Pavement	11,090	SY	\$	\$
25.	5-04 SP	HMA for Pavement Repair CI. ¹ / ₂ IN. PG 58H-22	40	TON	\$	\$
26.	7-05 SP	Adjust Drainage Structure by Lowering	45	EA	\$	\$
27.	7-05 SP	Adjust Drainage Structure by Raising	45	EA	\$	\$
28.	7-05 SP	Adjust Manhole by Lowering	29	EA	\$	\$
29.	7-05 SP	Adjust Manhole by Raising	31	EA	\$	\$
30.	7-05 SP	Replace Existing Circular Frame and Grate with New Circular Frame and Locking Slotted Grate	1	EA	\$	\$
31.	7-05 SP	Replace Existing Rectangular Frame and Grate with New Rectangular Frame and Vaned Grate	36	EA	\$	\$
32.	7-05 SP	Replace Existing Open Curb Frame and Grate with New Open Curb Frame and Grate	1	EA	\$	\$
33.	7-05 SP	Replace Existing Storm Drain Manhole Ring and Cover with New Ring and Cover	6	EA	\$	\$
34.	7-05 SP	Replace Existing Sanitary Sewer Manhole Ring and Cover with New Ring and Cover	23	EA	\$	\$
35.	7-05 SP	Replace Existing Rectangular Frame and Cover with New Rectangular Frame and Solid Locking Cover	4	EA	\$	\$
36.	7-12 SP	Replace Water Valve Box Top Section and Cover	24	EA	\$	\$
37.	7-12 SP	Adjust Water Valve Box by Lowering	23	EA	\$	\$
38.	7-12 SP	Adjust Water Valve Box by Raising	24	EA	\$	\$
39.	8-01	Erosion/Water Pollution Control	1	LS	\$	\$
40.	8-01	Inlet Protection	48	EA	\$	\$
41.	8-01	Seeding and Fertilizing by Hand	80	SY	\$	\$

Item No.	Spec. Sect.	Description	Est. Qty.	Unit	Unit Price	Amount
42.	8-01	Wattle	470	LF	\$	\$
43.	8-01	High Visibility Silt Fence	220	LF	\$	\$
44.	8-02 SP	Property Restoration	6,000	EST	\$1.00	\$6,000
45.	8-02 SP	Topsoil Type A	15	CY	\$	\$
46.	8-04	Cement Conc. Traffic Curb and 12" Gutter	540	LF	\$	\$
47.	8-04	Cement Conc. Traffic Curb and 18" Gutter	290	LF	\$	\$
48.	8-04	Cement Conc. Traffic Curb	160	LF	\$	\$
49.	8-04	Cement Conc. Pedestrian Curb	460	LF	\$	\$
50.	8-04 SP	Cement Conc. Buffer Curb and Gutter	20	LF	\$	\$
51.	8-04 SP	Cement Conc. Valley Curb	20	LF	\$	\$
52.	8-05 SP	Adjust Gas Valve Box by Lowering	6	EA	\$	\$
53.	8-05 SP	Adjust Gas Valve Box by Raising	7	EA	\$	\$
54.	8-09 SP	Raised Pavement Marker Type 1	37	HUND	\$	\$
55.	8-09 SP	Raised Pavement Marker Type 2	8	HUND	\$	\$
56.	8-13 SP	Monument, Monument Case, and Cover	7	EA	\$	\$
57.	8-14 SP	Cement Conc. Sidewalk	155	SY	\$	\$
58.	8-14 SP	Cement Conc. Buffer Sidewalk	5	SY	\$	\$
59.	8-14 SP	Cement Conc. Curb Ramp Type Parallel A	100	SY	\$	\$
60.	8-14 SP	Cement Conc. Curb Ramp Type Perpendicular A	30	SY	\$	\$
61.	8-14 SP	Cement Conc. Curb Ramp Type Double Parallel	150	SY	\$	\$
62.	8-14 SP	Cement Conc. Curb Ramp Type Half Perpendicular	10	SY	\$	\$
63.	8-14 SP	Cement Conc. Curb Ramp Type Single Direction	40	SY	\$	\$
64.	8-14 SP	Cement Conc. Curb Ramp Type Combination	20	SY	\$	\$

Item	Spec.		Est.			
No.	Sect.	Description	Qty.	Unit	Unit Price	Amount
65.	8-20 SP	Traffic Signal System Modifications (188 th St SW and 52 nd Ave W)	1	LS	\$	\$
66.	8-20 SP	Traffic Signal System Modifications (68 th Ave W and 200 th St SW)	1	LS	\$	\$
67.	8-20 SP	Flashing Beacon (68 th Ave W Midblock Crossing)	1	LS	\$	\$
68.	8-20 SP	Flashing Beacon (68 th Ave W and 202 nd St SW)	1	LS	\$	\$
69.	8-21	Permanent Signing	1	LS	\$	\$
70.	8-22	Paint Line	210	LF	\$	\$
71.	8-22	Removing Plastic Crosswalk Line	100	SF	\$	\$
72.	8-22	Plastic Crosswalk Line	1,700	SF	\$	\$
73.	8-22	Plastic Bicycle Lane Symbol	48	EA	\$	\$
74.	8-22	Plastic Stop Line	280	LF	\$	\$
75.	8-22	Plastic Traffic Arrow	36	EA	\$	\$
76.	8-22	Painted Wide Lane Line	10,190	LF	\$	\$
77.	8-23 SP	Temporary Pavement Marking	21,620	LF	\$	\$

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****Department of Revenue Rule 171 applies to this project****

TOTAL CONSTRUCTION COST

City of Lynnwood 2019 Overlay and Curb Ramp Project \$_____

ADDENDA R Addendum N		Date Received	Name of 1	Recipient
Bidders, at the		<u>S</u> e this page to submit propos sole judge of any alternates		
Item No.	Item		rer	Amount Bi
accordance wi list those subc the work. Th identified unle which subcont HVAC:	th the requirement contractors that we ne Bidder shall no ess subcontractors tractor will be used	ost of which is One Millic ts of RCW 39.30.060 includ ould perform work in the fo ot list more than one subc vary with bid alternates, in d for which alternative.	ing any amendme llowing categorie ontractor for eac which case the F	ents, the Bidder sl es, or name itself h category of w Bidder must indic
	Bidder to provide	the required information w		
By signing the account for at	least thirty (30) pe	dder agrees that work perfo	•	, <u>,</u> ,
	WSDOT Standard	Specifications, current editi	on, as amended.	-
TIME FOR C	WSDOT Standard <u>OMPLETION</u>		on, as amended.	-

1 <u>LIQUIDATED DAMAGES</u>

The Bidder fully understands and agrees to the provisions of the Project Manual, and herewith
further agrees that the liquidated damages shall be as calculated in accordance with Section 1-08.9
of the Standard Specifications for each and every working day required beyond the above stated
construction time allowed to complete the Work.

8	Dated:				
				(Name of Bidder	
	Location or Place	Executed:	By		
	(City, State)			nt Name of Authorized Representative)	
9				• • • • • •	
10	BIDDER is a(n):	Individual	□ Partnership	□ Joint Venture	
11		□ Incorporated in	the state of		
12		□ Limited liabilit	y company formed in t	he State of	
13					

1	NON-COLLUSION AFFIDAVIT	
2	(This Affi	idavit to be fully executed)
3 4	STATE OF)	
5) ss.	
6	COUNTY OF)	
7	,	
8		, affiant,
9		
10 11	the(President, Secreta	
11	(President, Secreta of	ary, Manager, Firm City, or Representative)
13	(Name of	Company or Corporation or Firm)
14	the person, corporation, company of m	rm who makes the accompanying Bid, having first been
15	duly sworn, deposes and says:	
16		ot sham or collusive, nor made in the interest or behalf of
17 18		that the Bidder has not directly or indirectly induced or m bid, or any other person, firm, or corporation to refrain
18 19		not in any manner sought by collusion to secure for the
20	Bidder an advantage over any other bidd	
	= = = = = = = = = = = = = = = =	
		Signature of President, Secretary, Manager,
		City, or Authorized Representative (Circle One)
		(Chele One)
21		
22	Subscribed and sworn to before me on _	
		Print Name:
		NOTARY PUBLIC for the state of Washington,
		residing at
22		My appointment expires:
23		
24 25		
23		

in tu	e form of a	cash de	posit, certified o	r cashier's che	ck, or po	ostal mor	ney order in	n the amou
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Bid	Bond: The	e undersi	gned,			× .		(Princi
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			gned,					do
(\$)	, which for the	payment of w	hich Prir	ncipal an	d Surety bi	nd themsel
			dministrators, su					y. The liab
			Bond shall be li					
Con	ditions: T	he Bid D	eposit or Bid Bo	ond shall be an	n amoun	t not less	than five p	percent (5%
			sales tax and is					
-			ay and Curb Ra	<u>mp Project, Ci</u>	ty Projec	et No. 30	<u>80</u> , accordi	ng to the te
	1	and Bid	Documents.					
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			cepted and Prin					
			e with the terms					
			Project and for					
			ion therewith, w	2		11	2 /	
	1	1	eased; otherwise	2	1		1	· ·
			sit or Surety shall					
		1	and liquidated		pay and	ionen a		
The	obligations	of Suret	y and its Bid Bor	nd shall be in n	o way in	paired of	affected by	y any exter
of ti	me within v	which O	wner may accep	t bids; and Su	rety doe	s hereby	waive not	ice of any
	nsion.							
Sign	ed and date	d this	day of			20	_·	
		Princip	pal		Surety			
					By		et (Attach Por	
	Signatu	e of Auth	orized Official		Atto	rnev in Fa	et (Attach Por	wer of Attorn
	0					5	× ···· •	J
		Title		—				

	STATEMENT OF E	BIDDER'S QUALIFICA	ATIONS		
Name of Firm:					
Address:					
Telephone No:			<u> </u>		
Email Address:					
	this Project:				
Number of years th	e Bidder has been engag	ged in the construction l	business under the present firm		
last five years, and Project Name	the gross dollar amount Amount	of each project: City	bleted by the Bidder within the Phone #		
note which items an	re owned by the Bidder	and which are to be leas	a this Project by the Bidder and sed or rented from others:		
Has the Bidder ch (optional).	anged bonding compar	nies within the last thr	ee years? If yes, state reason or sued the client on any public		
works contract for a	a special district, munici	pality, county, state, or	tribal government?		
For what reason?					
	Disposition of case Does the Bidder have any outstanding payments due to the Department of Revenue?				
Does the Bidder agree that the City shall retain the right to obtain any and all credit reports?					
Does the Diddel up	ree that the City shall re	-			
()	ree that the City shall re	-			

1	RESPONSIBLE BIDDER DETERMINATION FORM					
2	Attach additional sheets as necessary to fully provide the information required.					
3	Name of BIDDER:					
4	Address of BIDDER:					
5	City:State:Zip:					
6	Phone number of BIDDER:					
7	Email address of BIDDER:					
8	Dept. of Revenue Unified Business Identification (UBI) No:					
9	Contractor's Washington State License No.: Expiration Date:					
10	Dept. of Labor & Industries Account Number:					
11	Bond Account No: Expiration Date:					
12	Employment Security Dept. Account No.:					
13	Taxpayer Identification Number (or SSN if applicable)					
14 15 16 17 18	Contractor on L&I Infraction List? □ Yes □ No www.lni.wa.gov/tradeslicensing/PrevWage/AwardingAgencies/violations/default.asp Contractor on L&I "Contractor's Not Allowed to Bid" List? □ Yes □ No www.lni.wa.gov/tradeslicensing/PrevWage/AwardingAgencies/DebarredContractors/default.asp					
19	BIDDER is a(n): □ Individual □ Partnership □ Joint Venture					
20	Incorporated in the state of					
21	Limited liability company formed in the State of					
22 23 24	List business names used by BIDDER during the past 5 years if different than above:					
25	BIDDER has been in business continuously from (Year)					
26	Bank Reference:					
27	Officer: Officer's Phone No.:					
28	Number of regular full-time employees:					
29	Number of projects in the past 5 years completed:					
30	ahead of schedule on schedule behind schedule.					
31 32	BIDDER has had experience in work comparable to that required for this Project. As a Prime Contractor for years.					
33 34	As a Subcontractor for years.					

Name	Title	How long	g with BIDDER
		e, completed by BIDDER wi preprinted project listing r	
			OWNER/
Project Name	Year <u>Completed</u>	Contract <u>Amount</u>	Reference <u>Phone/En</u>
List all projects completed the Contract by arbitration <u>Name of Client & Project</u>		nich have resulted in partial oview board, or mediation: Total Claims Arbitrated, Mediated <u>or Litigated</u>	Amount of
the Contract by arbitration	, litigation, dispute rev Contract	view board, or mediation: Total Claims Arbitrated, Mediated	Amount of Settlemer
the Contract by arbitration Name of Client & Project	n, litigation, dispute rev Contract <u>Amount</u>	view board, or mediation: Total Claims Arbitrated, Mediated	Amount of Settlement of Claims
the Contract by arbitration Name of Client & Project Has BIDDER, or any repr	, litigation, dispute rev Contract <u>Amount</u> esentative or partner th	view board, or mediation: Total Claims Arbitrated, Mediated <u>or Litigated</u>	Amount of Settlemen <u>of Claims</u> te a Contract?
the Contract by arbitration Name of Client & Project Has BIDDER, or any repr No Yes If y	, litigation, dispute rev Contract <u>Amount</u> esentative or partner th es, give details:	view board, or mediation: Total Claims Arbitrated, Mediated <u>or Litigated</u> nereof, ever failed to comple	Amount of Settlemen <u>of Claims</u> te a Contract?
the Contract by arbitration Name of Client & Project Has BIDDER, or any repr No Yes Has BIDDER ever had an	, litigation, dispute rev Contract <u>Amount</u> esentative or partner th es, give details: y Payment/Performand	view board, or mediation: Total Claims Arbitrated, Mediated <u>or Litigated</u> nereof, ever failed to comple	Amount of Settlemer <u>of Claims</u> te a Contract? f its work?
the Contract by arbitration Name of Client & Project Has BIDDER, or any repr No Yes Has BIDDER ever had an	I, litigation, dispute rev Contract <u>Amount</u> esentative or partner th es, give details: y Payment/Performanc es, please state:	view board, or mediation: Total Claims Arbitrated, Mediated <u>or Litigated</u> hereof, ever failed to comple	Amount of Settlemer <u>of Claims</u> te a Contract? f its work?

1	Has BIDDER ever been found guilty of violating any State, Tribal, or Federal employment laws?			
2	□ No □ Yes If yes, please give details:			
3	Has BIDDER, under current name or previous name(s), ever filed for protection under any			
4	provision of the federal bankruptcy laws or state insolvency laws?			
5	\Box No \Box Yes If yes, give details:			
6 7	Has any adverse legal judgment been rendered against BIDDER in the past 5 years?			
8	$\Box \text{ No } \Box \text{ Yes} \qquad \text{If yes, give details:} _$			
9 10 11 12 13	Has BIDDER or any of its employees filed any claims with Washington State Workman's Compensation or other insurance company for accidents resulting in fatal injury or dismemberment in the past 5 years? □ No □ Yes If yes, please state: Date Type of Injury Agency Receiving Claim			
14				
15				
16	Printed Name of BIDDER:			
17	Signature of BIDDER:			
18	Title Date			
19 20				



Contractor Certification Wage Law Compliance - Responsibility Criteria Washington State Public Works Contracts

FAILURE TO RETURN THIS CERTIFICATION AS PART OF THE BID PROPOSAL PACKAGE WILL MAKE THIS BID NONRESPONSIVE AND INELIGIBLE FOR AWARD

I hereby certify, under penalty of perjury under the laws of the State of Washington, on behalf of the firm identified below that, to the best of my knowledge and belief, this firm has <u>NOT</u> been determined by a final and binding citation and notice of assessment issued by the Washington State Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of RCW chapters 49.46, 49.48, or 49.52 within three (3) years prior to the date of the Call for Bids.

Bidder Name: Name of Contractor/Bidder - P	Print full legal entity name of firm
By: Signature of authorized person	Print Name of person making certifications for firm
Title: Title of person signing certificate	Place: Print city and state where signed
Date:	_
Date:	_

Form 272-009 08/2017

1	PUBLIC BIDDING CRIMES		
2 3 4 5 6 7	<u>Criterion</u> : The Bidder and any person with an ownership inter of a crime involving bidding on a public works co deadline.		
8 9 10 11 12 13	Documentation: Has the Bidder or anyone with an ownership into involving bidding on a public works contract within □ Yes □ No Name of BIDDER or person/entity with an owner	n five years from the bi	d submittal deadline?
14		-	
15	Address of BIDDER:		
16	City	State	Zip
17	Contractor's License No.		
18	Signature of BIDDER		
19	Title Date		
20			

1	TERMINATION FOR CAUSE			
2				
3	Criterion:			
4	The Bidder shall not have had any public			, .
5	agency or tribal entity during the five	5 1	v 1	0
6 7	deadline for this project, unless there are	extenuating circum	stances accep	table to the Owner.
8	Documentation:			
9	Has the Bidder had any public works con			
10	the five year period immediately precedi	e	deadline for th	his project, unless there
11	are extenuating circumstances acceptab	le to the Owner?		
12 13	\Box Yes \Box No			
13	Name of BIDDER:			
15	Address of BIDDER:			
16	City		State	Zip
17	Contractor's License No.			
18	Signature of BIDDER			
19	Title Da	te		
20				

1	LIQUIDATED DAMAGES
2	
3	<u>Criterion</u> :
4	The Bidder shall not have been assessed liquidated damages related to the performance of a public
5	works contract by a government agency or tribal entity during the five year period immediately
6	proceeding the bid submittal deadline for this project, unless there are extenuating circumstances
7 8	acceptable to the Owner.
8 9	Documentation:
10	Has the Bidder been assessed liquidated damages related to the performance of a public works
11	contract by a government agency during the five year period immediately proceeding the bid
12	submittal deadline for this project, unless there are extenuating circumstances acceptable to the
13	Owner?
14	
15	\Box Yes \Box No
16 17	
18	
19	Name of BIDDER:
20	Address of BIDDER:
21	CityStateZip
22	Contractor's License No.
23	Signature of BIDDER
24	Title Date
25	

1	LITIGATION
2	
3	<u>Criterion</u> :
4	The Bidder shall not have been a party as a plaintiff or defendant in any lawsuit in Washington
5	State superior, district, or tribal court in the Puget Sound region (defined as King, Kitsap, Pierce,
6	Snohomish and Thurston counties) or federal district court for Western Washington in the last six
7	years involving performance or payment issues relating to a public works contract which were
8	resolved adversely to the Bidder through judgment or settlement, unless there are extenuating
9	circumstances acceptable to the Owner.
10	
11	Documentation:
12	Has the Bidder been a party as a plaintiff or defendant in any lawsuit in Washington State superior,
13	district, or tribal court in the Puget Sound region (defined as King, Kitsap, Pierce, Snohomish and
14	Thurston counties) or federal district court for Western Washington in the last six years involving
15 16	performance or payment issues relating to a public works contract which were resolved adversely to the Bidder through judgment or settlement, unless there are extenuating circumstances
10	acceptable to the Owner?
17	
19	\Box Yes \Box No
20	
21	
22	
23	Name of BIDDER:
24	Address of BIDDER:
25	CityStateZip
26	Contractor's License No.
27	Signature of BIDDER
28	Title Date
29	

1	SECTION 5
2	CONTRACT
3	
4	INFORMATION ONLY
5	The following form must be executed and submitted by the successful Bidder
6	within ten (10) days following notice of award.

35	5.03	DURATION:
36 37 38		The Contractor shall commence the Work wi of this Contract and the issuance by the City Physically Completed in 90 working days ("C
39		Completed within the Contract Time, the Co
		Lynnwood verlay and Curb Ramp Project Page 5-1

CITY OF LYNNWOOD

CONTRACT

3 THIS AGREEMENT ("Contract") is entered into this «Contr Date Day» day of 4 «Contract Date Month», «Contract Date Yr» by and between the City of Lynnwood (the "Citv"), and "Contractor" (the "Contractor"). 5

6

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Recitals

7 This Contract is for construction of the 2019 Overlay and Curb Ramp Project (the "Project"), as

8 described in more detail in the Invitation for Bids dated «Date Of Proj Manual» and the related 9 Project Manual, the terms and conditions of which are incorporated herein by this reference (the

10 "Project Manual"). Capitalized terms not defined herein shall have the meanings set forth in the

- 11 Project Manual.
- 12

23

Agreement

13 The parties, in consideration of the terms and conditions contained herein, do hereby covenant and agree as follows: 14

- 15
- 16 5.01 COMPENSATION:

17 The City promises and agrees to employ, and does employ, the Contractor to provide the 18 materials and to do and cause to be done the work provided for in this Contract and to 19 complete and finish the same according to the Project Manual (including, without 20 limitation, the Contract Plans and Specifications) and the terms and conditions contained 21 herein. The City agrees to pay the Contractor the sum of \$ «Contract amount» which 22 includes any applicable sales or use tax, according to the payment schedule attached hereto.

24 5.02 SCOPE OF WORK:

25 The Contractor shall do all Work, obtain all permits and furnish all labor, materials, tools, 26 equipment, transportation, supplies and incidentals required for constructing and 27 completing the Project, in accordance with this Contract, the Project Manual and the 28 Standard Specifications for Road, Bridge and Municipal Construction (English version), 29 2018 edition, as issued by the Washington State Department of Transportation, the terms 30 and conditions of which are incorporated herein by this reference (collectively, the "Standard Specifications"); provided that, as used in the Standard Specifications, "State" 31 32 means City of Lynnwood;" "Department of Transportation" means Department of Public 33 Works;" "Secretary" means "Director of Public Works." 34

rk within ten (10) working days after the execution e City of a Notice to Proceed. The Work shall be ys ("Contract Time"). If the Work is not Physically he Contractor agrees to pay the City as liquidated

damages the sum as calculated in accordance with Section 1-08.9 of the Standard 2 Specifications for each day the Project remains uncompleted after the expiration of the Contract Time. Such liquidated damages are appropriate and are agreed upon by the parties 4 because of the impracticability and difficulty of ascertaining the actual damages the City 5 would sustain in the event of noncompletion within the Contract Time. 6

7 5.04 BONDS:

1

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14 15 The Contractor agrees to obtain Payment and Performance Bonds in accordance with, and using the forms provided in, the Project Manual; provided, that on contracts of twenty-five thousand dollars or less, at the option of the Contractor, the City may, in lieu of such Bonds, retain fifty (50) percent of the Contract Sum for a period of thirty (30) days after date of final acceptance of the Project by the City, or until receipt by the City of all necessary releases from the Washington State Department of Revenue and Department of Labor and Industries, and settlement of any liens filed against the Project, whichever is later.

16 5.05 **INSURANCE:**

17 The parties agree that no liability shall be attached to the City by reason of entering into 18 this Contract, except as expressly provided herein. The Contractor specifically agrees to 19 maintain insurance coverages in accordance with the applicable provisions of the Project 20 Manual and Section 1-07.18 of the Standard Specifications. The Contractor agrees that all 21 insurance policies shall include the City, and others if required by the Contract Documents, 22 as Additional Named Insureds. All insurance policies shall be endorsed to provide that 23 such policies shall be primary to any insurance carried by the City and that no policy shall 24 be canceled, materially changed or reduced in coverage until after thirty (30) days prior 25 written notice has been delivered to the City.

26 27

38

5.06 LABOR AND WAGES:

28 Prevailing wages shall be paid. Contractor specifically agrees and shall have sole 29 responsibility to comply with the applicable provisions of the Project Manual and 30 Section 1-07.9 of the Standard Specifications, and to file all required forms, certificates, and affidavits necessary to comply with Federal and State laws before final payment shall 31 32 be made by the City. Prior to commencement of the Work, the latest prevailing wage rate 33 information shall be obtained from the State of Washington, Department of Labor and 34 Industries, Industrial Relations Division, General Administration Building, Olympia, WA 35 98501, Attn: Industrial Statistician, and shall be incorporated in and become a part of this 36 Contract. Contractor shall bear any and all risk related to the classification and payment 37 of applicable prevailing wage.

39 5.07 **RECOVERY FOR DISRUPTION OR DELAY:**

40 In the event the Contractor (including any subcontractors or suppliers of any tier) is held 41 to be entitled to damages from the City for disruption or delay, it is agreed that the total 42 damages to the Contractor (including damages to any subcontractor or supplier of any tier) 43 shall be limited to the lesser of (i) the actual time and materials costs associated with the

1 impact of such disruption or delay, along with a markup of ten percent (10%) on the Contractor's own work and a markup of eight percent (8 %) on that of its subcontractors 2 3 and suppliers, or (ii) the daily liquidated damages rate specified in Paragraph 5.03 above. 4 In no event shall the Contractor be entitled to recover costs incurred, nor shall any damages 5 will be allowed for, any time prior to ten (10) calendar days before receipt of a timely 6 written notice of a Claim for disruption or delay.

8 5.08 EXECUTION, CORRELATION AND INTENT:

9 By execution of this Contract, the Contractor represents and warrants that the Contractor: 10 (i) has carefully examined the Contract Documents and the Project site; (ii) has become 11 familiar with the local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents: (iii) is satisfied as to 12 13 (a) the nature, location, character, quality and quantity of the Work, (b) the labor, materials, tools, equipment, transportation, supplies and incidentals to be furnished in the 14 performance of the Work, (c) the surface conditions and other matters that may be 15 encountered at the Project site or affect performance of the Work or the cost or difficulty 16 17 thereof, and (d) all other requirements of the Contract Documents; and (iv) agrees that the Contract Time is adequate for the performance of the Work and the Contract Sum is 18 19 reasonable compensation for all the Work. The failure of the Contractor to adequately 20 investigate any such condition or matter shall not in any way relieve the Contractor from the Contractor's obligation to perform the Work in accordance with the Contract 21 Documents within the Contract Time for the Contract Sum. 22

23 IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed 24 in triplicate as of the day and year first above written.

CITY OF LYNNWOOD:

CONTRACTOR:

By

7

Nicola Smith, Mayor

By____

Its_____(An Authorized Representative)

(Name of Contractor)

SECTION 6
PERFORMANCE AND INDEMNITY BOND
LABOR AND MATERIALS BOND
INSURANCE CERTIFICATE
CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT OF STATUTORY RETAINED PERCENTAGE
INFORMATION ONLY
The following form must be executed and submitted by the successful Bidder within ten (10) days following notice of award.

- 1 [NOTE: Name of Contractor must be identical to the Bidder]
- 2 [NOTE: Date of Bond must not be prior to date of Contract]
 - CITY OF LYNNWOOD

4

3

PERFORMANCE BOND

5 We, (**CONTRACTOR**), as the Contractor, and (**SURETY**), as the Surety, jointly and severally, 6 bind ourselves, our heirs, executors, administrators, successors and assigns, as set forth herein, to 7 the City of Lynnwood, Washington (the "City") for the performance of the following described 8 Contract, or for the payment of the sum of (**AMOUNT**) Dollars \$ (**AMOUNT**), in lawful money 9 of the United States. The City has awarded the Contractor a contract for the construction 10 ("Contract") of 2019 Overlay and Curb Ramp Project.

The condition of this Bond is such that if the Contractor shall in all things abide by and well and truly keep and perform the covenants, and agreements in said Contract, at the time and in the manner therein specified, and shall indemnify and save harmless the City, as specified in the Contract, this Bond shall became null and void; otherwise, it shall be and remain in full force and effect.

16 The Surety agrees that no change, extension of time, alteration, or addition to the terms of the 17 Contract, or the Work to be performed thereunder, shall in any way affect its obligation on this 18 bond, and the Surety does hereby waive notice thereof.

Whenever the Contractor shall be, and is declared by the City to be, in default under the Contract,the Surety shall promptly remedy the default, or shall promptly:

- 21 1. Complete the Contract in accordance with its terms and conditions, or
- 22 2. Obtain a bid or bids for completing the Contract, from qualified contractors acceptable to 23 the City, in accordance with the terms and conditions of the Contract, and upon 24 determination by Surety of the lowest responsible bidder, or, if the City elects, upon determination by the City and the Surety jointly of the lowest responsible bidder, arrange 25 for a contract between such bidder and the City, and make available as Work progresses 26 27 (even though there should be a default or a succession of defaults under the contract or 28 contracts of completion arranged under this paragraph) sufficient funds to pay the cost of 29 completion of the Project, including such costs and damages for which the Surety may be 30 liable hereunder, less the balance of the Contract Sum, but not exceeding the amount set forth in the first paragraph hereof. The term "balance of the Contract Sum," as used in this 31 32 paragraph shall mean the total amount payable by City to Contractor under the Contract 33 and any amendments thereto less the amount properly paid by City to Contractor.
- This performance bond shall remain in full force and effect until completion of the Project and acceptance by the City, for a minimum of two (2) years after acceptance.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which that payment under the Contract falls due.

- 1 No right of action shall accrue on this bond to or for the use of any person or corporation other
- 2 than the City named herein or the heirs, executors, administrators or successors of the City.

In the event that the City is obliged to employ legal counsel to enforce its rights under this bond through negotiations or suit, the City shall be entitled to recover all attorney's fees and costs, including expert costs, reasonably incurred.

 6
 Signed and sealed this _____ day of _______, 201_.

 (Witness)
 (Principal)

 (Title)
 (Surety)

 (Title)
 (Title)

- 1 [NOTE: Name of Contractor must be identical to the Bidder]
- 2 [NOTE: Date of Bond must not be prior to date of Contract]

3

PAYMENT BOND

4 We, (CONTRACTOR), as the Contractor, and (SURETY), as the Surety, jointly and severally,

5 bind ourselves, our heirs, executors, administrators, successors, and assigns, as set forth herein, to

6 the City of Lynnwood (the "City") for payment of the sum of (AMOUNT) dollars (\$(AMOUNT))

7 in lawful money of the United States. The City has awarded the Contractor a contract ("Contract")

8 for the construction of 2019 Overlay and Curb Ramp Project (the "Project").

9 The condition of this Bond is such that if Contractor shall promptly make payment to all Claimants 10 (as hereafter defined) for all labor, professional services, materials or equipment used or 11 reasonably required for use in the performance of the Contract, then this Bond shall be void; 12 otherwise it shall remain in full force and effect.

- 13 1. A Claimant is defined as one having a contract with the Contractor or a subcontractor for 14 labor, professional services, materials, or equipment, used or reasonably required or used 15 in the construction of the Project and the performance of the Contract (which shall be 16 construed to include that part of all electricity, water, gas, oil, gasoline, telephone or other 17 utility service or rental of equipment directly applicable to the Contract).
- 2. The Contractor and Surety hereby jointly and severally agree with the City that every
 Claimant, who has not been paid in full before the expiration of a period of sixty (60) days
 after the date on which the last of such Claimant's labor, professional services, materials
 or equipment were furnished by such Claimant in connection with the Project, may sue on
 this Bond for the use of such Claimant, prosecute the suit to final judgment for such sum
 or sums as may be justly due such Claimant, and have execution thereon. The City shall
 not be liable for the payment of any costs or expenses of any such suit.
- 3. No suit or action shall be commenced hereunder by any Claimant unless such Claimant
 shall have given such notice and taken such other actions as may be required by State law.
- 4. The amount of this Bond shall be reduced by and to the extent of any payment or payments
 made in good faith hereunder inclusive of the payment by Surety of mechanics' liens which
 may be filed of record against the Project, whether or not claim for the amount of such lien
 be presented under and against this Bond.

31	Signed and sealed this day of	, 201
	(Witness)	(Principal)
		(Title)
	(Witness)	(Surety)
		(Title)

1 ATTENTION CONTRACTORS AND INSURANCE AGENTS

2

3 TIME IS OF THE ESSENCE

4 5 6 7	CERTIFICATES OF INSURANCE MUST BE COMPLETED AS INDICATED ON THE ATTACHED SAMPLE. INCOMPLETE OR ALTERED CERTIFICATES WILL BE RETURNED TO THE INSURANCE AGENT FOR COMPLIANCE.
7 8 9	IF THE CITY DOES NOT RECEIVE A PROPERLY COMPLETED AND <u>SIGNED CERTIFICATE OF</u> <u>INSURANCE AND CG 2010 07 04 AND CG 2037 07 04 ADDITIONAL INSURED ENDORSEMENTS</u> THE FOLLOWING NON-EXHAUSTIVE LIST OF CONSEQUENCES MAY RESULT:
10 11	THE CITY CANNOT SIGN THE CONSTRUCTION CONTRACTWORK CANNOT BEGIN
12	BREACH OF CONTRACT
13	 UNINSURED EXPOSURE TO CONTRACTOR
14 15	INSURANCE AGENT WILL HAVE TO DO IT OVER
16	
17	INSTRUCTIONS
18	1. Fax the attached sample certificate of insurance and requirements along with the insurance
19	instructions, from the construction bid specifications, to your insurance agent for
20	completion.
21	2. Have your agent return the completed and signed certificate and additional insured
22	endorsement CG 2010 AND CG 2037 directly back to you so that you can return with your
23	signed contracts and mail directly to:
24	City of Lynnwood
25	Public Works Department
26	Attention: Construction Manager
27 28	PO Box 5008
20	Lynnwood WA 98046-5008

29 30 31



CERTIFICATE OF LIABILITY INSURANCE

Consecutation and

the generations in bound as a variable of information cally and scinfers no signify open the descriptions whiles. The constructed inter not approximatively of undertidely and strend on alter the description of the pression below. This definitions for informatively one not constituite a contract netween the heading information, authorized beneficial this definitions, and the central that constituite a contract netween the heading information between this ar products, and the central that constituites.						
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POLICY NUMBER;

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location(s) Of Covered Operations
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 Sections for Advecting on the section of t	 With excepted to this institution allocated to be address delitioned incorports. The following additional address increasing. This incorport descention apply to be being or preparity demogra institution affect. All work, including materials, partie or equip- ment invisible in contaction with each sort, at the project is the perturbed by or on beinging in repears) is he perturbed by or on beinging in the solutions insurable at the location of the covered operations has been completed; or This portion of "your work" ast of which the right of demogra mass in a section of the reversed operations has been completed; or This portion of "your work" ast of which the right of demogra mass in a section of the formation of a section of section of the section of the reversed operations has been completed; or This portion of "your work" ast of which the right was by any percent or completely of the section of the section of the section of the formation of the section of the section of the formation of the section of the section of the section of the section of the section of the reversed operations has been completely of the section of the section of the section of the section of the section of th
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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location And Description Of Completed Operations
Information required to complete this Schedule, if not she	own above, will be shown in the Declarations.

Section II - Who Is An Insured is amended to section in – who is An insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property dam-age" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

CG 20 37 07 04

May 2019

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CERTIFICATE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY)

C B	ERTI ELO\	FICATE DO	ES NOT AFFIR	S A MATTER OF INFORMATION (RMATIVELY OR NEGATIVELY AME F INSURANCE DOES NOT CONS ER, AND THE CERTIFICATE HOLDE	END, EXTEND OR TITUTE A CONTRA	ALTER THE CO	VERAGE AFFORDED E	BY THE POLICIE
	fthis	s certificate i	is being prepar	ed for a party who has an insurable		perty, do not use	this form. Use ACORD	27 or ACORD 28.
PRO	DUCEF	1			CONTACT NAME:			
					PHONE		FAX	
					(A/C, No, Ext): E-MAIL		(A/C, No):	
					ADDRESS: PRODUCER			
					CUSTOMER ID:			10
						INSURER(S) AFFOR	RDING COVERAGE	NAIC#
INSU	RED				INSURER A :			
					INSURER B :			
					INSURER C :			
					INSURER D :			
					INSURER E :			
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				ROPERTY (Attach ACORD 101, Additional Rem			REVISION NOMBER.	
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INSR LTR		TYPE OF IN		POLICY NUMBER	POLICY EFFECTIVE	POLICY EXPIRATION DATE (MM/DD/YYYY)	COVERED PROPERTY	LIMITS
		PROPERTY					BUILDING	\$
	CAU	SES OF LOSS	DEDUCTIBLES				PERSONAL PROPERTY	s
		BASIC	BUILDING				BUSINESS INCOME	6
			-					\$
		BROAD	CONTENTS					\$
		SPECIAL					RENTAL VALUE	\$
		EARTHQUAKE					BLANKET BUILDING	\$
		WIND		-			BLANKET PERS PROP	s
		FLOOD		-			BLANKET BLDG & PP	
		12000		-				\$
				_				\$
								\$
		INLAND MARINE	E	TYPE OF POLICY				\$
	CAU	SES OF LOSS						s
		NAMED PERILS	1	POLICY NUMBER	-			\$
	-							A. 6.
	_							\$
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					THE EXPIRA		ESCRIBED POLICIES BE C EREOF, NOTICE WILL I 2Y PROVISIONS.	
					AUTHORIZED REF	PRESENTATIVE		
						@ 1005 2000 AC	ORD CORPORATION.	All rights reserve

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1 2 3	CONT		RATION OF OPT RY RETAINED	FION FOR MANAGEMENT OF PERCENTAGE
5 4 5 6 7	1.□	-	intil released in acc	ntage of this contract held in a fund by the cordance with RCW 60.28 following final
8		Date	Signed	
9			0	
10 11 12 13	2.□	account by the Contra	cting Agency with	ntage placed in an interest-bearing an approved financial institution until following final acceptance of the Work.
14 15		I harabu dagignata		as the repeations for the said funds
15 16		Thereby designate		as the repository for the said funds.
17		Date	Signed	
18		2		
19				
20 21 22 23 24	3.□	Agency with a bank o	r trust company un acceptance of the V	ntage placed in escrow by the Contracting ntil released in accordance with RCW Work. The Contracting Agency will
24 25 26 27		I hereby designate said funds.		as the repository for the escrow of
28 29 30 31 32 33 34		incurred as a result of as authorized by status investment of retained	placing said retain te, and I agree to as l percentages. The or fees in connect	sible for payment of all costs or fees ned percentage in escrow and investing it ssume all risks in connection with the contracting Agency shall not be liable in ion therewith. This agreement is subject apter 60.28.
35 35		Date	Signed	
36 37		Datt	Signed	
38 39 40 41 42 43	4.□	the Contracting Agend Washington and accept	cy from a surety lic ptable to the Contra	ract retainage using a form acceptable to censed to conduct business in the state of acting Agency. Such bond shall remain h RCW 60.28 following final acceptance
44	Date		Signed	
45			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

1	SECTION 7
2	PREVAILING WAGE RATES

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: 4/16/2019

<u>County</u>	<u>Trade</u>	Job Classification	<u>Wage</u>	Holiday	Overtime	Note
Snohomish	Asbestos Abatement Workers	Journey Level	\$46.57	<u>5D</u>	<u>1H</u>	
Snohomish	<u>Boilermakers</u>	Journey Level	\$66.54	<u>5N</u>	<u>1C</u>	
Snohomish	Brick Mason	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	Brick Mason	Pointer-Caulker-Cleaner	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	Building Service Employees	Janitor	\$12.00		1	
Snohomish	Building Service Employees	Shampooer	\$12.00		<u>1</u>	
Snohomish	Building Service Employees	Waxer	\$12.00		<u>1</u>	
Snohomish	Building Service Employees	Window Cleaner	\$13.48		<u>1</u>	
Snohomish	<u>Cabinet Makers (In Shop)</u>	Journey Level	\$25.16	<u>5C</u>	<u>2M</u>	
Snohomish	<u>Carpenters</u>	Acoustical Worker	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Bridge, Dock And Wharf Carpenters	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Carpenter	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Carpenters on Stationary Tools	\$60.17	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Creosoted Material	\$60.14	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Floor Finisher	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Floor Layer	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Carpenters</u>	Scaffold Erector	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Cement Masons</u>	Journey Level	\$60.07	<u>7A</u>	<u>4U</u>	
Snohomish	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$113.60	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Dive Supervisor/Master	\$76.33	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Diver	\$113.60	<u>5D</u>	<u>4C</u>	<u>8V</u>
Snohomish	Divers & Tenders	Diver On Standby	\$71.33	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Diver Tender	\$64.71	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Manifold Operator	\$64.71	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Manifold Operator Mixed Gas	\$69.71	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$64.71	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Remote Operated Vehicle Tender	\$60.29	<u>5A</u>	<u>4C</u>	
Snohomish	Dredge Workers	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	

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Snohomish	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
Snohomish	Drywall Applicator	Journey Level	\$58.48	<u>5D</u>	<u>1H</u>	
Snohomish	Drywall Tapers	Journey Level	\$59.32	<u>5P</u>	<u>1E</u>	
Snohomish	Electrical Fixture Maintenance Workers	Journey Level	\$13.76		<u>1</u>	
Snohomish	<u>Electricians - Inside</u>	Cable Splicer	\$71.52	<u>7H</u>	<u>1E</u>	
Snohomish	<u>Electricians - Inside</u>	Construction Stock Person	\$34.97	<u>7H</u>	<u>1D</u>	
Snohomish	<u>Electricians - Inside</u>	Journey Level	\$66.89	<u>7H</u>	<u>1E</u>	
Snohomish	Electricians - Motor Shop	Craftsman	\$15.37		<u>1</u>	
Snohomish	<u>Electricians - Motor Shop</u>	Journey Level	\$14.69		<u>1</u>	
Snohomish	Electricians - Powerline Construction	Cable Splicer	\$79.60	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Certified Line Welder	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Groundperson	\$47.94	<u>5A</u>	<u>4D</u>	
Snohomish	<u>Electricians - Powerline</u> <u>Construction</u>	Heavy Line Equipment Operator	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	<u>Electricians - Powerline</u> <u>Construction</u>	Journey Level Lineperson	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	<u>Electricians - Powerline</u> <u>Construction</u>	Line Equipment Operator	\$62.06	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Meter Installer	\$47.94	<u>5A</u>	<u>4D</u>	<u>8W</u>
Snohomish	Electricians - Powerline Construction	Pole Sprayer	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Powderperson	\$54.55	<u>5A</u>	<u>4D</u>	
Snohomish	Electronic Technicians	Electronic Technicians Journey Level	\$43.70	<u>5B</u>	<u>1B</u>	
Snohomish	Elevator Constructors	Mechanic	\$94.22	<u>7D</u>	<u>4A</u>	
Snohomish	Elevator Constructors	Mechanic In Charge	\$101.73	<u>7D</u>	<u>4A</u>	
Snohomish	Fabricated Precast Concrete	Journey Level	\$13.50		<u>1</u>	
	Products					
Snohomish	Products Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>	
	Fabricated Precast Concrete	-	\$13.50 \$41.45	<u>7A</u>	<u>1</u> <u>31</u>	
Snohomish	Fabricated Precast Concrete Products	Only		<u>7A</u> 7A		
Snohomish Snohomish	Fabricated Precast Concrete Products Fence Erectors Fence Erectors	Only Fence Erector	\$41.45		<u>31</u>	
Snohomish Snohomish	Fabricated Precast Concrete Products Fence Erectors Fence Erectors Flaggers	Only Fence Erector Fence Laborer	\$41.45 \$41.45	<u>7A</u> <u>7A</u>	<u>31</u> <u>31</u>	
Snohomish Snohomish Snohomish Snohomish	Fabricated Precast Concrete Products Fence Erectors Fence Erectors Flaggers	Only Fence Erector Fence Laborer Journey Level	\$41.45 \$41.45 \$41.45	<u>7A</u>	<u>31</u> <u>31</u> <u>31</u>	
Snohomish Snohomish Snohomish Snohomish Snohomish	Fabricated Precast Concrete ProductsFence ErectorsFence ErectorsFlaggersGlaziersHeat & Frost Insulators And Asbestos Workers	Only Fence Erector Fence Laborer Journey Level Journey Level Journeyman	\$41.45 \$41.45 \$41.45 \$64.56 \$73.58	<u>7A</u> <u>7A</u> <u>7L</u> <u>5J</u>	31 31 31 1Y 4H	
Snohomish Snohomish Snohomish Snohomish Snohomish	Fabricated Precast Concrete ProductsFence ErectorsFence ErectorsFlaggersGlaziersHeat & Frost Insulators And Asbestos WorkersHeating Equipment Mechanics	Only Fence Erector Fence Laborer Journey Level Journey Level Journeyman Journey Level	\$41.45 \$41.45 \$41.45 \$64.56 \$73.58 \$82.51	7A 7A 7L 5J 7E	31 31 31 1Y 4H 1E	
Snohomish Snohomish Snohomish Snohomish Snohomish Snohomish	Fabricated Precast Concrete ProductsFence ErectorsFence ErectorsFlaggersGlaziersHeat & Frost Insulators And Asbestos Workers	Only Fence Erector Fence Laborer Journey Level Journey Level Journeyman	\$41.45 \$41.45 \$41.45 \$64.56 \$73.58	<u>7A</u> <u>7A</u> <u>7L</u> <u>5J</u>	31 31 31 1Y 4H	

Snohomish	Inland Boatmen	Cook	\$56.48	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Mate	\$57.31	<u>5B</u>	<u>1K</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$12.00		1	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$12.00		1	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$12.78		1	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$12.00		1	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$12.00		<u>1</u>	
Snohomish	Insulation Applicators	Journey Level	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Ironworkers</u>	Journeyman	\$69.28	<u>7N</u>	<u>10</u>	
Snohomish	<u>Laborers</u>	Air, Gas Or Electric Vibrating Screed	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Airtrac Drill Operator	\$50.42	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Ballast Regular Machine	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Batch Weighman	\$41.45	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Brick Pavers	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Brush Cutter	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Brush Hog Feeder	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Burner	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Caisson Worker	\$50.42	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Carpenter Tender	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Caulker	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Cement Dumper-paving	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Cement Finisher Tender	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Change House Or Dry Shack	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Chipping Gun (under 30 Lbs.)	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Chipping Gun(30 Lbs. And Over)	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Choker Setter	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Chuck Tender	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Clary Power Spreader	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	Laborers	Clean-up Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Concrete Dumper/chute Operator	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	Laborers	Concrete Form Stripper	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Concrete Placement Crew	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<u>Laborers</u>	Concrete Saw Operator/core Driller	\$49.81	<u>7A</u>	<u>31</u>	

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Snohomish	<u>Laborers</u>	Crusher Feeder	\$41.45	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Curing Laborer	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Demolition: Wrecking & Moving (incl. Charred Material)	\$48.90	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Ditch Digger	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Diver	\$50.42	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Drill Operator (hydraulic,diamond)	\$49.81	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Dry Stack Walls	\$48.90	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Dump Person	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Epoxy Technician	\$48.90	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Erosion Control Worker	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Faller & Bucker Chain Saw	\$49.81	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Fine Graders	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Firewatch	\$41.45	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Form Setter	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Gabian Basket Builders	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	General Laborer	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Grade Checker & Transit Person	\$50.42	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Grinders	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Grout Machine Tender	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Groutmen (pressure)including Post Tension Beams	\$49.81	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Guardrail Erector	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Hazardous Waste Worker (level A)	\$50.42	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Hazardous Waste Worker (level B)	\$49.81	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	Hazardous Waste Worker (level C)	\$48.90	<u>7A</u>	<u>31</u>
Snohomish	<u>Laborers</u>	High Scaler	\$50.42	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Jackhammer	\$49.81	<u>7A</u>	<u>3I</u>
Snohomish	<u>Laborers</u>	Laserbeam Operator	\$49.81	<u>7A</u>	<u>3I</u>
Snohomish	Laborers	Maintenance Person	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	Laborers	Manhole Builder-mudman	\$49.81	<u>7A</u>	<u>3I</u>
Snohomish	Laborers	Material Yard Person	\$48.90	<u>7A</u>	<u>3I</u>
Snohomish	Laborers	Motorman-dinky Locomotive	\$49.81	<u>7A</u>	<u>3I</u>
Snohomish		Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$49.81	<u>7</u> A	<u>3</u> 1
Snohomish	Laborers	Pavement Breaker	\$49.81	<u>7A</u>	<u>31</u>
Coobomich	Laborers	Pilot Car	\$41.45	<u>7A</u>	<u>31</u>
21101101111211		Pipe Layer Lead	\$50.42	<u>7A</u>	<u>31</u>
	Laborers				
Snohomish		Pipe Layer/tailor	\$49.81	<u>7A</u>	<u>3I</u>
Snohomish Snohomish Snohomish	Laborers		\$49.81 \$49.81	<u>7A</u> <u>7A</u>	<u>31</u> <u>31</u>

Snohomish Snohomish		Pipe Wrapper Pot Tender	\$49.81 \$48.90	<u>7A</u> 7A	<u>31</u> <u>31</u>	
Snohomish		Powderman	\$ 1 0.70 \$50.42	<u>7A</u> 7A	<u>31</u> 31	_
Snohomish		Powderman's Helper	\$48.90	<u>7A</u> 7A	<u>31</u> 31	_
Snohomish		Power Jacks	\$49.81	<u>7A</u> 7A	<u>31</u> 31	
Snohomish		Railroad Spike Puller - Power	\$49.81	<u>7A</u> 7A	<u>31</u> 31	
Snohomish		Raker - Asphalt	\$ 1 7.01 \$50.42	<u>7A</u> 7A	<u>31</u> <u>31</u>	
Snohomish		Re-timberman	\$50.42 \$50.42	<u>7A</u> 7A	<u>31</u>	
Snohomish		Remote Equipment Operator	\$49.81	<u>7A</u> 7A	<u>31</u>	
Snohomish		Rigger/signal Person	\$49.81	<u>7A</u> 7A	<u>31</u>	
Snohomish		Rip Rap Person	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish		Rivet Buster	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish		Rodder	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish		Scaffold Erector	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish		Scale Person	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish		Sloper (over 20")	\$49.81	<u>7A</u> 7A	<u>31</u> <u>31</u>	
Snohomish		Sloper Sprayer	\$48.90	<u>7A</u> 7A	<u>31</u> <u>31</u>	
Snohomish		Spreader (concrete)	\$49.81	<u>7A</u> 7A	<u>31</u> 31	
Snohomish		Stake Hopper	\$48.90	<u>7A</u> 7A	<u>31</u>	
Snohomish		Stock Piler	\$48.90	<u>7A</u> 7A	<u>31</u> <u>31</u>	
Snohomish		Tamper & Similar Electric, Air & Gas Operated Tools	\$49.81	<u>7A</u> 7A	<u>31</u>	
Snohomish	<u>Laborers</u>	Tamper (multiple & Self- propelled)	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	Laborers	Toolroom Person (at Jobsite)	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish		Topper	\$48.90	<u></u> 7A	<u>31</u>	
Snohomish		Track Laborer	\$48.90	<u></u> 7A	<u></u> <u>31</u>	
Snohomish		Track Liner (power)	\$49.81	<u></u> 7A	<u></u> <u>31</u>	
Snohomish		Traffic Control Laborer	\$44.33	<u></u> 7A	<u>31</u>	<u>8R</u>
Snohomish	Laborers	Traffic Control Supervisor	\$44.33	<u>7A</u>	<u>31</u>	<u>8R</u>
Snohomish		Truck Spotter	\$48.90	<u></u> 7A	<u>31</u>	
Snohomish	Laborers	Tugger Operator	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 0-30 psi	\$107.60	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$112.63	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$116.31	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$122.01	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$124.13	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$129.23	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$131.13	<u>7A</u>	<u>31</u>	<u>8Q</u>
	Laborers	Tunnel Work-Compressed Air	\$133.13	<u>7A</u>	<u>31</u>	<u>8Q</u>

		Worker 70.01-72.00 psi				
Snohomish	<u>Laborers</u>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$135.13	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Guage and Lock Tender	\$50.52	<u>7A</u>	<u>31</u>	<u>80</u>
Snohomish	<u>Laborers</u>	Tunnel Work-Miner	\$50.52	<u>7A</u>	<u>31</u>	<u>8Q</u>
Snohomish	<u>Laborers</u>	Vibrator	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Vinyl Seamer	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Watchman	\$37.67	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Welder	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Well Point Laborer	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	<u>Laborers</u>	Window Washer/cleaner	\$37.67	<u>7A</u>	<u>31</u>	
Snohomish	Laborers - Underground Sewer & Water	General Laborer & Topman	\$48.90	<u>7A</u>	<u>31</u>	
Snohomish	Laborers - Underground Sewer & Water	Pipe Layer	\$49.81	<u>7A</u>	<u>31</u>	
Snohomish	Landscape Construction	Landscape Laborer	\$37.67	<u>7A</u>	<u>31</u>	
Snohomish	Landscape Construction	Landscape Operator	\$63.76	<u>7A</u>	<u>3K</u>	<u>8</u> >
Snohomish	<u>Landscape Maintenance</u>	Groundskeeper	\$14.13		<u>1</u>	
Snohomish	Lathers	Journey Level	\$58.48	<u>5D</u>	<u>1H</u>	
Snohomish	<u>Marble Setters</u>	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Fitter	\$15.38		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Laborer	\$12.00		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Machine Operator	\$12.00		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Painter	\$12.00		<u>1</u>	
Snohomish	<u>Metal Fabrication (In Shop)</u>	Welder	\$15.38		<u>1</u>	
Snohomish	<u>Millwright</u>	Journey Level	\$61.54	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Modular Buildings</u>	Journey Level	\$12.00		<u>1</u>	
Snohomish	Painters	Journey Level	\$42.50	<u>6Z</u>	<u>2B</u>	
Snohomish	<u>Pile Driver</u>	Crew Tender/Technician	\$64.71	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$74.87	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$79.87	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$83.87	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$88.87	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$91.37	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$96.37	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$98.37	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$100.37	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$102.37	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Journey Level	\$60.29	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Pile Driver</u>	Manifold Operator (LST)	\$69.71	<u>5D</u>	<u>4C</u>	

Snohomish	<u>Plasterers</u>	Journey Level	\$56.54	<u>7Q</u>	<u>1R</u>	
	<u>Playground & Park Equipment</u> Installers	Journey Level	\$12.00		<u>1</u>	
Snohomish	Plumbers & Pipefitters	Journey Level	\$71.42	<u>5A</u>	<u>1G</u>	
Snohomish	Power Equipment Operators	Asphalt Plant Operators	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Assistant Engineer	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Barrier Machine (zipper)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Batch Plant Operator: concrete	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Bobcat	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Brooms	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Bump Cutter	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cableways	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Chipper	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Compressor	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Concrete Finish Machine - Laser Screed	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Conveyors	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes friction: 200 tons and over	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Crusher	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>

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Snohomish	Power Equipment Operators	Deck Engineer/Deck Winches (power)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Derricks, On Building Work	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Dozers D-9 & Under	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Drilling Machine	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Gradechecker/Stakeman	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
inohomish	Power Equipment Operators	Guardrail Punch	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
snohomish	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Horizontal/Directional Drill Locator	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Horizontal/Directional Drill Operator	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Hydralifts/Boom Trucks, 10 Tons And Under	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
nohomish	Power Equipment Operators	Loaders, Plant Feed	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
inohomish	Power Equipment Operators	Loaders: Elevating Type Belt	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Locomotives, All	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Material Transfer Device	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
inohomish	Power Equipment Operators	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Motor Patrol Graders	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Outside Hoists (Elevators And	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>

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Snohomish	Power Equipment Operators	Manlifts), Air Tuggers, Strato Overhead, Bridge Type Crane: 20	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Shohomish	rower Equipment Operators	Tons Through 44 Tons	J04.20	<u>/A</u>	<u>511</u>	<u>0/</u>
Snohomish	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Pavement Breaker	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Posthole Digger, Mechanical	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Power Plant	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Pumps - Water	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Rigger and Bellman	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Rollagon	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Roller, Other Than Plant Mix	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Roto-mill, Roto-grinder	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Saws - Concrete	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Scrapers - Concrete & Carry All	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Service Engineers - Equipment	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Shotcrete/Gunite Equipment	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Slipform Pavers	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Spreader, Topsider & Screedman	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Subgrader Trimmer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>

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	Power Equipment Operators	Tower Bucket Elevators	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Transporters, All Track Or Truck Type	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Trenching Machines	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Truck Crane Oiler/Driver Under 100 Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Truck Mount Portable Conveyor	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Welder	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Wheel Tractors, Farmall Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators	Yo Yo Pay Dozer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operators	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator, Concrete	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Bobcat	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Brooms	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Bump Cutter	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cableways	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Chipper	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Compressor	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine - Laser Screed	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Cnahamish	Power Equipment Operators-	Conveyors	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>

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	Underground Sewer & Water					
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes friction: 200 tons and over	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Crusher	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Deck Engineer/Deck Winches (power)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Derricks, On Building Work	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Drilling Machine	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Gradechecker/Stakeman	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Guardrail Punch	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>

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Snohomish	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Locator	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Operator	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Hydralifts/Boom Trucks Over 10 Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Hydralifts/Boom Trucks, 10 Tons And Under	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Locomotives, All	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Motor Patrol Graders	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Outside Hoists (Elevators And Manlifts), Air Tuggers, Strato	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Power Plant	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>

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Snohomish	Power Equipment Operators- Underground Sewer & Water	Pumps - Water	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Rigger and Bellman	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Rollagon	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Roller, Other Than Plant Mix	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Service Engineers - Equipment	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Shotcrete/Gunite Equipment	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>

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Snohomish	Power Equipment Operators- Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	\$64.83	<u>7A</u>	<u>3K</u>	<u>8×</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Trenching Machines	\$63.76	<u>7A</u>	<u>3K</u>	<u>8×</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$64.26	<u>7A</u>	<u>3K</u>	<u>8></u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/Driver Under 100 Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8)</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	\$64.26	<u>7A</u>	<u>3K</u>	<u>8</u> >
Snohomish	Power Equipment Operators- Underground Sewer & Water	Welder	\$64.83	<u>7A</u>	<u>3K</u>	<u>8</u>)
Snohomish	Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8</u> >
Snohomish	Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8)</u>
Snohomish	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$49.96	<u>5A</u>	<u>4A</u>	
Snohomish	Power Line Clearance Tree Trimmers	Spray Person	\$47.37	<u>5A</u>	<u>4A</u>	
Snohomish	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$49.96	<u>5A</u>	<u>4A</u>	
Snohomish	Power Line Clearance Tree Trimmers	Tree Trimmer	\$44.57	<u>5A</u>	<u>4A</u>	
Snohomish	<u>Power Line Clearance Tree</u> <u>Trimmers</u>	Tree Trimmer Groundperson	\$33.60	<u>5A</u>	<u>4A</u>	
Snohomish	Refrigeration & Air Conditioning Mechanics	Journey Level	\$70.71	<u>5A</u>	<u>1G</u>	
Snohomish	Residential Brick Mason	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	Residential Carpenters	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
Snohomish	Residential Cement Masons	Journey Level	\$60.07	<u>7A</u>	<u>4U</u>	
Snohomish	Residential Drywall Applicators	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
Snohomish	<u>Residential Drywall Tapers</u>	Journey Level	\$45.19	<u>5P</u>	<u>1E</u>	
Snohomish	Residential Electricians	Journey Level	\$29.00	<u>51</u>	<u>1E</u>	
Snohomish	Residential Glaziers	Journey Level	\$43.00	<u>7L</u>	<u>1H</u>	
Snohomish	Residential Insulation Applicators	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
Snohomish	Residential Laborers	Journey Level	\$36.68	<u>7A</u>	<u>1H</u>	
Snohomish	Residential Marble Setters	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	Residential Painters	Journey Level	\$42.50	<u>6Z</u>	<u>2B</u>	
Snohomish	<u>Residential Plumbers &</u> <u>Pipefitters</u>	Journey Level	\$44.34	<u>5A</u>	<u>1G</u>	
Snohomish	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$41.01	<u>5A</u>	<u>1G</u>	
Snohomish	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$50.01	<u>7F</u>	<u>1R</u>	

Snohomish	Residential Sprinkler Fitters (Fire	Journey Level	\$48.18	<u>5C</u>	<u>2R</u>	
	Protection)					
	Residential Stone Masons	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
	<u>Residential Terrazzo Workers</u>	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Residential Terrazzo/Tile</u> <u>Finishers</u>	Journey Level	\$43.44	<u>5A</u>	<u>1B</u>	
Snohomish	Residential Tile Setters	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Roofers</u>	Journey Level	\$51.52	<u>5A</u>	<u>3H</u>	
Snohomish	<u>Roofers</u>	Using Irritable Bituminous Materials	\$54.52	<u>5A</u>	<u>3H</u>	
Snohomish	Sheet Metal Workers	Journey Level (Field or Shop)	\$82.51	<u>7F</u>	<u>1E</u>	
Snohomish	Shipbuilding & Ship Repair	New Construction Boilermaker	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	Shipbuilding & Ship Repair	New Construction Carpenter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	Shipbuilding & Ship Repair	New Construction Crane Operator	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Electrician	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	\$73.58	<u>5J</u>	<u>4H</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Laborer	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Machinist	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	Shipbuilding & Ship Repair	New Construction Operating Engineer	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Painter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Pipefitter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Rigger	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Sheet Metal	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	New Construction Shipfitter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	Shipbuilding & Ship Repair	New Construction Welder / Burner	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	Shipbuilding & Ship Repair	Ship Repair Boilermaker	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Carpenter	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Crane Operator	\$44.06	<u>7Y</u>	<u>4K</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Electrician	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	\$73.58	<u>5J</u>	<u>4H</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Laborer	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	Shipbuilding & Ship Repair	Ship Repair Machinist	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Operating Engineer	\$44.06	<u>7Y</u>	<u>4K</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Painter	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Pipefitter	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Rigger	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<u>Shipbuilding & Ship Repair</u>	Ship Repair Sheet Metal	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	Shipbuilding & Ship Repair	Ship Repair Shipwright	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	\$44.06	<u>7Y</u>	<u>4K</u>	
Snohomish	<u>Sign Makers & Installers</u> (<u>Electrical)</u>	Sign Installer	\$26.56		<u>1</u>	

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Snohomish	<u>Sign Makers & Installers</u> (<u>Electrical)</u>	Sign Maker	\$20.50		<u>1</u>	
Snohomish	<u>Sign Makers & Installers (Non- Electrical)</u>	Sign Installer	\$22.56		<u>1</u>	
Snohomish	<u>Sign Makers & Installers (Non- Electrical)</u>	Sign Maker	\$20.50		<u>1</u>	
Snohomish	Soft Floor Layers	Journey Level	\$49.43	<u>5A</u>	<u>3J</u>	
Snohomish	Solar Controls For Windows	Journey Level	\$12.00		<u>1</u>	
Snohomish	Sprinkler Fitters (Fire Protection)	Journey Level	\$78.39	<u>5C</u>	<u>1X</u>	
Snohomish	<u>Stage Rigging Mechanics (Non</u> <u>Structural)</u>	Journey Level	\$13.23		<u>1</u>	
Snohomish	Stone Masons	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	Street And Parking Lot Sweeper Workers	Journey Level	\$15.00		<u>1</u>	
Snohomish	<u>Surveyors</u>	Assistant Construction Site Surveyor	\$62.71	<u>7A</u>	<u>3K</u>	<u>8)</u>
Snohomish	<u>Surveyors</u>	Assistant Construction Site Surveyor	\$62.71	<u>7A</u>	<u>3K</u>	<u>8)</u>
Snohomish	<u>Surveyors</u>	Chainman	\$58.93	<u>7A</u>	<u>3C</u>	<u>8</u>
Snohomish	<u>Surveyors</u>	Construction Site Surveyor	\$63.76	<u>7A</u>	<u>3K</u>	8)
Snohomish	Telecommunication Technicians	Telecom Technician Journey Level	\$43.70	<u>5B</u>	<u>1B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Cable Splicer	\$41.22	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Hole Digger/Ground Person	\$23.12	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Installer (Repairer)	\$39.53	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Special Aparatus Installer I	\$41.22	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Special Apparatus Installer II	\$40.41	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Telephone Equipment Operator (Heavy)	\$41.22	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Telephone Equipment Operator (Light)	\$38.36	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Telephone Lineperson	\$38.36	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Television Groundperson	\$21.92	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Television Lineperson/Installer	\$29.13	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Television System Technician	\$34.68	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Television Technician	\$31.18	<u>5A</u>	<u>2B</u>	
Snohomish	<u>Telephone Line Construction -</u> <u>Outside</u>	Tree Trimmer	\$38.36	<u>5A</u>	<u>2B</u>	
Snohomish	Terrazzo Workers	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Tile Setters</u>	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<u>Tile, Marble & Terrazzo Finishers</u>	Finisher	\$43.44	<u>5A</u>	<u>1B</u>	

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Snohomish	Traffic Control Stripers	Journey Level	\$46.23	<u>7A</u>	<u>1K</u>	
Snohomish	Truck Drivers	Asphalt Mix Over 16 Yards	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	Truck Drivers	Asphalt Mix To 16 Yards	\$53.46	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	Truck Drivers	Dump Truck	\$53.46	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	Truck Drivers	Dump Truck & Trailer	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	Truck Drivers	Other Trucks	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	Truck Drivers - Ready Mix	Journey Level	\$50.94	<u>61</u>	<u>1B</u>	
Snohomish	<u>Well Drillers & Irrigation Pump</u> Installers	Irrigation Pump Installer	\$17.05		<u>1</u>	
Snohomish	<u>Well Drillers & Irrigation Pump</u> Installers	Oiler	\$13.93		<u>1</u>	
Snohomish	<u>Well Drillers & Irrigation Pump</u> Installers	Well Driller	\$19.01		<u>1</u>	

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 nonstandard 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.

	ITEM DESCRIPTION	YES	NO
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		x
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		x
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.		Х
4.	Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		Х
5.	Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		х
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.		x
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.		x

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.	Х	
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 PilingPrecast-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		x
18.	Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		X
19.	Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		X
20.	Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		х
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		x
22.	Vault Risers - For use with Valve Vaults and Utilities X Vaults.		X
23.	Valve Vault - For use with underground utilities. See Contract Plans for details.		Х
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.		х
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.	x	
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	x	

ITEM DESCRIPTION

YES NO

27.	Precast Railroad Crossings - Concrete Crossing Structure Slabs.	Х	
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

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.	х	
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		х
38.	Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	Х	
39.	Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Specia Provisions for pre-approved drawings.	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.		х

NO

	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. NOTE: *** 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	Cove WAC 296	red by 6-127-018
46.	Asphalt		red by 6-127-018
47.	Fiber fabrics		Х
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		Х
54.	Guide Posts		Х
55.	Traffic Buttons		Х
56.	Ероху		Х
57.	Cribbing		Х
58.	Water distribution materials		Х
59.	Steel "H" piles		Х
60.	Steel pipe for concrete pile casings		Х
61.	Steel pile tips, standard		Х
62.	Steel pile tips, custom	Х	

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 <u>39.12.010</u>

⁽The definition of "locality" in RCW <u>39.12.010</u>(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 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.]

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 fourten 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.
 - S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
 - W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
 - Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
 - Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Benefit Code Key – Effective 3/3/2019 thru 8/30/2019

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.
 - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
 - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
 - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - 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.
 - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, tenhour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.

3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
- C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

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Overtime Codes Continued

- 3. E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
 - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked 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.
 - I. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) 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 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.
 - 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.

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.
- B. All hours worked over twelve (12) hours per day and all hours worked on 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.

Overtime Codes Continued

4. 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 fourday, ten hour work week, and Saturday shall be paid at one and one half $(1\frac{1}{2})$ 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.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at 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.
- H. 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.
- 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.
- 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.

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- 4. 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.
 - M. All hours worked on Sunday and Holidays shall be paid at double the hourly rate. Any employee reporting to work less than nine (9) hours from their previous quitting time shall be paid for such time at time and one-half times the hourly rate.
 - N. 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, and all work performed between the hours of midnight (12:00 AM) and eight AM (8:00 AM) every day shall be paid at double the hourly rate of wage.
 - O. All hours worked between midnight Friday to midnight Sunday shall be paid at one and one-half the hourly rate of wage. After an employee has worked in excess of eight (8) continuous hours in any one or more calendar days, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of six (6) hours or more. All hours worked on Holidays shall be paid at double the hourly rate of wage.
 - P. All hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage.
 - Q. The first four (4) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday shall be paid at double the hourly rate. All hours worked on Sundays and holidays shall be paid at double the hourly rate.
 - R. All hours worked on Saturdays 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 on Sundays and holidays shall be paid at double the hourly rate of wage.
 - S. 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.
 - T. The first two (2) hours of overtime for hours worked Monday-Friday 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 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. For work on Saturday which is scheduled prior to the end of shift on Friday, the first six (6) hours work shall be paid at one and one-half times the hourly rate of wage, and all hours over (6) shall be paid double the hourly rate of wage. For work on Saturday which was assigned following the close of shift on Friday, all work shall be paid at double the hourly rate of wage.
 - 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.

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).

Holiday Codes Continued

- 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).
 - J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
 - 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).
 - T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
 - 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).
 - A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
 - E. Paid 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 a Half-

6.

Day On Christmas Eve Day. (9 1/2).

Holiday Codes Continued

- 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).
 I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).
- 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.

Holiday Codes Continued

- 7. 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.
 - L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
 - M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
 - N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
 - 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.
 - R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
 - S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

Benefit Code Key – Effective 3/3/2019 thru 8/30/2019

Holiday Codes Continued

- 7. T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
 - 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, President's Day, Independence Day, Memorial 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.
- 15. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the 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.
 - B. Holidays: New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. (9)
 - C. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8)
 - D Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, and the day after Christmas.

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.
 - P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
 - Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
 - R. Effective August 31, 2012 A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.
 - S. Effective August 31, 2012 A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
 - T. Effective August 31, 2012 A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
 - 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.

Benefit Code Key – Effective 3/3/2019 thru 8/30/2019

Note Codes Continued

8. 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.
- 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.)

1	
2	SECTION 8
3	AMENDMENTS TO STANDARD SPECIFICATIONS
4	
5	
6	
7	

1 INTRODUCTION

- 2 The following Amendments and Special Provisions shall be used in conjunction with the 3 2018 Standard Specifications for Road, Bridge, and Municipal Construction.
- 3 4 5 6

AMENDMENTS TO THE STANDARD SPECIFICATIONS

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

11

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

14

15 Section 1-01, Definitions and Terms

16 August 6, 2018

17 **1-01.3 Definitions**

18 The following new term and definition is inserted before the definition for "Shoulder": 19

- Sensitive Area Natural features, which may be previously altered by human activity,
 that are present on or adjacent to the project location and protected, managed, or
 regulated by local, tribal, state, or federal agencies.
- 24 The following new term and definition is inserted after the definition for "Working Drawings":

WSDOT Form – Forms developed and maintained by WSDOT that are required or available for use on a project. These forms can be downloaded from the forms catalogue at:

28 29 30

31

23

25 26

27

http://wsdot.wa.gov/forms/pdfForms.html

32 Section 1-02, Bid Procedures and Conditions

- 33 October 30, 2018
- 34 **1-02.4(1)** General

35 This section is supplemented with the following:

36

37 Prospective Bidders are advised that the Contracting Agency may include a partially 38 completed Washington State Department of Ecology (Ecology) Transfer of Coverage 39 (Ecology Form ECY 020-87a) for the Construction Stormwater General Permit 40 (CSWGP) as part of the Bid Documents. When the Contracting Agency requires the 41 transfer of coverage of the CSWGP to the Contractor, an informational copy of the 42 Transfer of Coverage and the associated CSWGP will be included in the appendices. 43 As a condition of Section 1-03.3, the Contractor is required to complete sections I, III, 44 and VIII of the Transfer of Coverage and return the form to the Contracting Agency. 45 46 The Contracting Agency is responsible for compliance with the CSWGP until the end of

- 47 day that the Contract is executed. Beginning on the day after the Contract is executed,
- 48 the Contractor shall assume complete legal responsibility for compliance with the
- 49 CSWGP and full implementation of all conditions of the CSWGP as they apply to the 50 Contract Work.
 - Contract Work. City of Lynnwood

- 2 1-02.5 Proposal Forms 3 The first sentence of the first paragraph is revised to read: 4 5 At the request of a Bidder, the Contracting Agency will provide a physical Proposal Form 6 for any project on which the Bidder is eligible to Bid. 7 8 1-02.6 Preparation of Proposal 9 Item number 1 of the second paragraph is revised to read: 10 11 1. A unit price for each item (omitting digits more than two places to the right of the 12 decimal point), 13 14 In the third sentence of the fourth paragraph, "WSDOT Form 422-031" is revised to read 15 "WSDOT Form 422-031U". 16 17 The following new paragraph is inserted before the last paragraph: 18 19 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law 20 Compliance form (WSDOT Form 272-009). Failure to return this certification as part of 21 the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A 22 Contractor Certification of Wage Law Compliance form is included in the Proposal 23 Forms. 24 25 26 Section 1-03, Award and Execution of Contract 27 January 2, 2018 28 1-03.3 Execution of Contract 29 The first paragraph is revised to read: 30 31 Within 20 calendar days after the Award date, the successful Bidder shall return the 32 signed Contracting Agency-prepared Contract, an insurance certification as required by 33 Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the Transfer 34 of Coverage form for the Construction Stormwater General Permit with sections I, III, 35 and VIII completed when provided, and shall be registered as a contractor in the state of 36 Washington. 37 38 **1-03.5 Failure to Execute Contract** 39 The first sentence is revised to read: 40 41 Failure to return the insurance certification and bond with the signed Contract as 42 required in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women's 43 Business Enterprise information if required in the Contract, or failure or refusal to sign 44 the Contract, or failure to register as a contractor in the state of Washington, or failure to 45 return the completed Transfer of Coverage for the Construction Stormwater General 46 Permit to the Contracting Agency when provided shall result in forfeiture of the proposal
- 47 bond or deposit of this Bidder.
- 48

1 Section 1-05, Control of Work

2 August 6, 2018

3	1-05.5 Vacant
4	This section, including title, is revised to read:
5	
6	1-05.5 Tolerances
7	Geometrical tolerances shall be measured from the points, lines, and surfaces defined in
8	Contract documents.
9	
10	A plus (+) tolerance increases the amount or dimension to which it applies, or raises a
11	deviation from level. A minus (-) tolerance decreases the amount or dimension to which
12	it applies, or lowers a deviation from level. Where only one signed tolerance is specified
13	(+ or -), there is no specified tolerance in the opposing direction.
14	
15	Tolerances shall not be cumulative. The most restrictive tolerance shall control.
16	
17	Tolerances shall not extend the Work beyond the Right of Way or other legal boundaries
18	identified in the Contract documents. If application of tolerances causes the extension of
19	the Work beyond the Right of Way or legal boundaries, the tolerance shall be reduced
20	for that specific instance.
21	
22	Tolerances shall not violate other Contract requirements. If application of tolerances
23	causes the Work to violate other Contract requirements, the tolerance shall be reduced
24	for that specific instance. If application of tolerances causes conflicts with other
25	components or aspects of the Work, the tolerance shall be reduced for that specific
26	instance.
27	1050 Equipment
28	1-05.9 Equipment
29	The following new paragraph is inserted before the first paragraph:
30 31	Driar to mobilizing equipment on site, the Contractor shall there us have all lease
32	Prior to mobilizing equipment on site, the Contractor shall thoroughly remove all loose dirt and vegetative debris from drive mechanisms, wheels, tires, tracks, buckets and
33	undercarriage. The Engineer will reject equipment from the site until it returns clean.
34	
35	This section is supplemented with the following:
36	This section is supplemented with the following.
37	Upon completion of the Work, the Contractor shall completely remove all loose dirt and
38	vegetative debris from equipment before removing it from the job site.
39	vegetative debite nem equipment before removing it nem the job one.
40	Section 1-06, Control of Material
41	January 7, 2019
42	1-06.1(3) Aggregate Source Approval (ASA) Database
43	This section is supplemented with the following:
44	······································
45	Regardless of status of the source, whether listed or not listed in the ASA database the
46	source owner may be asked to provide testing results for toxicity in accordance with
47	Section 9-03.21(1).
48	
49	1-06.2(2)D Quality Level Analysis
50	This section is supplemented with the following new subsection:

1 2 3 4 5	•	2)D5 Quality Level Calculation – HMA Compaction cedures for determining the quality level and pay factor for HMA compaction are vs:
5 6 7	1.	Determine the arithmetic mean, X_m , for compaction of the lot:
8		$X_m = \frac{\sum x}{n}$
9		
10		Where:
11		x = individual compaction test values for each sublot in the lot.
12		$\sum x =$ summation of individual compaction test values
13		n = total number test values
14		
15	2.	Compute the sample standard deviation, "S", for each constituent:
16		
17		$S = \left[\frac{n\sum x^2 - (\sum x)^2}{n(n-1)}\right]^{\frac{1}{2}}$
18		
19		Where:
20		$\sum x^2$ = summation of the squares of individual compaction test values
21		$(\sum x)^2$ = summation of the individual compaction test values squared
22		
${23}$	3.	Compute the lower quality index (Q_L) :
24	0.	
25		$Q_L = \frac{X_m - LSL}{S}$
26		
27		Where:
28		LSL = 92.0
29		
30	4.	Determine P _L (the percent within the lower Specification limit which
31		corresponds to a given Q_L) from Table 1. For negative values of Q_L , P_L is equal
32		to 100 minus the table P_L . If the value of Q_L does not correspond exactly to a
33		figure in the table, use the next higher value.
34		
35	5.	Determine the quality level (the total percent within Specification limits):
36	0.	
37		Quality Level = P∟
38		Quality Level – PL
	6	Liging the quality level from step 5, determine the composite new faster (CDE)
39	6.	Using the quality level from step 5, determine the composite pay factor (CPF)
40		from Table 2.
41	_	
42	7.	If the CPF determined from step 6 is 1.00 or greater: use that CPF for the
43		compaction lot; however, the maximum HMA compaction CPF using an LSL =
44		92.0 shall be 1.05.
45		
46	8.	If the CPF from step 6 is not 1.00 or greater: repeat steps 3 through 6 using an
47		LSL = 91.5. The value thus determined shall be the HMA compaction CPF for
	City of Lynnwood	•
		d Curb Ramp Project

1 2 3	that lot; however, the maximum HMA compaction CPF using an LSL = 91.5 shall be 1.00.
4 5	1-06.2(2)D1 Quality Level Analysis The following new sentence is inserted after the first sentence:
6 7 8	The quality level calculations for HMA compaction are completed using the formulas in Section 1-06.2(2)D5.
9 10 11	1-06.2(2)D4 Quality Level Calculation The first paragraph (excluding the numbered list) is revised to read:
12 13 14	The procedures for determining the quality level and pay factors for a material, other than HMA compaction, are as follows:
15 16 17	1-06.6 Recycled Materials The first three sentences of the second paragraph are revised to read:
18 19 20 21 22 23 24 25 26	The Contractor shall submit a Recycled Material Utilization Plan on WSDOT Form 350- 075A within 30 calendar days after the Contract is executed. The plan shall provide the Contractor's anticipated usage of recycled concrete aggregates for meeting the requirements of these Specifications. The quantity of recycled concrete aggregate will be provided in tons and as a percentage of the Plan quantity for eligible material listed in Section 9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled Material.
26 27	The last paragraph is revised to read:
28 29 30 31 32	Within 30 calendar days after Physical Completion, the Contractor shall report the quantity of recycled concrete aggregates that were utilized in the construction of the project for each eligible item listed in Section 9-03.21(1)E. The Contractor's report shall be provided on WSDOT Form 350-075A, Recycled Materials Reporting.
33 34	1-06.6(1)A General
35 36	Item 1(a) in the second paragraph is revised to read:
37 38 39 40	a. The estimated costs for the Work for each material with 25 percent recycled concrete aggregate. The cost estimate shall include for each material a documented price quote from the supplier with the lowest total cost for the Work.
40 41 42	Section 1-07, Legal Relations and Responsibilities to the Public April 1, 2019
43 44	1-07.5 Environmental Regulations This section is supplemented with the following new subsections:
45 46 47 48 49	1-07.5(5) U.S. Army Corps of Engineers When temporary fills are permitted, the Contractor shall remove fills in their entirety and the affected areas returned to pre-construction elevations.
49 50 51	If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the Special Provisions, the Contractor shall retain a copy of the permit or the verification letter (in the
	City of Lynnwood May 2019

1 2 3 4	shall pro	a Nationwide Permit) on the worksite for the life of the Contract. The Contractor ovide copies of the permit or verification letter to all subcontractors involved with norized work prior to their commencement of any work in waters of the U.S.
5 6 7 8 9 10	The Cor dictates Contrac	6) U.S. Fish/Wildlife Services and National Marine Fisheries Service ntracting Agency will provide fish exclusion and handling services if the Work b. However, if the Contractor discovers any fish stranded by the project and a sting Agency biologist is not available, they shall immediately release the fish into g stream or open water.
11	1-07.5(1)	Sonoral
11 12 13	• •	tence is deleted and replaced with the following:
14 15		k shall occur within areas under the jurisdiction of resource agencies unless red in the Contract.
16 17 18	The third par	ragraph is deleted.
18 19	1 07 5(2) 9	State Department of Fish and Wildlife
19 20	• • •	is revised to read:
20 21	This section	is revised to read.
21	In doing	the Work the Contractor shall:
22	in doing	the Work, the Contractor shall:
23 24 25	1.	Not degrade water in a way that would harm fish, wildlife, or their habitat.
26 27	2.	Not place materials below or remove them from the ordinary high water line except as may be specified in the Contract.
28 29 30	3.	Not allow equipment to enter waters of the State except as specified in the Contract.
31 32 33	4.	Revegetate in accordance with the Plans, unless the Special Provisions permit otherwise.
34		
35	5.	Prevent any fish-threatening silt buildup on the bed or bottom of any body of
36		water.
37		
38	6.	Ensure continuous stream flow downstream of the Work area.
39	_	
40	7.	Dispose of any project debris by removal, burning, or placement above high-
41		water flows.
42	0	Immediately notify the Engineer and star ell work several increases if at any
43	8.	Immediately notify the Engineer and stop all work causing impacts, if at any
44 45		time, as a result of project activities, fish are observed in distress or a fish kill occurs.
43 46		
40 47	lf the \//	ork in (1) through (3) above differs little from what the Contract requires, the
47		ting Agency will measure and pay for it at unit Contract prices. But if Contract
40		o not cover those areas, the Contracting Agency will pay pursuant to Section 1-
50		fork in (4) through (8) above shall be incidental to Contract pay items.

1 2 3 4		State Department of Ecology is revised to read:
5 6	In doing	the Work, the Contractor shall:
0 7 8	1.	Comply with Washington State Water Quality Standards.
9 10 11 12 13 14 15 16	2.	Perform Work in such a manner that all materials and substances not specifically identified in the Contract documents to be placed in the water do not enter waters of the State, including wetlands. These include, but are not limited to, petroleum products, hydraulic fluid, fresh concrete, concrete wastewater, process wastewater, slurry materials and waste from shaft drilling, sediments, sediment-laden water, chemicals, paint, solvents, or other toxic or deleterious materials.
17 18	3.	Use equipment that is free of external petroleum-based products.
19 20 21 22	4.	Remove accumulations of soil and debris from drive mechanisms (wheels, tracks, tires) and undercarriage of equipment prior to using equipment below the ordinary high water line.
23 24 25 26	5.	Clean loose dirt and debris from all materials placed below the ordinary high water line. No materials shall be placed below the ordinary high water line without the Engineer's concurrence.
27 28 29 30 31	6.	When a violation of the Construction Stormwater General Permit (CSWGP) occurs, immediately notify the Engineer and fill out WSDOT Form 422-011, Contractor ECAP Report, and submit the form to the Engineer within 48 hours of the violation.
32 33 34 35 36	7.	Once Physical Completion has been given, prepare a Notice of Termination (Ecology Form ECY 020-87) and submit the Notice of Termination electronically to the Engineer in a PDF format a minimum of 7 calendar days prior to submitting the Notice of Termination to Ecology.
37 38 39 40	8.	Transfer the CSWGP coverage to the Contracting Agency when Physical Completion has been given and the Engineer has determined that the project site is not stabilized from erosion.
40 41 42 43	9.	Submit copies of all correspondence with Ecology electronically to the Engineer in a PDF format within four calendar days.
44 45 46	1-07.5(4) A This section	Air Quality is revised to read:
47 48 49		ntractor shall comply with all regional clean air authority and/or State Department ogy rules and regulations.
50 51 52 53	(SEPA)	quality permit process may include additional State Environment Policy Act requirements. Contractors shall contact the appropriate regional air pollution authority well in advance of beginning Work.
55	City of Lynnwoo	d May 2019

1 2 3 4 5	cor Ma	en the Work includes demolition or renovation of any existing facility or structure that ntains Asbestos Containing Material (ACM) and/or Presumed Asbestos-Containing terial (PACM), the Contractor shall comply with the National Emission Standards for zardous Air Pollutants (NESHAP).
6 7 8	•	y requirements included in Federal and State regulations regarding air quality that blies to the "owner or operator" shall be the responsibility of the Contractor.
9	1-07.7(1) General
10	•	sentence of the third paragraph is revised to read:
11 12 13 14 15	pip	en the Contractor moves equipment or materials on or over Structures, culverts or es, the Contractor may operate equipment with only the load-limit restrictions in ction 1-07.7(2).
16	The first	t sentence of the last paragraph is revised to read:
17 18 19	Uni	t prices shall cover all costs for operating over Structures, culverts and pipes.
20 21 22		 General t sentence of the sixth paragraph is revised to read:
23 24 25 26 27	for http	nerally, the Contractor initiates the request by preparing standard form 1444 Request Authorization of Additional Classification and Rate, available at ps://www.dol.gov/whd/recovery/dbsurvey/conformance.htm, and submitting it to the gineer for further action.
28	1-07.9(2) Posting Notices
29 30	•	cond sentence of the first paragraph (up until the colon) is revised to read:
31	The	e Contractor shall ensure the most current edition of the following are posted:
32 33 34	The rev	ision dates are deleted from all items in the numbered list.
35	The follo	owing new items are inserted after item number 1:
36 37 38 39	2.	Mandatory Supplement to EEOC P/E-1 published by US Department of Labor. Post for projects with federal-aid funding.
40 41 42	3.	Pay Transparency Nondiscrimination Provision published by US Department of Labor. Post for projects with federal-aid funding.
42 43 44	Item nu	mber 2 through 12 are renumbered to 4 through 14, respectively.
45	1-07 11	(2) Contractual Requirements
46		ection, "creed" is revised to read "religion".
47		
48 49	Item nu	mbers 1 through 9 are revised to read 2 through 10, respectively.
50 51	After the	e preceding Amendment is applied, the following new item number 1 is inserted:

1 2 3	1.	feai	e Contractor shall maintain a Work site that is free of harassment, humiliation, r, hostility and intimidation at all times. Behaviors that violate this requirement ude but are not limited to:
4 5 6		a.	Persistent conduct that is offensive and unwelcome.
0 7 8		b.	Conduct that is considered to be hazing.
9 10		C.	Jokes about race, gender, or sexuality that are offensive.
11 12 13 14		d.	Unwelcome, unwanted, rude or offensive conduct or advances of a sexual nature which interferes with a person's ability to perform their job or creates an intimidating, hostile, or offensive work environment.
15 16		e.	Language or conduct that is offensive, threatening, intimidating or hostile based on race, gender, or sexual orientation.
17 18 19 20		f.	Repeating rumors about individuals in the Work Site that are considered to be harassing or harmful to the individual's reputation.
21 22 23		• •	Sanctions is supplemented with the following:
24 25 26 27	site	any	ately upon the Engineer's request, the Contractor shall remove from the Work employee engaging in behaviors that promote harassment, humiliation, fear or tion including but not limited to those described in these specifications.
28 29 30			Incorporation of Provisions tence is revised to read:
31 32 33 34	Red	quire	ntractor shall include the provisions of Section 1-07.11(2) Contractual ments (1) through (5) and the Section 1-07.11(5) Sanctions in every subcontract g procurement of materials and leases of equipment.
35 36		• •	Spill Prevention, Control, and Countermeasures Plan tence of the first paragraph is revised to read:
37 38 39 40 41	http	o://wv	C Plan template and guidance information is available at vw.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill- report.
42 43 44		• •	Wetland and Sensitive Area Protection tence of the first paragraph is revised to read:
45 46 47		•	wetland and other sensitive areas, where shown in the Plans or designated by ineer, shall be saved and protected through the life of the Contract.
48 49			blic Liability and Property Damage Insurance 1 is supplemented with the following new sentence:
50 51 52		•	icy shall be kept in force from the execution date of the Contract until the I Completion Date.

Section 1-08, Prosecution and ProgressJanuary 7, 2019

3 **1-08.1 Subcontracting**

4 The first sentence of the seventh paragraph is revised to read: 5

All Work that is not performed by the Contractor will be considered as subcontracting except: (1) purchase of sand, gravel, crushed stone, crushed slag, batched concrete aggregates, ready-mix concrete, off-site fabricated structural steel, other off-site fabricated items, and any other materials supplied by established and recognized commercial plants; or (2) delivery of these materials to the Work site in vehicles owned or operated by such plants or by recognized independent or commercial hauling companies hired by those commercial plants.

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- 14 The following new paragraph is inserted after the seventh paragraph: 15
- The Contractor shall not use businesses (material suppliers, vendors, subcontractors,
 etc.) with federal purchasing exclusions. Businesses with exclusions are identified using
 the System for Award Management web page at www.SAM.gov.

20 **1-08.5 Time for Completion**

21 Item number 2 of the sixth paragraph is supplemented with the following:22

f. A copy of the Notice of Termination sent to the Washington State Department of Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the Notice of Termination by Ecology; and no rejection of the Notice of Termination by Ecology. This requirement will not apply if the Construction Stormwater General Permit is transferred back to the Contracting Agency in accordance with Section 8-01.3(16).

30 **1-08.7 Maintenance During Suspension**

31 The fifth paragraph is revised to read: 32

The Contractor shall protect and maintain all other Work in areas not used by traffic. All costs associated with protecting and maintaining such Work shall be the responsibility of the Contractor.

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37 Section 1-09, Measurement and Payment

38 August 6, 2018

1-09.2(1) General Requirements for Weighing Equipment

- 40 The last paragraph is supplemented with the following:
- 41
- When requested by the Engineer, the Contractor's representative shall collect the tickets
 throughout the day and provide them to the Engineer's designated receiver, not later
 than the end of shift, for reconciliation. Tickets for loads not verified as delivered will
 receive no pay.

47 **1-09.2(2)** Specific Requirements for Batching Scales

- 48 The last sentence of the first paragraph is revised to read:
- 49

Batching scales used for concrete or hot mix asphalt shall not be used for batching
 other materials.
 3

1-09.10 Payment for Surplus Processed Materials

- The following sentence is inserted after the first sentence of the second paragraph:
 - For Hot Mix Asphalt, the Plan quantity and quantity used will be adjusted for the quantity of Asphalt and quantity of RAP or other materials incorporated into the mix.

10 Section 2-01, Clearing, Grubbing, and Roadside Cleanup

11 April 1, 2019

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12 **2-01.2(3)** Disposal Method No. 3 – Chipping

13 Item number 2 of the first paragraph is revised to read:

2. Chips shall be disposed outside of sensitive areas, and in areas that aren't in conflict with permanent Work.

18 Section 2-02, Removal of Structures and Obstructions

19 April 2, 2018

20 **2-02.3(3)** Removal of Pavement, Sidewalks, Curbs, and Gutters

- 21 In item number 3 of the first paragraph, the second sentence is revised to read: 22
 - For concrete pavement removal, a second vertical full depth relief saw cut offset 12 to 18 inches from and parallel to the initial saw cut is also required, unless the Engineer allows otherwise.
- 27 Section 2-03, Roadway Excavation and Embankment
- 28 April 1, 2019

29 **2-03.3(14)F** Displacement of Unsuitable Foundation Materials

- 30 This section, including title, is revised to read:
- 31 32

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- 2-03.3(14)F Vacant
- 34 Section 2-09, Structure Excavation
- 35 April 1, 2019

36 **2-09.2 Materials**

In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland
 Cement Concrete" are revised to read:

- 39
- 40 Cement 9-01
- 41 Fine Aggregate for Concrete 9-03.1(2) 42

43 **2-09.3(3)B** Excavation Using Open Pits – Extra Excavation

44 The last two paragraphs are deleted and replaced with the following:

- 45
- 46 The excavation height (Ht) shall be calculated within a vertical plane as the difference
- 47 between the lowest elevation in the excavation and the highest elevation of the ground
- 48 surface immediately adjacent to the excavation. Pavement thickness and other surface

treatments existing at the time of the excavation shall be included in the height
 calculation.

Submittals and Design Requirements

Excavations 4-feet and less in height do not require design and submittals. The Contractor shall provide a safe work environment and shall execute the work in a manner that does not damage adjacent pavements, utilities, or structures. If the Engineer determines the Contractor's work may potentially affect adjacent traffic. pavements, utilities, or structures, the Engineer may request a Type 1 Working Drawing from the Contractor. The Contractor shall explain in the Type 1 Working Drawing how the Engineer's concerns will be addressed, why infrastructure will not be damaged by the work, and how worker safety will be preserved.

For excavations that have soil types and slope geometries defined in WAC 296-155 part N and are between 4-feet and 20-feet in height, the Contractor shall submit Type 2 Working Drawings. Required submittal elements include, at a minimum, the following:

- A plan view showing the limits of the excavation and its relationship to traffic, structures, utilities and other pertinent project elements. If the stability of the excavation requires no-load zones or equipment setback distances, those shall be shown on the plan view.
 - 2. A typical or controlling cross section showing the proposed excavation, original ground line, and locations of traffic, existing structures, utilities, site constraints, surcharge loads, or other conditions that could affect the stability of the slope. If the stability of the excavation requires no-load zones or equipment setback distances, those shall be shown in cross section.
 - 3. A summary clearly describing subsurface conditions, soil type for WAC 296-155 part N, and groundwater conditions, sequencing considerations, and governing assumptions.

Where WAC 296-155 part N requires an engineer's design, the Contractor shall submit Type 2E Working Drawings. Required submittal elements include, at a minimum, the three items above and the following additional items:

- 4. Supporting calculations for the design of the excavation, the soil and material properties selected for design, and the justification for the selection for those properties, in accordance with the WSDOT *Geotechnical Design Manual* M 46-03.
- 5. Safety factors, or load and resistance factors used, and justification for their selection, in accordance with the WSDOT *Geotechnical Design Manual* M 46-03, and referenced AASHTO design manuals.
- 6. A monitoring plan to evaluate the excavation performance throughout its design life.
- Any supplemental subsurface explorations made by the Contractor to meet the
 requirements for geotechnical design of excavation slopes, in accordance with
 the WSDOT *Geotechnical Design Manual* M 46-03.

1 **2-09.3(3)D** Shoring and Cofferdams

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

Structural shoring and cofferdams shall be designed for conditions stated in this Section using methods shown in Division I Section 5 of the AASHTO *Standard Specifications for Highway Bridges* Seventeenth Edition – 2002 for allowable stress design, or the AASHTO *LRFD Bridge Design Specifications* for load and resistance factor design.

9 Section 3-01, Production from Quarry and Pit Sites

10 April 2, 2018

11 **3-01.1 Description**

- 12 The first paragraph is revised to read:
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14 This Work shall consist of manufacturing and producing crushed and screened 15 aggregates including pit run aggregates of the kind, quality, and grading specified for 16 use in the construction of concrete, hot mix asphalt, crushed surfacing, maintenance 17 rock, ballast, gravel base, gravel backfill, gravel borrow, riprap, and bituminous surface 18 treatments of all descriptions.

19

20 Section 4-04, Ballast and Crushed Surfacing

21 April 2, 2018

22 **4-04.3(5)** Shaping and Compaction

- 23 This section is supplemented with the following new paragraph:
- 24

When using 100% Recycled Concrete Aggregate, the Contractor may submit a written request to use a test point evaluation for compaction acceptance testing in lieu of compacting to 95% of the standard density as determined by the requirements of Section 2-03.3(14)D. The test point evaluation shall be performed in accordance with SOP 738.

30

31 Section 5-01, Cement Concrete Pavement Rehabilitation

32 January 7, 2019

33 **5-01.2 Materials**

34 The reference for Concrete Patching Material is revised to read:

35 36

Concrete Patching Material, Grout, and Mortar 9-20.1

3738 5-01.3(1)A1 Concrete Patching Materials

- 39 In this section, each reference to "9-20" is revised to read "9-20.1".
- 40

41 **5-01.3(4)** Replace Cement Concrete Panel

- This section's content is deleted and replaced with the following new subsections:
 - 5-01.3(4)A General
- 45 Curing, cold weather work, concrete pavement construction in adjacent lines, and
- 46 protection of pavement shall meet the requirements of Section 5-05.3(13) through
- 47 Section 5-05.3(15). The Contractor, at no cost to the Contracting Agency, shall repair
- 48 any damage to existing pavement caused by the Contractor's operations.
- 49

1 5-01.3(4)B Sawing and Dimensional Requirements

2 Concrete slabs to be replaced as shown in the Plans or staked by the Engineer shall be 3 at least 6.0 feet long and full width of an existing pavement panel. The portion of the 4 panel to remain in place shall have a minimum dimension of 6 feet in length and full 5 panel width; otherwise the entire panel shall be removed and replaced. There shall be 6 no new joints closer than 3.0 feet to an existing transverse joint or crack. A vertical full 7 depth saw cut is required along all longitudinal joints and at transverse locations and, 8 unless the Engineer allows otherwise, an additional vertical full depth relief saw cut 9 located 12 to 18 inches from and parallel to the initial longitudinal and transverse saw 10 cut locations is also required. Removal of existing cement concrete pavement shall not cause damage to adjacent slabs that are to remain in place. In areas that will be ground, 11 12 slab replacements shall be performed prior to pavement grinding. 13

14 Side forms shall meet the requirements of Section 5-05.3(7)B whenever a sawed full 15 depth vertical face cannot be maintained.

17 **5-01.3(4)**C Dowel Bars and Tie Bars

For the half of a dowel bar or tie bar placed in fresh concrete, comply with the
 requirements of Section 5-05.

For the half of a dowel bar or tie bar placed in hardened concrete, comply with the
Standard Plans and the following.

After drilling, secure dowel bars and tie bars into the existing pavement with either an epoxy bonding agent Type I or IV as specified in Section 9-26.1, or a grout Type 2 for non-shrink applications as specified in Section 9-20.3.

Dowel bars shall be placed at the mid depth of the concrete slab, centered over the transverse joint, and parallel to the centerline and to the roadway surface, within the tolerances in the table below. Dowel bars may be adjusted to avoid contact with existing dowel bars in the transverse joint at bridge approach slabs or existing panels provided the adjusted dowel bars meet the tolerances below.

Tie bars shall be placed at the mid depth of the concrete slab, centered over the joint, perpendicular to centerline, and parallel to the roadway surface, within the tolerances in the table below. The horizontal position of tie bars may be adjusted to avoid contact with existing tie bars in the longitudinal joint where panel replacement takes place, provided the adjusted tie bars meet the tolerances below.

Placement Tolerances				
	Dowel Bars	Tie Bars		
Vertical: Center of Bar to Center of Slab Depth	\pm 1.00 inch max	\pm 1.00 inch max		
Dowel Bar Centered Over the Transverse Joint	\pm 1.00 inch max	N/A		
Tie Bar Centered Over the Longitudinal Joint	N/A	\pm 1.00 inch max		
Parallel to Centerline Over the Length of the Dowel Bar	\pm 0.50 inch max	N/A		
Perpendicular to Longitudinal Joint Over the Length of the Tie Bar	N/A	\pm 1.00 inch max		
Parallel to Roadway Surface Over the Length of the Bar	\pm 0.50 inch max	\pm 1.00 inch max		

- 1 Dowel bars and tie bars shall be placed according to the Standard Plan when multiple 2 panels are placed. Panels shall be cast separately from the bridge approach slab. 3 4 Dowel bars to be drilled into existing concrete or at a new transverse contraction joint 5 shall have a parting compound, such as curing compound, grease, or other Engineer 6 accepted equal, applied to them prior to placement. 7 8 Clean the drilled holes in accordance with the epoxy or grout manufacturer's 9 instructions. Holes shall be clean and dry at the time of placing the epoxy, or grout and 10 tie bars. Completely fill the void between the tie bar and the outer limits of the drilled hole with epoxy or grout. Use retention rings to prevent leakage of the epoxy or grout 11 12 and support the tie bar to prevent movement until the epoxy or grout has cured the 13 minimum time recommended by the manufacturer. 14 15 5-01.3(4)D Foundation Preparation 16 The Contractor shall smooth the surfacing below the removed panel and compact it to 17 the satisfaction of the Engineer. Crushed surfacing base course, or hot mix asphalt may 18 be needed to bring the surfacing to grade prior to placing the new concrete. 19 20 If the material under the removed panel is uncompactable and the Engineer requires it, 21 the Contractor shall excavate the Subgrade 2 feet, place a soil stabilization construction 22 geotextile meeting the requirements of Section 9-33, and backfill with crushed surfacing 23 base course. This Work may include: 24 25 1. Furnishing and hauling crushed surfacing base course to the project site. 26 27 2. Excavating uncompactable material. 28 29 3. Furnishing and placing a soil stabilization construction geotextile. 30 31 4. Backfilling and compacting crushed surfacing base course. 32 33 5. Removing, hauling and restocking any unused crushed surfacing base course. 34 35 5-01.3(4)E Concrete Finishing 36 Grade control shall be the responsibility of the Contractor. 37 38 All panels shall be struck off level with the adjacent panels and floated to a smooth 39 surface. 40 41 Final finish texturing shall meet the requirements of Section 5-05.3(11). 42 43 In areas where the Plans do not require grinding, the surface smoothness will be 44 measured with a 10-foot straightedge by the Engineer in accordance with Section 5-45 05.3(12). If the replacement panel is located in an area that will be ground as part of 46 concrete pavement grinding in accordance with Section 5-01.3(9), the surface 47 smoothness shall be measured, by the Contractor, in conjunction with the smoothness 48 measurement done in accordance with Section 5-01.3(10). 49 50 5-01.3(4)F Joints 51 All transverse and longitudinal joints shall be sawed and sealed in accordance with 52 Section 5-05.3(8). The Contractor may use a hand pushed single blade saw for sawing
- 53 joints.

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2 3	5-01.3(4)G Cracked Panels
	Replacement panels that crack shall be repaired as specified in Section 5-05.3(22) at no
4	cost to the Contracting Agency. When repairing replacement panels that have cracked,
5	epoxy-coated dowel bars meeting the requirements of Section 9-07.5(1) may be
6	substituted for the corrosion resistant dowel bars specified.
7	
8	5-01.3(4)H Opening to Traffic
9	Opening to traffic shall meet the requirements of Section 5-05.3(17).
10	
11	5-01.3(5) Partial Depth Spall Repair
12	The second sentence of the third paragraph is revised to read:
13	
14	All sandblasting residue shall be removed.
15	
16	5-01.3(7) Sealing Existing Concrete Random Cracks
17	The second sentence of the second paragraph is revised to read:
18	The second sentence of the second paragraph is revised to read.
19	Immediately prior to sealing, the cracks shall be clean.
20	initiately provide scaling, the cracks shall be clean.
20	5-01.3(8) Sealing Existing Longitudinal and Transverse Joint
22	The first sentence of the fifth paragraph is revised to read:
$\frac{22}{23}$	The first sentence of the firth paragraph is revised to read.
23	Immediately prior to sealing, the cracks shall be clean.
25	inimediately phone of sealing, the chacks shall be clean.
26	5-01.3(10) Pavement Smoothness
20 27	This section is revised to read:
$\frac{27}{28}$	
29	Pavement surface smoothness for cement concrete pavement grinding on this project
30	will include International Roughness Index (IRI) testing. Ride quality will be evaluated
31	using the Mean Roughness Index (MRI) calculated by averaging the IRI data for the left
32	and right wheel path within the section.
33	
34	Smoothness Testing Equipment and Operator Certification
35	Use an inertial profiler and operator that meet the requirements of Section 5-05.3(3)E.
36	
37	Surface Smoothness
38	Operate the inertial profiler in accordance with AASHTO R 57. Collect two longitudinal
39	traces, one in each wheel path. Collect the control profile at locations designated in
40	Table 2 prior to any pavement rehabilitation Work on the areas to be tested. Collect an
40 41	acceptance profile at locations designated in Table 2 after completion of all cement
42	concrete pavement grinding on the project. Profiles shall be collected in a continuous
43	pass including areas excluded from pay adjustments. Provide notice to the Engineer a
43 44	minimum of seven calendar days prior to testing.
44	minimum or seven calendar days prior to testing.

	le 2 iring MRI Testing
Travel lanes where cement concrete grinding is shown in the plans	Control profile
Additional locations designated by the Engineer	Control profile

Travel lanes with completed cement concrete pavement grinding	Acceptance profile
Bridges, approach panels and 0.02 miles before and after bridges and approach panels and other excluded areas within lanes requiring testing	Control and acceptance profile
Ramps, Shoulders and Tapers	Do not test

Within 30 calendar days after the Contractor's testing, the Engineer may perform verification testing. If the verification testing shows a difference in MRI greater than the 10 percent, the following resolution process will be followed:

- 1. The profiles, equipment and procedures will be evaluated to determine the cause of the difference.
- 2. If the cause of the discrepancy cannot be resolved the pavement shall be retested with both profilers at a mutually agreed time. The two profilers will test the section within 30 minutes of each other. If the retest shows a difference in MRI equal or greater than the percentages shown in Table 2 of AASHTO R 54 the Engineer's test results will be used for pavement smoothness acceptance.

The Contractor shall evaluate profiles for acceptance or corrective action using the current version of ProVAL and provide the results including the profile data in unfiltered electronic Engineering Research Division (ERD) file format to the Engineer within 3 calendar days of completing each days profile testing. If the profile data files are created using an export option in the manufacturer's software where filter settings can be specified, use the filter settings that were used to create data files for certification.

Table 3 Areas Excluded from MRI Acceptance Requirements Location Exclude Beginning and end of grinding Pavement within 0.02 mile The bridge and approach slab and Bridges and approach slabs 0.02 mile from the ends of the bridge or approach slab Defects in the existing roadway identified by the Contractor that 0.01-mile section containing the adversely affect the MRI such as defect and the 0.01-mile section dips, depressions and wheel path following the section with the defect. longitudinal joints.1 ¹The presence of defects is subject to verification by the Engineer

Analyze the entire profile. Exclude areas listed in Table 3.

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Report the MRI results in inches per mile for each 0.01-mile section and each 0.10-mile
section. Do not truncate 0.10-mile sections for areas excluded from MRI acceptance
requirements. MRI requirements will not apply to 0.10-mile sections with more than
three 0.01 mile-sections excluded. MRI requirements for the individual 0.01-mile
sections shall still apply. The Engineer will verify the analysis.

- 30 31
- The MRI for each 0.10 mile of ground lane will comply with the following:

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Control Profile MRI per 0.10 Mile	Maximum MRI of Acceptance Profile per 0.10 Mile
≤130 inches/mile	78 inches/mile
>130 inches/mile	0.6 x Control Profile MRI

The MRI for each 0.01 mile of the completed cement concrete grinding shall not exceed 160 inches/mile.

All Work is subject to parallel and transverse 10-foot straightedge requirements, corrective work and disincentive adjustments.

9 Surface smoothness of travel lanes including areas subject to MRI testing shall not vary
10 more than ½ inch from the lower edge of a 10-foot straightedge placed on the surface
11 parallel to the centerline.

13The smoothness perpendicular to the centerline will be measured with a 10-foot14straightedge within the lanes. There shall be not vertical elevation difference of more15than a ¼ inch between lanes.

Pavement that does not meet these requirements will be subject to corrective Work. All
 corrective Work shall be completed at no additional expense, including traffic control, to
 the Contracting Agency. Pavement shall be repaired by one or more of the following
 methods:

- 1. Diamond grinding.
- 2. By other method accepted by the Engineer.

Repair areas shall be re-profiled to ensure they no longer require corrective Work. With
 concurrence of the Engineer, a 10-foot straight edge may be used in place of the inertial
 profiler.

If correction of the roadway as listed above either will not or does not produce
 satisfactory results as to smoothness or serviceability the Engineer may accept the
 completed pavement and a credit will be calculated in accordance with Section 5-01.5.
 Under these circumstances, the decision whether to accept the completed pavement or
 to require corrective work as described above shall be vested entirely in the Engineer.

36 **5-01.5 Payment**

37 This section is supplemented with the following:

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- 39 "Grinding Smoothness Compliance Adjustment", by calculation.
- 40 Grinding Smoothness Compliance Adjustments will be based on the requirements in 41 Section 5-01.3(10) and the following calculations:
- 43A smoothness compliance adjustment will be calculated in the sum of minus \$10044for each and every section of single traffic lane 0.01 mile in length and \$1,000 for45each and every section of single traffic lane 0.10 mile in length that does not meet46the requirements in Section 5-01.3(10) after corrective Work.

Section 5-02, Bituminous Surface Treatment 1

2 April 1, 2019

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3 5-02.3(5) Application of Aggregates

- 4 The first sentence of the eleventh paragraph is revised to read:
 - The Contractor shall use a pickup broom in all curbed areas, on all bridges, within city limits, within sensitive areas, and where shown in the Plans both before the application of emulsified asphalt and during the final brooming operation.

10 Section 5-04, Hot Mix Asphalt

April 1, 2019 11

12 5-04.1 Description

- 13 The last sentence of the first paragraph is revised to read:
- 15 The manufacture of HMA may include additives or processes that reduce the optimum mixing temperature (Warm Mix Asphalt) or serve as a compaction aid in accordance with these Specifications.

19 5-04.2 Materials

20 The reference to "Warm Mix Asphalt Additive" is revised to read "HMA Additive". 21

22 5-04.2(1) How to Get an HMA Mix Design on the QPL

23 The last bullet in the first paragraph is revised to read: 24

- ٠ Do not include HMA additives that reduce the optimum mixing temperature or serve as a compaction aid when developing a mix design or submitting a mix design for QPL evaluation. The use of HMA additives is not part of the process for obtaining approval for listing a mix design on the QPL. Refer to Section 5-04.2(2)B.
- 30 In the table, "WSDOT Standard Practice QC-8" is revised to read "WSDOT Standard
- 31 Practice QC-8 located in the WSDOT Materials Manual M 46-01".
- 32

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33 5-04.2(1)C Mix Design Resubmittal for QPL Approval

- 34 Item number 3 of the first paragraph is revised to read: 35
 - 3. Changes in modifiers used in the asphalt binder.

38 5-04.2(2)B Using Warm Mix Asphalt Processes

- 39 This section, including title, is revised to read:
- 40 41

5-04.2(2)B Using HMA Additives

- 42 The Contractor may, at the Contractor's discretion, elect to use additives that reduce the 43 optimum mixing temperature or serve as a compaction aid for producing HMA. Additives 44 include organic additives, chemical additives and foaming processes. The use of 45 Additives is subject to the following:
- 46 47 Do not use additives that reduce the mixing temperature in accordance with ٠ 48 Section 5-04.3(6) in the production of High RAP/Any RAS mixtures. 49

1 2 3	 Before using additives, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed additive and process. 						
4 5	5-04.3(3)A Mixing Plant Item number 5 of the first paragraph is revised to read:						
6 7 8	5. Provide HMA sampling equipment that complies with FOP for AASHTO T 168:						
9 10	Use a mechanical sampling device accepted by the Engineer, or						
10 11 12 13	 Platforms or devices to enable sampling from the truck transport without entering the truck transport for sampling HMA. 						
14	5-04.3(4) Preparation of Existing Paved Surfaces						
15 16	The first sentence of the fourth paragraph is revised to read:						
17 18	Unless otherwise allowed by the Engineer, use cationic emulsified asphalt CSS-1, CSS- 1h, or Performance Graded (PG) asphalt for tack coat.						
19 20	5-04.3(6) Mixing						
21 22	The first paragraph is revised to read:						
23 24 25 26	The asphalt supplier shall introduce recycling agent and anti-stripping additive, in the amount designated on the QPL for the mix design, into the asphalt binder prior to shipment to the asphalt mixing plant.						
27 28	The seventh paragraph is revised to read:						
29 30 31 32 33 34 35	Upon discharge from the mixer, ensure that the temperature of the HMA does not exceed the optimum mixing temperature shown on the accepted Mix Design Report by more than 25°F, or as allowed by the Engineer. When an additive is included in the manufacture of HMA, do not heat the additive (at any stage of production including in binder storage tanks) to a temperature higher than the maximum recommended by the manufacturer of the additive.						
36 37	5-04.3(7) Spreading and Finishing The last row of the table is revised to read:						
38	³ / ₈ inch 0.25 feet 0.30 feet						
39							
40 41 42	5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA The following new paragraph is inserted after the first paragraph:						
43 44 45 46 47 48 49 50 51	The Contracting Agency's combined aggregate bulk specific gravity (Gsb) blend as shown on the HMA Mix Design will be used for VMA calculations until the Contractor submits a written request for a Gsb test. The new Gsb will be used in the VMA calculations for HMA from the date the Engineer receives the written request for a Gsb retest. The Contractor may request aggregate specific gravity (Gsb) testing be performed by the Contracting Agency twice per project. The Gsb blend of the combined stockpiles will be used to calculate voids in mineral aggregate (VMA) of any HMA produced after the new Gsb is determined.						

1 5-04.3(9)A1 Test Section – When Required, When to Stop

2 The following new row is inserted after the second row in Table 9: 3

_			
	VMA	Minimum PF _i of 0.95	None ⁴
		based on the criteria in	
		Section 5-04.3(9)B4 ²	

4

5 5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section

- 6 In Table 9a, the test property "Gradation, Asphalt Binder, and V_a" is revised to read 7
- "Gradation, Asphalt Binder, VMA, and Va"
- 8 9
 - In Table 9a, the first column of the third row is revised to read:

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Aggregates: Sand Equivalent Uncompacted Void Content Fracture

12 5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing

13 In Table 11, "V_a" is revised to read "VMA and V_a"

14

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15 5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)

- 16 The following new row is inserted above the last row in Table 12:
- 17

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Voids in Mineral Aggregate	2
(VMA)	

19 5-04.3(9)B7 Mixture Statistical Evaluation – Retests

20 The second to last sentence is revised to read: 21

The sample will be tested for a complete gradation analysis, asphalt binder content, VMA and V_{a} , and the results of the retest will be used for the acceptance of the HMA mixture in place of the original mixture sublot sample test results.

26 5-04.3(10)A HMA Compaction – General Compaction Requirements

27 The last paragraph is revised to read:

28 29 On bridge decks and on roadway approaches within five feet of a bridge/back of 30 pavement seat, rollers shall not be operated in a vibratory mode, defined as a mode in 31 which the drum vibrates vertically. However, unless otherwise noted on the plans, rollers 32 may be operated in an oscillatory mode, defined as a mode in which the drum vibrates in 33 the horizontal direction only.

34

35 5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots

36 The bulleted item in the fourth paragraph is revised to read: 37

38 For a compaction lot in progress with a compaction CPF less than 0.75 using an 39 LSL = 91.5, a new compaction lot will begin at the Contractor's request after the 40 Engineer is satisfied that material conforming to the Specifications can be produced. See also Section 5-04.3(11)F.

5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing 1 2

In the table, "WSDOT FOP for AASHTO T 355" is revised to read "FOP for AASHTO T 355".

5-04.3(10)C3 HMA Statistical Compaction – Price Adjustments

5 In the first paragraph, "WSDOT FOP for AASHTO T 355" is revised to read "FOP for 6 AASHTO T 355". 7

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

For each HMA compaction lot (that is accepted by Statistical Evaluation) which does not meet the criteria in the preceding paragraph, the compaction lot shall be evaluated in accordance with Section 1-06.2(2)D5 to determine the appropriate Composite Pay Factor (CPF).

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15 The last two paragraphs are revised to read:

- 16 17 Determine the Compaction Price Adjustment (CPA) from the table below, selecting the 18 equation for CPA that corresponds to the value of CPF determined above.
- 19

Calculating HMA Compaction Price Adjustment (CPA)	
Value of CPF	Equation for Calculating CPA
When CPF > 1.00	CPA = [1.00 x (CPF – 1.00)] x Q x UP
When CPF = 1.00	CPA = \$0
When CPF < 1.0	CPA = [0.60 x (CPF – 1.00)] x Q x UP

- 20
- 21 Where
- 22 CPA = Compaction Price Adjustment for the compaction lot (\$) 23
 - CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)
- 24 Q = Quantity in the compaction lot (tons)
- 25 UP = Unit price of the HMA in the compaction lot (\$/ton)
- 26 27

5-04.3(10)C4 HMA Statistical Compaction – Requests for Retesting

- 28 The first sentence is revised to read:
- 29 30 For a compaction sublot that has been tested with a nuclear density gauge that did not 31 meet the minimum of 91.5 percent of the theoretical maximum density in a compaction 32 lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the 33 Contractor may request that a core, taken at the same location as the nuclear density 34 test, be used for determination of the relative density of the compaction sublot.
- 35

36 5-04.3(13) Surface Smoothness

- 37 The second to last paragraph is revised to read:
- 38

39 When concrete pavement is to be placed on HMA, the surface tolerance of the HMA 40 shall be such that no surface elevation lies above the Plan grade minus the specified 41 Plan depth of concrete pavement. Prior to placing the concrete pavement, bring any 42 such irregularities to the required tolerance by grinding or other means allowed by the

43 Engineer.

5-04.5 Payment

The paragraph following the Bid item "Crack Sealing-LF", per linear foot is revised to read:

The unit Contract price per linear foot for "Crack Sealing-LF" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(4)A.

7 Section 5-05, Cement Concrete Pavement

8 April 1, 2019

9 **5-05.1 Description**

10 In the first paragraph, "portland cement concrete" is revised to read "cement concrete".

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12 **5-05.2 Materials**

13 In the first paragraph, the reference to "Portland Cement" is revised to read:

Cement 9-01

17 In the first paragraph, the section reference for Concrete Patching Material is revised to read"9-20.1".

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The second paragraph is revised to read:

Cementitious materials are considered to be the following: portland cement, blended hydraulic cement, fly ash, ground granulated blast furnace slag and microsilica fume.

25 **5-05.3(1) Concrete Mix Design for Paving**

26 The table title in item number 4 is revised to read **Concrete Batch Weights**.

In item 4a, "Portland Cement" is revised to read "Cement".

30 **5-05.3(3)E Smoothness Testing Equipment**

31 This section is revised to read:

- Inertial profilers shall meet all requirements of AASHTO M 328 and be certified in
 accordance with AASHTO R 56 within the preceding 12 months.
- The inertial profiler operator shall be certified as required by AASHTO R 56 within three years preceding profile measurement.
- 38

Equipment or operator certification by other states or a profiler certification facility will be accepted provided the certification meets the requirements of AASHTO R 56.

41 Documentation verifying certification by another state shall be submitted to the Engineer

- 42 a minimum of 14 calendar days prior to profile measurement. Equipment certification
- 43 documentation shall include the information required by part 8.5 and 8.6 of AASHTO R
- 44 56. Operator documentation shall include a statement from the certifying state that
- 45 indicates the operator is certified to operate the inertial profiler to be used on the project.
- 46 The decision whether another state's certification meets the requirements of AASHTO R
- 47 56 shall be vested entirely in the Engineer.48

49 **5-05.3(4)** Measuring and Batching Materials

- 50 Item number 2 is revised to read:
- 51

1 2. Batching Materials – On all projects requiring more than 2,500 cubic yards of 2 concrete for paving, the batching plant shall be equipped to proportion aggregates 3 and cement by weight by means of automatic and interlocked proportioning devices 4 of accepted type. 5 6 5-05.3(4)A Acceptance of Portland Cement Concrete Pavement 7 This section's title is revised to read: 8 9 Acceptance of Portland Cement or Blended Hydraulic Cement Concrete Pavement 10 11 The first sentence is revised to read: 12 13 Acceptance of portland cement or blended hydraulic cement concrete pavement shall be 14 as provided under statistical or nonstatistical acceptance. 15 16 5-05.3(7) Placing, Spreading, and Compacting Concrete 17 This section's content is deleted. 18 19 5-05.3(10) Tie Bars and Corrosion Resistant Dowel Bars 20 The first sentence of the last paragraph is revised to read: 21 22 The tie bar holes shall be clean before grouting. 23 24 5-05.3(12) Surface Smoothness 25 This section is revised to read: 26 27 Pavement surface smoothness for this project will include International Roughness 28 Index (IRI) testing. The Contractor shall perform IRI testing on each through lane, 29 climbing lane, and passing lane, greater than 0.25 mile in length and these lanes will be 30 subject to incentive/disincentive adjustments. Ride quality will be evaluated using the 31 Mean Roughness Index (MRI) calculated by averaging the IRI data for the left and right 32 wheel path within the section. 33 34 Ramps, shoulders and tapers will not be included in MRI testing for pavement 35 smoothness and will not be subject to incentive adjustments. All Work is subject to 36 parallel and transverse 10-foot straightedge requirements, corrective work and 37 disincentive adjustments. 38 39 Operate the inertial profiler in accordance with AASHTO R 57. Collect two longitudinal 40 traces, one in each wheel path. Collect profile data after completion of all concrete 41 paving on the project in a continuous pass including areas excluded from pay 42 adjustments. Provide notice to the Engineer a minimum of seven calendar days prior to 43 testing. 44 45 Within 30 calendar days after the Contractor's testing, the Engineer may perform 46 verification testing. If the verification testing shows a difference in MRI greater than the 47 percentages shown in Table 2 of AASHTO R 54 the following resolution process will be 48 followed: 49 50 1. The profiles, equipment and procedures will be evaluated to determine the 51 cause of the difference. 52

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2. If the cause of the discrepancy cannot be resolved the pavement shall be retested with both profilers at a mutually agreed time. The two profilers will test the section within 30 minutes of each other. If the retest shows a difference in MRI equal or greater than the percentages shown in Table 2 of AASHTO R 54 the Engineer's test results will be used to establish pay adjustments.

Surface smoothness of travel lanes not subject to MRI testing will be measured with a 10-foot straightedge no later than 5:00 p.m. of the day following the placing of the concrete. The completed surface of the wearing course shall not vary more than 1/8 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline.

13 Smoothness perpendicular to the centerline will be measured with a 10-foot straightedge 14 across all lanes with the same cross slope, including shoulders when composed of 15 cement concrete pavement. The overlapping 10-foot straightedge measurement shall be 16 discontinued at a point 6 inches from the most extreme outside edge of the finished 17 cement concrete pavement. The completed surface of the wearing course shall not vary 18 more than ¼ inch from the lower edge of a 10-foot straightedge placed on the surface 19 perpendicular to the centerline. Any deviations in excess of the above tolerances shall 20 be corrected. 21

22 The Contractor shall evaluate profiles for acceptance, incentive payments, disincentive 23 payments, or corrective action using the current version of ProVAL and provide the 24 results including the profile data in unfiltered electronic Engineering Research Division 25 (ERD) file format to the Engineer within 2 calendar days of completing testing each 26 section of pavement. If the profile data files are created using an export option in the 27 manufacturer's software where filter settings can be specified, use the filter settings that 28 were used to create data files for certification. Analyze the entire profile. Exclude any 29 areas specifically identified in the Contract. Exclude from the analysis the first 100 feet 30 after the start of the paving operations and last 100 feet prior to the end of the paving 31 operation, the first 100 feet on either side of bridge Structures and bridge approach slab. 32 Report the MRI results in inches per mile for each 52.8 foot section and horizontal 33 distance measurements in project stationing to the nearest foot. Include pay adjustments 34 in the results. The Engineer will verify the analysis. 35

36 Corrective work for pavement smoothness may be taken by the Contractor prior to MRI 37 testing. After completion of the MRI testing the Contractor shall measure the 38 smoothness of each 52.8-foot section with an MRI greater than 125 inches per mile with 39 a 10-foot straightedge within 14 calendar days or as allowed by the Engineer. The 40 Contractor shall identify all locations that require corrective work and provide the straight 41 edge measurements at each location that exceeds the allowable limit to the Engineer. If 42 all measurements in a 52.8-foot section comply with smoothness requirements, the 43 Contractor shall provide the maximum measurement to the Engineer and a statement 44 that corrective work is not required. Unless allowed by the Engineer, corrective work 45 shall be taken by the Contractor for pavement identified by the Contractor or Engineer 46 that does not meet the following requirements:

and grade, and free from defects of all kinds.

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

The completed surface shall be of uniform texture, smooth, uniform as to crown

52 53 1.

1 2 3	3.	The completed surface shall vary not more than ¼ inch in 10 feet from the rate of transverse slope shown in the Plans.	
4 5 6 7 8	All corrective work shall be completed at no additional expense, including traffic contr to the Contracting Agency. Corrective work shall not begin until the concrete has reached its design strength unless allowed by the Engineer. Pavement shall be repair by one or more of the following methods:		
8 9 10 11 12 13 14 15	1.	Diamond grinding; repairs shall not reduce pavement thickness by more than ¹ / ₄ inch less than the thickness shown in the Plans. When required by the Engineer, the Contractor shall verify the thickness of the concrete pavement by coring. Thickness reduction due to corrective work will not be included in thickness measurements for calculating the Thickness Deficiency in Section 5-05.5(1)A.	
16 17	2.	Removal and replacement of the cement concrete pavement.	
18	3.	By other method allowed by the Engineer.	
19 20 21 22 23 24	For repairs following MRI testing the repaired area shall be checked by the Contractor with a 10-foot straightedge to ensure it no longer requires corrective work. With concurrence of the Engineer an inertial profiler may be used in place of the 10-foot straight edge.		
25 26 27 28 29 30 31	If correction of the roadway as listed above either will not or does not produce satisfactory results as to smoothness or serviceability the Engineer may accept the completed pavement and a credit will be calculated in accordance with Section 5-05.5. The credit will be in addition to the price adjustment for MRI. Under these circumstances, the decision whether to accept the completed pavement or to require corrective work as described above shall be vested entirely in the Engineer.		
32 33 34		Repair of Defective Pavement Slabs tence of the fourth paragraph is revised to read:	
34 35 36	All sand	blasting residue shall be removed.	
37 38 39	5-05.4 Mea	asurement ⁻ 3 of the second paragraph is revised to read:	
40 41 42		e depth shall be determined in accordance with Section 5-05.5(1). The depth zed to calculate the volume shall not exceed the Plan depth plus 0.04 feet.	
43 44	The third par	ragraph is revised to read:	
45 46 47		ume of cement concrete pavement in each thickness lot shall equal the ed length × width × thickness measurement.	
48 49	The last para	agraph is revised to read:	
49 50 51 52		culation for cement concrete compliance adjustment is the volume of concrete nted by the CPF and the Thickness deficiency adjustment.	

1 2 3 4	5-05.5 Payment The paragraph following the Bid item "Cement Conc. Pavement", per cubic yard is supplemented with the following:				
4 5 6 7		ts associated with performing the magnetic pulse induction thickness testing shall uded in the unit Contract price per cubic yard for "Cement Conc. Pavement".			
8 9 10		id item "Ride Smoothness Compliance Adjustment", by calculation, and the paragraph ng this bid item are revised to read:			
11	"Ride S	pothness Compliance Adjustment", by calculation.			
12 13 14 15	Smoothness Compliance Adjustments will be based on the requirements in Section 5- 05.3(12) and the following calculations:				
16 17 18	1.	Final MRI acceptance and incentive/disincentive payments for pavement smoothness will be calculated as the average of the ten 52.8-foot sections in each 528 feet in accordance with the price adjustment schedule.			
19 20 21 22 23		a. For sections of a lane that are a minimum of 52.8 feet and less than 528 feet, the price adjustment will be calculated using the average of the 52.8 foot MRI values and the price adjustment prorated for the length of the section.			
24 25 26 27		 MRI values per 52.8-feet that were measured prior to corrective work will be included in the 528 foot price adjustment for sections with corrective work. 			
28 29 30 31 32 33	2.	n addition to the price adjustment for MRI a smoothness compliance adjustment will be calculated in the sum of minus \$1000.00 for each and every section of single traffic lane 52.8 feet in length in that does not meet the 10-foot straight edge requirements in Section 5-05.3(12) after corrective Work.			
55					

Price Adjustment Schedule		
MRI for each 528 ft.	Pay Adjustment	
section	Schedule	
in. / mi.	\$ / 0.10 mi.	
< 30	2400	
30	2400	
31	2320	
32	2240	
33	2160	
34	2080	
35	2000	
36	1920	
37	1840	
38	1760	
39	1680	
40	1600	
41	1520	
42	1440	
43	1360	

	4000
44	1280
45	1200
46	1120
47	1040
48	960
49	880
50	800
51	720
52	640
53	560
54	480
55	400
56	320
57	240
58	160
59	80
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	-80
77	-160
78	
	-240
79	-320
80	-400
81	-480
82	-560
83	-640
84	-720
85	-800
86	-880
87	-960
88	-1040
89	-1120
90	-1200
91	-1280
92	-1360
93	-1440
94	-1520

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95	-1600
96	-1680
97	-1760
98	-1840
99	-1920
100	-2000
101	-2080
102	-2160
103	-2240
104	-2320
105	-2400
106	-2480
107	-2560
108	-2640
109	-2720
110	-2800
111	-2880
112	-2960
113	-3040
114	-3120
115	-3200
116	-3280
117	-3360
118	-3440
119	-3520
120	-3600
121	-3680
122	-3760
123	-3840
124	-3920
≥125	-4000
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The bid item "Portland Cement Concrete Compliance Adjustment", by calculation, and the 3 paragraph following this bid item are revised to read:

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"Cement Concrete Compliance Adjustment", by calculation.

Payment for "Cement Concrete Compliance Adjustment" will be calculated by multiplying the unit Contract price for the cement concrete pavement, times the volume for adjustment, times the percent of adjustment determined from the calculated CPF and the Deficiency Adjustment listed in Section 5-05.5(1)A.

12 5-05.5(1) Pavement Thickness

This section is revised to read: 13 14

15 Cement concrete pavement shall be constructed in accordance with the thickness requirements in the Plans and Specifications. Tolerances allowed for Subgrade 16 17 construction and other provisions, which may affect thickness, shall not be construed to modify such thickness requirements. 18

- 20 Thickness measurements in each lane paved shall comply with the following:
- 21

Thickness Testing of Cement Concrete Pavement		
Thickness Lot Size	15 panels maximum	
Thickness test location determined by	Engineer will select testing locations in accordance with WSDOT TM 716 method B.	
Sample method	AASHTO T 359	
Sample preparation performed by	Contractor provides, places, and secures disks in the presence of the Engineer ¹	
Measurement method	AASHTO T 359	
Thickness measurement performed by Contractor, in the presence of the Engineer ²		
¹ Reflectors shall be located at within 0.5 feet of the center of the panel. The Contractor shall supply a sufficient number of 300 mm-diameter round reflectors meeting the requirements of AASHTO T 359 to accomplish the required testing. ² The Contractor shall provide all equipment and materials needed to perform the testing.		

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Thickness measurements shall be rounded to the nearest 0.01 foot.

Each thickness test location where the pavement thickness is deficient by more than 0.04 foot, shall be subject to price reduction or corrective action as shown in Table 2.

Thick	Table 2 ness Deficiency
$0.04'$ < Thickness Deficiency $\leq 0.06'$	10
$0.06'$ < Thickness deficiency $\leq 0.08'$	25
Thickness deficiency > 0.08'	Remove and replace the panels or the panels may be accepted with no payment at the discretion of the Engineer.

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8 The price reduction shall be computed by multiplying the percent price reduction in 9 Table 2 by the unit Contract price by the volume of pavement represented by the 10 thickness test lot.

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12 Additional cores may be taken by the Contractor to determine the limits of an area that 13 has a thickness deficiency greater than 0.04 feet. Cores shall be taken at the 14 approximate center of the panel. Only the panels within the limits of the deficiency area 15 as determined by the cores will be subject to a price reduction or corrective action. The 16 cores shall be taken in the presence of the Engineer and delivered to the Engineer for 17 measurement. All costs for the additional cores including filling the core holes with patching material meeting the requirements of Section 9-20 will be the responsibility of 18 19 the Contractor.

21 **5-05.5(1)A** Thickness Deficiency of 0.05 Foot or Less

This section, including title, is revised to read:

5-05.5(1)A Vacant

26 **5-05.5(1)B** Thickness Deficiency of More Than 0.05 Foot

This section, including title, is revised to read: 28

29 **5-05.5(1)B Vacant**

Section 6-01, General Requirements for Structures January 7, 2019 1

3 4	This section is supplemented with the following new subsections:
4 5	6-01.16 Repair of Defective Work
6	6-01.16(1) General
7	When using repair procedures that are described elsewhere in the Contract
8	Documents, the Working Drawing submittal requirements of this Section shall not
9	apply to those repairs unless noted otherwise.
10	
11	Repair procedures for defective Work shall be submitted as Type 2 Working
12	Drawings. Type 2E Working Drawings shall be submitted when required by the
13	Engineer. As an alternative to submitting Type 2 or 2E Working Drawings, defective
14	Work within the limits of applicability of a pre-approved repair procedure may be
15	repaired using that procedure. Repairs using a pre-approved repair procedure shall
16	be submitted as a Type 1 Working Drawing.
17	Dec. and any sign are subject to be the second state of the fall subjects
18	Pre-approved repair procedures shall consist of the following:
19	• The procedures listed in Section 6-01 16(2)
20 21	The procedures listed in Section 6-01.16(2)
22	 For precast concrete, repair procedures in the annual plant approval
23	process documents that have been approved for use by the Contracting
24	Agency.
25	
26	All Working Drawings for repair procedures shall include:
27	
28	 A description of the defective Work including location, extent and pictures
29	
30	Materials to be used in the repair. Repairs using manufactured products
31	shall include written manufacturer recommendations for intended uses of
32	the product, surface preparation, mixing, aggregate extension (if
33 34	applicable), ambient and surface temperature limits, placement methods,
34 35	finishing and curing.
36	Construction procedures
37	
38	 Plan details of the area to be repaired
39	
40	 Calculations for Type 2E Working Drawings
41	
42	Material manufacturer's instructions and recommendations shall supersede any
43	conflicting requirements in pre-approved repair procedures.
44	
45	The Engineer shall be notified prior to performing any repair procedure and shall be
46	given an opportunity to inspect the repair work being performed.
47	
48	6-01.16(2) Pre-Approved Repair Procedures
49	6-01.16(2)A Concrete Spalls and Poor Consolidation (Rock Pockets,
50 51	Honeycombs, Voids, etc.)
51	This repair shall be limited to the following areas:
54	

1 2 3	•	Areas that are not on top Roadway surfaces (with or without an overlay) including but not limited to concrete bridge decks, bridge approach slabs or cement concrete pavement
4 5	•	Areas that are not underwater
6 7 8	•	Areas that are not on precast barrier, except for the bottom 4 inches (but not to exceed 1 inch above blockouts)
9 10 11	•	Areas that do not affect structural adequacy as determined by the Engineer.
12 13	The rep	air procedure is as follows:
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1.	Remove all loose and unsound concrete. Impact breakers shall not exceed 15 pounds in weight when removing concrete adjacent to reinforcement or other embedments and shall not exceed 30 pounds in weight otherwise. Operate impact breakers at angles less than 45 degrees as measured from the surface of the concrete to the tool and moving away from the edge of the defective Work. Concrete shall be completely removed from exposed surfaces of existing steel reinforcing bars. If half or more of the circumference of any steel reinforcing bar is exposed, if the reinforcing bar is loose or if the bond to existing concrete is poor then concrete shall be removed at least ³ / ₄ inch behind the reinforcing bar. Do not damage any existing reinforcement. Stop work and allow the Engineer to inspect the repair area after removing all loose and unsound concrete. Submit a modified repair procedure when required by the Engineer.
29 30 31 32 33 34 35 36 37	2.	Square the edges of the repair area by cutting an edge perpendicular to the concrete surface around the repair area. The geometry of the repair perimeter shall minimize the edge length and shall be rectangular with perpendicular edges, avoiding reentrant corners. The depth of the cut shall be a minimum of ³ / ₄ inch, but shall be reduced if necessary to avoid damaging any reinforcement. For repairs on vertical surfaces, the top edge shall slope up toward the front at a 1-vertical-to-3-horizontal slope.
38 39 40 41 42 43 44 45 46	3.	Remove concrete within the repair area to a depth at least matching the cut depth at the edges. Large variations in the depth of removal within short distances shall be avoided. Roughen the concrete surface. The concrete surface should be roughened to at least Concrete Surface Profile (CSP) 5 in accordance with ICRI Guideline No. 310.2R, unless a different CSP is recommended by the patching material manufacturer.
47 48 49 50	4.	Inspect the concrete repair surface for delaminations, debonding, microcracking and voids using hammer tapping or a chain drag. Remove any additional loose or unsound concrete in accordance with steps 1 through 3.
51 52 53	5.	Select a patching material in accordance with Section 9-20.2 that is appropriate for the repair location and thickness. The concrete
	City of Lynnwood	May 2019

$ \begin{array}{c} 1 \\ 2 \\ 3 \end{array} $		patching material shall be pumpable or self-consolidating as required for the type of placement that suits the repair. The patching material shall have a minimum compressive strength at least equal to the	
3 4 5		specified compressive strength of the concrete.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	6.	Prepare the concrete surface and reinforcing steel in accordance with the patching material manufacturer's recommendations. At a minimum, clean the concrete surfaces (including perimeter edges) and reinforcing steel using oil-free abrasive blasting or high-pressure (minimum 5,000 psi) water blasting. All dirt, dust, loose particles, rus laitance, oil, film, microcracked/bruised concrete or foreign material of any sort shall be removed. Damage to the epoxy coating on steel reinforcing bars shall be repaired in accordance with Section 6- 02.3(24)H.	e st,
16 17 18 19	7.	Construct forms if necessary, such as for patching vertical or overhead surfaces or where patching extends to the edge or corner a placement.	of
20 21 22 23 24 25 26	8.	When recommended by the patching material manufacturer, saturate the concrete in the repair area and remove any free water at the concrete surface to obtain a saturated surface dry (SSD) substrate. When recommended by the patching material manufacturer, apply a primer, scrub coat or bonding agent to the existing surfaces. Epoxy bonding agents, if used, shall be Type II or Type V in accordance with Section 9-26.1.	1
27 28 29 30 31 32	9.	Place and consolidate the patching material in accordance with the manufacturer's recommendations. Work the material firmly into all surfaces of the repair area with sufficient pressure to achieve proper bond to the concrete.	-
32 33 34 35 36 37 38	10	The patching material shall be textured, cured and finished in accordance with the patching material manufacturer's recommendations and/or the requirements for the repaired component. Protect the newly placed patch from vibration in accordance with Section 6-02.3(6)D.	
39 40 41 42 43	11	When the completed repair does not match the existing concrete col and will be visible to the public, a sand and cement mixture that is color matched to the existing concrete shall be rubbed, brushed, or applied to the surface of the patching material and the concrete.	or
43 44 45 46		upported by or Attached to Bridges , "Federal Standard 595" is revised to read "SAE AMS Standard 595".	
47 48	6-01.12 Final Clea The second sentence	nup of the first paragraph is revised to read:	
49 50 51	Structure decks	shall be clean.	
51 52 53	The second paragrap	h is deleted.	
	City of Lynnwood 2019 Overlay and Curb Ran	p Project Page 8-33	

1 2	Section 6-02, Concrete Structures April 1, 2019
3 4 5	6-02.1 Description The first sentence is revised to read:
6 7 8 9	This Work consists of the construction of all Structures (and their parts) made of portland cement or blended hydraulic cement concrete with or without reinforcement, including bridge approach slabs.
10 11 12 13	6-02.2 Materials In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland Cement Concrete" are revised to read:
14 15 16	Cement9-01Aggregates for Concrete9-03.1
17 18	The reference to metakaolin is deleted.
19 20 21	6-02.3(2) Proportioning Materials The second paragraph is revised to read:
22 23	Unless otherwise specified, the Contractor shall use Type I or II portland cement or blended hydraulic cement in all concrete as defined in Section 9-01.2(1).
24 25 26	The last sentence of the fifth paragraph is revised to read:
27 28 29 30	With the Engineer's written concurrence, microsilica fume may be used in all classifications of Class 4000, Class 3000, and commercial concrete and is limited to a maximum of 10 percent of the cementitious material.
30 31 32 33	6-02.3(2)A Contractor Mix Design The last sentence of the last paragraph is revised to read:
34 35 36	For all other concrete, air content shall be a minimum of 4.5 percent and a maximum of 7.5 percent for all concrete placed above the finished ground line unless noted otherwise.
37 38 39 40	6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D Item number 5 of the first paragraph is deleted.
40 41 42 43	Item number 6 of the first paragraph (after the preceding Amendment is applied) is renumbered to 5.
44 45 46	6-02.3(2)B Commercial Concrete The second paragraph is revised to read:
40 47 48 49 50 51	Where concrete Class 3000 is specified for items such as, culvert headwalls, plugging culverts, concrete pipe collars, pipe anchors, monument cases, Type PPB, PS, I, FB and RM signal standards, pedestals, cabinet bases, guardrail anchors, fence post footings, sidewalks, concrete curbs, curbs and gutters, and gutters, the Contractor may use commercial concrete. If commercial concrete is used for sidewalks, concrete curbs,
	, · · · · · · · · · · · · · · · · · · ·

curbs and gutters, and gutters, it shall have a minimum cementitious material content of 564 pounds per cubic yard of concrete, shall be air entrained, and the tolerances of Section 6-02.3(5)C shall apply.

6-02.3(4) Ready-Mix Concrete

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

All concrete, except lean concrete, shall be batched in a prequalified manual, semiautomatic, or automatic plant as described in Section 6-02.3(4)A.

11 6-02.3(4)D Temperature and Time For Placement

12 The following is inserted after the first sentence of the first paragraph: 13

The upper temperature limit for placement for Class 4000D concrete may be increased to a maximum of 80°F if allowed by the Engineer.

17 6-02.3(5)C Conformance to Mix Design

- 18 Item number 1 of the second paragraph is revised to read:
 - 1. Cement weight plus 5 percent or minus 1 percent of that specified in the mix design.

22 6-02.3(6)A1 Hot Weather Protection

23 The first paragraph is revised to read:

The Contractor shall provide concrete within the specified temperature limits. Cooling of the coarse aggregate piles by sprinkling with water is permitted provided the moisture content is monitored, the mixing water is adjusted for the free water in the aggregate and the coarse aggregate is removed from at least 1 foot above the bottom of the pile. Sprinkling of fine aggregate piles with water is not allowed. Refrigerating mixing water or replacing all or part of the mixing water with crushed ice is permitted, provided the ice is completely melted by placing time.

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- The second sentence of the second paragraph is revised to read:
- These surfaces include forms, reinforcing steel, steel beam flanges, and any others that
 touch the concrete.

38 6-02.3(7) Vacant

This section, including title, is revised to read:

41 **6-02.3(7)** Tolerances

42 Unless noted otherwise, concrete construction tolerances shall be in accordance with 43 this section. Tolerances in this section do not apply to cement concrete pavement.

- 44
 45 Horizontal deviation of roadway crown points, cross-slope break points, and curb, barrier
 46 or railing edges from alignment or work line: ±1.0 inch
- 4748 Deviation from plane: ±0.5 inch in 10 feet
- 4950 Deviation from plane for roadway surfaces: ±0.25 inch in 10 feet
- 51

1 2 2	Deviation from plumb or specified batter: ± 0.5 inch in 10 feet, but not to exceed a total of ± 1.5 inches
3 4 5	Vertical deviation from profile grade for roadway surfaces: ±1 inch
5 6 7	Vertical deviation of top surfaces (except roadway surfaces): ±0.75 inch
7 8 9	Thickness of bridge decks and other structural slabs not at grade: ± 0.25 inch
10 11 12	Length, width and thickness of elements such as columns, beams, crossbeams, diaphragms, corbels, piers, abutments and walls, including dimensions to construction joints in initial placements: +0.5 inch, -0.25 inch
13 14 15	Length, width and thickness of spread footing foundations: +2 inches, -0.5 inch
16 17 18 19	Horizontal location of the as-placed edge of spread footing foundations: The greater of $\pm 2\%$ of the horizontal dimension of the foundation perpendicular to the edge and ± 0.5 inch. However, the tolerance shall not exceed ± 2 inches.
20 21	Location of opening, insert or embedded item at concrete surface: ± 0.5 inch
22 23	Cross-sectional dimensions of opening: ±0.5 inch
24 25 26	Bridge deck, bridge approach slab, and bridge traffic barrier expansion joint gaps with a specified temperature range, measured at a stable temperature: ±0.25 inch
27 28 29	Horizontal deviation of centerline of bearing pad, oak block or other bearing assembly: ± 0.125 inch
30 31 32	Horizontal deviation of centerline of supported element from centerline of bearing pad, oak block or other bearing assembly ± 0.25 inch
33 34 35	Vertical deviation of top of bearing pad, oak block or other bearing assembly: ± 0.125 inch
36 37	6-02.3(10)C Finishing Equipment The first paragraph is revised to read:
38 39 40 41 42 43 44 45 46 47 48	The finishing machine shall be self-propelled and be capable of forward and reverse movement under positive control. The finishing machine shall be equipped with augers and a rotating cylindrical single or double drum screed. The finishing machine shall have the necessary adjustments to produce the required cross section, line, and grade. The finishing machine shall be capable of raising the screeds, augers, and any other parts of the finishing mechanical operation to clear the screeded surface, and returning to the specified grade under positive control. Unless otherwise allowed by the Engineer, a finishing machine manufacturer technical representative shall be on site to assist the first use of the machine on the Contract.
49 50	The first sentence of the second paragraph is revised to read:
51 52 53	For bridge deck widening of 20 feet or less, and for bridge approach slabs, or where jobsite conditions do not allow the use of the conventional configuration finishing machines, or modified conventional machines as described above; the Contractor may

1 2 3	submit a Type 2 Working Drawing proposing the use of a hand-operated motorized power screed such as a "Texas" or "Bunyan" screed.
	C 00 0/40/D4 Manitaring Dridge Deals Concrete Temperature After Discoment
4	6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After Placement
5	This section, including title, is revised to read:
6	
7	6-02.3(10)D4 Vacant
8	
9	6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing
10	In the third subparagraph of the first paragraph, the last sentence is revised to read:
11	
12	The Contractor shall texture the bridge deck surface to within 3-inches minimum and 24-
13	inches maximum of the edge of concrete at expansion joints, within 1-foot minimum and
14	2-feet maximum of the curb line, and within 3-inches minimum and 9-inches maximum of
15	the perimeter of bridge drain assemblies.
16	
17	6-02.3(10)F Bridge Approach Slab Orientation and Anchors
18	The second to last paragraph is revised to read:
19	
20	The compression seal shall be a 2½ inch wide gland and shall conform to Section 9-
21	04.1(4).
22	
$\frac{1}{23}$	The last paragraph is deleted.
24	
25	6-02.3(13)A Strip Seal Expansion Joint System
26	In item number 3 of the third paragraph, "Federal Standard 595" is revised to read "SAE AMS
20 27	Standard 595".
28	Standard 595 .
20 29	6-02.3(13)B Compression Seal Expansion Joint System
30	The first paragraph is revised to read:
30 31	The first paragraph is revised to read.
32	Compression and glands shall conform to Section 0.04.1(4) and he sized as shown in
32 33	Compression seal glands shall conform to Section 9-04.1(4) and be sized as shown in the Plans.
33 34	life Flans.
	C 02 2/14/C Diamonted Scalar for Constate Surfaces
35	6-02.3(14)C Pigmented Sealer for Concrete Surfaces
36	This section is supplemented with the following new paragraph:
37	
38	Pigmented Sealer Materials shall be a product listed in the current WSDOT Qualified
39	Products List (QPL). If the pigmented sealer material is not listed in the current WSDOT
40	QPL, a sample shall be submitted to the State Materials Laboratory in Tumwater for
41	evaluation and acceptance in accordance with Section 9-08.3.
42	
43	6-02.3(20) Grout for Anchor Bolts and Bridge Bearings
44	The second, third and fourth paragraphs are revised to read:
45	
46	Grout shall be a workable mix with a viscosity that is suitable for the intended
47	application. Grout shall not be placed outside of the manufacturer recommended range
48	of thickness. The Contractor shall receive concurrence from the Engineer before using
49	the grout.
50	

1 Field grout cubes and cylinders shall be fabricated and tested in accordance with 2 Section 9-20.3 when requested by the Engineer, but not less than once per bridge pier 3 or once per day. 4

Before placing grout, the substrate on which it is to be placed shall be prepared as recommended by the manufacturer to ensure proper bonding. The grout shall be cured as recommended by the manufacturer. The grout may be loaded when a minimum of 4,000 psi compressive strength is attained.

10 The fifth paragraph is deleted.

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12 6-02.3(23) Opening to Traffic

13 This section is supplemented with the following new paragraph: 14

After curing bridge approach slabs in accordance with Section 6-02.3(11), the bridge approach slabs may be opened to traffic when a minimum compressive strength of 2,500 psi is achieved.

18 19 6-02.3(24)C Placing and Fastening

20 This section is revised to read: 21

22 The Contractor shall position reinforcing steel as the Plans require and shall ensure that 23 the steel is set within specified tolerances. Adjustments to reinforcing details outside of 24 specified tolerances to avoid interferences and for other purposes are acceptable when approved by the Engineer.

25 26

27 When spacing between bars is 1 foot or more, they shall be tied at all intersections. 28 When spacing is less than 1 foot, every other intersection shall be tied. If the Plans 29 require bundled bars, they shall be tied together with wires at least every 6 feet. All 30 epoxy-coated bars in the top mat of the bridge deck shall be tied at all intersections, 31 however they may be tied at alternate intersections when spacing is less than 1 foot in 32 each direction and they are supported by continuous supports meeting all other 33 requirements of supports for epoxy-coated bars. Other epoxy-coated bars shall also be 34 tied at all intersections, but shall be tied at alternate intersections when spacing is less 35 than 1 foot in each direction. Wire used for tying epoxy-coated reinforcing steel shall be 36 plastic coated. Tack welding is not permitted on reinforcing steel. 37

38 Abrupt bends in the steel are permitted only when one steel member bends around 39 another. Vertical stirrups shall pass around main reinforcement or be firmly attached to 40 it.

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42 For slip-formed concrete, the reinforcing steel bars shall be tied at all intersections and 43 cross braced to keep the cage from moving during concrete placement. Cross bracing 44 shall be with additional reinforcing steel. Cross bracing shall be placed both 45 longitudinally and transversely.

47 After reinforcing steel bars are placed in a traffic or pedestrian barrier and prior to slip-48 form concrete placement, the Contractor shall check clearances and reinforcing steel 49 bar placement. This check shall be accomplished by using a template or by operating 50 the slip-form machine over the entire length of the traffic or pedestrian barrier. All 51 clearance and reinforcing steel bar placement deficiencies shall be corrected by the 52 Contractor before slip-form concrete placement.

1 Precast concrete supports (or other accepted devices) shall be used to maintain the 2 concrete coverage required by the Plans. The precast concrete supports shall: 3 4 Have a bearing surface measuring not greater than 2 inches in either dimension. 1. 5 and 6 7 2. Have a compressive strength equal to or greater than that of the concrete in which 8 they are embedded. 9 10 In slabs, each precast concrete support shall have either: (1) a grooved top that will hold 11 the reinforcing bar in place, or (2) an embedded wire that protrudes and is tied to the 12 reinforcing steel. If this wire is used around epoxy-coated bars, it shall be coated with 13 plastic. 14 15 Precast concrete supports may be accepted based on a Manufacturer's Certificate of 16 Compliance. 17 18 In lieu of precast concrete supports, the Contractor may use metal or all-plastic supports 19 to hold uncoated bars. Any surface of a metal support that will not be covered by at least 20 ¹/₂ inch of concrete shall be one of the following: 21 22 Hot-dip galvanized after fabrication in keeping with AASHTO M232 Class D; 1. 23 24 2. Coated with plastic firmly bonded to the metal. This plastic shall be at least 3/32 25 inch thick where it touches the form and shall not react chemically with the 26 concrete when tested in the State Materials Laboratory. The plastic shall not 27 shatter or crack at or above -5°F and shall not deform enough to expose the 28 metal at or below 200°F; or 29 30 3. Stainless steel that meet the requirements of ASTM A493, Type 302. Stainless 31 steel chair supports are not required to be galvanized or plastic coated. 32 33 In lieu of precast concrete supports, epoxy-coated reinforcing bars may be supported by 34 one of the following: 35 36 1. Metal supports coated entirely with a dielectric material such as epoxy or 37 plastic, 38 39 2. Other epoxy-coated reinforcing bars, or 40 41 3. All-plastic supports. 42 43 Damaged coatings on metal bar supports shall be repaired prior to placing concrete. 44 45 All-plastic supports shall be lightweight, non-porous, and chemically inert in concrete. 46 All-plastic supports shall have rounded seatings, shall not deform under load during 47 normal temperatures, and shall not shatter or crack under impact loading in cold 48 weather. All-plastic supports shall be placed at spacings greater than 1 foot along the 49 bar and shall have at least 25 percent of their gross place area perforated to 50 compensate for the difference in the coefficient of thermal expansion between plastic 51 and concrete. The shape and configuration of all-plastic supports shall permit complete 52 concrete consolidation in and around the support. 53

1	A "mat" is two adjacent and perpendicular layers of reinforcing steel. In bridge decks, top
2	and bottom mats shall be supported adequately enough to hold both in their proper
3	positions. If bar supports directly support, or are directly supported on No. 4 bars, they
4	shall be spaced at not more than 3-foot intervals (or not more than 4-foot intervals for
5	bars No. 5 and larger). Wire ties to girder stirrups shall not be considered as supports.
6	To provide a rigid mat, the Contractor shall add other supports and tie wires to the top
7	mat as needed.
8	
9	Unless noted otherwise, the minimum concrete cover for main reinforcing bars shall be:
10	
11	3 inches to a concrete surface deposited against earth without intervening forms.
12	
13	2 ¹ / ₂ inches to the top surface of a concrete bridge deck or bridge approach slab.
14	
15	2 inches to a concrete surface when not specified otherwise in this section or in the
16	Contract documents.
17	
18	1 ¹ / ₂ inches to a concrete barrier or curb surface.
19	
20	Except for top cover in bridge decks and bridge approach slabs, minimum concrete
21	cover to ties and stirrups may be reduced by $\frac{1}{2}$ inch but shall not be less than 1 inch.
22	Minimum concrete cover shall also be provided to the outermost part of mechanical
23	splices and headed steel reinforcing bars.
24	
25	Reinforcing steel bar location, concrete cover and clearance shall not vary more than the
26	following tolerances from what is specified in the Contract documents:
27	ionowing tolerances from what is specified in the contract documents.
28	Reinforcing bar location for members 12 inches or less in thickness: ±0.25 inch
29	Reinforcing bar location for members 12 inches of less in thickness. 10.25 inch
30	Reinforcing bar location for members greater than 12 inches in thickness: ±0.375
31	inch
32	Deinfersion has leasting for here placed at equal energing within a place, the greater
33	Reinforcing bar location for bars placed at equal spacing within a plane: the greater
34	of either ± 1 inch or ± 1 bar diameter within the plane. The total number of bars shall
35	not be fewer than that specified.
36	
37	The clearance between reinforcement shall not be less than the greater of the bar
38	diameter or 1 inch for unbundled bars. For bundled bars, the clearance between
39	bundles shall not be less than the greater of 1 inch or a bar diameter derived from
40	the equivalent total area of all bars in the bundle.
41	
42	Longitudinal location of bends and ends of bars: ±1 inch
43	
44	Embedded length of bars and length of bar lap splices:
45	
46	No. 3 through No. 11: -1 inch
47	
48	No. 14 through No. 18: -2 inches
49	
50	Concrete cover measured perpendicular to concrete surface (except for the top
51	surface of bridge decks, bridge approach slabs and other roadway surfaces): ±0.25
52	inch
52 53	
22	

1 2 3 4		ge decks, bridge approach slabs and	to concrete surface for the top surface of other roadway surfaces: +0.25 inch, -0
4 5 6	Before p	lacing any concrete, the Contractor sl	hall:
0 7 8	1.	Clean all mortar from reinforcement,	and
9 10 11 12	2.		place concrete after the Engineer has prcing steel. (Any concrete placed without ejected and removed.)
13 14 15	6-02.3(25)H The last para	Finishing graph is revised to read:	
16 17 18	The Con Section 6		sed concrete girders in accordance with
19 20 21	• • •	Fabrication Tolerances 12 of the first paragraph is revised to	read:
22 23	12. Stirr	up Projection from Top of Girder:	
24 25	Wid	e flange thin deck and slab girders:	± 1/2 inch
26 27	All c	other girders:	±¾ inch
28 29 30		Concrete for Precast Units ence of the first paragraph is revised	to read:
31 32 33	Type III p		cement is permitted to be used in precast
34 35 36 37	6-02.3(28)B In the second 02.3(25)C.		6-02.3(25)B is revised to read Section 6-
38 39 40 41	• • •	Contractors Control Strength ragraph, "WSDOT FOP for AASHTO	T 23" is revised to read "FOP for AASHTO
42 43 44	6-02.3(28)E This section i	Finishing s supplemented with the following:	
44 45 46	The Con	tractor may repair defects in precast	panels in accordance with Section 6-01.16.
40 47 48	Section 6-0 January 7, 2	3, Steel Structures 2019	
49 50 51	6-03.2 Mate In the first pa	e rials ragraph, the material reference for Pa	aints is revised to read:

1 2	Paints and Related Materials 9-08
2 3 4 5	6-03.3(25)A3 Ultrasonic Inspection The first paragraph (up until the colon) is revised to read:
6 7 8	Complete penetration groove welds on plates 5/16 inch and thicker in the following welded assemblies or Structures shall be 100 percent ultrasonically inspected:
9 10 11	6-03.3(33) Bolted Connections The first paragraph is supplemented with the following:
12 13 14	After final tightening of the fastener components, the threads of the bolts shall at a minimum be flush with the end of the nut.
15 16	The following is inserted after the third sentence of the fourth paragraph:
17 18	When galvanized bolts are specified, tension-control galvanized bolts are not permitted.
19 20	Section 6-05, Piling January 2, 2018
21 22 23	6-05.3(9)A Pile Driving Equipment Approval The fourth sentence of the second paragraph is revised to read:
24 25 26 27	For prestressed concrete piles, the allowable driving stress in kips per square inch shall be $0.095 \cdot \sqrt{f'_c}$ plus prestress in tension, and $0.85f'_c$ minus prestress in compression, where f'_c is the concrete compressive strength in kips per square inch.
28 29	Section 6-07, Painting January 7, 2019
30 31 32	6-07.1 Description The first sentence is revised to read:
33 34 35 36	This work consists of containment, surface preparation, shielding adjacent areas from work, testing and disposing of debris, furnishing and applying paint, and cleaning up after painting is completed.
37	6-07.2 Materials
38 39	The material reference for Paint is revised to read:
40 41	Paint and Related Materials 9-08
42 43 44	6-07.3(1)A Work Force Qualifications for Shop Application of Paint This section is supplemented with the following new sentence:
45 46	The work force may be accepted based on the approved facility.
40 47 48 49	6-07.3(1)B Work Force Qualifications for Field Application of Paint The first two paragraphs are revised to read:

1 2 3 4	5		Contractor preparing the surface and applying the paint shall be certified under C-QP 1 or NACE International Institute Contractor Accreditation Program (NIICAP) .
5 6 7	C		Contractor removing and otherwise disturbing existing paint containing lead and hazardous materials shall be certified under SSPC-QP 2, Category A or NIICAP .
8 9	The t	hird	paragraph (up until the colon) is revised to read:
10 11 12			u of the above SSPC or NIICAP certifications, the Contractor performing the ified work shall complete both of the following actions:
13 14 15	Item	num	ber 2 of the third paragraph is revised to read:
15 16 17 18	2		The Contractor's quality control inspector(s) for the project shall be NACE-certified CIP Level 3 or SSPC Protective Coating Inspector (PCI) Level 3.
18 19	6-07	.3(2) Submittals
20	The f	irst p	baragraph is supplemented with the following:
21 22 23	E	Each	component of the plan shall identify the specification section it represents.
23 24 25 26)B Contractor's Quality Control Program Submittal Component bered list in the first paragraph is revised to read:
20 27 28 29	1		Description of the inspection procedures, tools, techniques and the acceptance criteria for all phases of work.
29 30 31	2	2.	Procedure for implementation of corrective action for non-conformance work.
31 32 33	3	3.	The paint system manufacturer's recommended methods of preventing defects.
33 34 35	2	4.	The Contractor's frequency of quality control inspection for each phase of work.
36 37 38	Ę		Example of each completed form(s) of the daily quality control report used to document the inspection work and tests performed by the Contractor's quality control personnel.
39 40	6-07.	.3(2)C Paint System Manufacturer and Paint System Information Submittal
41	Com	por	nent
42 43	Item	num	ber 1 is revised to read:
44 45 46	1		Product data sheets and Safety Data Sheets (SDS) on the paint materials, paint preparation, and paint application, as specified by the paint manufacturer, including:
47			a. All application instructions, including the mixing and thinning directions.
48 49 50			b. Recommended spray nozzles and pressures.
50 51 52			c. Minimum and maximum drying time between coats.

1		d.	Restrictions on temperature and humidity.
2 3		•	Densir presedures for shep and field applied sections
3 4		e.	Repair procedures for shop and field applied coatings.
5 6		f.	Maximum dry film thickness for each coat.
0 7 8 9		g.	Minimum wet film thickness for each coat to achieve the specified minimum dry film thickness.
10 11	•		Hazardous Waste Containment, Collection, Testing, and Disposal Component
12			agraph (up until the colon) is revised to read:
13 14 15 16 17	Feo	deral	ardous waste containment, collection, testing, and disposal shall meet all and State requirements, and the submittal component of the painting plan shall the following:
17 18 19 20			Cleaning and Surface Preparation Submittal Component the first paragraph is revised to read::
20 21 22 23	b.		e, manufacturer, and brand of abrasive blast material and all associated litives, including Safety Data Sheets (SDS).
23	6-07.3(3)B	Quality Control and Quality Assurance for Field Application of Paint
25 26			tence of the first paragraph (excluding the numbered list) is revised to read:
27 28 29			ntractor's quality control operations shall include a minimum monitoring and nting the following for each working day:
2) 30 31	Item nui	mber	1 in the fourth paragraph is revised to read:
31 32 33	1.	En	vironmental conditions for painting in accordance with ASTM E 337.
34 35	Item nui	mber	4 in the fourth paragraph is revised to read:
36 37	4.	Pict	torial of surface preparation guides in accordance with SSPC-VIS 1, 3, 4, and 5.
38 39	Item nui	mber	5 in the fourth paragraph is revised to read:
40 41 42	5.		face profile by Keanne-Tator comparator in accordance with ASTM D 4417 and PC PA17.
43 44	•		Paint System Manufacturer's Technical Representative is revised to read:
45 46 47 48 49	pre	-pain	nt system manufacturer's representative shall be present at the jobsite for the ting conference and for the first day of paint application, and shall be available ontractor and Contracting Agency for consultation for the full project duration.
50			Pre-Painting Conference
51 52	The sec	ona	paragraph is revised to read:

If the Contractor's key personnel change between any work operations, an additional conference shall be held if requested by the Engineer.

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6-07.3(6)A Paint Containers

In item number 2 of the first paragraph, "Federal Standard 595" is revised to read "SAE AMS
 Standard 595".

8 **6-07.3(6)B Paint Storage** 9 Item number 2 of the second

Item number 2 of the second paragraph is revised to read:

2. The Contractor shall monitor and document daily the paint material storage facility with a high-low recording thermometer device.

14 6-07.3(7) Paint Sampling and Testing

- 15 The first two paragraphs are revised to read: 16
- The Contractor shall provide the Engineer 1 quart of each paint representing each lot.
 Samples shall be accompanied with a Safety Data Sheet.

If the quantity of paint required for each component of the paint system for the entire project is 20 gallons or less, then the paint system components will be accepted as specified in Section 9-08.1(7).

24 **6-07.3(8) A** Paint Film Thickness Measurement Gages

25 The first paragraph is revised to read:

Paint dry film thickness measurements shall be performed with either a Type 1 pull-off gage or a Type 2 electronic gage as specified in SSPC Paint Application Specification No. 2, Procedure for Determining Conformance to Dry Coating Thickness Requirements.

31 6-07.3(9) Painting New Steel Structures

- The last sentence of the second paragraph is revised to read:
 - Welded shear connectors are not required to painted.
- 36 The last paragraph is revised to read:
- 38 Temporary attachments or supports for scaffolding, containment or forms shall not 39 damage the paint system.

41 **6-07.3(9)A** Paint System

- 42 The first paragraph is revised to read:
- 44 The paint system applied to new steel surfaces shall consist of the following:
 - Option 1 (component based paint system):

48	Primer Coat – Inorganic Zinc Rich	9-08.1(2)C
49	Intermediate Coat – Moisture Cured Polyurethane	9-08.1(2)G
50	Intermediate Stripe Coat – Moisture Cured Polyurethane	9-08.1(2)G
51	Top Coat – Moisture Cured Polyurethane	9-08.1(2)H
52	· · ·	

Option 2 (performance based paint system):

4		
3	Primer Coat – Inorganic Zinc Rich	9-08.1(2)M
4	Intermediate Coat – Epoxy	9-08.1(2)M
5	Intermediate Stripe Coat – Epoxy	9-08.1(2)M
6	Top Coat – Polyurethane	9-08.1(2)M
7		

The following new paragraph is inserted after the first paragraph:

10 Paints and related materials shall be products listed in the current WSDOT Qualified Products List (QPL). Component based paint systems shall be listed on the QPL in the 11 12 applicable sections of Section 9-08. Performance based systems shall be listed on the 13 current Northeast Protective Coatings Committee (NEPCOAT) Qualified Products List 14 "A" as listed on the WSDOT QPL in Section 9-08.1(2)M. If the paint and related 15 materials for the component based system is not listed in the current WSDOT QPL, a 16 sample shall be submitted to the State Materials Laboratory in Tumwater for evaluation 17 and acceptance in accordance with Section 9-08.

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19 **6-07.3(9)C** Mixing and Thinning Paint

20 This section is revised to read: 21

22 The Contractor shall thoroughly mix paint in accordance with the manufacturer's written 23 recommendations and by mechanical means to ensure a uniform and lump free 24 composition. Paint shall not be mixed by means of air stream bubbling or boxing. Paint 25 shall be mixed in the original containers and mixing shall continue until all pigment or 26 metallic powder is in suspension. Care shall be taken to ensure that the solid material 27 that has settled to the bottom of the container is thoroughly dispersed. After mixing, the 28 Contractor shall inspect the paint for uniformity and to ensure that no unmixed pigment 29 or lumps are present.

30

31 Catalysts, curing agents, hardeners, initiators, or dry metallic powders that are packaged 32 separately may be added to the base paint in accordance with the paint manufacturer's 33 written recommendations and only after the paint is thoroughly mixed to achieve a 34 uniform mixture with all particles wetted. The Contractor shall then add the proper 35 volume of curing agent to the correct volume of base and mix thoroughly. The mixture 36 shall be used within the pot life specified by the manufacturer. Unused portions shall be 37 discarded at the end of each work day. Accelerants are not permitted except as allowed 38 by the Engineer. 39

The Contractor shall not add additional thinner at the application site except as allowed by the Engineer. The amount and type of thinner, if allowed, shall conform to the manufacturer's specifications. If recommended by the manufacturer and allowed by the Engineer, a measuring cup shall be used for the addition of thinner to any paint with graduations in ounces. No un-measured addition of thinner to paint will be allowed. Any paint found to be thinned by unacceptable methods will be rejected.

- When recommended by the manufacturer, the Contractor shall constantly agitate paint
 during application by use of paint pots equipped with mechanical agitators.
- The Contractor shall strain all paint after mixing to remove undesirable matter, but
 without removing the pigment or metallic powder.
 - City of Lynnwood 2019 Overlay and Curb Ramp Project

Paint shall be stored and mixed in a secure, contained location to eliminate the potential for spills into State waters and onto the ground and highway surfaces.

6-07.3(9)D Coating Thickness

This section is revised to read:

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6 7 Dry film thickness shall be measured in accordance with SSPC Paint Application 8 Specification No. 2, Procedure for Determining Conformance to Dry Coating Thickness 9 Requirements. 10 11 The minimum dry film thickness of the primer coat shall not be less than 2.5 mils. 12 13 The minimum dry film thickness of each coat (combination of intermediate and 14 intermediate stripe, and top) shall be not less than 3.0 mils. 15 16 The dry film thickness of each coat shall not be thicker than the paint manufacturer's 17 recommended maximum thickness. 18 19 The minimum wet film thickness of each coat shall be specified by the paint 20 manufacturer to achieve the minimum dry film thickness. 21 22 Film thickness, wet and dry, will be measured by gages conforming to Section 6-23 07.3(8)A. 24 25 Wet measurements will be taken immediately after the paint is applied in accordance 26 with ASTM D4414. Dry measurements will be taken after the coating is dry and hard in 27 accordance with SSPC Paint Application Specification No. 2. 28 29 Each painter shall be equipped with wet film thickness gages and shall be responsible 30 for performing frequent checks of the paint film thickness throughout application. 31 32 Coating thickness measurements may be made by the Engineer after the application of 33 each coat and before the application of the succeeding coat. In addition, the Engineer 34 may inspect for uniform and complete coverage and appearance. One hundred percent 35 of all thickness measurements shall meet or exceed the minimum wet film thickness. In 36 areas where wet film thickness measurements are impractical, dry film thickness 37 measurements may be made. If a question arises about an individual coat's thickness or 38 coverage, it may be verified by the use of a Tooke gage in accordance with ASTM 39 D4138. 40 41 If the specified number of coats does not produce a combined dry film thickness of at 42 least the sum of the thicknesses required per coat, if an individual coat does not meet 43 the minimum thickness, or if visual inspection shows incomplete coverage, the coating 44 system will be rejected and the Contractor shall discontinue painting and surface 45 preparation operations and shall submit a Type 2 Working Drawing of the repair 46 proposal. The repair proposal shall include documentation demonstrating the cause of 47 the less-than-minimum thickness, along with physical test results, as necessary, and 48 modifications to Work methods to prevent similar results. The Contractor shall not 49 resume painting or surface preparation operations until receiving the Engineer's 50 acceptance of the completed repair. 51

52 **6-07.3(9)E** Surface Temperature Requirements Prior to Application of Paint

53 This section, including title, is revised to read: *City of Lynnwood*

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2	6-07.3(9)E Environmental Condition Requirements Prior to Application of Paint
3	Paint sh	nall be applied only during periods when:
4		
5	1.	Air and steel temperatures are in accordance with the paint manufacturer's
6		recommendations but in no case less than 35°F nor greater than 115°F.
7		e e e e e e e e e e e e e e e e e e e
8	2.	Steel surface temperature is a minimum of 5°F above the dew point.
9		
10	3.	Steel surface is not wet.
11	•	
12	4.	Relative humidity is within the manufacturer's recommended range.
13		
14	5.	The anticipated ambient temperature will remain above 35°F or the
15	0.	manufacturer's minimum temperature, whichever is greater, during the paint
16		drying and curing period.
17		
18	Applica	tion will not be allowed if conditions are not favorable for proper application and
18	• •	nance of the paint.
20	penoni	
20 21	Doint of	all not be applied when weather conditions are unfeverable to proper suring. If a
21 22		nall not be applied when weather conditions are unfavorable to proper curing. If a
		vstem manufacturer's recommendations allow for application of a paint under
23		mental conditions other than those specified, the Contractor shall submit a Type
24		ing Drawing consisting of a letter from the paint manufacturer specifying the
25		mental conditions under which the paint can be applied. Application of paint
26		environmental conditions other than those specified in this section will not be
27	allowed	without the Engineer's concurrence.
28		
29		
29 30	• • •	Shop Surface Cleaning and Preparation
29 30 31	• • •	Shop Surface Cleaning and Preparation Itence is revised to read:
29 30 31 32	The last sen	itence is revised to read:
29 30 31 32 33	The last sen The ent	tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G
29 30 31 32 33 34	The last sen The ent to recei	tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance
29 30 31 32 33 34 35	The last sen The ent to recei	tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G
29 30 31 32 33 34 35 36	The last sen The ent to receir with SS	tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance
29 30 31 32 33 34 35	The last sen The ent to receir with SS	tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i> , and shall be in this condition
29 30 31 32 33 34 35 36	The last sen The ent to recei with SS immedia	tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i> , and shall be in this condition
29 30 31 32 33 34 35 36 37	The last sen The ent to receir with SS immedia	tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i> , and shall be in this condition ately prior to paint application.
29 30 31 32 33 34 35 36 37 38	The last sen The ent to receir with SS immedia	 attence is revised to read: tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat
29 30 31 32 33 34 35 36 37 38 39 40	The last sen The ent to recei with SS immedia 6-07.3(9)G The first par	Attence is revised to read: tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, Near-white Metal Blast Cleaning, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat ragraph is supplemented with the following:
29 30 31 32 33 34 35 36 37 38 39 40 41	The last sen The ent to recei with SS immedia 6-07.3(9)G The first par Repairs	 attence is revised to read: tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat agraph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan.
29 30 31 32 33 34 35 36 37 38 39 40 41 42	The last sen The ent to receir with SS immedia 6-07.3(9)G The first par Repairs Shop p	 Attence is revised to read: Attence is revised to read: Attence is revised to read: Application of Shop Primer Coat Agraph is supplemented with the following: Sof the shop primer coat shall be prepared in accordance with the painting plan.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	The last sen The ent to receir with SS immedia 6-07.3(9)G The first par Repairs Shop p	 attence is revised to read: tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat agraph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	The last sen The ent to recei with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform	 Attence is revised to read: Attence is revised to read: Application of Shop Primer Coat Fagraph is supplemented with the following: So of the shop primer coat shall be prepared in accordance with the painting plan. Finance based paint system in accordance with Section 6-07.3(10)H.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	The last sen The ent to receir with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H	 Attence is revised to read: tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat agraph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan. rimer coat repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	The last sen The ent to receir with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H	 Attence is revised to read: Attence is revised to read: Application of Shop Primer Coat Fagraph is supplemented with the following: So of the shop primer coat shall be prepared in accordance with the painting plan. Finance based paint system in accordance with Section 6-07.3(10)H.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	The last sen The ent to receiving with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H This section	 Attence is revised to read: Attence is revised to read: Attence is revised to read: Application of Shop Primer Coat Aragraph is supplemented with the following: So of the shop primer coat shall be prepared in accordance with the painting plan. Arimer coat repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read:
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	The last sen The ent to receivith SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H This section The Co	 attence is revised to read: tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat regarph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan. Finter coat repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read: ntractor shall use a containment system in accordance with Section 6-07.3(10)A
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	The last sen The ent to receir with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H This section The Co for surfa	 attence is revised to read: attence is revised to read: attence is revised to read: attence is revised to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat agraph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan. and repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read: antractor shall use a containment system in accordance with Section 6-07.3(10)A
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	The last sen The ent to receir with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H This section The Co for surfa	 attence is revised to read: tire steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat regarph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan. Finter coat repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read: ntractor shall use a containment system in accordance with Section 6-07.3(10)A
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	The last sen The ent to receiving with SS immedia 6-07.3(9)G The first par Repairs Shop properform 6-07.3(9)H This section The Co for surfate bolts, no	 Attence is revised to read: Attence is revised to read: Attence is revised to read: Application of Shop Primer Coat Aggraph is supplemented with the following: A of the shop primer coat shall be prepared in accordance with the painting plan. Arimer coat repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read: Antractor shall use a containment system in accordance with Section 6-07.3(10)A ace preparation and prime coating of all uncoated areas remaining, including uts, washers, and splice plates.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	The last sen The ent to receiving with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H This section The Co for surfate bolts, nu	 Application of Shop Primer Coat Application of Shop Primer Coat agraph is supplemented with the following: a of the shop primer coat shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read: ntractor shall use a containment system in accordance with Section 6-07.3(10)A ace preparation and prime coating of all uncoated areas remaining, including uts, washers, and splice plates.
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	The last sen The ent to receiving with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H This section The Co for surfat bolts, no During p	 attence is revised to read: attence is revised to read: atter steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat agraph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan. armer coat repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read: ntractor shall use a containment system in accordance with Section 6-07.3(10)A ace preparation and prime coating of all uncoated areas remaining, including uts, washers, and splice plates. painting operations of the intermediate, stripe and top coats the Contractor shall install, and maintain drip tarps below the areas to be painted to contain all
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	The last sen The ent to receir with SS immedia 6-07.3(9)G The first par Repairs Shop pr perform 6-07.3(9)H This section The Co for surfa bolts, ne During p furnish, <i>City of Lynnwoo</i>	 attence is revised to read: attence is revised to read: atter steel surface to be painted, including surfaces specified in Section 6-07.3(9)G ve a mist coat of primer, shall be cleaned to a near white condition in accordance SPC-SP 10, <i>Near-white Metal Blast Cleaning</i>, and shall be in this condition ately prior to paint application. Application of Shop Primer Coat agraph is supplemented with the following: a of the shop primer coat shall be prepared in accordance with the painting plan. armer coat repair paint shall be selected from the approved component based or hance based paint system in accordance with Section 6-07.3(10)H. Containment for Field Coating is revised to read: ntractor shall use a containment system in accordance with Section 6-07.3(10)A ace preparation and prime coating of all uncoated areas remaining, including uts, washers, and splice plates. painting operations of the intermediate, stripe and top coats the Contractor shall install, and maintain drip tarps below the areas to be painted to contain all

1 spilled paint, buckets, brushes, and other deleterious material, and prevent such 2 materials from reaching the environment below or adjacent to the structure being 3 painted. Drip tarps shall be absorbent material and hung to minimize puddling. The 4 Contractor shall evaluate the project-specific conditions to determine the specific type 5 and extent of containment needed to control the paint emissions and shall submit a 6 containment plan in accordance with Section 6-07.3(2). 7 8 6-07.3(9) Application of Field Coatings 9 This section is revised to read: 10 11 An on-site supervisor shall be present for each work shift at the bridge site. 12 13 Upon completion of erection Work, all uncoated or damaged areas remaining, including 14 bolts, nuts, washers, and splice plates, shall be prepared in accordance with Section 6-15 07.3(9)F, followed by a field primer coat of a zinc-rich primer and final coats of paint 16 selected from the approved component or performance based paint system in 17 accordance with Section 6-07.3(10)H. . The intermediate, intermediate stripe, and top 18 coats shall be applied in accordance with the manufacturer's written recommendations. 19 20 Upon completion of erection Work, welds for steel column jackets may be prepared in 21 accordance with SSPC-SP 15, Commercial Grade Power Tool Cleaning. 22 23 The minimum drying time between coats shall be as shown in the product data sheets. 24 but not less than 12 hours. The Contractor shall determine whether the paint has cured 25 sufficiently for proper application of succeeding coats. 26 27 The maximum time between intermediate and top coats shall be in accordance with the 28 manufacturer's written recommendations. If the maximum time between coats is 29 exceeded, all newly coated surfaces shall be prepared to SSPC-SP 7, Brush-off Blast 30 *Cleaning*, and shall be repainted with the same paint that was cleaned, at no additional 31 cost to the Contracting Agency. 32 33 Each coat shall be applied in a uniform layer, completely covering the preceding coat. 34 The Contractor shall correct runs, sags, skips, or other deficiencies before application of 35 succeeding coats. Such corrective work may require re-cleaning, application of 36 additional paint, or other means as determined by the Engineer, at no additional cost to 37 the Contracting Agency. 38 39 Dry film thickness measurements will be made in accordance with Section 6-07.3(9)D. 40 41 All paint damage that occurs shall be repaired in accordance with the manufacturer's 42 written recommendations. On bare areas or areas of insufficient primer thickness, the 43 repair shall include field-applied zinc-rich primer and the final coats of paint selected 44 from the approved component or performance based paint system in accordance with 45 Section 6-07.3(10)H. On areas where the primer is at least equal to the minimum 46 required dry film thickness, the repair shall include the application of the final two coats 47 of the paint system. All paint repair operations shall be performed by the Contractor at 48 no additional cost or time to the Contracting Agency. 49 50 6-07.3(10)A Containment

- 51 The first sentence of the third paragraph is revised to read:
- 52

1 2 2	Emissions shall be assessed by Visible Emission Observations (Method A) in SSPC Technology Update No. 7, <i>Conducting Ambient Air, Soil, and Water Sampling of Surface</i>
3 4 5	<i>Preparation and Paint Disturbance Activities</i> , Section 6.2 and shall be limited to the Level A Acceptance Criteria Option Level 0 Emissions standard.
6	6-07.3(10)D Surface Preparation Prior to Overcoat Painting
7	The first paragraph is revised to read:
8	
9	The Contractor shall remove any visible oil, grease, and road tar in accordance with
10	SSPC-SP 1, Solvent Cleaning.
11	
12	The second paragraph is revised to read:
13 14	Following any preparation by SSPC-SP1, all steel surfaces to be painted shall be
14	prepared in accordance with SSPC-SP 7, Brush-off Blast Cleaning. Surfaces
16	inaccessible to brush-off blast shall be prepared in accordance with SSPC-SP 3, <i>Power</i>
17	Tool Cleaning, as allowed by the Engineer.
18	
19	The first sentence of the third paragraph is revised to read:
20	
21	Following brush-off blast cleaning, the Contractor shall perform spot abrasive blast
22	cleaning in accordance with SSPC-SP 6, Commercial Blast Cleaning.
23	The according to lost conteness of the third newspapels is revised to read.
24 25	The second to last sentence of the third paragraph is revised to read:
23 26	For small areas, as allowed by the Engineer, the Contractor may substitute cleaning in
27	accordance with SSPC-SP 15, Commercial Grade Power Tool Cleaning.
28	
29	6-07.3(10)G Treatment of Pack and Rust Gaps
30	The second paragraph is revised to read:
31	
32	Pack rust forming a gap between steel surfaces of $\frac{1}{16}$ to $\frac{1}{4}$ inch shall be cleaned to a
33	depth of at least one half of the gap width. The gaps shall be cleaned and prepared in
34	accordance with SSPC-SP6. The cleaned gap shall be treated with rust penetrating
35	sealer, prime coated, and then caulked to form a watertight seal along the top edge and
36 37	the two sides of the steel pieces involved, using the rust penetrating sealer and caulk as accepted by the Engineer. The bottom edge or lowest edge of the steel pieces involved
38	shall not be caulked.
39	
40	The third paragraph is supplemented with the following:
41	
42	Caulk shall be a single-component urethane sealant conforming to Section 9-08.7.
43	
44	The fifth paragraph is revised to read:
45	
46 47	At locations where gaps between steel surfaces exceed ¼ inch, the Contractor shall
47 48	clean and prepare the gap in accordance SSPC-SP6, apply the rust penetrating sealer, apply the prime coat, and then fill the gap with foam backer rod material as accepted by
40 49	the Engineer. The foam backer rod material shall be of sufficient diameter to fill the
49 50	crevice or gap. The Contractor shall apply caulk over the foam backer rod material to
51	form a watertight seal.
52	
53	This section is supplemented with the following new paragraph:
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1	.		
2	Caulk and backer rod, if needed, shall be placed prior to applying the top coat. The		
3	Contractor, with the concurrence of the Engineer, may apply the ru		
4	after application of the prime coat provided the primer is removed		
5	sealed. The areas to be sealed shall be re-cleaned and re-prepare	ed in accordance with	
6	SSPC-SP6.		
7			
8	6-07.3(10)H Paint System		
9	The first paragraph is revised to read:		
10			
11	The paint system applied to existing steel surfaces shall consist of	the following five-coat	
12	system:		
13			
14	Option 1 (component based system):		
15			
16	Primer Coat – Zinc-filled Moisture Cured Polyurethane	9-08.1(2)F	
17	Primer Stripe Coat - Moisture Cured Polyurethane	9-08.1(2)F	
18	Intermediate Coat - Moisture Cured Polyurethane	9-08.1(2)G	
19	Intermediate Stripe Coat - Moisture Cured Polyurethane	9-08.1(2)G	
20	Top Coat - Moisture Cured Polyurethane	9-08.1(2)H	
21			
22	Option 2 (performance based system):		
23			
24	Primer Coat – Zinc-rich Epoxy	9-08.1(2)N	
25	Primer Stripe Coat – Epoxy	9-08.1(2)N	
26	Intermediate Coat – Epoxy	9-08.1(2)N	
27	Intermediate Stripe Coat – Epoxy	9-08.1(2)N	
28	Top Coat – Polyurethane	9-08.1(2)N	
29	The following new persons is incerted often the first newspaper.		
30 31	The following new paragraph is inserted after the first paragraph:		
31	Paints and related materials shall be a product listed in the current		
33	Products List (QPL). Component based paint systems shall be list		
34	applicable sections of Section 9-08. Performance based systems		
35	current Northeast Protective Coatings Committee (NEPCOAT) Qu		
36	"B" as listed on the WSDOT QPL in Section 9-08.1(2)N. If the pair		
37	for the component based system is not listed in the current WSDC		
38	be submitted to the State Materials Laboratory in Turnwater for ev		
39	acceptance in accordance with Section 9-08.		
40			
41	6-07.3(10)J Mixing and Thinning Paint		
42	This section is revised to read:		
43			
44	Mixing and thinning paint shall be in accordance with Section 6-07	(3(9)C	
45			
46	6-07.3(10)K Coating Thickness		
47	This section is revised to read:		
48			
49	Coating thickness shall be in accordance with Section 6-07.3(9)D	except the minimum	
50	dry film thickness of each coat (combination of primer and primer		
51	intermediate and intermediate stripe, and top) shall not be less that		
52			

6-07.3(10)L Environmental Condition Requirements Prior to Application of 1

2 Paint 3

This section is revised to read:

Environmental conditions shall be in accordance with Section 6-07.3(9)E.

6-07.3(10)M Steel Surface Condition Requirements Prior to Application of Paint

The third paragraph is revised to read:

- Edges of existing paint shall be feathered in accordance with SSPC-PA 1, Shop, Field, and Maintenance Coating of Metals, Note 15.20.
- 11 12

4 5

6 7

8

9 10

13 6-07.3(10)N Field Coating Application Methods

14 The third sentence is revised to read:

- 15 16 The Contractor may apply stripe coat paint using spray or brush but shall follow spray 17 application using a brush to ensure complete coverage around structural geometric 18 irregularities and to push the paint into gaps between existing steel surfaces and around 19 rivets and bolts.
- 20

25

27

28

21 6-07.3(10)O Applying Field Coatings

- 22 The second to last paragraph is revised to read: 23
- 24 Each application of primer, primer stripe, intermediate, intermediate stripe, and top coat shall be considered as separately applied coats. The Contractor shall not use a 26 preceding or subsequent coat to remedy a deficiency in another coat. The Contractor shall apply the top coat to at least the minimum specified top coat thickness, to provide a uniform appearance and consistent finish coverage.

29 30 6-07.3(10)P Field Coating Repair

- 31 The second sentence is revised to read:
- 32 33

34

Repair areas shall be cleaned of all damaged paint and the system reapplied using all coats typical to the paint system and shall meet the minimum coating thickness.

35 36 6-07.3(11)A Painting of Galvanized Surfaces

37 This section is revised to read:

38

39 All galvanized surfaces receiving paint shall be prepared for painting in accordance with 40 the ASTM D 6386. The method of preparation shall be brush-off in accordance with 41 SSPC-SP16 Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, 42 Stainless Steels, and Non-Ferrous Metals or as otherwise allowed by the Engineer. The 43 Contractor shall not begin painting until receiving the Engineer's acceptance of the 44 prepared galvanized surface. For galvanized bolts used for replacement of deteriorated 45 existing rivets, the Contractor, with the concurrence of the Engineer and after successful 46 demonstration testing, may prepare galvanized surfaces in accordance with SSPC-SP1 47 followed by SSPC-SP2, Hand Tool Cleaning or SSPC-SP3, Power Tool Cleaning. The 48 demonstration testing shall include adhesion testing of the first coat of paint over 49 galvanized bolts, nuts, and washers or a representative galvanized surface. Adhesion 50 testing shall be performed in accordance with ASTM D 4541 for 600 psi minimum 51 adhesion. A minimum of 3 successful tests shall be performed on the galvanized surface

1 2		ed and painted using the same methods and materials to be used on zed bolts, nuts and washers in the field.	the			
3	•					
4	6-07.3(11)A2 Paint Coat Materials					
5	This section is revised to read:					
6 7	The Contractor shall paint the dry surface as follows:					
8						
9	1.					
10		conforming to Section 9-08.1(2)E . In the case of galvanized bolts				
11 12		replacement of deteriorated existing rivets and for small surface ar				
12		than or equal to one square foot, an intermediate moisture cured p conforming to Section 9-08.1(2)G may be used as a first coat. In the				
14		the first coat shall be compatible with galvanizing and as recomme				
15		top coat manufacturer.	,			
16						
17	2.	· · · · · · · · · · · · · · · · · · ·				
18		conforming to Section 9-08.1(2)H or a top coat polyurethane confo				
19 20		Section 6-07.3(10)H Option 2 NEPCOAT performance based pain specification compatible with the first coat as recommended by the				
20		manufacturer.	;			
22						
23	Each co	oat shall be dry before the next coat is applied. All coats applied in th	e shop shall			
24	be dried	d hard before shipment.				
25						
26		B Powder Coating of Galvanized Surfaces				
27 28	This section	n is revised to read:				
20 29	Powder	r coating of galvanized surfaces shall consist of the following coats:				
30						
31	1.		Section 9-			
32		08.2.				
33 34	2	The accord cost shall be a polyester finish cost conforming to Cos	tion 0.09.2			
34 35	2.	The second coat shall be a polyester finish coat conforming to Sec	:11011 9-06.2.			
36	6-07.3(11)E	B3 Galvanized Surface Cleaning and Preparation				
37	• • •	ee paragraphs are revised to read:				
38						
39		ized surfaces receiving the powder coating shall be cleaned and pre				
40	coating	in accordance with ASTM D 7803, and the project-specific powder of	coating plan.			
41 42	Assomb	blies conforming to the ASTM D 7803 definition for newly galyanized	stool shall			
42 43		blies conforming to the ASTM D 7803 definition for newly galvanized surface smoothing and surface cleaning in accordance with ASTM I				
44		5, and surface preparation in accordance with ASTM D 7803, Section				
45		· · , ···· · ······ · ····· · ····· · ····· ·				
46	Assemb	blies conforming to the ASTM D 7803 definition for partially weathered	ed galvanized			
47		nall be checked and prepared in accordance with ASTM D 7803, Sec				
48	before then receiving surface smoothing and surface cleaning in accordance with ASTM					
49 50	D 7803, 5.1.3.	, Section 5, and surface preparation in accordance with ASTM D 780	JS, SECTION			
50 51	5.1.5.					
52	The fourth p	paragraph (up until the colon) is revised to read:				
53						
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1 2 3 4 5 6	 shall be prepared in accordance with ASTM D 7803, Section 7 before then receiving surface smoothing and surface cleaning in accordance with ASTM D 7803, Section 				
7	6-07.3(11)B5 Testing				
8	Item number 4 in the first paragraph is revised to read:				
9					
10 11 12	 Adhesion testing in accordance with ASTM D 4541 for 600 psi minimum adhes for the complete two-component system. 	ion			
13 14	The second sentence of the fourth paragraph is revised to read:				
15 16	Rejected assemblies shall be repaired or recoated by the Contractor, at no additional expense to the Contracting Agency, in accordance with the powder coating				
17 18 19	manufacturer's recommendation as detailed in the project-specific powder coating until the assemblies satisfy the acceptance testing requirements.	olan,			
20	6-07.3(12) Painting Ferry Terminal Structures				
20 21	This section is revised to read:				
22					
23	Painting of ferry terminal Structures shall be in accordance with Section 6-07.3 as				
24	supplemented below.				
25					
26	This section is supplemented with the following new subsections:				
27					
28	6-07.3(12)A Painting New Steel Ferry Terminal Structures				
29	Painting of new steel Structures shall be in accordance with Section 6-07.3(9) exce				
30	that all coatings (primer, intermediate, intermediate stripe, and top) shall be applied	IN			
31 32	the shop with the following exceptions:				
32 33	1. Steel surfaces to be field welded.				
33 34	1. Steel surfaces to be field welded.				
35	2. Steel surfaces to be greased.				
36					
37	3. The length of piles designated in the Plans not requiring painting.				
38					
39	The minimum drying time between coats shall be as shown in the product data she	ets.			
40	but not less than 12 hours. The Contractor shall determine whether the paint has cured				
41	sufficiently for proper application of succeeding coats.				
42					
43	6-07.3(12)A1 Paint Systems				
44	Paint systems for Structural Steel, which includes vehicle transfer spans and				
45	towers, pedestrian overhead loading structures and towers, upland structural s				
46	and other elements as designated in the Special Provisions shall be as specific	ed in			
47	Section 6-07.3(9)A.				
48	Deint eustenne fan Dillen, Landing, Aide and Life Laddens ak ell he as an eified in				
49 50	Paint systems for Piling, Landing Aids and Life Ladders shall be as specified in	ine			
50 51	Special Provisions.				
51 52	6.07.3(12) A2 Paint Color				
52 53	6-07.3(12)A2 Paint Color Paint colors shall be as specified in the Special Provisions.				
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6-07.3(12)A3 Coating Thickness

Coating thicknesses shall be as specified in the Special Provisions.

6-07.3(12)A4 Application of Field Coatings

An on-site supervisor shall be present for each work shift at the project site.

Upon completion of erection Work, all uncoated or damaged areas remaining, including bolts, nuts, washers, splice plates, and field welds shall be prepared in accordance with SSPC-SP 1, Solvent Cleaning, followed by SSPC-SP 11, *Power Tool Cleaning to Bare Metal*. Surface preparation shall be measured according to SSPC-VIS 3. SSPC-SP 11 shall be performed for a minimum distance of 1 inch from the uncoated or damaged area. In addition, intact shop-applied coating surrounding the area shall be abraded or sanded for a distance of 6 inches out from the properly prepared clean/bare metal areas to provide adequate roughness for application of field coatings. All sanding dust and contamination shall be removed prior to application of field coatings.

- Field applied paint for Structural Steel shall conform to Section 6-07.3(10)H, as
 applicable. Field applied paint for Piling, Landing Aids and Life Ladders shall be as
 specified in the Special Provisions.
- For areas above the tidal zone, the minimum drying time between coats shall be as shown in the product data sheets, but not less than 12 hours. For areas within the tidal zone, the minimum drying time between coats shall be as recommended by the paint system manufacturer. The Contractor shall determine whether the paint has cured sufficiently for proper application of succeeding coats.
- The maximum time between intermediate and top coats shall be in accordance with the manufacturer's written recommendations. If the maximum time between coats is exceeded, all newly coated surfaces shall be prepared to SSPC-SP 3, *Power Tool Cleaning*, and shall be repainted with the same paint that was cleaned, at no additional cost to the Contracting Agency.
- Each coat shall be applied in a uniform layer, completely covering the preceding coat. The Contractor shall correct runs, sags, skips, or other deficiencies before application of succeeding coats. Such corrective work may require re-cleaning, application of additional paint, or other means as determined by the Engineer, at no additional cost to the Contracting Agency.
- Surface preparation for underwater locations shall consist of removing all dirt, oil,
 grease, loose paint, loose rust, and marine growth from the area that is to be
 repaired. The sound paint surrounding the damaged area shall be roughened to
 meet the requirements of the manufacturer. Paint for underwater applications shall
 be as specified in the Special Provisions and shall be applied in accordance with
 the manufacturer's recommendations.
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6-07.3(12)B Painting Existing Steel Ferry Terminal Structures

Painting of existing steel structures shall be in accordance with Section 6-07.3(10) as
 supplemented by the following.

1 2 3 4	6-07.3(12)B1 Containment Containment for full removal shall be in accordance with Section 6-07.3(10)A. Containment for overcoat systems shall be in accordance with all applicable Permits as required in the Special Provisions.		
5 6 7 8 9 10	Prior to cleaning the Contractor shall enclose all exposed electrical and mechanical equipment to seal out dust, water, and paint. Non-metallic surfaces shall not be abrasive blasted or painted. Unless otherwise specified, the following metallic surfaces shall not be painted and shall be protected from abrasive blasting and painting:		
11 12	 Galvanized and stainless steel surfaces not previously painted, 		
13			
14	2. Non-skid surfaces,		
15 16	2 Uppointed intentionally groaped surfaces		
17	3. Unpainted intentionally greased surfaces,		
18	4. Equipment labels, identification plates, tags, etc.,		
19	E Fire and emergency containers as house		
20 21	5. Fire and emergency containers or boxes,		
22	6. Mechanical hardware such as hoist sheaves, hydraulic cylinders, gear		
23	boxes, wire rope, etc.		
24 25	The Contractor shall submit a Type 2 Working Drawing consisting of materials and		
23 26	The Contractor shall submit a Type 2 Working Drawing consisting of materials and equipment used to shield components specified to not be cleaned and painted.		
27	The Contractor shall shut off the power prior to working around electrical		
28	equipment. The Contractor shall follow the lock-out/tag-out safety provisions of the		
29	WAC 296-803 and all other applicable safety standards.		
30 31	6-07.3(12)B2 Surface Preparation		
32	For applications above high water and within the tidal zone, surface preparation for		
33	overcoat painting shall be in accordance with SSPC-SP 1, Solvent Cleaning,		
34	followed by SSPC-SP 3, <i>Power Tool Cleaning</i> . Use of wire brushes is not allowed.		
35 36	After SP 3 cleaning has been completed all surfaces exhibiting coating failure down to the steel substrate, and those exhibiting visible corrosion, shall be prepared down		
37	to clean bare steel in accordance with SSPC-SP 15, Commercial Grade <i>Power</i>		
38	Tool Cleaning. Surface preparation shall be measured according to SSPC-VIS 3.		
39	SSPC-SP 15 shall be performed for a minimum distance of 1 inch from the area		
40 41	exhibiting failure or visible corrosion. In addition, intact shop-applied coating surrounding the repair area shall be abraded or sanded for a distance of 6 inches		
42	out from the properly prepared clean/bare metal areas to provide adequate		
43	roughness for application of repair coatings. All sanding dust and contamination		
44	shall be removed prior to application of repair coatings. Surface preparation for full		
45 46	paint removal shall be in accordance with Section 6-07.3(10)E except SSPC-SP 11 will be permitted as detailed in the Contractor's painting plan and as allowed by the		
47	Engineer.		
48			
49 50	Surface preparation for underwater locations shall consist of removing all dirt, oil, grease, loose paint, loose rust, and marine growth from the area that is to be		
51	repaired. The sound paint surrounding the damaged area shall be roughened as		
52	required by the coating manufacturer.		
53			

City of Lynnwood 2019 Overlay and Curb Ramp Project Removed marine growth may be released to state waters provided the marine growth is not mixed with contaminants (paint, oil, rust, etc.) and it shall not accumulate on the sea bed. All marine growth containing contaminants shall be collected for proper disposal.

Surface preparation for the underside of bridge decks (consisting of either a steel grid system of main bars or tees and a light gauge metal form, in-filled with concrete or a corrugated light gauge metal form, infilled with concrete) shall be in accordance with SSPC-SP 2, *Hand Tool Cleaning* or SSPC-SP 3, *Power Tool Cleaning* with the intent of not causing further damage to the light gauge metal form. Following removal of any pack rust and corroded sections from the underside of the bridge deck, cleaning and flushing to remove salts and prior to applying the primer coat, the Contractor shall seal the entire underside of the deck system with rust-penetrating sealer. Damage to galvanized metal forms and/or grids shall be repaired in accordance with ASTM A 780, with the preferred method of repair using paints containing zinc dust.

18 6-07.3(12)B3 Paint Systems

Paints systems for Structural Steel, which includes vehicle transfer spans and
 towers, pedestrian overhead loading structures and towers, upland structural steel
 and other elements as designated in the Special Provisions shall be as specified in
 Section 6-07.3(10)H.

Paint systems for Piling, Landing Aids, Life Ladders, underside of vehicle transfer
span bridge decks, non-skid surface treated areas, and anti-graffiti coatings shall be
as specified in the Special Provisions.

6-07.3(12)B4 Paint Color

Paint colors shall be as specified in the Special Provisions.

6-07.3(12)B5 Coating Thickness

Coating thicknesses shall be as specified in the Special Provisions.

6-07.3(12)B6 Application of Field Coatings

Application of field coatings shall be in accordance with Section 6-07.3(10)O and Section 6-07.3(12)A2 except for the following:

- 1. All coatings applied in the field shall be applied using a brush or roller. Spray application methods may be used if allowed by the Engineer.
- 2. Applied coatings shall not be immersed until the coating has been cured as required by the coating manufacturer.
- 3. Non-skid surface treatment products shall be applied in accordance with the manufacturer's recommendations.
- 4. Anti-graffiti coatings shall be applied in one coat following application of the top coat, where specified in the Plans.

50 6-07.3(14)B Reference Standards

51 The second standard reference (to SSPC CS 23.00), and its accompanying title, is revised to 52 read:

1 SSPC CS 23.00 Specification for the Application of Thermal Spray Coatings 2 (Metallizing) of Aluminum, Zinc, and Their Alloys and 3 Composites for the Corrosion Protection of Steel 4 5 Section 6-08, Bituminous Surfacing on Structure Decks 6 January 7, 2019 7 6-08.3(7)A Concrete Deck Preparation 8 The first sentence of the first paragraph is revised to read: 9 10 The Contractor, with the Engineer, shall inspect the exposed concrete deck to establish 11 the extent of bridge deck repair in accordance with Section 6-09.3(6). 12 13 6-08.3(8) A Structure Deck Preparation 14 The second sentence of the last paragraph is revised to read: 15 16 Prior to applying the primer or sheet membrane, all dust and loose material shall be removed from the Structure Deck. 17 18 19 Section 6-09, Modified Concrete Overlays January 7, 2019 20 21 6-09.3 Construction Requirements 22 This section is supplemented with the following new subsection: 23 24 6-09.3(15) Sealing and Texturing Concrete Overlay 25 After the requirements for checking for bond have been met, all joints and visible cracks 26 shall be filled and sealed with a high molecular weight methacrylate resin (HMWM). 27 Cracks 1/16 inch and greater in width shall receive two applications of HMWM. 28 Immediately following the application of HMWM, the wetted surface shall be coated with sand for abrasive finish. 29 30 31 After all cracks have been filled and sealed and the HMWM resin has cured, the 32 concrete overlay surface shall receive a longitudinally sawn texture in accordance with 33 Section 6-02.3(10)D5. 34 35 Traffic shall not be permitted on the finished concrete until it has reached a minimum 36 compressive strength of 3,000 psi as verified by rebound number determined in 37 accordance with ASTM C805 and the longitudinally sawn texture is completed. 38 39 6-09.3(1)B Rotary Milling Machines 40 This section is revised to read: 41 42 Rotary milling machines used to remove an upper layer of existing concrete overlay, 43 when present, shall have a maximum operating weight of 50,000 pounds and conform to 44 Section 6-08.3(5)B. 45 46 6-09.3(1)C Hydro-Demolition Machines 47 The first sentence of this section is revised to read: 48 49 Hydro-demolition machines shall consist of filtering and pumping units operating in 50 conjunction with a remote-controlled robotic device, using high-velocity water jets to

1 remove sound concrete to the nominal scarification depth shown in the Plans with a 2 single pass of the machine, and with the simultaneous removal of deteriorated concrete. 3 4 6-09.3(1)D Shot Blasting Machines 5 This section, including title, is revised to read: 6 7 6-09.3(1)D Vacant 8 9 6-09.3(1)E Air Compressor 10 This section is revised to read: 11 12 Air compressors shall be equipped with oil traps to eliminate oil from being blown onto 13 the bridge deck. 14 15 6-09.3(1) J Finishing Machine 16 This section is revised to read: 17 18 The finishing machine shall meet the requirements of Section 6-02.3(10) and the 19 following requirements: 20 21 The finishing machine shall be equipped with augers, followed by an oscillating, 22 vibrating screed, vibrating roller tamper, or a vibrating pan, followed by a rotating 23 cylindrical double drum screed. The vibrating screed, roller tamper or pan shall be 24 of sufficient length and width to properly consolidate the mixture. The vibrating 25 frequency of the vibrating screed, roller tamper or pan shall be variable with positive 26 control. 27 28 6-09.3(2) Submittals 29 Item number 1 and 2 are revised to read: 30 31 A Type 1 Working Drawing consisting of catalog cuts and operating parameters of 1. 32 the hydro-demolition machine selected by the Contractor for use in this project to 33 scarify concrete surfaces. 34 35 2. A Type 1 Working Drawing consisting of catalog cuts, operating parameters, axle loads, and axle spacing of the rotary milling machine (if used to remove an upper 36 37 layer of existing concrete overlay when present). 38 39 The first sentence of item number 3 is revised to read: 40 41 A Type 2 Working Drawing of the Runoff Water Disposal Plan. 42 43 6-09.3(5)A General 44 The first sentence of the fourth paragraph is revised to read: 45 46 All areas of the deck that are inaccessible to the selected scarifying machine shall be 47 scarified to remove the concrete surface matrix to a maximum nominal scarification 48 depth shown in the Plans by a method acceptable to the Engineer. 49 50 This section is supplemented with the following: 51

1 2 3 4 5	Concrete process water generated by scarifying concrete surface and removing existing concrete overlay operations shall be contained, collected, and disposed of in accordance with Section 5-01.3(11) and Section 6-09.3(5)C, and the Section 6-09.3(2) Runoff Water Disposal Plan.
5 6 7 8	6-09.3(5)B Testing of Hydro-Demolition and Shot Blasting Machines This section's title is revised to read:
8 9 10	Testing of Hydro-Demolition Machines
10 11 12	The second paragraph is revised to read:
13 14 15	In the "sound" area of concrete, the equipment shall be programmed to remove concrete to the nominal scarification depth shown in the Plans with a single pass of the machine.
16 17	6-09.3(5)D Shot Blasting This section, including title, is revised to read:
18 19 20	6-09.3(5)D Vacant
20 21 22 23	6-09.3(5)E Rotomilling This section, including title, is revised to read:
24 25 26 27 28 29 30	6-09.3(5)E Removing Existing Concrete Overlay Layer by Rotomilling When the Contractor elects to remove the upper layer of existing concrete overlay, when present, by rotomilling prior to final scarifying, the entire concrete surface of the bridge deck shall be milled to remove the surface matrix to the depth specified in the Plans with a tolerance as specified in Section 6-08.3(5)B. The operating parameters of the rotary milling machine shall be monitored in order to prevent the unnecessary removal of concrete below the specified removal depth.
31 32 33 34	6-09.3(6) Further Deck Preparation The first paragraph is revised to read::
35 36 37 38	Once the lane or strip being overlaid has been cleaned of debris from scarifying, the Contractor, with the Engineer, shall perform a visual inspection of the scarified surface. The Contractor shall mark those areas of the existing bridge deck that are authorized by the Engineer for further deck preparation by the Contractor.
39 40 41	Item number 4 of the second paragraph is deleted.
41 42 43	The first sentence of the third paragraph is deleted.
44 45 46	6-09.3(6)A Equipment for Further Deck Preparation This section is revised to read:
40 47 48 49 50	Further deck preparation shall be performed using either power driven hand tools conforming to Section 6-09.3(1)A, or hydro-demolition machines conforming to Section 6-09.3(1)C.
50 51 52	6-09.3(6)B Deck Repair Preparation The second paragraph is deleted.
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- The last sentence of the second paragraph (after the preceding Amendment is applied) is
 revised to read:
 - In no case shall the depth of a sawn vertical cut exceed $\frac{3}{4}$ inch or to the top of the top steel reinforcing bars, whichever is less.
 - The first sentence of the third to last paragraph is revised to read:

Where existing steel reinforcing bars inside deck repair areas show deterioration greater than 20-percent section loss, the Contractor shall furnish and place steel reinforcing bars alongside the deteriorated bars in accordance with the details shown in the Standard Plans.

15 The last paragraph is deleted.

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17 **6-09.3(7)** Surface Preparation for Concrete Overlay

- 18 The first seven paragraphs are deleted and replaced with the following:
- Following the completion of any required further deck preparation the entire lane or strip being overlaid shall be cleaned to be free from oil and grease, rust and other foreign material that may still be present. These materials shall be removed by detergentcleaning or other method accepted by the Engineer followed by sandblasting.
- After detergent cleaning and sandblasting is completed, the entire lane or strip being
 overlaid shall be cleaned in final preparation for placing concrete.
- Hand tool chipping, sandblasting and cleaning in areas adjacent to a lane or strip being
 cleaned in final preparation for placing concrete shall be discontinued when final
 preparation is begun. Scarifying and hand tool chipping shall remain suspended until the
 concrete has been placed and the requirement for curing time has been satisfied.
 Sandblasting and cleaning shall remain suspended for the first 24 hours of curing time
 after the completion of concrete placing.
- 35 Scarification, and removal of the upper layer of concrete overlay when present, may 36 proceed during the final cleaning and overlay placement phases of the Work on adjacent 37 portions of the Structure so long as the scarification and concrete overlay removal 38 operations are confined to areas which are a minimum of 100 feet away from the defined 39 limits of the final cleaning or overlay placement in progress. If the scarification and 40 concrete overlay removal impedes or interferes in any way with the final cleaning or 41 overlay placement as determined by the Engineer, the scarification and concrete overlay 42 removal Work shall be terminated immediately and the scarification and concrete 43 overlay removal equipment removed sufficiently away from the area being prepared or 44 overlaid to eliminate the conflict. If the grade is such that water and contaminants from 45 the scarification and concrete overlay removal operation will flow into the area being 46 prepared or overlaid, the scarification and concrete overlay removal operation shall be 47 terminated and shall remain suspended for the first 24 hours of curing time after the 48 completion of concrete placement.
- 49

50 6-09.3(11) Placing Concrete Overlay

- 51 The first sentence of item number 3 in the fourth paragraph is revised to read:
- 52

1 2 3 4	Concrete shall not be placed when the temperature of the concrete surface is less than 45°F or greater than 75°F, and wind velocity at the construction site is in excess of 10 mph.
5 6	6-09.3(12) Finishing Concrete Overlay The third paragraph is deleted.
7 8 9	The last paragraph is deleted.
10 11	6-09.3(13) Curing Concrete Overlay The first sentence of the first paragraph is revised to read:
12 13 14	As the finishing operation progresses, the concrete shall be immediately covered with a single layer of clean, new or used, wet burlap.
15 16	The last sentence of the second paragraph is deleted.
17 18 19	The following two new paragraphs are inserted after the second paragraph:
20 21 22 23 24 25	As an alternative to the application of burlap and fog spraying described above, the Contractor may propose a curing system using proprietary curing blankets specifically manufactured for bridge deck curing. The Contractor shall submit a Type 2 Working Drawing consisting of details of the proprietary curing blanket system, including product literature and details of how the system is to be installed and maintained.
25 26 27	The wet curing regimen as described shall remain in place for a minimum of 42-hours.
28 29	The last paragraph is deleted.
30 31 32	6-09.3(14) Checking for Bond The first sentence of the first paragraph is revised to read:
33 34 35 36	After the requirements for curing have been met, the entire overlaid surface shall be sounded by the Contractor, in a manner accepted by and in the presence of the Engineer, to ensure total bond of the concrete to the bridge deck.
37 38	The last sentence of the first paragraph is deleted.
39 40	The second paragraph is deleted.
41 42	Section 6-10, Concrete Barrier August 6, 2018
43 44	6-10.2 Materials In the first paragraph, the reference to "Portland Cement" is revised to read:
45 46 47	Cement 9-01
47 48 49 50	6-10.3(6) Placing Concrete Barrier The first two sentences of the first paragraph are revised to read:

Precast concrete barriers Type 2, Type 4, Type F, precast single slope barrier, and
 transitions shall rest on a paved foundation shaped to a uniform grade and section. The
 foundation surface for precast concrete barriers Type 2, Type 4, Type F, precast single
 slope barrier, and transitions shall meet this test for uniformity: When a 10-foot
 straightedge is placed on the surface parallel to the centerline for the barrier, the surface
 shall not vary more than ¼ inch from the lower edge of the straightedge.

- 78 Section 6-11, Reinforced Concrete Walls
- 9 April 2, 2018

10 6-11.2 Materials

11 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised12 to read:

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Aggregates for Concrete 9-03.1

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16 Section 6-12, Noise Barrier Walls

17 August 6, 2018

18 **6-12.2 Materials**

In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised
to read:

Aggregates for Concrete 9-03.1

The first paragraph is supplemented with the following new material reference:

Noise Barrier Wall Access Door 9-06.17

28 6-12.3(9) Access Doors and Concrete Landing Pads

The second paragraph is deleted and replaced with the following: 30

All frame and door surfaces, except stainless steel surfaces, shall be painted in accordance with Section 6-07.3(9). Primer shall be applied to all non-stainless steel surfaces. All primer coated exposed metal surfaces shall be field painted with the remaining Section 6-07.3(9)A paint system coats. The top coat, when dry, shall match the color specified in the Plans or Special Provisions.

37 This section is supplemented with the following:

Access door deadbolt locks shall be capable of accepting a Best CX series core. The
Contractor shall furnish and install a spring-loaded construction core lock with each lock.
The Engineer will furnish the permanent Best CX series core for the Contractor to install
at the conclusion of the project.

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44 Section 6-13, Structural Earth Walls

45 August 6, 2018

46 **6-13.2 Materials**

- 47 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised
- 48 to read: 49

- 1 Aggregates for Concrete 9-03.1 2 3 6-13.3(4) Precast Concrete Facing Panel and Concrete Block Fabrication 4 Item number 1 of the sixth paragraph is revised to read: 5 6 1. Vertical dimensions shall be $\pm \frac{1}{16}$ inch of the Plan dimension, and the rear height 7 shall not exceed the front height. 8 9 Item number 3 of the sixth paragraph is revised to read: 10 11 3. All other dimensions shall be $\pm \frac{1}{4}$ inch of the Plan dimension. 12 13 Section 6-14, Geosynthetic Retaining Walls 14 April 2, 2018 15 6-14.2 Materials 16 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland Cement Concrete" are revised to read: 17 18 19 Cement 9-01 20 Aggregates for Concrete 9-03.1 21 22 Section 6-15, Soil Nail Walls 23 January 7, 2019 24 6-15.3(7) Shotcrete Facing 25 The last paragraph is supplemented with the following: 26 27 After final tightening of the nut, the threads of the soil nail shall at a minimum be flush 28 with the end of the nut. 29 30 Section 6-16, Soldier Pile and Soldier Pile Tieback Walls 31 April 2, 2018 32 6-16.2 Materials 33 In the first paragraph, the reference to "Aggregates for Portland Cement Concrete" is revised 34 to read: 35 36 Aggregates for Concrete 9-03.1 37 38 Section 6-18, Shotcrete Facing 39 April 1, 2019 40 6-18.2 Materials 41 The reference to metakaolin is deleted. 42 43 6-18.3(3) Testing 44 In the last sentence of the first paragraph, "AASHTO T 24" is revised to read "ASTM C1604". 45 46 6-18.3(3)B Production Testing
- 47 In the last sentence, "AASHTO T 24" is revised to read "ASTM C1604".
- 48

6-18.3(4) Qualifications of Contractor's Personnel 1 2 In the last sentence of the second paragraph, "AASHTO T 24" is revised to read "ASTM 3 C1604". 4 5 Section 6-19, Shafts 6 January 7, 2019 7 6-19.2 Materials 8 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland 9 Cement Concrete" are revised to read: 10 11 Cement 9-01 12 Aggregates for Concrete 9-03.1 13 14 6-19.3(1)A Shaft Construction Tolerances 15 The last paragraph is supplemented with the following: 16 17 The elevation of the top of the reinforcing cage for drilled shafts shall be within +6 inches 18 and -3 inches from the elevation shown in the Plans. 19 20 6-19.3(2)D Nondestructive QA Testing Organization and Personnel 21 Item number 4 in the first paragraph is revised to read: 22 23 Personnel preparing test reports shall be a Professional Engineer, licensed under 4. 24 Title 18 RCW, State of Washington, and shall seal the report in accordance with 25 WAC 196-23-020. 26 27 6-19.3(3)C Conduct of Shaft Casing Installation and Removal and Shaft 28 **Excavation Operations** 29 The first paragraph is supplemented with the following: 30 31 In no case shall shaft excavation and casing placement extend below the bottom of shaft 32 excavation as shown in the Plans. 33 34 6-19.3(6) E Thermal Wire and Thermal Access Point (TAPS) 35 The third sentence of the third paragraph is revised to read: 36 37 The thermal wire shall extend from the bottom of the reinforcement cage to the top of the 38 shaft, with a minimum of 5-feet of slack wire provided above the top of shaft. 39 40 The following new sentence is inserted after the third sentence of the third paragraph: 41 42 All thermal wires in a shaft shall be equal lengths. 43 44 6-19.3(9)D Nondestructive QA Testing Results Submittal 45 The last sentence of the first paragraph is revised to read: 46 47 Results shall be a Type 2E Working Drawing presented in a written report. 48

1 Section 7-02, Culverts

2 April 2, 2018

3 7-02.2 Materials

- 4 In the first paragraph, the references to "Portland Cement" and "Aggregates for Portland 5 Cement Concrete" are revised to read:
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Cement 9-01 Aggregates for Concrete 9-03.1

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10 **7-02.3(6)A4** Excavation and Bedding Preparation

- 11 The first sentence of the third paragraph is revised to read: 12
- The bedding course shall be a 6-inch minimum thickness layer of culvert bedding
 material, defined as granular material either conforming to Section 9-03.12(3) or to
 AASHTO Grading No. 57 as specified in Section 9-03.1(4)C.

17 Section 7-05, Manholes, Inlets, Catch Basins, and Drywells

18 August 6, 2018

19 **7-05.3 Construction Requirements**

- 20 The fourth sentence of the third paragraph is deleted. 21
- 22 Section 7-08, General Pipe Installation Requirements
- 23 April 2, 2018

24 **7-08.3(3)** Backfilling

- 25 The fifth sentence of the fourth paragraph is revised to read:
- 26
- All compaction shall be in accordance with the Compaction Control Test of Section 2-03.3(14)D except in the case that 100% Recycled Concrete Aggregate is used.
- 29
- 30 The following new sentences are inserted after the fifth sentence of the fourth paragraph:
- When 100% Recycled Concrete Aggregate is used, the Contractor may submit a written
 request to use a test point evaluation for compaction acceptance. Test Point evaluation
 shall be performed in accordance with SOP 738.

36 Section 8-01, Erosion Control and Water Pollution Control

37 April 1, 2019

38 8-01.1 Description

- 39 This section is revised to read:
- 40

This Work consists of furnishing, installing, maintaining, removing and disposing of best
 management practices (BMPs), as defined in the Washington Administrative Code
 (WAC) 173-201A, to manage erosion and water quality in accordance with these

- 44 Specifications and as shown in the Plans or as designated by the Engineer.
- 45
 - 46 The Contracting Agency may have a National Pollution Discharge Elimination System
 - 47 Construction Stormwater General Permit (CSWGP) as identified in the Contract Special
 - 48 Provisions. The Contracting Agency may or may not transfer coverage of the CSWGP to

1 the Contractor when a CSWGP has been obtained. The Contracting Agency may not 2 have a CSWGP for the project but may have another water quality related permit as 3 identified in the Contract Special Provisions or the Contracting Agency may not have 4 water quality related permits but the project is subject to applicable laws for the Work. 5 Section 8-01 covers all of these conditions. 6 7 This section is supplemented with the following new subsection: 8 9 8-01.1(1) Definitions 10 pH Affected Stormwater 1. 11 12 Stormwater contacting green concrete (concrete that has set/stiffen but is still a. 13 curing), recycled concrete, or engineered soils (as defined in the Construction 14 Stormwater General Permit (CSWGP)) as a natural process 15 16 pH monitoring shall be performed in accordance with the CSWGP, or Water b. 17 Quality Standards (WQS in accordance with WAC 173-201A (surface) or 173-18 200C (ground)) when the CSWGP does not apply 19 20 May be neutralized and discharged to surface waters or infiltrated C. 21 22 2. pH Affected Non-Stormwater 23 24 Conditionally authorized in accordance with CSWGP Special Condition S.1.C., a. 25 uncontaminated water contacting green concrete, recycled concrete, or 26 engineered soils (as defined in the CSWGP) 27 28 Shall not be categorized as cementitious wastewater/concrete wastewater, as b. 29 defined below 30 31 Shall be managed and treated in accordance with the CSWGP, or WQS when C. 32 the CSWGP does not apply 33 34 pH adjustment and dechlorination may be necessary, as specified in the d. 35 CSWGP or in accordance with WQS when the CSWGP does not apply 36 37 May be neutralized, treated, and discharged to surface waters in accordance e. 38 with the CSWGP, with the exception of water-only shaft drilling slurry. Water-39 only shaft drilling slurry may be treated, neutralized, and infiltrated but not 40 discharged to surface waters (Refer to Special Conditions S1.C. Authorized 41 Discharges and S1.d Prohibited Discharges of the CSWGP) 42 43 3. **Cementitious Wastewater/Concrete Wastewater** 44 45 Any water that comes into contact with fine cementitious particles or slurry; any a. 46 water used in the production, placement and/or clean-up of cementitious 47 products; any water used to cut, grind, wash, or otherwise modify cementitious 48 products 49 50 When any water, including stormwater, commingles with cementitious b. 51 wastewater/concrete wastewater, the resulting water is considered 52 cementitious wastewater/concrete wastewater and shall be managed to 53 prevent discharge to waters of the State, including ground water

1				
2	c. CSWGP Examples include: water used for or resulting from concrete			
3	truck/mixer/pumper/tool/chute rinsing or washing, concrete saw cutting and			
4	surfacing (sawing, coring, grinding, roughening, hydro-demolition, bridge and			
5	road surfacing)			
6				
7	 Cannot be neutralized and discharged or infiltrated 			
8				
9	8-01.2 Materials			
10	The first paragraph is revised to read:			
11				
12	Materials shall meet the requirements of the following sections:			
13				
14	Corrugated Polyethylene Drain Pipe 9-05.1(6)			
15	Quarry Spalls and Permeable Ballast 9-13			
16	Erosion Control and Roadside Planting 9-14			
17	Construction Geotextile 9-33			
18				
19	The second paragraph is deleted.			
20				
21	8-01.3(1) General			
22	This section is revised to read:			
$\frac{-2}{23}$				
24	Adaptive management shall be employed throughout the duration of the project for the			
25	implementation of erosion and water pollution control permit requirements for the current			
26	condition of the project site. The adaptive management includes the selection and			
27	utilization of BMPs, scheduling of activities, prohibiting unacceptable practices,			
28	implementing maintenance procedures, and other managerial practices that when used			
29	singularly or in combination, prevent or reduce the release of pollutants to waters of the			
30	State. The adaptive management shall use the means and methods identified in this			
31	section and means and methods identified in the Washington State Department of			
32	Transportation's Temporary Erosion and Sediment Control Manual or the Washington			
33	State Department of Ecology's Stormwater Management Manuals for construction			
34	stormwater.			
35	Stornwater.			
36	The Contractor shall install a high visibility fence along the lines shown in the Plans or as			
37	instructed by the Engineer.			
38				
39	Throughout the life of the project, the Contractor shall preserve and protect the			
40	delineated preservation area, acting immediately to repair or restore any high visibility			
40	fencing damaged or removed.			
41				
	All discharges to surface waters shall comply with surface water quality standards as			
43 44	All discharges to surface waters shall comply with surface water quality standards as defined in Washington Administrative Code (WAC) Chapter 173-201A. All discharges to			
44 45				
	groundwater shall comply with groundwater quality standards WAC Chapter 173-200.			
46 47	The Contractor shall comply with the CSWGP when the project is covered by the			
47 48	CSWGP.			
48	Mark at a minimum, aball include the implementation of			
49 50	Work, at a minimum, shall include the implementation of:			
50				
51	1. Sediment control measures prior to ground disturbing activities to ensure all			
52	discharges from construction areas receive treatment prior to discharging from			
53	the site.			
	City of Lynnwood May 2019			

1		
2	2.	Flow control measures to prevent erosive flows from developing.
3		
4	3.	Water management strategies and pollution prevention measures to prevent
5		contamination of waters that will be discharged to surface waters or the ground.
6		
7	4.	Erosion control measures to stabilize erodible earth not being worked.
8		
9	5.	Maintenance of BMPs to ensure continued compliant performance.
10		
11	6.	Immediate corrective action if evidence suggests construction activity is not in
12		compliance. Evidence includes sampling data, olfactory or visual evidence
13		such as the presence of suspended sediment, turbidity, discoloration, or oil
14		sheen in discharges.
15		
16		egree possible, the Contractor shall coordinate this Work with permanent
17	drainage	e and roadside restoration Work the Contract requires.
18		
19	-	, grubbing, excavation, borrow, or fill within the Right of Way shall never expose
20	more ere	odible earth than as listed below:
21		

Western Washington (West of the Cascade Mountain Crest)		Eastern Washington (East of the Cascade Mountain Crest)		
May 1 through September 30	17 Acres	April 1 through October 31	17 Acres	
October 1 through April 30	5 Acres	November 1 through March 31	5 Acres	

22 23

The Engineer may increase or decrease the limits based on project conditions.

24 25

Erodible earth is defined as any surface where soils, grindings, or other materials may
 be capable of being displaced and transported by rain, wind, or surface water runoff.

Erodible earth not being worked, whether at final grade or not, shall be covered within
the specified time period (see the table below), using BMPs for erosion control.

Western Washington (West of the Cascade Mountain Crest)		Eastern Washington (East of the Cascade Mountain Crest)		
October 1 through April 30	2 days maximum	October 1 through June 30	5 days maximum	
May 1 to September 30	7 days maximum	November 1 through March 31	10 days maximum	

31

32 When applicable, the Contractor shall be responsible for all Work required for

33 compliance with the CSWGP including annual permit fees.

- 34
- If the Engineer, under Section 1-08.6, orders the Work suspended, the Contractor shall
 continue to comply with this division during the suspension.

1 2 8-01.3(1)A Submittals

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- 3 This section's content is deleted.
 - This section is supplemented with the following new subsection:
 - 8-01.3(1)A1 Temporary Erosion and Sediment Control Plan

8 Temporary Erosion and Sediment Control (TESC) Plans consist of a narrative section 9 and plan sheets that meets the Washington State Department of Ecology's Stormwater 10 Pollution Prevention Plan (SWPPP) requirement in the CSWGP. For projects that do not 11 require a CSWGP but have the potential to discharge to surface waters of the state, an 12 abbreviated TESC plan shall be used, which may consist of a narrative and/or plan 13 sheets and shall demonstrate compliance with applicable codes, ordinances and 14 regulations, including the water guality standards for surface waters; Chapter 173-201A 15 of the Washington Administrative Code (WAC) and water quality standards for 16 groundwaters in accordance with Chapter 173-200 WAC.

- 17 18 The Contractor shall either adopt the TESC Plan in the Contract or develop a new TESC 19 Plan. If the Contractor adopts the TESC Plan in scenarios in which the CSWGP is 20 transferred to the Contractor, the Contractor shall modify the TESC Plan to match the 21 Contractor's schedule, method of construction, and to include all areas that will be used 22 to directly support construction activity such as equipment staging yards, material 23 storage areas, or borrow areas. TESC Plans shall include all high visibility fence shown 24 in the Plans. All TESC Plans shall meet the requirements of the current edition of the 25 WSDOT Temporary Erosion and Sediment Control Manual M 3109 and be adaptively 26 managed throughout construction based on site inspections and required sampling to 27 maintain compliance with the CSWGP, or WQS when no CSWGP applies. The 28 Contractor shall develop a schedule for implementation of the TESC work and 29 incorporate it into the Contractor's progress schedule. 30
- The Contractor shall submit their TESC Plan (either the adopted plan or new plan) as
 Type 2 Working Drawings. At the request of the Engineer, updated TESC Plans shall be
 submitted as Type 1 Working Drawings.

35 8-01.3(1)B Erosion and Sediment Control (ESC) Lead

- 36 This section is revised to read: 37
- The Contractor shall identify the ESC Lead at the preconstruction discussions and in the TESC Plan. The ESC Lead shall have, for the life of the Contract, a current Certificate of Training in Construction Site Erosion and Sediment Control from a course approved by the Washington State Department of Ecology. The ESC Lead must be onsite or on call at all times throughout construction. The ESC Lead shall be listed on the Emergency Contact List required under Section 1-05.13(1).
- The ESC Lead shall implement the TESC Plan. Implementation shall include, but is not
 limited to:
 - 1. Installing, adaptively managing, and maintaining temporary erosion and sediment control BMPs to assure continued performance of their intended function. Damaged or inadequate BMPs shall be corrected immediately.
 - 2. Updating the TESC Plan to reflect current field conditions.
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1 3. Discharge sampling and submitting Discharge Monitoring Reports (DMRs) to 2 the Washington State Department of Ecology in accordance with the CSWGP. 3 4 Develop and maintain the Site Log Book as defined in the CSWGP. When the 4. 5 Site Log Book or portion thereof is electronically developed, the electronic documentation must be accessible onsite. As a part of the Site Log Book, the 6 7 Contractor shall develop and maintain a tracking table to show that identified 8 TESC compliance issues are fully resolved within 10 calendar days. The table 9 shall include the date an issue was identified, a description of how it was 10 resolved, and the date the issue was fully resolved. 11 12 The ESC Lead shall also inspect all areas disturbed by construction activities, all on-site 13 erosion and sediment control BMPs, and all stormwater discharge points at least once 14 every calendar week and within 24-hours of runoff events in which stormwater 15 discharges from the site. Inspections of temporarily stabilized, inactive sites may be 16 reduced to once every calendar month. The Washington State Department of Ecology's 17 Erosion and Sediment Control Site Inspection Form, located at 18 https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-19 permits/Construction-stormwater-permit, shall be completed for each inspection and a 20 copy shall be submitted to the Engineer no later than the end of the next working day 21 following the inspection. 22 23 8-01.3(1)C Water Management 24 This section is supplemented with the following new subsections: 25 26 8-01.3(1)C5 Water Management for In-Water Work Below Ordinary High Water 27 Mark (OHWM) 28 Work over surface waters of the state (defined in WAC 173-201A-010) or below the 29 OHWM (defined in RCW 90.58.030) shall comply with water quality standards for 30 surface waters of the State of Washington. 31 32 8-01.3(1)C6 Environmentally Acceptable Hydraulic Fluid 33 All equipment containing hydraulic fluid that extends from a bridge deck over surface 34 waters of the state or below the OHWM, shall be equipped with a biodegradable 35 hydraulic fluid. The fluid shall achieve either a Pw1 Environmental Persistence 36 Classification stated in ASTM D6046 (≥60% biodegradation in 28 days) or equivalent 37 standard. Alternatively, hydraulic fluid that meets International Organization for 38 Standardization (ISO 15380), the European Union Ecolabel, or equivalent certification 39 will also be accepted. 40 41 The Contractor shall submit a Type 1 Working Drawing consisting of a manufacturer 42 catalog cut of the hydraulic fluid used. 43 44 The designation of biodegradable hydraulic fluid does not mean fluid spills are 45 acceptable. The Contractor shall respond to spills to land or water in accordance with 46 the Contract, the associated SPCC Plan, and all applicable local, state, and federal 47 regulations. 48 49 8-01.3(1)C7 Turbidity Curtain 50 All Work for the turbidity curtain shall be in accordance with the manufacturer's 51 recommendations for the site conditions. Removal procedures shall be developed and 52 used to minimize silt release and disturbance of silt. The Contractor shall submit a Type

- equipment and workforce needs, maintenance plans, and emergency
 repair/replacement plans.
 - Turbidity curtain materials, installation, and maintenance shall be sufficient to comply with water quality standards.
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The Contractor shall notify the Engineer 10 days in advance of removing the turbidity curtain. All components of the turbidity curtain shall be removed from the project.

10 8-01.3(1)C1 Disposal of Dewatering Water

11 This section is revised to read:

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When uncontaminated groundwater is encountered in an excavation on a project it may
 be infiltrated within vegetated areas of the right of way not designated as Sensitive
 Areas or incorporated into an existing stormwater conveyance system at a rate that will
 not cause erosion or flooding in any receiving surface water.

Alternatively, the Contractor may pursue independent disposal and treatment
 alternatives that do not use the stormwater conveyance system provided it is in
 compliance with the applicable WACs and permits.

22 8-01.3(1)C2 Process Wastewater

This section is revised to read:

Wastewater generated on-site as a byproduct of a construction process shall not be discharged to surface waters of the State. Some sources of process wastewater may be infiltrated in accordance with the CSWGP. Some sources of process wastewater may be disposed via independent disposal and treatment alternatives in compliance with the applicable WACs and permits.

31 8-01.3(1)C3 Shaft Drilling Slurry Wastewater

32 This section is revised to read: 33

- Wastewater generated on-site during shaft drilling activity shall be managed and disposed of in accordance with the requirements below. No shaft drilling slurry wastewater shall be discharged to surface waters of the State. Neither the sediment nor liquid portions of the shaft drilling slurry wastewater shall be contaminated, as detectable by visible or olfactory indication (e.g., chemical sheen or smell).
 - Water-only shaft drilling slurry or water slurry with accepted flocculants may be infiltrated on-site. Flocculants used shall meet the requirements of Section 9-14.5(1) or shall be chitosan products listed as General Use Level Designation (GULD) on the Washington State Department of Ecology's stormwater treatment technologies webpage for construction treatment. Infiltration is permitted if the following requirements are met:
 - a. Wastewater shall have a pH of 6.5 8.5 prior to discharge.
 - b. The amount of flocculant added to the slurry shall be kept to the minimum needed to adequately settle out solids. The flocculant shall be thoroughly mixed into the slurry.

1 2 3	C.	The slurry removed from the shaft shall be contained in a leak proof cell or tank for a minimum of 3 hours.
4 5 6 7 8 9	d.	The infiltration rate shall be reduced if needed to prevent wastewater from leaving the infiltration location. The infiltration site shall be monitored regularly during infiltration activity. All wastewater discharged to the ground shall fully infiltrate and discharges shall stop before the end of each work day.
10 11 12	e.	Drilling spoils and settled sediments remaining in the containment cell or tank shall be disposed of in accordance with Section 6-19.3(4)F.
12 13 14 15 16 17	f.	Infiltration locations shall be in upland areas at least 150 feet away from surface waters, wells, on-site sewage systems, aquifer sensitive recharge areas, sole source aquifers, well head protection areas, and shall be marked on the plan sheets before the infiltration activity begins.
17 18 19 20 21 22 23 24	g.	Prior to infiltration, the Contractor shall submit a Shaft Drilling Slurry Wastewater Management and Infiltration Plan as a Type 2 Working Drawing. This Plan shall be kept on-site, adapted if needed to meet the construction requirements, and updated to reflect what is being done in the field. The Working Drawing shall include, at a minimum, the following information:
24 25 26 27 28 29		 Plan sheet showing the proposed infiltration location and all surface waters, wells, on-site sewage systems, aquifer-sensitive recharge areas, sole source aquifers, and well-head protection areas within 150 feet.
30 31 32		ii. The proposed elevation of soil surface receiving the wastewater for infiltration and the anticipated phreatic surface (i.e., saturated soil).
33		iii. The source of the water used to produce the slurry.
34 35 26		iv. The estimated total volume of wastewater to be infiltrated.
36 37 20		v. The accepted flocculant to be used (if any).
38 39 40 41		vi. The controls or methods used to prevent surface wastewater runoff from leaving the infiltration location.
41 42 43 44 45		vii. The strategy for removing slurry wastewater from the shaft and containing the slurry wastewater once it has been removed from the shaft.
45 46 47 48		viii. The strategy for monitoring infiltration activity and adapting methods to ensure compliance.
49 50 51 52		ix. A contingency plan that can be implemented immediately if it becomes evident that the controls in place or methods being used are not adequate.

- 1 The strategy for cleaning up the infiltration location after the infiltration х. 2 activity is done. Cleanup shall include stabilizing any loose sediment 3 on the surface within the infiltration area generated as a byproduct of 4 suspended solids in the infiltrated wastewater or soil disturbance 5 associated with BMP placement and removal. 6 7 2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer additives not 8 allowed for infiltration shall be contained and disposed of by the Contractor at 9 an accepted disposal facility in accordance with Section 2-03.3(7)C. Spoils that 10 have come into contact with mineral slurry shall be disposed of in accordance 11 with Section 6-19.3(4)F. 12 13 8-01.3(1)C4 Management of Off-Site Water 14 This section is revised to read: 15 16 Prior to clearing and grubbing, the Contractor shall intercept all sources of off-site 17 surface water and overland flow that will run-on to the project. Off-site surface water run-18 on shall be diverted through or around the project in a way that does not introduce 19 construction related pollution. It shall be diverted to its preconstruction discharge 20 location in a manner that does not increase preconstruction flow rate and velocity and 21 protects contiguous properties and waterways from erosion. The Contractor shall submit 22 a Type 2 Working Drawing consisting of the method for performing this Work. 23 24 8-01.3(1)E Detention/Retention Pond Construction 25 This section is revised to read: 26 27 Permanent or temporary ponds shall be constructed before beginning other grading and 28 excavation Work in the area that drains into that pond. Detention/retention ponds may 29 be constructed concurrently with grading and excavation when allowed by the Engineer. 30 Temporary conveyances shall be installed concurrently with grading in accordance with 31 the TESC Plan so that newly graded areas drain to the pond as they are exposed. 32 33 8-01.3(2) Seeding, Fertilizing, and Mulching 34 This section's title is revised to read: 35 36 8-01.3(2) Temporary Seeding and Mulching 37 38 8-01.3(2) A Preparation for Application 39 This section is revised to read: 40 41 A cleated roller, crawler tractor, or similar equipment, which forms longitudinal 42 depressions at least 2 inches deep shall be used for compaction and preparation of the 43 surface to be seeded. The entire area shall be uniformly covered with longitudinal 44 depressions formed perpendicular to the natural flow of water on the slope. The soil 45 shall be conditioned with sufficient water so the longitudinal depressions remain in the 46 soil surface until completion of the seeding. 47 48 8-01.3(2)A1 Seeding 49 This section is deleted in its entirety. 50 51 8-01.3(2)A2 Temporary Seeding
- 52 This section is deleted in its entirety.

1 2 8-01.3(2)B Seeding and Fertilizing 3 This section, including title, is revised to read: 4 5 8-01.3(2)B Temporary Seeding 6 Temporary grass seed shall be a commercially prepared mix, made up of low growing 7 grass species that will grow without irrigation at the project location, and accepted by the 8 Engineer. The application rate shall be two pounds per 1000 square feet. 9 10 The Contractor shall notify the Engineer not less than 24 hours in advance of any 11 seeding operation and shall not begin the Work until areas prepared or designated for 12 seeding have been accepted. Following the Engineer's acceptance, seeding of the 13 accepted slopes shall begin immediately. 14 15 Temporary seeding may be sown at any time allowed by the Engineer. Temporary 16 seeding shall be sown by one of the following methods: 17 18 1. A hydro seeder that utilizes water as the carrying agent, and maintains 19 continuous agitation through paddle blades. It shall have an operating capacity 20 sufficient to agitate, suspend, and mix into a homogeneous slurry the specified 21 amount of seed and water or other material. Distribution and discharge lines 22 shall be large enough to prevent stoppage and shall be equipped with a set of 23 hydraulic discharge spray nozzles that will provide a uniform distribution of the 24 slurry. 25 26 2. Blower equipment with an adjustable disseminating device capable of 27 maintaining a constant, measured rate of material discharge that will ensure an 28 even distribution of seed at the rates specified. 29 30 3. Power-drawn drills or seeders. 31 32 4. Areas in which the above methods are impractical may be seeded by hand 33 methods. 34 35 When seeding by hand, the seed shall be incorporated into the top $\frac{1}{4}$ inch of soil by 36 hand raking or other method that is allowed by the Engineer. 37 38 Seed applied using a hydroseeder shall have a tracer added to visibly aid uniform 39 application. This tracer shall not be harmful to plant, aquatic, or animal life. If Short-Term 40 Mulch is used as a tracer, the application rate shall not exceed 250 pounds per acre. 41 42 Seed and fertilizer may be applied in one application provided that the fertilizer is placed 43 in the hydroseeder tank no more than 1 hour prior to application. 44 45 8-01.3(2)D Mulching 46 This section, including title, is revised to read: 47 48 8-01.3(2)D Temporary Mulching 49 Temporary mulch shall be straw, wood strand, or HECP mulch and shall be used for the 50 purpose of erosion control by protecting bare soil surface from particle displacement. 51 Mulch shall not be applied below the anticipated water level of ditch slopes, pond 52 bottoms, and stream banks. HECP mulch shall not be used within the Ordinary High 53 Water Mark. Non-HECP mulches applied below the anticipated water level shall be May 2019

1 2 3	removed or anchored down so that it cannot move or float, at no additional expense to the Contracting Agency.
4 5 6	Straw or wood strand mulch shall be applied at a rate to achieve at least 95 percent visual blockage of the soil surface.
0 7 8 9	Short Term Mulch shall be hydraulically applied at the rate of 2500 pounds per acre and may be applied in one lift.
9 10 11 12	Moderate Term Mulch and Long Term Mulch shall be hydraulically applied at the rate of 3500 pounds per acre with no more than 2000 pounds applied in any single lift.
12 13 14	Mulch sprayed on signs or sign Structures shall be removed the same day.
15 16 17	Areas not accessible by mulching equipment shall be mulched by accepted hand methods.
18 19	8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch This section is deleted in its entirety.
20 21 22 23	8-01.3(2)G Protection and Care of Seeded Areas This section is deleted in its entirety.
24	8-01.3(2)H Inspection
25 26	This section is deleted in its entirety.
27 28 29	8-01.3(2)I Mowing This section is deleted in its entirety.
29 30 31	8-01.3(3) Placing Biodegradable Erosion Control Blanket This section's title is revised to read:
32 33	
33 34	8-01.3(3) Placing Erosion Control Blanket
35 36	The first sentence of the first paragraph is revised to read:
37 38 39	Erosion Control Blankets are used as an erosion prevention device and to enhance the establishment of vegetation.
40 41	The second paragraph is revised to read:
42 43 44	When used to enhance the establishment of seeded areas, seeding and fertilizing shall be done prior to blanket installation.
45 46 47	8-01.3(4) Placing Compost Blanket This section is revised to read:
48 49 50 51 52	Compost blankets are used for erosion control. Compost blanket shall be only be placed on ground surfaces that are steeper than 3-foot horizontal and 1-foot vertical though steeper slopes shall be broken by wattles or compost socks placed according to the Standard Plans. Compost shall be placed to a depth of 3 inches over bare soil. An organic tackifier shall be placed over the entire composted area when dry or windy

- conditions are present or expected. The tackifier shall be applied immediately after the application of compost to prevent compost from leaving the composted area.
 - Medium compost shall be used for the compost blanket. Compost may serve the purpose of soil amendment as specified in Section 8-02.3(6).

8-01.3(5) Plastic Covering

The first paragraph is revised to read:

10 **Erosion Control** – Plastic coverings used to temporarily cover stockpiled materials, 11 slopes or bare soils shall be installed and maintained in a way that prevents water from 12 intruding under the plastic and prevents the plastic cover from being damaged by wind. 13 Plastic coverings shall be placed with at least a 12-inch overlap of all seams and be a 14 minimum of 6 mils thick. Use soil stabilization and energy dissipation BMPs to minimize 15 the erosive energy flows coming off sloped areas of plastic (e.g., toe of slope). When 16 feasible, prevent the clean runoff from plastic from hitting bare soil. Direct flows from 17 plastic to stabilized outlet areas.

- 1819 8-01.3(7) Stabilized Construction Entrance
- 20 The first paragraph is revised to read: 21

Temporary stabilized construction entrance shall be constructed in accordance with the *Standard Plans*, prior to construction vehicles entering the roadway from locations that generate sediment track out on the roadway. Material used for stabilized construction entrance shall be free of extraneous materials that may cause or contribute to track out.

27 **8-01.3(8)** Street Cleaning

28 This section is revised to read: 29

Self-propelled pickup street sweepers shall be used to remove and collect dirt and other debris from the Roadway. The street sweeper shall effectively collect these materials and prevent them from being washed or blown off the Roadway or into waters of the State. Street sweepers shall not generate fugitive dust and shall be designed and operated in compliance with applicable air quality standards. Material collected by the street sweeper shall be disposed of in accordance with Section 2-03.3(7)C.

When allowed by the Engineer, power broom sweepers may be used in non-sensitive areas. The broom sweeper shall sweep dirt and other debris from the roadway into the work area. The swept material shall be prevented from entering or washing into waters of the State.

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Street washing with water will require the concurrence of the Engineer.

44 **8-01.3(12)** Compost Socks

- 45 The first two sentences of the first paragraph are revised to read:
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47 Compost socks are used to disperse flow and sediment. Compost socks shall be
48 installed as soon as construction will allow but before flow conditions create erosive
49 flows or discharges from the site. Compost socks shall be installed prior to any mulching

- 50 or compost placement.
- 51

8-01.3(13) Temporary Curb

The last two sentences of the second paragraph are revised to read:

Temporary curbs shall be a minimum of 4 inches in height. Temporary curb shall be installed so that ponding does not occur in the adjacent roadway.

8-01.3(14) Temporary Pipe Slope Drain

The third and fourth paragraphs are revised to read:

The pipe fittings shall be water tight and the pipe secured to the slope with metal posts,
wood stakes, or sand bags.

13The water shall be discharged to a stabilized conveyance, sediment trap, stormwater14pond, rock splash pad, or vegetated strip, in a manner to prevent erosion and maintain15water quality compliance.

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The last paragraph is deleted.

19 **8-01.3(15)** Maintenance

20 This section is revised to read: 21

Erosion and sediment control BMPs shall be maintained or adaptively managed as required by the CSWGP until the Engineer determines they are no longer needed. When deficiencies in functional performance are identified, the deficiencies shall be rectified immediately.

The BMPs shall be inspected on the schedule outlined in Section 8-01.3(1)B for damage
 and sediment deposits. Damage to or undercutting of BMPs shall be repaired
 immediately.

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In areas where the Contractor's activities have compromised the erosion control
 functions of the existing grasses, the Contractor shall overseed at no additional cost to
 the Contracting Agency.

The quarry spalls of construction entrances shall be refreshed, replaced, or screened to maintain voids between the spalls for collecting mud and dirt.

37

38 Unless otherwise specified, when the depth of accumulated sediment and

39 debris reaches approximately $\frac{1}{3}$ the height of the BMP the deposits shall be removed.

- 40 Debris or contaminated sediment shall be disposed of in accordance with Section 2-
- 41 03.3(7)C. Clean sediments may be stabilized on-site using BMPs as allowed by the 42 Engineer.

44 8-01.3(16) Removal

45 This section is revised to read:

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The Contractor shall remove all temporary BMPs, all associated hardware and
associated accumulated sediment deposition from the project limits prior to Physical
Completion unless otherwise allowed by the Engineer. When the temporary BMP
materials are made of natural plant fibers unaltered by synthetic materials the Engineer
may allow leaving the BMP in place.

1 2 3 4 5 6 7 8	soil distu after rem compact construc facilitate	ntractor shall remove BMPs and associated hardware in a way that minimizes urbance. The Contractor shall permanently stabilize all bare and disturbed soil noval of BMPs. If the installation and use of the erosion control BMPs have ted or otherwise rendered the soil inhospitable to plant growth, such as ction entrances, the Contractor shall take measures to rehabilitate the soil to plant growth. This may include, but is not limited to, ripping the soil, ating soil amendments, or seeding with the specified seed.			
9	At the re	equest of the Contractor and at the sole discretion of the Engineer the CSWGP			
10		transferred back to the Contracting Agency. Approval of the Transfer of			
10	•	request will require the following:			
12	Coverag				
12	1.	All other Work required for Contract Completion has been completed.			
13	1.	All other work required for contract completion has been completed.			
14	2	All Work required for compliance with the COMCD has been completed to the			
15 16	2.	All Work required for compliance with the CSWGP has been completed to the maximum extent possible. This includes removal of BMPs that are no longer			
10		needed and the site has undergone all Stabilization identified for meeting the			
17		requirements of Final Stabilization in the CSWGP.			
18					
19 20	3.	An Equitable Adjustment change order for the cost of Work that has not been			
20 21	5.				
21		completed by the Contractor.			
22	1	Submittal of the Weshington State Department of Feelagy Transfer of			
23 24	4.	Submittal of the Washington State Department of Ecology Transfer of			
24 25		Coverage form (Ecology form ECY 020-87a) to the Engineer.			
23 26	lf tha En	annear approved the transfer of appendix healt to the Contracting Agency, the			
20 27		gineer approves the transfer of coverage back to the Contracting Agency, the			
27	requirement in Section 1-07.5(3) for the Contractor's submittal of the Notice of Termination form to the Washington State Department of Ecology will not apply.				
28 29	Termina	tion form to the washington State Department of Ecology will not apply.			
29 30	8-01.4 Mea	nouromont			
30 31					
31	This section:	s content is deleted and replaced with the following new subsections:			
32	8 01 4/1) Lump Sum Bid for Project (No Unit Items)			
33 34		e Bid Proposal contains the item "Erosion Control and Water Pollution			
35		on" there will be no measurement of unit or force account items for Work			
36	defined in Section 8-01 except as described in Sections 8-01.4(3) and 8-01.4(4). Also,				
37	except as described in Section 8-01.4(3), all of Sections 8-01.4(2) and 8-01.5(2) are				
38	deleted.				
39	ucicicu.				
40	8-01 4(2	2) Item Bids			
41		e Proposal does not contain the items "Erosion Control and Water Pollution			
42		on", Section 8-01.4(1) and 8-01.5(1) are deleted and the Bid Proposal will			
43		some or all of the following items measured as noted.			
44	containt	some of all of the following items measured as noted.			
45	FSC	C lead will be measured per day for each day that an inspection is made and a			
46		ort is filed.			
40 47	iept	JILIS IIICU.			
48	Fro	sion control blanket and plastic covering will be measured by the square yard			
49		ng the ground slope line of surface area covered and accepted.			
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51	Tur	bidity curtains will be measured by the linear foot along the ground line of the			
52					
	inst	alled curtain.			
53	insta	alled curtain.			

1	Check dams will be measured per linear foot one time only along the ground line of
2 3	the completed check dam. No additional measurement will be made for check dams that are required to be rehabilitated or replaced due to wear.
4 5 6 7	Stabilized construction entrances will be measured by the square yard by ground slope measurement for each entrance constructed.
7 8 9	Tire wash facilities will be measured per each for each tire wash installed.
10 11 12 13 14 15	Street cleaning will be measured by the hour for the actual time spent cleaning pavement, refilling with water, dumping and transport to and from cleaning locations within the project limits, as authorized by the Engineer. Time to mobilize the equipment to or from the project limits on which street cleaning is required will not be measured.
16 17	Inlet protections will be measured per each for each initial installation at a drainage structure.
18 19 20 21	Silt fence, gravel filter, compost berms, and wood chip berms will be measured by the linear foot along the ground line of the completed barrier.
21 22 23	Wattles and compost socks will be measured by the linear foot.
24 25	Temporary curbs will be measured by the linear foot along the ground line of the completed installation.
26 27 28 29	Temporary pipe slope drains will be measured by the linear foot along the flow line of the pipe.
29 30 31 32	Coir logs will be measured by the linear foot along the ground line of the completed installation.
32 33 34	Outlet protections will be measured per each initial installation at an outlet location.
35 36 37	Temporary seeding, temporary mulching, and tackifiers will be measured by the acre by ground slope measurement.
38 39	Compost blanket will be measured by the square yard by ground slope surface area covered and accepted.
40 41 42	8-01.4(3) Reinstating Unit Items with Lump Sum Erosion Control and Water Pollution Prevention
43 44 45 46 47	The Contract Provisions may establish the project as lump sum, in accordance with Section 8-01.4(1) and also include one or more of the items included above in Section 8-01.4(2). When that occurs, the corresponding measurement provision in Section 8-01.4(2) is not deleted and the Work under that item will be measured as specified.
47 48 49	8-01.4(4) Items not included with Lump Sum Erosion Control and Water Pollution Prevention
50 51 52	Compost blanket will be measured by the square yard by ground slope surface area covered and accepted.

1 2	Temporary mulch will be measured by the acre by ground slope surface ar and accepted.	ea covered
$\frac{2}{3}$	and accepted.	
4 5	High visibility fence will be measured by the linear foot along the ground lin completed fence.	e of the
6 7	8-01.5 Payment	
8	This section's content is deleted and replaced with the following new subsection	IS:
9 10	8-01.5(1) Lump Sum Bid for Project (No Unit Items)	
10 11 12	Payment will be made for the following Bid item when it is included in the P	roposal:
13 14	"Erosion Control and Water Pollution Prevention", lump sum.	
15	The lump sum Contract price for "Erosion Control and Water Pollution	Prevention"
16	shall be full pay to perform the Work as described in Section 8-01 exce	
17	compensated by Bid Proposal items inserted through Contract Provision	ons as
18	described in Section 8-01.4(2). Progress payments for the lump sum it	em "Erosion
19	Control and Water Pollution Prevention" will be made as follows:	
20		
21	 The Contracting Agency will pay 15 percent of the bid amour 	t for the initial
22	set up for the item. Initial set up includes the following:	
23		
24	a. Acceptance of the TESC Plan provided by the Contractin	ig Agency or
25 26	submittal of a new TESC Plan,	
20 27	b. Submittal of a schedule for the installation of the BMPs,	and
28		und
29	c. Identifying water quality sampling locations.	
30		
31	2. 70 percent of the bid amount will be paid in accordance with	Section 1-
32	09.9.	
33		
34	3. Once the project is physically complete and copies of the all	
35 36	submitted to the Washington State Department of Ecology has submitted to the Engineer, and, if applicable, transference of	
30 37	back to the Contracting Agency is complete, the remaining 1	
38	the bid amount shall be paid in accordance with Section 1-09	
39		.0.
40	8-01.5(2) Item Bids	
41	"ESC Lead", per day.	
42		
43	"Turbidity Curtain", per linear foot.	
44		
45	"Erosion Control Blanket", per square yard.	
46 47	"Plastic Covering", per square yard.	
47 48	i lasuo oovenny, pei square yaru.	
49	"Check Dam", per linear foot.	
50	- · · · · · · · · · · · · · · · · · · ·	
51	"Inlet Protection", per each.	
52	"Oroval Filter Darm" nor linear fact	
53	"Gravel Filter Berm", per linear foot.	14 2010
	City of Lynnwood	Mav 2019

1	
1 2 3	"Stabilized Construction Entrance", per square yard.
5 4 5	"Street Cleaning", per hour.
5 6 7	"Silt Fence", per linear foot.
8 9	"Wood Chip Berm", per linear foot.
10 11	"Compost Berm", per linear foot.
12 13	"Wattle", per linear foot.
13 14 15	"Compost Sock", per linear foot.
15 16 17	"Coir Log", per linear foot.
17 18 19	"Temporary Curb", per linear foot.
20 21	"Temporary Pipe Slope Drain", per linear foot.
21 22 23	"Temporary Seeding", per acre.
23 24 25	"Temporary Mulching", per acre.
25 26 27	"Compost Blanket", per square yard.
27 28 29	"Outlet Protection", per each.
30 31	"Tackifier", per acre.
32 33	"Erosion/Water Pollution Control", by force account as provided in Section 1-09.6.
34 35 36 37 38	Maintenance and removal of erosion and water pollution control devices including removal and disposal of sediment, stabilization and rehabilitation of soil disturbed by these activities, and any additional Work deemed necessary by the Engineer to control erosion and water pollution will be paid by force account in accordance with Section 1-09.6.
39 40 41 42	To provide a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the Contractor's total Bid.
42 43 44	8-01.5(3) Reinstating Unit Items with Lump Sum Erosion Control and Water Pollution Prevention
45 46 47 48 49 50	The Contract may establish the project as lump sum, in accordance with Section 8-01.4(1) and also reinstate the measurement of one or more of the items described in Section 8-01.4(2), except for Erosion/Water Pollution Control, by force account. When that occurs, the corresponding payment provision in Section 8-01.5(2) is not deleted and the Work under that item will be paid as specified.
50 51 52 53	8-01.5(4) Items not included with Lump Sum Erosion Control and Water Pollution Prevention Payment will be made for the following Bid item when it is included in the Proposal:

"High Visibility Fence", per linear foot.

4 Section 8-02, Roadside Restoration

- 5 April 1, 2019
 - This section, including all subsections, is revised to read:
 - 8-02.1 Description

9 This Work consists of preserving, maintaining, establishing and augmenting vegetation 10 on the roadsides and within mitigation or sundry site areas. It includes vegetation 11 preservation, weed and pest control, furnishing and placing topsoil, compost, and soil 12 amendments, and furnishing and planting seed, sod and plants of all forms and 13 container types. It includes performing plant establishment activities and soil 14 bioengineering. Work shall be performed in accordance with these Specifications and as 15 shown in the Plans or as designated by the Engineer.

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Trees, whips, shrubs, ground covers, cuttings, live stakes, live poles, live branches,
rhizomes, tubers, rootstock, and seedlings will hereinafter be referred to collectively as
"plants" or "plant material". Grass, wildflowers, and other plant materials installed in seed
form will hereinafter be referred to collectively as "seed".

8-02.2 Materials

Materials shall meet the requirements of the following sections:

Erosion Control and Roadside Planting 9-14 Water 9-25.2

Botanical identification and nomenclature of plant materials shall be based on
descriptions by Hitchcock and Cronquist in "Flora of the Pacific Northwest". Botanical
identification and nomenclature of plant material not found in "Flora" shall be based on
Bailey in "Hortus Third" or superseding editions and amendments or as referenced in
the Plans.

8-02.3 Construction Requirements

8-02.3(1) Responsibility During Construction

- The Contractor shall prepare, install, and ensure adequate and proper care of all roadside seeded, planted, and lawn areas on the project until all plant establishment periods required by the Contract are complete or until Physical Completion of the project, whichever is last.
- Adequate and proper care shall include, but is not limited to, keeping all plant material in a healthy, growing condition by watering, pruning, and other actions deemed necessary for plant health. This Work shall include keeping the project area free from insect infestation, weeds or unwanted vegetation, litter, and other debris along with retaining the finished grades and mulch in a neat uniform condition.
- 48 Existing desirable vegetation shall be saved and protected unless removal is 49 required by the Contract or allowed by the Engineer.
- 50
 51 The Contractor shall have sole responsibility for the maintenance and appearance
 52 of the roadside restoration.

1 2 3	8-02.3(Three V			Plans submittals exist under this Section:	
4 5 6 7 8 9	1.	road veg	dside	e Work Plan: This plan is required when Work will disturb the beyond 20 feet from the pavement or where trees or native on will be removed, the Contractor shall submit a Type 2 Working	
10 11 12 13 14	2.	con che	tains mica	nd Pest Control Plan: This plan is required when the proposal the item "Weed and Pest Control," and prior to application of any ls or weed control activities, the Contractor shall submit a Type 2 Drawing.	
14 15 16 17 18	3.	con	tains	tablishment Plan: This plan is required when the proposal the item "PSIPE", and prior to completion of Initial Planting, the tor shall submit a Type 2 Working Drawing.	
19 20 21 22 23 24 25	The res The Co sta	e Roa toratio e Con ntract ging,	adsid on re ntract t will acce	Roadside Work Plan e Work Plan shall define the expected impacts to the roadside and esulting from Work necessary to meet all Contract requirements. for shall define how the roadside restoration Work included in the be phased and coordinated with project Work such as earthwork, ess, erosion and water pollution control, irrigation, etc. The brk Plan shall include the following:	
26 27		1.	Lim	iting impacts to roadsides:	
28 29			a.	Limits of Work including locations of staging or parking.	
30 31 32			b.	Means and methods for vegetation protection (in accordance with Section 1-07.16(2)).	
33 34 35 36			C.	Locations outside of clearing limits where vegetation shall be removed to provide access routes or other needs to accomplish the Work.	
37 38 39 40			d.	Plans for removal, preservation and stockpile of topsoil or other native materials, if outside of clearing and grubbing limits and within the project limits.	
41 42		2.	<u>Roa</u>	adside Restoration:	
43 44 45 46			a.	Plan for propagation and procurement of plants, ground preparation for planting, and installation of plants.	
47 48 49 50			b.	Means and methods to limit soil compaction where seeding and planting are to occur, such as steel plates, hog fuel access roads, wood mats for sensitive areas (including removal) and decompaction for unavoidable impacts.	
51 52			C.	Plan and timing to incorporate or remove erosion control items.	
53	City of Lynnwood			May 2019	

1	3. Lawn Installation:
2 3	a. Schedule for lawn installation work.
4 5	b. Establishment and maintenance of lawns.
6 7 8	8-02.3(2)B Weed and Pest Control Plan The Weed and Pest Control Plan shall describe all weed and pest control
9 10	needs for the project.
11	The plan shall be prepared and signed by a licensed Commercial Pest Control
12 13 14	Operator or Consultant. The plan for control of weeds and pests on the Contract in accordance with Section 8-02.3(3) shall include the following:
15	1. Names of plan preparer and pesticide operators, including contact
16 17	information. The Contractor shall furnish the Engineer evidence that all operators are licensed with appropriate endorsements, and that the
18	pesticide used is registered for use by the Washington State
19 20	Department of Agriculture.
21	2. Means and methods of weed control, including mechanical and/or
22 23	chemical.
24	3. Schedule for weed control including re-entry times for pesticide
25 26	application by pesticide type.
27	4. Proposed pesticide use in accordance with Section 8-02.3(3)A: name,
28 29	application rate, and Safety Data Sheets of all proposed pesticides. Include a copy of the current product label for each pesticide to be
30	used.
31 32	5. Plan to ensure worker safety until pesticide re-entry periods are met.
33	
34 35	8-02.3(2)C Plant Establishment Plan
33 36	The Plant Establishment Plan shall describe activities necessary to ensure continued health and vigor of planted and seeded areas in accordance with the
37	requirements of Sections 8-02.3(12) and 8-02.3(13). Should the plan become
38	unworkable at any time during the first-year plant establishment, the Contractor
39	shall submit a revised plan prior to proceeding with further Work. The Plant
40	Establishment Plan shall include:
41 42	1. Proposed scheduling of joint inspection meetings, activities, materials,
42	equipment to be utilized for the first-year plant establishment.
44	
45	2. Proposed adaptive management activities to ensure successful
46 47	establishment of seeded, sodded, and planted areas.
47 48	3. A contact person.
49	
50	4. Management of the irrigation system, when applicable.
51	

8-02.3(3) Weed and Pest Control

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The Contractor shall control weed and pest species within the project limits using integrated pest management principles consisting of mechanical, biological, and chemical controls that are outlined in the Weed and Pest Control Plan or as designated by the Engineer. Controlling weeds consists of killing and removing weeds by chemical, mechanical, and hand methods.

8-02.3(3)A Chemical Pesticides

Chemical pesticides include, but are not restricted to, any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any pest, including but not limited to, insecticides, herbicides, fungicides, adjuvants, and additives, including plant regulators, defoliants and desiccants. The Contractor shall apply chemical pesticides in accordance with the label recommendations, the Washington State Department of Ecology, local sensitive area ordinances, and Washington State Department of Agriculture laws and regulations. Only those pesticides listed in the table Herbicides Approved for Use on WSDOT Rights of Way and accepted as part of the Weed and Pest Control Plan or by written authorization from the Engineer may be used (www.wsdot.wa.gov/maintenance/roadside/herbicide_use.htm).

- 21 The applicator shall be licensed by the State of Washington as a Commercial 22 Applicator or Commercial Operator, with additional endorsements as required 23 by the Special Provisions or the proposed weed control plan. All chemical 24 pesticides shall be delivered to the job site in the original containers, or if pre-25 mixed off-site, a certification of the components and formulation from the 26 supplier is required. The licensed applicator or operator shall complete WSDOT 27 Form 540-509, Commercial Pesticide Application Record, each day the 28 pesticide is applied and furnish a copy to the Engineer by the following 29 business day. 30
- 31The Contractor shall ensure confinement of the chemicals within the32designated areas. The use of spray chemical pesticides shall require the use of33anti-drift and activating agents and a spray pattern indicator unless otherwise34allowed by the Engineer.35
- The Contractor shall assume all responsibility for rendering any area unsatisfactory for planting by reason of chemical application. Damage to adjacent areas, either on or off the Highway Right of Way, shall be repaired to the satisfaction of the Engineer or the property owner at no additional cost to the Contracting Agency.

8-02.3(3)B Planting and Lawn Area Weed Control

- Planting and lawn area weed control consists of controlling weeds and pests in planted and lawn areas shown in the Plans. This Work is included in the bid items for planting and lawn installation.
- All planting and lawn areas shall be prepared so that they are weed and debris
 free at the time of planting and until completion of the project. The planting
 areas shall include the entire ground surface, regardless of cover, areas
 around plants, and those areas shown in the Plans.
- 51

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1 2 3 4	Within planting or lawn areas, all species that are not shown in the Plans are unwanted and shall be controlled unless specifically allowed by the Engineer to remain.
4 5 6 7 8 9	Grass growing within the mulch ring of a plant, including grass applied in accordance with Sections 8-01.3(2)A1, 8-02.3(9) or 8-02.3(10), shall be considered a weed and shall be controlled on the project in accordance with the weed and pest control plan.
10 11 12 13	All applications of post-emergent herbicides shall be made while green and growing tissue is present. Residual herbicides shall not be used where rhizomatous species or perennial species are indicated.
13 14 15 16 17 18	Should unwanted vegetation reach the flowering and seed stage in violation of these Specifications, the Contractor shall physically remove and bag the seed heads prior to seed dispersion. All physically removed vegetation and seed heads shall be disposed of off-site at no cost to the Contracting Agency.
18 19 20 21 22 23 24	8-02.3(3)C Project Area Weed and Pest Control The Contractor shall control weeds not otherwise covered in accordance with Section 8-02.3(3)B, in all areas within the project limits, including erosion control seeding areas and vegetation preservation areas, as designated by the Engineer.
25 26 27 28 29	When the Bid Item "Project Area Weed and Pest Control" is included in the Contract, the Contractor shall also control all weeds specified as noxious by the Washington State Department of Agriculture, the local Weed District, or the County Noxious Weed Control Board outside of planting areas within the project limits.
30 31 32 33	8-02.3(4) Topsoil Topsoil shall not be worked or placed when the ground or topsoil is frozen, or excessively wet.
34 35 36 37 38 39	The Contractor shall protect topsoil stockpiled for project use to prevent erosion and weed growth. Weed growth on topsoil stockpile sites shall be immediately eliminated in accordance with the accepted Weed and Pest Control Plan and Section 8-02.3(3)C.
40 41 42 43 44 45 46 47 48	The subsoil where topsoil is to be placed shall be tilled to a depth of 1 foot or as specified in the Special Provisions or the Plans. Topsoil of the type specified shall be evenly spread over the specified areas to the depth shown in the Plans or as otherwise ordered by the Engineer. Topsoil depths greater than 6 inches shall be placed in lifts no more than 6 inches in depth. The first lift of topsoil shall be incorporated with sub-soil to a depth of 8 inches and subsequent lifts placed and lightly tamped between lifts. After the topsoil has been spread, all large clods, hard lumps, and rocks 2 inches in diameter and larger, and litter shall be raked up, removed, and disposed.
49 50 51	8-02.3(4)A Topsoil Type A Topsoil Type A shall be as specified in the Special Provisions. The Contractor

51 Topsoil Type A shall be as specified in the Special Provisions. The Contractor 52 shall submit a certification by the supplier that the contents of the Topsoil meet 53 the requirements in the Special Provisions.

1	
2 3	8-02.3(4)B Topsoil Type B
3	Topsoil Type B shall be naturally occurring topsoil taken from within the project
4	limits and shall meet the requirements of Section 9-14.1(2). Topsoil Type B
5	shall be taken from areas shown in the Plans to the designated depth and
6	stockpiled at locations that will not interfere with the construction of the project,
7	and outside of sensitive areas, as allowed by the Engineer. A minimum of two
8	weeks prior to excavation of Topsoil Type B, the Contractor shall pre-treat the
9	vegetation on the designated Topsoil Type B areas according to the Weed and
10	Pest Control Plan. Areas beyond the slope stakes shall be disturbed as little as
11	possible in the above operations and under no circumstances shall Topsoil
12	Type B be stockpiled within 10 feet of any existing tree or vegetation area
13	designated to be saved and protected. The Contractor shall protect topsoil
14	stockpile from weed infestation.
15	
16	The Contractor shall set aside sufficient material to satisfy the needs of the
17	project.
18	
19	Upon completion of topsoil placement, the Contractor shall dispose of
20	remaining stockpiled Topsoil Type B not required for use on the project at no
21	additional expense to the Contracting Agency in accordance with Section 2-
22	03.3(7)C.
23	
24	Should a shortage of Topsoil Type B occur, and the Contractor has wasted or
25	otherwise disposed of topsoil material, the Contractor shall furnish Topsoil
26	Type A or C at no additional expense to the Contracting Agency.
27	
28	8-02.3(4)C Topsoil Type C
29	Topsoil Type C shall be naturally occurring topsoil obtained from a source
30	provided by the Contractor outside of the Contracting Agency-owned Right of
31	Way. Topsoil Type C shall meet the requirements of Sections 8-02.3(4)B and
32	9-14.1(3). The Contractor shall not begin removal of Topsoil Type C from the
33	proposed source until the material has been allowed for use by the Engineer.
34	
35	8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation
36	This Work includes preparing worked areas for the installation of all types of
37	permanent erosion control planting. Work shall be conducted so the flow lines in
38	drainage channels are maintained. Material displaced by the Contractor's
39	operations that interferes with drainage shall be removed from the channel and
40	disposed of as allowed by the Engineer.
41	
42	8-02.3(5)A Seeding Area Preparation
43	The Contractor shall prepare roadside seeding areas as follows:
44	
45	1. Remove all excess material, debris, stumps, and rocks greater than 3
46	inches in diameter from areas to be seeded. Dispose of removed
47	materials offsite.
48	
49 50	2. Prepare roadside seeding area to a weed free and bare condition.
50 51	2 Dring area to uniform grade and install tangeil call amondates to an
51 52	3. Bring area to uniform grade and install topsoil, soil amendments, or
52 53	compost as specified. Any slopes 3(H) to 1(V) or steeper shall not be tilled upless otherwise specified
55	tilled unless otherwise specified.

1 2 3 4 5 6	4.	Compact to provide a reasonably firm but friable seedbed; tractor walk to uniformly cover the surface with longitudinal depressions at least 2 inches deep formed perpendicular to the natural flow of water on the slope. Condition the soil with sufficient water so the longitudinal depressions remain in the soil surface until completion of the seeding.
7 8	5.	
9		
10	8-02.3	(5)B Lawn Area Preparation
11	The Co	ontractor shall prepare lawn areas as follows:
12		
13	1.	I
14		with Section 8-02.3(3)B.
15		
16	2.	
17		diameter and remove from site.
18	_	
19	3.	o i
20		accordance with Section 8-02.3(4) and 8-02.3(6).
21		T 114 O C C C C C C C C C C
22	4.	
23		that trap water, and compact with a 50-pound roller. The finished
24		grade of the soil shall be 1 inch below the top of all curbs, junction and
25 26		valve boxes, walks, driveways, and other Structures.
20 27	5.	Soud or sod the area within two days of proparation
28	5.	Seed or sod the area within two days of preparation.
28 29	8-02 3	(5)C Planting Area Preparation
30		ontractor shall prepare planting areas as follows:
31		shirador ondir propare planting areas as follows.
32	1.	Prepare planting area to a weed free and bare condition in
33		accordance with Section 8-02.3(3)B.
34		
35	2.	Decompact soil to a depth of 18 inches where construction activities
36		have taken place or where native soils are compacted.
37		
38	3.	5 7 5
39		holes or mounds over 3 inches in depth or height.
40		
41	4.	, I ,
42		diameter and remove from site.
43	F	Apply compact or other amondments as indicated in the plane and in
44 45	5.	
45 46		accordance with Section 8-02.3(6).
40 47	6.	Cultivate amendments to a depth of 12 inches to provide a reasonably
48	0.	firm but friable planting area. Do not till any slopes 3(H) to 1(V) or
49		steeper.
50		
51	7.	Return soil to a uniform finished grade, 1 inch, or the specified depth
52		of mulch plus 1 inch, below walks, curbs, junction and valve boxes,
53		catch basins, and driveways, unless otherwise specified.

1	
2 3 4 5 6	Begin planting and mulching the area within two days of final
3	preparation.
4	
5	8-02.3(6) Soil Amendments
6	The Contractor shall place soil amendments of the type, quality, and quantities
7	specified where shown in the Plans or as specified in the Special Provisions. Areas
8	receiving soil amendments shall be bare soil or vegetation free prior to application.
9	All soil amendments shall be installed as shown in the Plans within 30 calendar
10	days after delivery to the project site.
11	
12	8-02.3(6)A Compost
13	Compost used for soil amendments shall be Fine Compost unless otherwise
14	designated in the Plans. When compost blanket is used for temporary erosion
15	control, the compost blanket may be incorporated into the soil immediately prior
16	to planting when used as compost soil amendment. The area shall be prepared
17	in accordance with Section 8-02.3(5) prior to placing compost.
18	
19	8-02.3(6)B Fertilizers
20	The Contractor shall apply fertilizer in the form, mixture, and rate specified in
21	the Special Provisions or as directed by the Engineer. Application procedures
22	shall be in accordance with the manufacturer's recommendations unless
23	otherwise specified in the Special Provisions.
24	
25	The Contractor shall submit a guaranteed fertilizer analysis label for the
26	selected product a minimum of one week prior to application for acceptance.
27	Following the Engineer's acceptance, fertilizing of the accepted ground or
28	vegetated surfaces shall begin immediately.
29	
30	In seeding and lawn areas to be fertilized, the fertilizer shall be applied
31	concurrently with the seed. When fertilizer is hydraulically applied, the fertilizer
32	shall be suitable for application with seeding as specified in Section 8-02.3(9)C.
33	If hydroseeding, the fertilizer shall be placed in the hydroseeder tank no more
34	than 1 hour prior to application.
35	
36	Fertilizers for planting areas shall be applied concurrently with compost and
37	applied prior to incorporation, unless tablet form fertilizer is specified. Where
38	tablet form fertilizer is specified, fertilizer shall be applied concurrently with
39	plant installation.
40	F ortilized and the size of size structures that the second the same day.
41	Fertilizer sprayed on signs or sign structures shall be removed the same day.
42	Areas not accessible by fartilizing any ingeneric shall be fartilized by allowed
43	Areas not accessible by fertilizing equipment shall be fertilized by allowed
44 45	hand methods.
45 46	Second Application: A second application of fortilizer shall be applied as
46 47	Second Application: A second application of fertilizer shall be applied as
47 48	specified in the Special Provisions at the locations designated in the Plans. The fertilizer shall be applied during the months of March, April, or May of the
48 49	following year after the initial seeding, planting, or lawn installation. The
49 50	fertilizer shall be dry granular pellets or pearls and applied in accordance with
50 51	the manufacturer's recommendations or as specified in the Special Provisions.
52	
54	

1 8-02.3(7) Layout of Planting, Lawn and Seeding Areas 2 The Contractor shall lay out and prepare planting and lawn areas and receive the 3 Engineer's acceptance of layout and preparation prior to any installation activities. 4 The Contractor shall stake the location of all trees larger than 1-inch caliper and the 5 perimeter of all planting areas for acceptance by the Engineer prior to any 6 installation activities. 7 8 The Contractor shall locate all trees to be planted in mowable grass areas a 9 minimum of 10 feet from the edge of planting areas, other trees, fence lines, and 10 bottom of ditches unless otherwise specified. 11 12 Tree locations shown in the Plans shall be considered approximate unless shown 13 with stationing and offset distance. In irrigated areas, trees shall be located so their 14 trunk is a minimum of $\frac{1}{3}$ of the spray radius away from the nearest sprinkler head. 15 16 Unless otherwise shown, planting areas located adjacent to Roadways shall begin 6 17 feet from the edge of shoulder on roadway fills and begin 5 feet up on the back 18 slope from the bottom on roadway cut sections. Plants within planting areas shall be 19 located such that mature branching pattern will not block sight distance, signs, or 20 other traffic-related devices. No trees shall be placed where the mature canopy will 21 grow to within 10 feet of existing power lines. Where roadside ditches are present, 22 planting areas shall begin 5 feet from the centerline of the ditch unless shown 23 otherwise in the Plans. 24 25 8-02.3(8) Planting 26 8-02.3(8)A Dates and Conditions for Planting 27 No plant material shall be planted until it has been inspected and accepted for 28 planting by the Engineer. Rejected material shall be removed from the project 29 site immediately. All plants for the project or a sufficient quantity to plant 1-acre 30 of the site, whichever is less, shall be received on site prior to the Engineer 31 beginning inspection of the plants. 32 33 Under no circumstances will planting be permitted during unsuitable soil or 34 weather conditions as determined by the Engineer. Unsuitable conditions may 35 include frozen soil, freezing weather, saturated soil, standing water, high winds, 36 heavy rains, and high water levels. The ground shall be moist at the time of 37 planting. All planting shall be accomplished during the following periods: 38 39 Non-Irrigated Plant Material 1. 40 Western Washington (West of the Cascade Mountain Crest) -41 October 1 to March 1. 42 Eastern Washington (East of the Cascade Mountain Crest) - October 43 1 to November 15. 44 45 2. Irrigated Plant Material 46 47 In irrigated areas, plant material shall not be installed until the irrigation 48 system is fully operational and accepted by the Engineer. Trees and 49 shrubs may be planted in irrigated areas during the non-irrigated planting 50 window before the irrigation system is functional with the written 51 concurrence of the Engineer only if the irrigation system is guaranteed to 52 be operational prior to the end of the non-irrigated planting window. 53

1	8-02.3(8	B)B Plant Installation
2	•	ntractor shall handle plant material in the following manner:
3 4		
4	1.	Root systems shall be kept covered and damp at all times. Plant
5		material shall be kept in containers until the time of planting.
6 7	2.	Roots shall not be bunched, curled, twisted, or unreasonably bent
8	۷.	when placed in the planting hole. Bare root plant material shall be
9		dormant at the time of harvesting and planting. The root systems of all
10		bare root plant material shall be dipped in a slurry immediately prior to
11		planting.
12		
13	3.	Plant material supplied in wrapped balls shall not be removed from
14		the wrapping until the time of planting at the planting location. The
15 16		root system of balled plant material shall be moist at the time of planting. Root balls shall be loosened prior to planting. All burlap,
10		baskets, string, wire and other such materials shall be removed from
18		the hole when planting balled plants.
19		
20	4.	Plant cutting material shall be dormant at the time of cutting and
21		planting. All cuttings shall be installed immediately if buds begin to
22		swell.
23 24	5.	Dianta shall be placed with the grown at the finished grade. In their
24 25	5.	Plants shall be placed with the crown at the finished grade. In their final position, plants shall have their top true root (not adventitious
23 26		root) no more than 1 inch below the soil surface, no matter where that
27		root was located in the original root ball or container. The backfill
28		material, including container and root ball soil, shall be thoroughly
29		watered on the same day that planting occurs regardless of season.
30		
31		nstalling plants, the Contractor shall dig planting holes three times the
32 33		er of the container or root ball size. Any glazed surface of the planting
33 34	noie sna	all be roughened prior to planting.
35	8-02.3(8	8)C Pruning, Staking, Guying, and Wrapping
36		shall be pruned at the time of planting, only to remove minor broken or
37		ed twigs, branches or roots. Pruning shall be performed with a sharp
38		I shall be done in such a manner as to retain or to encourage natural
39	•	characteristics of the plants. All other pruning shall be performed only
40		e plants have been in the ground at least 1 year and when plants are
41 42	dorman	t.
42 43	Trees s	hall only be staked when so noted in the Plans. Each tree shall be
44		or guyed before completion of the backfilling in accordance with the
45		shown in the Plans.
46		
47	Trees s	hall be wrapped when so noted in the Plans.
48		and in a fractilizing and Malaking
49 50		eeding, Fertilizing, and Mulching
50 51	Engineer:	, the Contractor shall furnish the following documentation to the
52		
53	1. The	e state or provincial seed dealer license and endorsements.
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- 1 2 3 4 5 6
- 6 7

8 9 2. Copies of Washington State Department of Agriculture (WSDA) test results on each lot of seed. Test results shall be within six months prior to the date of application.

8-02.3(9)A Dates for Application of Seed

Unless otherwise allowed by the Engineer, the Contractor shall apply seed for permanent erosion control during the following periods:

Western Washington ¹ (West of the Cascade Mountain Crest)	Eastern Washington (East of the Cascade Mountain Crest)				
March 1 through May 15 September 1 through October 1	October 1 through November 15				
¹ Seeding may be allowed outside these dates when allowed by the Engineer.					

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37 38 All roadway excavation and embankment ground surfaces that are completed to final grades shall be prepared and seeded during the first available seeding window. When environmental conditions are not conducive to satisfactory results, the Engineer may suspend the seeding Work until such time that the desired results are likely to be obtained. If seeding is suspended, temporary erosion control methods according to Section 8-01 shall be used to protect the bare soil until seeding conditions improve.

8-02.3(9)B Seeding and Fertilizing

- 20The Contractor shall prepare the seeding area in accordance with Section 8-2102.3(5)A and apply seed at the rate and mix specified in the Special Provisions.22The Contractor shall notify the Engineer within 5 days in advance of any23seeding operation and shall not begin the Work until areas prepared or24designated for seeding have been accepted. Following the Engineer's25acceptance, seeding of the accepted ground surfaces shall begin immediately.26
- Seeding shall not be done during windy weather or when the ground is frozen,
 or excessively wet.
 - When seeding by hand, the seed shall be incorporated into the top $\frac{1}{4}$ inch of soil by hand raking or other method that is allowed by the Engineer.
 - Seed applied as a separate operation using a hydroseeder shall have a tracer added to visibly aid uniform application. The tracer shall be HECP Short-Term Mulch applied at a rate of 200 to 250 pounds per acre and the tracer shall carry the measured specified seeding rate.

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

- When the Proposal includes any variation of seeding, fertilizing, and without mulching, the seed and fertilizer shall be applied in one application followed by mulching. West of the Cascade Mountains, seed, fertilizer, and mulch may be completely applied in one application. East of the Cascades, seeding, fertilizing, and mulching shall not be applied as a single application unless allowed by the Engineer in writing prior to application. The fertilizing and mulching shall meet the requirements of Sections 8-02.3(6) and 8-02.3(11).
- 46

1 8-02.3(9)D Inspection 2 Seeded areas will be inspected upon completion of seeding, fertilizing, and 3 mulching. The Work in any area will not be measured for payment until a 4 uniform distribution of the materials is accomplished at the specified rate. Areas 5 that have not received a uniform application of seed, fertilizer, and mulch at the 6 specified rate, as determined by the Engineer, shall be re-seeded, re-fertilized, 7 or re-mulched prior to payment for seeding within a designated area. 8 9 8-02.3(9) E Protection and Care of Seeded Areas 10 The Contractor shall install and establish a stable and weed free stand of grass as specified within all designated permanent seeding areas. A stable stand of 11 12 grass shall meet the following requirements: 13 14 A dense and uniform canopy cover, 70% for Western Washington and 1. 15 50% for Eastern Washington, of specified species covers all seeded 16 areas after 3 months of active growth following germination during the 17 growing season. Canopy cover is defined as the cover of living and 18 vigorous grass blades, leaves, and shoots of specified species. 19 Volunteer species, weeds, woody plants, or other undesirable 20 vegetation shall not factor into the canopy cover. Growth and 21 establishment may require supplemental irrigation to meet cover 22 requirements. 23 24 Stand health is evident by vigorously growing planted species having 2. 25 a uniform rich-green appearance and with no dead patches or major 26 gaps of growth. A stand of grass that displays rusting, wilting, stunted 27 growth, disease, yellowing or browning of leaves, or bare patches 28 does not meet the stand health requirement. 29 30 3. The Contractor shall establish a stable stand of grass free of all 31 weeds, non-specified grasses, and other undesirable vegetation. 32 Weed control shall be in accordance with the Weed and Pest Control 33 Plan and occur on a monthly basis during the establishment period 34 and through the life of the Contract. 35 36 4. Remove all trash, rocks, construction debris, and other obstructions 37 that may be detrimental to the continued establishment of future 38 seeding. 39 40 In addition to the requirements of Section 1-07.13(1), restoration of eroded 41 areas including clean up, removal, and proper disposal of eroded material. 42 filling and raking of eroded areas with Topsoil Type A or fine compost, and re-43 application of the specified seed, fertilizer, and mulch shall occur at no 44 additional cost to the Contracting Agency. 45 46 8-02.3(10) Lawn Installation 47 8-02.3(10)A Dates and Conditions for Lawn Installation 48 In irrigated areas, lawn installation shall not begin until the irrigation system 49 is fully operational. 50 51 Unless otherwise allowed by the Engineer, seeded lawn installation shall be 52 performed during the following time periods at the location shown: 53

Western Washington	Eastern Washington		
(West of the Cascade Mountain	(East of the Cascade Mountain		
Crest)	Crest)		
March 1 through May 15 September 1 through October 1	October 1 through November 15		
When irrigation system is operational	When irrigation system is operational		
March 1 through October 1	March 1 through November 1		

8-02.3(10)B Lawn Seeding and Sodding
The Contractor shall prepare the lawn area in accordance with Section 802.3(5) and apply seed at the mix and rate of application as specified in the
Special Provisions.

The Contractor shall have the option of sodding in lieu of seeding for lawn installation at no additional expense to the Contracting Agency. Seeding in lieu of sodding will not be allowed.

Seed placed by hand shall be raked into the soil. Following raking, the seeded soil shall be rolled with a smooth 50-pound roller. Sod strips shall be placed within 48 hours of being cut. Placement shall be without voids and have the end joints staggered. Following placement, the sod shall be rolled with a smooth roller to establish contact with the soil.

Barriers shall be erected, with warning signs where necessary, to preclude pedestrian traffic access to the newly placed lawn during the establishment period.

8-02.3(10)C Lawn Establishment

Lawn establishment shall consist of caring for all new lawn areas within the limits of the project.

The lawn establishment period shall begin immediately after the lawn seeding or sodding has been accepted by the Engineer and shall extend to the end of four mowings or 20 working days whichever is longer. The mowings shall be done in accordance with Section 8-02.3(10)D.

During the lawn establishment period, the Contractor shall ensure the continuing healthy growth of the turf. This care shall include keeping the project in a presentable condition including, but not limited to, removal of litter, mowing, trimming, removal of grass clippings, edging, fertilization, insecticide and fungicide applications, weed control, watering, repairing the irrigation system, and repair and reseeding all damaged areas.

- Temporary barriers shall be removed only when directed by the Engineer.
 - All Work performed under lawn establishment shall comply with established turf management practices.
- 42 Acceptance of lawn planting as specified will be based on a uniform stand of 43 grass and a uniform grade at the time of final inspection. The Contractor shall 44 recultivate, re-grade, reseed, and refertilize areas that are bare or have a poor 45 stand of grass or not having a uniform grade through any cause before final 46 inspection at no additional cost to the Contracting Agency.

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	8-02.3(10)D Lawn Mowing
2 3	Lawn mowing shall begin immediately after the lawn establishment period has
4	been accepted by the Engineer and shall extend to the end of the Contract or
5	the first-year plant establishment, whichever is last.
6	
7	The Contractor shall accomplish the following minimum requirements:
8 9	
	1. Mow, trim, and edge as often as conditions dictate, at a minimum,
10	once per week between April and September. Maximum height of
11	lawn shall not exceed 3 inches. The cutting height shall be 2 inches.
12	Cuttings, trimmings, and edgings shall be disposed of off the project
13	site. When the Engineer allows the use of a mulching mower,
14	trimmings may be left in place.
15	Q . Motor op offen op oppditiene dietete den ending en weether and asil
16 17	 Water as often as conditions dictate depending on weather and soil
17	conditions.
18 19	3. Provide fertilizer, weed control, water, and other measures as
20	necessary to establish and maintain a healthy stand of grass.
20	necessary to establish and maintain a nearing stand of grass.
$\frac{21}{22}$	8-02.3(11) Mulch
23	Mulches associated with seeding and planting shall be of the type specified in the
24	Special Provisions or as indicated in the Plans. The Contractor shall evenly apply
25	mulch at the rates indicated in the Plans. Mulches shall not be placed below the
26	anticipated water level of ditch slopes, pond bank slopes, and stream banks, or in
27	areas of standing or flowing water.
28	
29	8-02.3(11)A Mulch for Seeding Areas
30	The Contractor shall furnish and evenly apply Hydraulically Applied Erosion
31	Control Product (HECP) Long Term Mulch at the rates indicated and in
32	accordance with the Manufacturer's specifications unless otherwise specified.
33	
34	HECP Long Term Mulch shall be hydraulically applied at the rate of 3500
35	pounds per acre with no more than 2000 pounds applied in any single lift.
36	HECP mulch shall not be used within the Ordinary High Water Mark.
37 38	Muleh arrayed on signs or sign Structures shall be removed the same day
38 39	Mulch sprayed on signs or sign Structures shall be removed the same day.
40	Areas not accessible by mulching equipment shall be mulched by accepted
41	hand methods.
42	
43	HECP Long Term Mulch may be applied with seed and fertilizer west of the
44	summit of the Cascade Range. East of the summit of the Cascade Range,
45	seed and fertilizer shall be applied in a single application followed by the
46	application of mulch.
47	
48	8-02.3(11)B Bark or Woodchip Mulch
49	The Contractor shall apply bark or wood chip mulch of the type and depth
50	specified where shown in the Plans or as specified in the Special Provisions.
51	
52	The Contractor shall complete final grading and placement/incorporation of soil
53	amendments within the planting area prior to placement of mulch. Areas
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1 2	receiving bark mulch shall be bare soil or vegetation free before application, except where trees and other plants are specifically identified in the Plans or
3	designated by the Engineer to be saved and protected.
4 5 6 7 8 9	Bark or wood chip mulch shall be placed to a uniform non-compacted depth of 3 inches over all planting areas unless otherwise specified. Mulch shall be feathered to the base of the plant and 1 inch below the top of junction and valve boxes, curbs, and pavement edges.
10 11 12 13 14	Any contamination of the mulch due to the Contractor's operations shall be corrected to its former condition at no additional cost to the Contracting Agency. Mulch placed to a thickness greater than specified shall be at no additional cost to the Contracting Agency.
14 15 16 17	The Contractor shall keep plant material crowns, runners, and branches free of mulch at all times.
18 19 20 21 22 23 24 25	8-02.3(11)C Bark or Woodchip Mulch Rings The Contractor shall apply mulch rings around plants installed within existing vegetation areas or within seeded areas as shown in the Plans. Bark or wood chip mulch rings shall be applied to the surface of vegetation free amended soil in the isolated plant locations where shown in the Plans or as specified in the Special Provisions. Bark or wood chip mulch shall be placed to a uniform non-compacted depth of 3 inches to a radius of 2 feet around all plants within interplanted plant locations.
26 27 28 29 30 31 32	8-02.3(12) Completion of Initial Planting Upon completion of the initial planting within a designated area, the Engineer will make an inspection of all planting areas. The Engineer will notify the Contractor, in writing, of any replacements or corrective action necessary to meet the plant installation requirements. The Contractor shall replace all plants and associated materials rejected or missing and correct unsatisfactory conditions.
33 34 35	Completion of the initial planting within a designated area includes the following conditions:
36 37 38 39	1. 100 percent of each of the plant material categories are installed as shown in the Plans.
40	2. Planting Area is cleaned up.
41 42 43 44	 Repairs are completed, including but not limited to, full operation of the irrigation system.
45 46	4. Mulch coverage is complete.
40 47 48	5. All weeds are controlled.
48 49 50 51 52	8-02.3(13) Plant Establishment Plant establishment consists of caring for all plants and planting areas within the project limits. The provisions of Sections 1-07.13(2) and 1-07.13(3) do not apply to this Section.
53	City of Lynnwood May 2019

When the Proposal includes the bid item PSIPE_____ (Plant Selection Including Plant Establishment), that bid item includes one year of plant establishment Work. The first year of plant establishment shall begin immediately upon written notification from the Engineer of the completion of initial planting for the project. The first-year plant establishment period shall be a minimum of one calendar year. The one calendar year shall be extended an amount equal to any periods where the Contractor does not comply with the plant establishment requirements and plan.

During the first-year plant establishment period, the Contractor shall perform all Work necessary to ensure the resumption and continued growth of the transplanted material. This Work shall include, but is not limited to, applying water, removing foreign, dead, or rejected plant material, maintaining all planting areas in a weedfree condition, and replacing all unsatisfactory plant material planted under the Contract. If plants are stolen or damaged by the acts of others, the Contracting Agency will pay invoice cost only for the replacement plants with no mark-up and the Contractor will be responsible for the labor to install the replacement plants. Other weed control within the project limits but outside of planting, lawn, or seeding areas shall be as specified in Section 8-02.3(3)C.

- 20 During the first year of plant establishment, the Contractor shall meet monthly or at 21 an agreed upon schedule with the Engineer for the purpose of joint inspection of the 22 planting material. The Contractor shall correct all unsatisfactory conditions 23 identified by the Engineer within a 10-day period immediately following the 24 inspection. If plant replacement is required, the Contractor shall, within the 10-day 25 period, submit a plan and schedule for the plant procurement and replacement to 26 occur during the planting period as designated in Section 8-02.3(8). At the end of 27 the plant establishment period, plants that do not show normal growth shall be 28 replaced and all staking and guying that remain on the project shall be removed 29 unless otherwise allowed by the Engineer.
- All automatic irrigation systems shall be operated fully automatic during the plant
 establishment period and until final acceptance of the Contract. Payment for water
 used to water in plants, or hand watering of plant material or lawn areas unless
 otherwise specified, is the responsibility of the Contractor during the first-year plant
 establishment period.
- Subsequent year plant establishment periods shall begin immediately at the
 completion of the preceding year's plant establishment period. Each subsequent
 plant establishment period shall be one full calendar year in duration.
- 41 During the plant establishment period(s) after the first year plant establishment, the
 42 Work necessary for the continued healthy and vigorous growth of all plants material
 43 shall be performed as directed by the Engineer.
- 45 Payment for water used to water plants during the subsequent year(s) of plant
 46 establishment will be paid under the plant establishment item.
 47
 - 8-02.3(14) Plant Replacement
- The Contractor shall be responsible for growing or arrange to provide sufficient
 plants for replacement of all plant material rejected through first-year plant
 establishment. All replacement plant material shall be inspected and accepted by
 the Engineer prior to installation. All rejected plant material shall be replaced with

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acceptable plants meeting the specifications and installed according to the requirements of this Section at dates allowed by the Engineer.

All replacement plants shall be of the same species as the plants they replace and meet the requirements of Section 9-14.8 unless otherwise allowed by the Engineer. Plants may vary in size reflecting one season of growth should the Contractor elect to hold plant material under nursery conditions for an additional year to serve as replacement plants. Replacement plant material larger than specified in the Plans shall meet the applicable section requirements of the ASNS for container class, ball size, spread, and branching characteristics.

8-02.3(15) Bioengineering

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Bioengineering consists of using plant materials for the purpose of streambank or
 earthen slope construction and surface stabilization. This Work may include
 installing woody plant cuttings in various forms as well as part of streambank or
 earthen slope construction.

8-02.3(15)A Fascines

Live fascines shall be constructed of live and dead cuttings bundled together with a diameter of 8 to 18 inches. Live cuttings shall be the species shown in the Plans. Dead branches may be cuttings from any woody, non-invasive plant native to the project area. Dead branches may be placed within the live fascine and on the side exposed to the air. Live branches shall be placed in contact with the soil along their entire length. Each live fascine must contain a minimum of eight live branches. Dead branches shall constitute no more than 40 percent of the total fascine content.

28 The total length of each live fascine shall be a minimum of 5 feet. Branches 29 shall be bundled into log-like forms and bound with biodegradable twine 30 spaced at 1-foot intervals along the entire length of the live fascine. Live 31 fascines shall be installed horizontally in a trench whose depth shall be ¹/₂ the 32 diameter of the live fascine. Secure the live fascine with live stakes 3 feet in 33 length and ³/₄ inch in diameter placed at 18-inch intervals. A minimum of three 34 live stakes shall be used per fascine. The live stakes shall be driven through 35 the live fascine vertically into the slope. The ends of live fascines shall be 36 woven together so that no gap remains between the two sections of the 37 live fascine.

- Prior to being covered with soil, the fascine shall be thoroughly watered. Once
 the fascine is covered with 6 inches of soil, the soil covering the fascine shall
 be thoroughly watered.
 - When used to remedy erosion areas, live fascines shall extend a minimum of two feet beyond the visible area of erosion and soil disturbance. The locations for live fascines and live stake rows shall be identified in the field for review and acceptance by the Engineer. The Engineer may require adjustment of fascine locations prior to installation in order to best accomplish the intended functions.
- 48
 49 Plant replacement during plant establishment for "PSIPE Live Fascine" will be
 50 required for any section void of live shoots for a length of 3 feet or more.
 51 Replacement shall consist of installing live stakes, spaced 1 foot apart above
 52 the fascine within the area void of live shoots. Live stakes shall be of the same
- 52 the fascine within the area void of live shorts. Live stakes shall be of the same 53 species as the live fascine and shall have a minimum length of 3 feet and a

minimum diameter of ³/₄ inch. The requirements of Section 8-02.3(8) apply to
 PSIPE Live Fascine.

8-02.3(15)B Brush Mattress

Live brush mattress shall be constructed of live branch cuttings, live poles, jute rope and topsoil. The live cuttings and live poles shall be from the plant species designated in the Plans. Live branch cuttings shall be placed with the cut ends oriented down slope as shown in the Plans. Cuttings shall overlap from side to side and from top to bottom as each layer is constructed. The live branches in each succeeding upper layer shall overlap the adjacent lower layer by a minimum of 6 inches. A maximum of 20 percent of the branches may be dead branches, but the live branches shall be distributed evenly to provide even rooting and growth over the entire area of the brush mattress.

- 15 The Contractor shall anchor the live brush mattress to the slope using stakes 16 and jute rope as shown in the Plans. Initially, the stakes shall be installed to 17 protrude above the live brush mattress. The Contractor shall attach the jute 18 rope to the stakes and tighten the rope by tamping the stakes further into the 19 bank, pulling the live brush mattress tight against the soil surface. The 20 Contractor shall cover the live brush mattress with sufficient stockpiled topsoil 21 to ensure good soil contact with the live plant material.
- Plant replacement during plant establishment for "PSIPE Live Brush Mattress"
 will be required for any section void of live shoots for an area of 25 square feet
 or more. Replacement shall consist of installing live stakes, spaced 3 feet
 apart in a triangular pattern within the area void of live shoots. Live stakes
 shall be of the same species as the live brush mattress and shall have a
 minimum length of 3 feet and a minimum diameter of ¾ inch. The requirements
 of Section 8-02.3(8) apply to PSIPE Brush Mattress.

8-02.3(15)C Brush Layer

- Brush layers shall be constructed of live branch cuttings, randomly mixed, from the plant species listed under the brush layer heading in the Plans. The number of branches required will vary depending on the average branch diameter and layer thickness.
- Brush layers shall be placed in a trench dug at a 45 degree incline into the slope or stream bank. Two-thirds to three-fourths of the length of the live branches shall be buried. Soil shall be firmly tamped in place. Succeeding layers shall be spaced as detailed in the Plans. Brush layer placed in stream banks shall be angled downstream.
 - Brush layers may include plant establishment when designated as PSIPE Brush Layer. Plant replacement for PSIPE Brush Layer will be required for each section void of live shoots for a continuous distance of 3 feet or more. The requirements of Section 8-02.3(8) apply to PSIPE Brush Layer.

8-02.3(16) Roadside Maintenance Under Construction

- When the Contract includes the item, Roadside Maintenance Under Construction,
 this Work includes roadside mowing and ditch maintenance, and noxious weed
 control outside of planting areas according to Section 8-02.3(3)C.
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1 2 3 4	8-02.3(16)A Roadside Mowing The Contractor shall mow designated roadside grass areas to the limits designated by the Engineer. Roadside mowing is limited to slopes not steeper than 3(H) to 1(V).
5 6 7	The Contractor shall mow according to the following requirements:
8 9 10 11	 Trim around traffic equipment, structures, planting areas, or other features extending above ground preceding or simultaneously with each mowing.
11 12 13	2. Maintain grass between 4 and 12 inches in height.
14 15 16 17	 Operate mowing equipment with suitable guards to prevent throwing rocks or debris onto the traveled way or off of the Contracting Agency property. Power driven equipment shall not cause ruts, deformation, and compaction of the vegetated soil.
18 19 20 21	 Removing clippings is required on the traveled way, shoulders, walkways, or Structures.
21 22 23 24	5. Restore soil rutting to a smooth and even grade at the direction of the Engineer.
25 26 27	8-02.3(16)B Ditch Maintenance The Contractor shall maintain drainage for the duration of the Contract according to the following requirements:
28 29 20	1. Maintain flow lines in drainage channels and roadside ditches.
30 31 32 33	 Cutting or trimming vegetation within drainage channels to maintain positive flow.
34 35 36 37	 Remove dirt and debris from inside of culverts or any drainage area where runoff has allowed accumulations and re-seed for erosion control.
38 39	4. Restore channels to previous operational condition.
40	8-02.4 Measurement
41	Topsoil, bark or woodchip mulch and soil amendments will be measured by the acre or
42	the square yard along the grade and slope of the area covered immediately after
43	placement. Weed control pre-treatment of topsoil areas, excavation, and stockpiling are
44	included in the bid item "Topsoil Type
45	
46 47	Bark or woodchip mulch rings will be measured per each.
48	Compost will be measured by the acre or the square yard along the grade and slope of
49 50	the area covered immediately after application.
51 52 53	Seeding, fertilizing, and mulching will be measured by the acre or the square yard by ground slope measurement or through the use of design data.
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1 2 3	Seeding and fertilizing by hand will be measured by the square yard. No adjustment in area size will be made for the vegetation free zone around each plant.
4 5 6 7	Seeded lawn, sod installation, and lawn mowing will be measured along the ground slope and computed in square yards of actual lawn completed, established, and accepted.
7 8 9	Plant selection will be measured per each.
10 11	PSIPE (Plant Selection Including Plant Establishment) will be measured per each.
12 13	Live Pole will be measured per each.
13 14 15	Live Stake Row will be measured by the linear foot along the ground slope line.
16 17 18	The pay quantities for plant materials will be determined by count of the number of satisfactory plants in each category accepted by the Engineer.
19 20 21	Fascine and PSIPE live fascine will be measured by the linear foot along the ground slope line.
21 22 23 24	Brush mattress and PSIPE live brush mattress will be measured by the surface square yard along the ground slope line.
24 25 26 27	Brush layer and PSIPE brush layer will be measured by the linear foot along the ground slope line.
27 28 29 30	Water will be measured in accordance with Section 2-07.4. Measurement will be made of only that water hauled in tank trucks or similar equipment.
31 32 33	8-02.5 Payment Payment will be made for each of the following listed Bid items that are included in the Proposal:
34 35 36	"Project Area Weed and Pest Control" will be paid in accordance with Section 1- 09.6.
37 38 39 40	For the purpose of providing a common Proposal for all Bidders, the Contracting Agency entered an amount for "Project Area Weed and Pest Control" in the Proposal to become a part of the total Bid by the Contractor. Payment under this item will be made only when the Work is not already covered by other items.
41 42 43 44 45	"Topsoil Type", per acre. The unit Contract price per acre for "Topsoil Type" shall be full payment for all costs for the specified Work.
43 46 47 48 49 50 51	"Fine Compost ", per acre or per square yard. "Medium Compost", per acre or per square yard. "Coarse Compost", per acre or per square yard. The unit Contract price per acre for "Fine Compost", "Medium Compost" or "Coarse Compost" shall be full pay for furnishing and spreading the compost onto the existing soil.
52 53	"Soil Amendment", per acre.

1	The unit Contract price per acre for "Soil Amendment" shall be full pay for furnishing
2	and incorporating the soil amendment into the existing soil.
2 3	
3	
4	"Plant Selection", per each.
5	The unit Contract price for "Plant Selection", per each shall be full pay for all
6	Work to perform the work as specified within the planting area prior to planting for
7	weed control, planting area preparation and installation of plants with initial
8	watering.
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10	As the plants that do not include plant establishment are obtained, propagated, and
11	grown, partial payments will be made as follows:
12	
13	Payment of 15 percent of the unit Contract price per each when the plant
14	materials have been contracted, propagated, and are growing under nursery
15	conditions. The Contractor shall provide the Engineer with certification that the
16	plant material has been procured or contracted for delivery to the project for
17	planting within the time limits of the project. The certification shall state the
18	location, quantity, and size of all material.
19	
20	Payment will be increased to 100 percent of the unit Contract price per each for
21	contracted plant material at the completion of the initial planting.
22	
23	All partial payments shall be limited to the actual number of healthy vigorous
24	plants that meet the stage requirements, limited to plan quantity. Previous
25	partial payments made for materials rejected or missing will be deducted from
26	future payments due the Contractor.
27	
28	"PSIPE", per each.
29	The unit Contract price for "PSIPE", per each, shall be full pay for all Work
30	necessary to perform as specified within the planting area for weed control and
31	planting area preparation, planting, cleanup, and water necessary to complete
32	planting operations as specified to the end of first year plant establishment.
	planting operations as specified to the end of first year plant establishment.
33	
34	As the plants that include plant establishment are obtained, propagated, and grown,
35	partial payments will be made as follows after inspection by the Engineer:
36	
37	Dowmont of 5 porcent of the unit Contract price, per each when the plant
	Payment of 5 percent of the unit Contract price, per each, when the plant
38	materials have been contracted, propagated, and are growing under nursery
39	conditions. The Contractor shall provide the Engineer with certification that the
40	plant material has been procured or contracted for delivery to the project for
41	planting within the time limits of the project. The certification shall state the
42	location, quantity, and size of all material.
43	
44	Payment will be increased to 15 percent of the unit Contract price, per each,
45	upon completion of the initial weed control and planting area preparation Work.
46	apen completion of the initial week control and planting area preparation work.
47	Payment will be increased to 60 percent of the unit Contract price per each for
48	the contracted plant material in a designated unit area when planted.
49	· · · · · ·
50	Payment will be increased to 70 percent of the unit Contract price per each for
	• • • •
51	contracted plant material at the completion of the initial planting.
52	

1 2 3	Payment will be increased to the appropriate percentage upon reaching the following plant establishment milestones:				
4 5	June 30th 80 percent				
5 6 7	September 30th 90 percent				
8 9 10 11	Completion of first-year plant establishment or after all 100 percent replacement plants have been installed, whichever is later.				
11 12 13 14	Plant establishment milestones are achieved when planting areas meet conditions described in Section 8-02.3(13).				
15 16	"Seeding, Fertilizing and Mulching", per acre.				
17 18	"Seeding and Fertilizing", per acre or per square yard.				
19 20	"Seeding and Fertilizing by Hand", per square yard.				
20 21 22	"Second Application of Fertilizer", per acre.				
23	"Seeding and Mulching", per acre.				
24 25 26 27 28 29 30 31 32	"Seeded Lawn Installation", per square yard. "Sod Installation", per square yard. "Lawn Mowing", per square yard. The unit Contract price per square yard for "Seeded Lawn Installation" or "Sod Installation" shall be full pay for all costs necessary to prepare the area, plant or sod the lawn, erect barriers, control weeds, and establish lawn areas and for furnishing all labor, tools, equipment, and materials necessary to complete the Work as specified and shall be paid in the following sequence for healthy, vigorous lawn:				
33 34 35	Completion of Lawn Planting 60 percent of individual areas				
36 37	Mid Lawn Establishment (after two mowings) 85 percent of individual areas				
38 39 40	Completion of Lawn Establishment 100 percent of individual areas (after four mowings)				
40 41 42 43 44 45	"Plant Establishment Year" will be paid in accordance with Section 1-09.6. For the purpose of providing a common Proposal for all Bidders, the Contracting Agency entered an amount for "Plant Establishment Year" in the Proposal to become a part of the total Bid by the Contractor.				
46 47	"Live Pole", per each.				
48 49	"Live Stake Row", per linear foot.				
50 51	"Bark or Wood Chip Mulch", per acre.				
52	"Bark or Wood Chip Mulch Rings", per each.				

1 2 3		ice per acre for "Bark or Wood Chip Mulch" shall be full pay for ading the mulch onto the existing soil.
4 5 6 7 8 9	"Brush Mattress" an "Brush Layer" and "	PE Live Fascine", per linear foot. d "PSIPE Live Brush Mattress", per square yard. PSIPE Brush Layer", per linear foot. uded with Fascine, Brush Mattress, or Brush Layer, the payment will apply.
10 11 12 13 14 15	1-09.6. For the purpose of p Agency has entered	ance under Construction" will be paid in accordance with Section providing a common Proposal for all Bidders, the Contracting I an amount for "Roadside Maintenance Under Construction" in tome a part of the total Bid by the Contractor.
16 17 18	"Water", per M Gal.	
19 20	Section 8-04, Curbs, Gut April 2, 2018	ters, and Spillways
21 22 23	8-04.2 Materials In the first paragraph, the refe	erence to "Portland Cement" is revised to read:
23 24 25	Cement 9-	01
26 27 28	8-04.3(1) Cement Concre The first paragraph is supple	ete Curbs, Gutters, and Spillways mented with the following:
29 30 31		cement concrete curb and gutter shall be constructed with air 4000 conforming to the requirements of Section 6-02.
32 33	Section 8-06, Cement Co April 2, 2018	ncrete Driveway Entrances
34 35 36	8-06.2 Materials In the first paragraph, the refe	erence to "Portland Cement" is revised to read:
30 37 38	Cement 9-	01
39 40 41	8-06.3 Construction Req The first paragraph is revised	
42 43 44 45 46	Class 4000 conforming t	ay approaches shall be constructed with air entrained concrete o the requirements of Section 6-02 or Portland Cement or ent Concrete Pavement conforming to the requirements of

1 Section 8-07, Precast Traffic Curb

2 April 2, 2018

3 8-07.3(1) Installing Curbs

4 The first sentence of the first paragraph is revised to read: 5

The curb shall be firmly bedded for its entire length and breadth on a mortar bed conforming to Section 9-20.4(3) composed of one part Portland cement or blended hydraulic cement and two parts sand.

- 10 The fourth paragraph is revised to read:
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All joints between adjacent pieces of curb except joints for expansion and/or drainage as
 designated by the Engineer shall be filled with mortar composed of one part Portland
 cement or blended hydraulic cement and two parts sand.

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16 Section 8-09, Raised Pavement Markers

17 April 1, 2019

18 8-09.5 Payment

- 19 The last paragraph is revised to read:
- 20
- The unit Contract price per hundred for "Raised Pavement Marker Type 1", "Raised
 Pavement Marker Type 2", "Raised Pavement Marker Type 3_____ In.", and
 "Recessed Pavement Marker" shall be full pay for furnishing and installing the markers
 in accordance with these Specifications.
- 26 Section 8-11, Guardrail
- 27 April 1, 2019

28 8-11.3(1)A Erection of Posts

- 29 The first sentence of the first paragraph is revised to read:
- 30
- Posts shall be set to the true line and grade of the Highway after the grade is in place
 and compaction is completed.

34 8-11.3(1)C Terminal and Anchor Installation

35 The first paragraph is revised to read:

- All excavation and backfilling required for installation of anchors shall be performed in
 accordance with Section 2-09, except that the costs thereof shall be included in the unit
 Contract price for the anchor installed.
- 40

- 41 The first sentence of the second to last paragraph is revised to read:42
- Assembly and installation of Beam Guardrail Non-flared Terminals for Type 31 guardrail
 shall be supervised at all times by a manufacturer's representative, or an installer who
 has been trained and certified by the manufacturer.
- 46
- 47 The last paragraph is revised to read:
- 48

1 2 3	Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the crash test and evaluation criteria in the Manual for Assessing Safety Hardware (MASH).
4 5 6	8-11.4 Measurement The third paragraph is revised to read:
7 8 9	Measurement of beam guardrail terminal will be per each for the completed terminal.
10 11	The fourth paragraph is revised to read:
12 13 14	Measurement of beam guardrail Type 31 buried terminal Type 2 will be per linear foot for the completed terminal.
15 16	The sixth paragraph is revised to read:
17 18 19	Measurement of beam guardrail anchor Type 10 will be per each for the completed anchor, including the attachment of the anchor to the guardrail.
20 21 22 23	8-11.5 Payment The Bid item "Beam Guardrail Anchor Type", per each is revised to read "Beam Guardrail Anchor Type 10", per each.
24 25	The Bid item "Beam Guardrail Buried Terminal Type 1", per each is deleted from this section.
26 27 28	The Bid item "Beam Guardrail Buried Terminal Type 2", per linear foot and the following paragraph are revised to read:
29 30	"Beam Guardrail Type 31 Buried Terminal Type 2", per linear foot.
31 32 33 34	The unit Contract price per linear foot for "Beam Guardrail Type 31 Buried Terminal Type 2" shall be full payment for all costs to obtain and provide materials and perform the Work as described in Section 8-11.3(1)C.
34 35 36	Section 8-14, Cement Concrete Sidewalks April 2, 2018
37 38 39	8-14.2 Materials In the first paragraph, the reference to "Portland Cement" is revised to read:
40 41	Cement 9-01
42 43 44	In the second paragraph, each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595".
45 46	Section 8-16, Concrete Slope Protection April 2, 2018
47 48 49	8-16.2 Materials In the first paragraph, the last two material references are revised to read:

1 2	Poured Portland Cement or Blended Hydraulic Cement Concrete Slope Protection	9-13.5(2)
3	Pneumatically Placed Portland Cement or Blended	
4	Hydraulic Cement Concrete Slope Protection	9-13.5(3)
5		. ,

- 6 Section 8-17, Impact Attenuator Systems
- 7 January 7, 2019

8 8-17.3 Construction Requirements

9 This section is supplemented with the following:

- 10
- Permanent impact attenuators shall meet the crash test and evaluation criteria of the
 Manual for Assessing Safety Hardware (MASH), except as otherwise noted in the Plans
 or Special Provisions.
- 13 14

15 Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation

- 16 Systems, and Electrical
- 17 August 6, 2018

18 8-20.1(1) Regulations and Code

- 19 The last paragraph is revised to read:
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Persons performing electrical Work shall be certified in accordance with and supervised
 as required by RCW 19.28.161. Proof of certification shall be worn at all times in
 accordance with WAC 296-46B-942. Persons failing to meet these certification
 requirements may not perform any electrical work, and shall stop any active electrical
 work, until their certification is provided and worn in accordance with this Section.

27 8-20.2(2) Equipment List and Drawings

28 This section is renumbered:29

8-20.2(1) Equipment List and Drawings

32 **8-20.3(4)** Foundations

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

Concrete for Type II, III, IV, V, and CCTV signal standards and light standard foundations shall be Class 4000P and does not require air entrainment.

38 8-20.3(5)A General

- 39 The last two sentences of the last paragraph is deleted.
- 40
- 41 This section is supplemented with the following:
- 42
- All conduits shall include a pull tape with the equipment grounding conductor. The pull
 tape shall be attached to the conduit near the end bell or grounded end bushing, or to
 duct plugs or caps if present, at both ends of the conduit.

47 8-20.3(8) Wiring

48 The seventeenth paragraph is supplemented with the following:

49

Pulling tape shall meet the requirements of Section 9-29.1(10). Pull string may not be used.

8-20.3(14)C Induction Loop Vehicle Detectors

- Item number 2 is deleted.
- Item numbers 3 through 12 are renumbered to 2 through 11, respectively.
- 9 Section 8-21, Permanent Signing
- 10 January 7 2019

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11 8-21.3(5) Sign Relocation

- 12 The second sentence of the first paragraph is revised to read: 13
 - Where the existing sign Structure is mounted on concrete pedestals, the Contractor shall remove the pedestal to a minimum of 2 feet below finished grade and backfill the remaining hole with material similar to that surrounding the hole.
- 18 8-21.3(9)F Foundations
- 19 Item number 3 of the twelfth paragraph is supplemented with the following new sentence: 20
 - Class 4000P concrete for roadside sign structures does not require air entrainment.
- 23 Section 8-22, Pavement Marking
- 24 January 7, 2019

25 8-22.3(2) Preparation of Roadway Surfaces

- 26 The second paragraph is revised to read: 27
 - Remove all other contaminants from pavement surfaces that may adversely affect the installation of new pavement marking.

31 8-22.3(3)F Application Thickness

- 32 The second to last sentence of the last paragraph is revised to read: 33
 - After grinding, clean the groove.
- 34 35
- 36 9

37 Section 9-00, Definitions and Tests

- 38 January 7, 2019
- 39 9-00.4 Sieves for Testing Purposes
- 40 This section is revised to read:
- 41
- 42 Test sieves shall be made of either: (1) woven wire cloth conforming to ASTM E11, or 43 (2) square-hole, perforated plates conforming to ASTM E323.
- 44

45 9-00.7 Galvanized Hardware, AASHTO M 232

- The first sentence is revised to read: 46 47
- 48 An acceptable alternate to hot-dip galvanizing in accordance with AASHTO M 232 will 49 be zinc coatings mechanically deposited in accordance with ASTM B695, providing the

- minimum thickness of zinc coating is not less than that specified in AASHTO M 232, and the process will not produce hydrogen embrittlement in the base metal.
- 3 4 Section 9-02, Bituminous Materials
- 5 January 7, 2019

6 9-02.1 Asphalt Material, General 7

The second paragraph is revised to read:

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9 The Asphalt Supplier of Performance Graded (PG) asphalt binder and emulsified asphalt 10 shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 2 "Standard 11 Practice for Asphalt Suppliers That Certify Performance Graded and Emulsified 12 Asphalts". The Asphalt Supplier's QCP shall be submitted and receive the acceptance of 13 the WSDOT State Materials Laboratory. Once accepted, any change to the QCP will 14 require a new QCP to be submitted for acceptance. The Asphalt Supplier of PG asphalt 15 binder and emulsified asphalt shall certify through the Bill of Lading that the PG asphalt 16 binder or emulsified asphalt meets the Specification requirements of the Contract.

18 9-02.1(4) Performance Graded Asphalt Binder (PGAB)

19 This section's title is revised to read: 20

Performance Graded (PG) Asphalt Binder

23 The first paragraph is revised to read: 24

PG asphalt binder meeting the requirements of AASHTO M 332 Table 1 of the grades specified in the Contract shall be used in the production of HMA. For HMA with greater than 20 percent RAP by total weight of HMA, or any amount of RAS, the new asphalt binder, recycling agent and recovered asphalt (RAP and/or RAS) when blended in the proportions of the mix design shall meet the PG asphalt binder requirements of AASHTO M 332 Table 1 for the grade of asphalt binder specified by the Contract.

- 30 31
- 32 The second paragraph, including the table, is revised to read:
- 33 34

In addition to AASHTO M 332 Table 1 specification requirements, PG asphalt binders 35 shall meet the following requirements:

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		Additional Requirements by Performance Grade (PG) Asphalt Binders					
Property	Test Method	PG58S- 22	PG58H- 22	PG58V- 22	PG64S-28	PG64H- 28	PG64V- 28
RTFO Residue: Average Percent Recovery @ 3.2 kPa	AASHTO T 3501			30% Min.	20% Min.	25% Min.	30% Min.

¹Specimen conditioned in accordance with AASHTO T 240 – RTFO.

- 37 38
 - The third paragraph is revised to read:

1 2	The RTFO J _{nrdiff} and the PAV direct tension specifications of AASHTO M 332 are not required.
2 3	
4	
5 6 7	9-02.1(6) Cationic Emulsified Asphalt This section is revised to read:
8 9	Cationic Emulsified Asphalt meeting the requirements of AASHTO M 208 Table 1 of the grades specified in the Contract shall be used.
10 11 12	9-02.5 Warm Mix Asphalt (WMA) Additive This section, including title, is revised to read:
13 14 15	9-02.5 HMA Additive Additives for HMA shall be accepted by the Engineer.
16	
17 18	Section 9-03, Aggregates January 7, 2019
19 20	9-03.1 Aggregates for Portland Cement Concrete This section's title is revised to read:
21 22 23	Aggregates for Concrete
23 24	9-03.1(1) General Requirements
25 26	The first two sentences of the first paragraph are revised to read:
27 28 29	Concrete aggregates shall be manufactured from ledge rock, talus, or sand and gravel in accordance with the provisions of Section 3-01. Reclaimed aggregate may be used if it complies with the specifications for concrete.
30 31 32	The second paragraph (up until the colon) is revised to read:
32 33 34	Aggregates for concrete shall meet the following test requirements:
35 36	The second sentence of the second to last paragraph is revised to read:
37 38 39 40	The Contractor shall submit test results according to ASTM C1567 through the Engineer to the State Materials Laboratory that demonstrate that the proposed fly ash when used with the proposed aggregates and cement will control the potential expansion to 0.20 percent or less before the fly ash and aggregate sources may be used in concrete.
40 41	percent of less before the ny ash and aggregate sources may be used in concrete.
42	9-03.1(2) Fine Aggregate for Portland Cement Concrete
43	This section's title is revised to read:
44 45 46	Fine Aggregate for Concrete
46 47	9-03.1(4) Coarse Aggregate for Portland Cement Concrete
47 48 49	This section's title is revised to read:
50 51	Coarse Aggregate for Concrete

HMA Class
9-03.8(2) HMA Test Requirements The two tables in the second paragraph are replaced with the following three tables:
Aggregates for Hot Mix Asphalt shall meet the following test requirements:
The first paragraph (up until the colon) is revised to read:
9-03.8(1) General Requirements
Treatment shall meet the following test requirements:
Aggregate for bituminous surface treatment shall be manufactured from ledge rock, talus, or gravel, in accordance with Section 3-01. Aggregates for Bituminous Surface
Aggregate for bituminous ourfood treatment abolt he manufactured from lades real
The first paragraph (up until the colon) is revised to read:
9-03.4(1) General Requirements
hard, strong, durable particles free from adherent coating.
Fine aggregate for portland cement or blended hydraulic cement mortar shall consist or sand or other inert materials, or combinations thereof, accepted by the Engineer, having the second seco
The first sentence of the first paragraph is revised to read:
Aggregate for Job-Mixed Portland Cement or Blended Hydraulic Cement Mortar
This section's title is revised to read:
9-03.2 Aggregate for Job-Mixed Portland Cement Mortar
"FOP for WAQTC/AASHTO T 27/T 11".
In the last paragraph, "WSDOT FOP for WAQTC/AASHTO T 27/T 11" is revised to read
9-03.1(5)B Grading
Combined Aggregate Gradation for Concrete
This section's title is revised to read:
9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete
Specifications, Special Provisions, or in the Plans:
Coarse aggregate for concrete when separated by means of laboratory sieves shall conform to one or more of the following gradings as called for elsewhere in these
Coorse aggregate for concrete when concreted by means of laboratory signed shall

	HMA Class							
Mix Criteria	⅔ inch		½ inch		¾ inch		1 inch	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Voids in Mineral Aggregate (VMA), %	15.0		14.0		13.0		12.0	
Voids Filled With Asphalt	: (VFA), %							
ESAL's (millions)	ESAL's (millions) VFA							
< 0.3	70	80	70	80	70	80	67	80
0.3 to < 3	65	78	65	78	65	78	65	78
≥ 3	73	76	65	75	65	75	65	75

Dust/Asphalt Ratio	0.6	1.6	0.6	1.6	0.6	1.6	0.6	1.6
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Test Method	ESAL's (millions)	Number of Passes
Hamburg Wheel-Track Testing, FOP for AASHTO T 324 Minimum Number of	< 0.3	10,000
Passes with no Stripping Inflection Point	0.3 to < 3	12,500
and Maximum Rut Depth of 10mm	≥ 3	15,000
Indirect Tensile (IDT) Strength (psi) of Bitu D6931	M 175 Maximum	

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	ESAL's (millions)	N initial	N design	N maximum
	< 0.3	≤ 91.5	96.0	≤ 98.0
% Gmm	0.3 to < 3	≤ 90.5	96.0	≤ 98.0
	≥ 3	≤ 89.0	96.0	≤ 98.0
Curatory Composition	< 0.3	6	50	75
Gyratory Compaction (number of gyrations)	0.3 to < 3	7	75	115
	> 3	8	100	160

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4 9-03.8(7) HMA Tolerances and Adjustments

5 In the table in item number 1, the fifth row is revised to read:

Asphalt binder	-0.4% to 0.5%		±0.7%
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In the table in item number 1, the following new row is inserted before the last row:

Voids in Mineral	-1.0%	
Aggregate, VMA		

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11 9-03.9(1) Ballast

12 The second paragraph (up until the colon) is revised to read:

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- 14 15

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16 9-03.14(4) Gravel Borrow for Structural Earth Wall

- 17 The second sentence of the first paragraph is revised to read: 18
- The material shall be substantially free of shale or other soft, poor durability particles,
 and shall not contain recycled materials, such as glass, shredded tires, concrete rubble,
 or asphaltic concrete rubble.

23 9-03.21(1)B Recycled Concrete Aggregate Approval and Acceptance

Aggregates for ballast shall meet the following test requirements:

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

- Recycled concrete aggregate may be used as coarse aggregate or blended with coarse aggregate for Commercial Concrete, Class 3000 concrete, or Cement Concrete Pavement.
- 30 Item number 4 of the second paragraph is revised to read:31

- 4. For Cement Concrete Pavement mix designs using recycled concrete aggregates, the Contractor shall submit evidence that ASR mitigating measures control expansion in accordance with Section 9-03.1(1).
- This section is supplemented with the following new subsection:

9-03.21(1)B1 Recycled Concrete Aggregate Approval and Acceptance

Recycled concrete aggregate may be approved through a three tiered system that consists of the following:

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	Tier 1				
Approval Requirements	Approval of the Reclamation Facility is not required.				
Acceptance Requirements	Certification of toxicity characteristics in accordance				
	with Section 9-03.21(1).				
	Field acceptance testing in accordance with Section 3-				
	04.				
Approved to pro	ovide the following Aggregate Materials:				
9-03.10 Aggregate for Gravel Base	9				
9-03.12(1)B Gravel Backfill for Fou	Indations Class B				
9-03.12(2) Gravel Backfill for Walls					
9-03.12(3) Gravel Backfill for Pipe	Zone Bedding				
9-03.14(1) Gravel Borrow					
9-03.14(2) Select Borrow					
9-03.14(2) Select Borrow (greater f	than 3 feet below subgrade and side slope)				
9-03.14(3) Common Borrow					
9-03.14(3) Common Borrow (great	ter than 3 feet below subgrade and side slope)				
9-03.17 Foundation Material Class	A and Class B				
9-03.18 Foundation Material Class	i C				
9-03.19 Bank Run Gravel for Trend	ch Backfill				

	Tier 2				
Approval Requirements	The Reclamation Facility shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 9 "Standard Practice for Approval of Reclamation Facilities of WSDOT Recycled Concrete and Returned Concrete". The Reclamation Facility's QCP shall be submitted and approved by the WSDOT State Materials Laboratory. Once accepted, any changes to the QCP will require a new QCP to be submitted for acceptance. Evaluation of aggregate source properties (LA Wear and Degradation) for the recycled concrete aggregate is not required.				
Acceptance Requirements	Certification of toxicity characteristics in accordance with Section 9-03.21(1), required if requested. Field acceptance testing in accordance with Section 3- 04 is required. Provide certification in accordance with WSDOT QC 9 for every lot. A lot shall be no larger than 10,000 tons.				
Approved to provid	le the following Aggregate Materials:				
Tier 1 aggregate materials 9-03.1 Coarse Aggregate for Commerce 9-03.9(1) Ballast	Tier 1 aggregate materials 9-03.1 Coarse Aggregate for Commercial Concrete or Concrete class 3000				

	Tier 3
Approval Requirements	The Reclamation Facility shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 10 "Standard Practice for Approval of Reclamation Facilities of Recycled Concrete Aggregates from Stockpiles of Unknown Sources". The Reclamation Facility's QCP shall be submitted and approved by the WSDOT State Materials Laboratory. Once accepted, any changes to the QCP will require a new QCP to be submitted for acceptance. Evaluation of aggregate source properties (LA Wear and Degradation) for the recycled concrete aggregate is
Acceptance Requirements	required. Certification of toxicity characteristics in accordance with Section 9-03.21(1) is required. Field acceptance testing in accordance with Section 3- 04 is required. Provide certification in accordance with WSDOT QC 10 for every lot. A lot shall be no larger than 10,000 tons
Approved to p	rovide the following Aggregate Materials:
Tier 1 aggregate materials	mercial Concrete or Concrete class 3000
9_03 $9(3)$ Crushed Surfacing	

9-03.9(3) Crushed Surfacing

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

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3 For Reclamation Facilities that do not participate in Tier 2 and Tier 3, approval of 4 recycled concrete aggregate will be in accordance with Section 9-03.21(1), and 5

acceptance will be in accordance with Section 3-04.

7 9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled 8 Material

9 "Portland Cement" is deleted from the first two rows in the table.

10 11 The following new row is inserted after the second row:

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Coarse Aggregate for Concrete Pavement	9-03.1(4)	0	100	0	0
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14 The first column of the fourth row (after the preceding Amendment is applied) is revised to 15 read:

- 16
- 17 Coarse Aggregate for Commercial Concrete and Class 3000 Concrete
- 18

1 2 3	9 Section 9-04, Joint and Crack Sealing Materials January 7, 2019
4 5	This section's title is revised to read:
5 6 7	Joint Sealing Materials
8 9	9-04.1(2) Premolded Joint Filler for Expansion Joints In this section, each reference to "AASHTO T 42" is revised to read "ASTM D 545".
10 11 12 13	9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement This section is supplemented with the following:
13 14 15 16	Hot poured sealant for cement concrete pavement is acceptable for installations in joints where cement concrete pavement abuts a bituminous pavement.
17 18 19	9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement This section is supplemented with the following:
20 21 22	Hot poured sealant for bituminous pavement is acceptable for installations in joints where cement concrete pavement abuts a bituminous pavement.
23 24 25	9-04.2(1)B Sand Slurry for Bituminous Pavement Item number 2 of the first paragraph is revised to read:
26 27	2. Two percent portland cement or blended hydraulic cement, and
28 29 30	9-04.3 Joint Mortar The first paragraph is revised to read:
31 32 33 34	Mortar for hand mortared joints shall conform to Section 9-20.4(3) and consist of one part portland cement or blended hydraulic cement, three parts fine sand, and sufficient water to allow proper workability.
35 36 37 38	9-04.5 Flexible Plastic Gaskets In the table, the Test Method value for Specific Gravity at 77°F is revised to read "ASTM D71".
39 40	In the table, the Test Method value for Flash Point COC, F is revised to read "ASTM D93 REV A".
41 42 42	In the table, the Test Method value for Volatile Matter is revised to read "ASTM D6".
43 44 45	Section 9-05, Drainage Structures and Culverts January 7, 2019
46 47	9-05.3(1)A End Design and Joints The second sentence of the first paragraph is revised to read:
48 49 50	The joints and gasket material shall meet the requirements of ASTM C990.

1 2	9-05.3(1)C Age at Shipment The last sentence of the first paragraph is revised to read:
3 4 5 6 7 8	Unless it is tested and accepted at an earlier age, it shall not be considered ready for shipment sooner than 28 days after manufacture when made with Type II portland cement or blended hydraulic cement, nor sooner than 7 days when made with Type III portland cement.
9 10	9-05.7(3) Concrete Storm Sewer Pipe Joints The second sentence is revised to read:
11 12 13	The joints and gasket material shall meet the requirements of ASTM C990.
13 14 15 16	9-05.7(4)A Hydrostatic Pressure on Pipes in Straight Alignment The first sentence is revised to read:
17 18 19 20 21	Hydrostatic pressure tests on pipes in straight alignment shall be made in accordance with the procedure outlined in Section 10 of ASTM C990, except that they shall be performed on an assembly consisting of not less than three nor more than five pipe sections selected from stock by the Engineer and assembled in accordance with standard installation instructions issued by the manufacturer.
22 23 24	9-05.24(1) Polypropylene Culvert Pipe and Storm Sewer Pipe This section is revised to read:
25 26 27	Polypropylene culvert and storm sewer pipe shall conform to the following requirements:
27 28 29	 For dual wall pipe sizes up to 60 inches: ASTM F2881 or AASHTO M 330, Type S or Type D.
30 31 22	2. For double or triple wall pipe sizes up to 60 inches: ASTM F2764.
32 33 34	3. Fittings shall be factory welded, injection molded, or PVC.
35 36	9-05.24(2) Polypropylene Sanitary Sewer Pipe This section is revised to read:
37 38 39	Polypropylene sanitary sewer pipe shall conform to the following requirements:
40	1. For pipe sizes up to 60 inches: ASTM F2764.
41 42 43	2. Fittings shall be factory welded, injection molded, or PVC.
43 44 45	Section 9-06, Structural Steel and Related Materials January 7, 2019
46	9-06.5 Bolts
47 48	This section's title is revised to read:
49 50	Bolts and Rods

9-06.5(4) Anchor Bolts

This section, including title, is revised to read:

3 4 **9-06.5(4)**

9-06.5(4) Anchor Bolts and Anchor Rods

Anchor bolts and anchor rods shall meet the requirements of ASTM F1554 and, unless otherwise specified, shall be Grade 105 and shall conform to Supplemental Requirements S2, S3, and S4.

Nuts for ASTM F1554 Grade 105 black anchor bolts and anchor rods shall conform to
ASTM A563, Grade D or DH. Nuts for ASTM F1554 Grade 105 galvanized anchor bolts
and anchor rods shall conform to either ASTM A563, Grade DH, or AASHTO M292,
Grade 2H, and shall conform to the overtapping, lubrication, and rotational testing
requirements in Section 9-06.5(3). Nuts for ASTM F1554 Grade 36 or 55 black or
galvanized anchor bolts and anchor rods shall conform to ASTM A563, Grade A or DH.
Washers shall conform to ASTM F436.

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17 The bolts and rods shall be tested by the manufacturer in accordance with the 18 requirements of the pertinent Specification and as specified in these Specifications. 19 Anchor bolts, anchor rods, nuts, and washers shall be inspected prior to shipping to the 20 project site. The Contractor shall submit to the Engineer for acceptance a 21 Manufacturer's Certificate of Compliance for the anchor bolts, anchor rods, nuts, and 22 washers, as defined in Section 1-06.3. If the Engineer deems it appropriate, the 23 Contractor shall provide a sample of the anchor bolt, anchor rod, nut, and washer for 24 testina. 25

All bolts, rods, nuts, and washers shall be marked and identified as required in the pertinent Specification.

29 9-06.15 Welded Shear Connectors

- 30 The third paragraph is revised to read:
 - Mechanical properties shall be determined in accordance with AASHTO T 244.

3334 9-06.17 Vacant

- 35 This section, including title, is revised to read:
 - 9-06.17 Noise Barrier Wall Access Door

Access door frames shall be formed of 14-gauge steel to the size and dimensions shown in the Plans. The access door frame head and jamb members shall be mitered, securely welded, and ground smooth. Each head shall have two anchors and each jamb shall have three anchors. The hinges shall be reinforced with ¼-inch by 12-inch plate, width equal to the full inside width of the frame.

- 43
- 44 Access doors shall be full flush $1-\frac{3}{4}$ -inch thick seamless doors with a polystyrene core. 45 Door faces shall be constructed with smooth seamless 14-gauge roller-levered, cold-46 rolled steel sheet conforming to ASTM A 792 Type SS, Grade 33 minimum, Coating 47 Designation AZ55 minimum. The vertical edges shall be neat interlocked hemmed edge 48 seam. The top and bottom of the door shall be enclosed with 14-gauge channels. 49 Mortise and reinforcement for locks and hinges shall be 10-gauge steel. Welded top cap 50 shall be ground and filled for exterior applications. The bottom channel shall have weep 51 holes.
- 52

- Each access door shall have three hinges. Access door hinges shall be ASTM A 276
 Type 316 stainless steel, 4-1/2-inches square, with stainless steel ball bearing and non-removable pins.
- 5 Each access door shall have two pull plates. The pull plates shall be ASTM A 240 Type 6 316 stainless steel, with a grip handle of one-inch diameter and 8 to 10-inches in length. 7
 - The door assembly shall be fabricated and assembled as a complete unit including all hardware specified prior to shipment.

11 9-06.18 Metal Bridge Railing

- 12 The second sentence of the first paragraph is revised to read: 13
- Steel used for metal railings, when galvanized after fabrication in accordance with
 AASHTO M111, shall have a controlled silicon content of either 0.00 to 0.06 percent or
 0.15 to 0.25 percent.
- 18 Section 9-07, Reinforcing Steel
- 19 **January 7, 2019**

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20 9-07.5(1) Epoxy-Coated Dowel Bars (for Cement Concrete Rehabilitation)

21 This section (including title) is revised to read:

9-07.5(1) Dowel Bars for Cement Concrete Pavement Rehabilitation

Dowel bars for Cement Concrete Pavement Rehabilitation shall be 1¹/₂ inch outside diameter plain round steel bars or tubular bars 18 inches in length and meet the requirements of one of the following dowel bar types:

- 27 28 1. Epoxy-coated dowel bars shall be round plain steel bars of the dimensions 29 shown in the Standard Plans. They shall conform to AASHTO M31, Grade 60 30 or ASTM A615, Grade 60 and shall be coated in accordance with ASTM A1078 31 Type 2 coating, except that the bars may be cut to length after being coated. 32 Cut ends shall be coated in accordance with ASTM A1078 with a patching 33 material that is compatible with the coating, inert in concrete and recommended 34 by the coating manufacturer. The thickness of the epoxy coating shall be 10 35 mils plus or minus 2 mils. The Contractor shall furnish a written certification that 36 properly identifies the coating material, the number of each batch of coating 37 material used, quantity represented, date of manufacture, name and address of 38 manufacturer, and a statement that the supplied coating material meets the 39 requirements of ASTM A1078 Type 2 coating. Patching material, compatible 40 with the coating material and inert in concrete and recommended by the 41 manufacturer shall be supplied with each shipment for field repairs by the 42 Contractor. 43
- ASTM A513 steel tubes made from Grade 60 Carbon Steel Tube with a 1.625
 inch outside diameter and a 0.120 inch wall thickness. Both the inside and
 outside of the tube shall be zinc coated with G40 galvanizing in accordance
 with ASTM A653. Following zinc coating the tubes shall be coated in
 accordance with Section 9-07.5(1) item 1. The ends of the tube shall be
 capped to prevent intrusion of concrete or other materials.

1 2 3 4	Cemen	2) Corrosion Resista t Concrete Pavement paragraph (up until the o	•	te Pavement and
5 6 7			rs shall be 1½ inch outside diameter pla ength and meet the requirements of one	
8 9	Item nur	mber 4 and 5 of the first p	paragraph are revised to read:	
10 11 12 13	4.		-carbon, chromium plain steel bars for co all the requirements of ASTM A 1035 Allo rade 120.	
13 14 15 16 17 18 19 20 21 22	5.	0.120 inch wall tubular AASHTO M 31, Grade minimum of 0.035 inche A710 Zinc shall be com 0.1-0.25 percent, by we	hall be 1 ¹ / ₂ inch solid bars or 1.625 inch o bars meeting the chemical and physical p 50, or AASHTO M 255, Grade 60. The bars as A710 Zinc alloy clad to the plain steel posed of: zinc: 99.5 percent, by weight, r ight; and iron: 0.0020 percent, by weight I be plugged using a snug-fitting insert to other materials.	properties of ars shall have a inner bar or tube. minimum; copper: , maximum. Each
23 24	The nun	nbered list in the first par	agraph is supplemented with the followin	g:
24 25 26 27 28 29 30 31	6.	6. Multicoated fusion bonded epoxy bars shall consist of an ASTM A615 bar with alternating layers of ASTM A934 coating and an abrasion resistant overcoat (ARO). The ASTM A934 coating shall form the base and there shall be two layers of each coating material. The minimum thickness of the combined layers of the ASTM A934 coating and ARO coating shall be 20 mils. The ARO shall meet the following requirements:		
		Test	Method	Specification

	Test	Method	Specification
(Gouge Resistance	NACE TM0215, 30 kg wt., LS-1 bit @ 25°C	< 0.22 mm
(Gouge Resistance	NACE TM0215, 50 kg wt., LS-1 bit @ 25°C	< 0.44 mm

337.ASTM A513 steel tubes made from Grade 60 Carbon Steel Tube with a 1.625 inch
outside diameter and a 0.120 inch wall thickness. Both the inside and outside of the
tube shall be zinc coated with G90 galvanizing in accordance with ASTM A653.36Following zinc coating the tubes shall be coated in accordance with Section 9-
07.5(1) item 1. The ends of the tube shall be capped to prevent intrusion of
concrete or other materials.

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40 The last paragraph is revised to read: 41

Stainless Steel Clad and Stainless Steel Tube Dowel bar ends shall be sealed with a
patching material (primer and finish coat) used for patching epoxy-coated reinforcing
steel as required in Section 9-07.3, item 6.

46 **9-07.7 Wire Mesh**

47 This section is supplemented with the following:

1 2 3 4		urers shall participate in the NTPEP Audit Program for Reinforcing urers and shall be listed on the NTPEP audit program website NTPEP compliant.
5 6	Section 9-08, Paints and January 7, 2019	d Related Materials
7 8	9-08.1(1) Description The first sentence is revised	d to read:
9 10 11 12 13 14 15	meeting the requireme Department of Defense	and bridge structure applications shall be made from materials nts of the applicable Federal and State Paint Specifications, e (DOD), American Society of Testing of Materials (ASTM), and tive Coatings (SSPC) specifications in effect at time of
16 17 18	9-08.1(2) Paint Types This section is supplemente	ed with the following new subsections:
19 20 21 22		Qualified Products List A d shall be part of a NEPCOAT system supplied by the same
23 24 25 26		Qualified Products List B d shall be part of a NEPCOAT system supplied by the same
27 28	9-08.1(2)D Organic Zine This section, including title,	
29 30 31	Vacant	
31 32 33 34	9-08.1(2)E Epoxy Polya This section is revised to re	
35 36 37	Epoxy polyamide shall SSPC Coating Standa	be a two-component system conforming to MIL-DTL-24441 or rd No. 42.
38 39 40	9-08.1(2)H Top Coat, Si This section is revised to re	ingle-Component, Moisture-Cured Polyurethane ad:
40 41 42	Vehicle Type:	Moisture-cured aliphatic polyurethane.
42 43 44 45	Color and Gloss:	Meet the SAE AMS Standard 595 Color as specified in the table below.
46 47	The Top Coat shall me	et the following requirements:
48 49	The resin shall be	an aliphatic urethane.
50 51	Minimum-volume	solids 50 percent.

1 2 The top coat shall be semi-gloss.

Color	Semi-Gloss	
Washington Gray	26357	
Mt. Baker Gray	26134	
Mt. St. Helens Gray	26306	
Cascade Green	24158	

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4 9-08.1(2) Rust-Penetrating Sealer 5

This section is revised to read:

Rust-penetrating sealer shall be a two-component, chemically-cured, 100 percent solids epoxy.

10 9-08.1(2) J Black Enamel

This section is revised to read:

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The enamel shall conform to Federal Specification MIL PRF 24635E Type II Class 2.

15 9-08.1(2)K Orange Equipment Enamel

16 The first paragraph is revised to read:

> The enamel shall be an alkyd gloss enamel conforming to Federal Specification MIL-PRF-24635E Type II Class 1. The color, when dry, shall match that of SAE AMS Standard 595, color number 12246.

22 9-08.1(2) L Exterior Acrylic Latex Paint-White

The first paragraph is revised to read:

This paint shall conform to Federal Specification MIL-PRF-24635E Type II Class 1, 2 or 3.

28 9-08.1(7) Acceptance

- 29 This section is revised to read: 30
- 31 For projects with moisture-cured polyurethane quantities less than 20 gallons, 32 acceptance will be by the Manufacturer's Certificate of Compliance.
- 34 For projects with moisture-cured polyurethane quantities greater than 20 gallons, the 35 product shall be listed in the current WSDOT Qualified Products List (QPL). If the lot 36 number is listed on the QPL, it may be accepted without additional testing. If the lot 37 number is not listed on the QPL, a 1 quart sample shall be submitted to the State 38 Materials Laboratory for testing and acceptance. 39
- 40 For all other paint types, acceptance will be based on visual inspection.
- 41 42

9-08.1(8) Standard Colors

43 In the first paragraph, the reference to "Federal Standard 595" is revised to read "SAE AMS 44 Standard 595".

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46 The second paragraph is revised to read:

Unless otherwise specified, all top or finish coats shall be semi-gloss, with the paint falling within the range of 35 to 70 on the 60-degree gloss meter.

9-08.2 Powder Coating Materials for Coating Galvanized Surfaces

The last paragraph is revised to read:

Repair materials shall be as recommended by the powder coating manufacturer and as specified in the Contractor's powder coating plan as accepted by the Engineer.

10 9-08.3 Pigmented Sealer Materials for Coating of Concrete Surfaces 11

This section, including title, is revised to read:

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9-08.3 Concrete Surface Treatments

9-08.3(1) Pigmented Sealer Materials

15 The pigmented sealer shall be a semi-opaque, colored toner containing only methyl methacrylate-ethyl acrylate copolymer resins, toning pigments suspended in 16 17 solution at all times by a chemical suspension agent, and solvent. Toning pigments 18 shall be laminar silicates, titanium dioxide, and inorganic oxides only. There shall be 19 no settling or color variation. Tinting shall occur at the factory at the time of 20 manufacture and placement in containers, prior to initial shipment. Use of vegetable 21 or marine oils, paraffin materials, stearates, or organic pigments in any part of 22 coating formulation will not be permitted. The color of pigmented sealer shall be as 23 specified by the Contracting Agency. The Contractor shall submit a 1-quart wet sample, a drawdown color sample, and spectrophotometer or colorimeter readings 24 25 taken in accordance with ASTM D2244, for each batch and corresponding 26 standard color card. The calculated Delta E shall not exceed 1.5 from the 27 Commission Internationale de l'Eclairage (CIELAB) when measured at 10 degrees 28 Standard Observer and Illuminant D 65. 29

30 The 1-quart wet sample shall be submitted in the manufacturer's labeled container 31 with product number, batch number, and size of batch. The companion drawdown 32 color sample shall be labeled with the product number, batch number, and size of 33 batch. The Contractor shall submit the specified samples and readings to the 34 Engineer at least 14 calendar days prior to the scheduled application of the sealer. 35 The Contractor shall not begin applying pigmented sealer until receiving the 36 Engineer's written approval of the pigmented sealer color samples. 37

9-08.3(2) Exposed Aggregate Concrete Coatings and Sealers 9-08.3(2)A Retardant Coating

Retardant coating shall exhibit the following properties:

- Retards the set of the surface mortar of the concrete without 1. preventing the concrete to reach the specified 28 day compressive strength.
- 2. Leaves the aggregate with its original color and luster, and firmly embedded in the concrete matrix.
- 3. Allows the removal of the surface mortar in accordance with the methods specified in Section 6-02.3(14)E without the use of acidic washing compounds.
- Allows for uniform removal of the surface mortar. 4

If the Contractor proposes use of a retardant coating that is not listed in the current WSDOT QPL, the Contractor shall submit a Type 2 Working Drawing consisting of a one quart product sample from a current lot along with supporting product information, Safety Data Sheet, and a Manufacturer's Certificate of Compliance stating that the product conforms to the above performance requirements.

9-08.3(2)B Clear Sealer

10The sealer for concrete surfaces with exposed aggregate finish shall be a clear,11non-gloss, penetrating sealer of either a silane, siloxane, or silicone based12formulation.

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9-08.3(3) Permeon Treatment

- Permeon treatment shall be a product of known consistent performance in
 producing the SAE AMS Standard 595 Color No. 30219 target color hue
 established by WSDOT, either selected from the WSDOT Qualified Products List
 (QPL), or an equivalent product accepted by the Engineer. For acceptance of
 products not listed in the current WSDOT QPL, the Contractor shall submit Type 3
 Working Drawings consisting of a one quart product sample from a current lot,
 supporting product information and a Safety Data Sheet.
- 22

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

- 25 April 2, 2018
- 26 9-13.1(1) General
- The last paragraph is revised to read: 28
- Riprap and quarry spalls shall be free from segregation, seams, cracks, and other
 defects tending to destroy its resistance to weather and shall meet the following test
 requirements:
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33 9-13.5 Concrete Slope Protection

- 34 This section is revised to read: 35
 - Concrete slope protection shall consist of reinforced portland cement or blended hydraulic cement concrete poured or pneumatically placed upon the slope with a rustication joint pattern or semi-open concrete masonry units placed upon the slope closely adjoining each other.

41 9-13.5(2) Poured Portland Cement Concrete Slope Protection

- 42 This section's title is revised to read:
- 43 44
- Poured Portland Cement or Blended Hydraulic Cement Concrete Slope Protection
- 45
 46 9-13.5(3) Pneumatically Placed Portland Cement Concrete Slope Protection
 47 This section's title is revised to read:
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49 Pneumatically Placed Portland Cement or Blended Hydraulic Cement Concrete 50 Slope Protection 51

- 1 The first paragraph is revised to read: 2 3 **Cement** – This material shall be portland cement or blended hydraulic cement as 4 specified in Section 9-01. 5 6
- 9-13.7(1) Rock for Rock Walls and Chinking Material 7

The first paragraph (up until the colon) is revised to read:

- 8 9 Rock for rock walls and chinking material shall be hard, sound and durable material, 10
 - free from seams, cracks, and other defects tending to destroy its resistance to weather,
 - and shall meet the following test requirements:
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13 Section 9-14, Erosion Control and Roadside Planting

14 August 6, 2018

15 9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)

16 In Table 1, the last four rows are deleted.

17 18 9-14.4(2)A Long-Term Mulch

- 19 The first paragraph is supplemented with the following: 20
 - Products containing cellulose fiber produced from paper or paper components will not be accepted.
- 22 23

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- 24 Table 2 is supplemented with the following new rows: 25
 - Water Holding Capacity ASTM D 7367 800 percent minimum Organic Matter Content AASHTO T 267 90 percent minimum Long Term Seed Germination ASTM D 7322 Enhancement 420 percent minimum
- 26 27

28 9-14.4(2)B Moderate-Term Mulch This section is revised to read:

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Within 48 hours of application, the Moderate-Term Mulch shall bond with the soil surface to create a continuous, absorbent, flexible, erosion-resistant blanket. Moderate-Term Mulch shall effectively perform the intended erosion control function in accordance with Section 8-01.3(1) for a minimum of 3 months, or until temporary vegetation has been established, whichever comes first.

Moderate-Term Mulch shall not be used in conjunction with permanent seeding.

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38 39 9-14.4(2)C Short-Term Mulch

- 40 This section is revised to read:
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- 42 Short-Term Mulch shall effectively perform the intended erosion control function in 43 accordance with Section 8-01.3(1) for a minimum of 2 months, or until temporary 44 vegetation has been established, whichever comes first. Short-Term Mulch shall not be 45 used in conjunction with permanent seeding.
- 46

1 Section 9-16, Fence and Guardrail

2 August 6, 2018

3 **9-16.3(1)** Rail Element

- 4 The last sentence of the first paragraph is revised to read: 5
 - All rail elements shall be formed from 12-gage steel except for thrie beam reducer sections, reduced length thrie beam rail elements, thrie beams used for bridge rail retrofits, and Design F end sections, which shall be formed from 10-gage steel.

10 9-16.3(5) Anchors

- 11 The last paragraph is revised to read:
 - Cement grout shall conform to Section 9-20.3(4) and consist of one part portland cement or blended hydraulic cement and two parts sand.
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16 Section 9-18, Precast Traffic Curb

17 April 2, 2018

18 9-18.1(1) Aggregates and Proportioning

- 19 Item number 1 of the first paragraph is revised to read: 20
 - Portland cement or blended hydraulic cement shall conform to the requirements of Section 9-01 except that it may be Type I portland cement conforming to AASHTO M 85.

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25 Section 9-20, Concrete Patching Material, Grout, and Mortar

26 April 1, 2019

27 9-20.1 Patching Material

- 28 This section, including title, is revised to read:
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9-20.1 Patching Material for Cement Concrete Pavement

- Concrete patching material shall be prepackaged mortar extended with aggregate. The
 amount of aggregate for extension shall conform to the manufacturer's recommendation.
- Patching mortar and patching mortar extended with aggregate shall contain cementitious material and conform to Sections 9-20.1(1) and 9-20.1(2). The Manufacturer shall use the services of a laboratory that has an equipment calibration verification system and a technician training and evaluation process in accordance with AASHTO R 18 to perform all tests specified in Section 9-20.1.
- 39 40

9-20.1(1) Patching Mortar Patching mortar shall conform to the following requirements:

Compressive Strength	ASTM Test Method	Specification
at 3 hours	C 39	Minimum 3,000 psi
at 24 hours	C 39	Minimum 5,000 psi
Length Change		•
at 28 days	C 157	0.15 percent maximum
Total Chloride Ion Content	C 1218	1 lb/yd ³ maximum
Bond Strength		· · ·

at 24 hours	C 882 (As modified by C 928, Section 9.5)	Minimum 1,000 psi
Scaling Resistance (at 25 cycles of freezing and thawing)	C 672 (As modified by C 928, Section 9.4)	1 lb/ft² maximum

9-20.1(2) Patching Mortar Extended with Aggregate

Patching mortar extended with aggregate shall meet the following requirements:

Compressive Strength	ASTM Test Method	Specification
at 3 hours	C 39	Minimum 3,000 psi
at 24 hours	C 39	Minimum 5,000 psi
Length Change		
at 28 days	C 157	0.15 percent maximum
Bond Strength		
at 24 hours	C 882 (As modified by ASTM C928, Section 9.5)	Minimum 1,000 psi
Scaling Resistance (at 25 cycles of freezing and thawing)	C 672	2 Maximum Visual Rating
Freeze thaw	C 666	Maximum expansion 0.10% Minimum durability 90.0%

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9-20.1(3) Aggregate

Aggregate used to extend the patching mortar shall conform to Section 9-03.1(4) and be AASHTO Grading No. 8. A Manufacturer's Certificate of Compliance shall be submitted showing the aggregate source and the gradation. Mitigation for Alkali Silica Reaction (ASR) will not be required for the extender aggregate used for concrete patching material.

9-20.1(4) Water

Water shall meet the requirements of Section 9-25.1. The quantity of water shall be within the limits recommended by the repair material manufacturer.

17 9-20.2 Specifications

18 This section, including title, is revised to read:

9-20.2 Patching Material for Concrete Structure Repair Concrete patching material shall be a prepackaged mixture of portland or blended hydraulic cement, aggregate, and admixtures. Fly ash, ground granulated blast furnace slag and microsilica fume may be used. The concrete patching material may be

slag and microsilica fume may be used. The concrete patching material may be shrinkage compensated. The concrete patching material shall also meet the following requirements:

- Compressive strength of 6000 psi or higher at 28 days in accordance with AASHTO T 22 (ASTM C 39), unless noted otherwise
- Bond strength of 250 psi or higher at 28 days or less in accordance with ASTM C 1583 or ICRI 210.3R
- Shrinkage shall be 0.05 percent (500 microstrain) or lower at 28 days in
 accordance with AASHTO T 160 (ASTM C 157) as modified by ICRI 320.3R

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2	 Permeability shall be 2,000 coulombs or lower at 28 days in accordance with
3	AASHTO T 277 (ASTM C 1202)
4	
5	Freeze-thaw resistance shall have a durability factor of 90 percent or higher
5	
6	after a minimum of 300 cycles in accordance with AASHTO T 161 Procedure A
7	(ASTM C 666)
8	
9	 Soluble chloride ion limits in Section 6-02.3(2) shall be satisfied
10	
	0.00.0/4) Detabing Marter
11	9-20.2(1) Patching Mortar
12	This section, including title, is deleted in its entirety.
13	
14	9-20.2(2) Patching Mortar Extended with Aggregate
15	This section, including title, is deleted in its entirety.
16	
17	9-20.3(3) Grout Type 3 for Unconfined Bearing Pad Applications
18	This section's title is revised to read:
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20	Grout Type 3 for Unconfined Applications
21	eren ihe ere eneenmeer khuennene
$\frac{21}{22}$	This section is revised to read:
	THIS SECTOR IS TEVISED TO TEAU.
23	
24	Grout Type 3 shall be a prepackaged material that does not include expansive
25	admixtures meeting the following requirements:
26	
27	 Compressive strength shall be 4000 psi or higher at 28 days in accordance
28	with AASHTO T 22 (ASTM C 39) for grout extended with coarse aggregate or
29	AASHTO T 106 (ASTM C109) otherwise.
	AASITIOT TOO (ASTINICTOS) OUTEIWISE.
30	
31	 Bond strength shall meet one of the following:
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33	 250 psi or higher at 28 days or less in accordance with ASTM C1583.
34	
35	 2000 psi or higher at 28 days or less in accordance with ASTM C882. The
36	following modification to ASTM C882 is acceptable: use Type 3 Grout in
37	lieu of epoxy resin base bonding system and freshly mixed portland-
38	cement mortar in the procedure for testing Type II and V systems.
39	
40	• Drying shrinkage shall be 0.08 percent (800 microstrain) or lower at 28 days in
41	accordance with AASHTO T 160 (ASTM C157). The following modification to
42	AASHTO T 160 is acceptable: use a standard specimen size of 3 x 3 x $11-\frac{1}{4}$
43	
	inches.
44	
45	9-20.5 Bridge Deck Repair Material
46	Item number 3 of the first paragraph is revised to read:
47	
48	3. Permeability of less than 2,000 coulombs at 28-days or more in accordance with
49	AASHTO T 277.
50	

1 Section 9-21, Raised Pavement Markers (RPM)

- 2 January 2, 2018
- 3 9-21.2 Raised Pavement Markers Type 2
- 4 This section's content is deleted. 5
- 6 9-21.2(1) Physical Properties

This section, including title, is revised to read:

9-21.2(1) Standard Raised Pavement Markers Type 2

The marker housing shall contain reflective faces as shown in the Plans to reflect incident light from either a single or opposite directions and meet the requirements of ASTM D 4280 including Flexural strength requirements.

14 9-21.2(2) Optical Requirements

15 This section, including title, is revised to read:

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9-21.2(2) Abrasion Resistant Raised Markers Type 2

Abrasion Resistant Raised Markers Type 2 shall comply with Section 9-21.2(1) and meet the requirements of ASTM D 4280 with the following additional requirement: The coefficient of luminous intensity of the markers shall be measured after subjecting the entire lens surface to the test described in ASTM D 4280 Section 9.5 using a sand drop apparatus. After the exposure described above, retroreflected values shall not be less than 0.5 times a nominal unblemished sample.

25 9-21.2(3) Strength Requirements

26 This section is deleted in its entirety.

28 Section 9-23, Concrete Curing Materials and Admixtures

29 April 1, 2019

30 9-23.12 Natural Pozzolan

- 31 This section is revised to read:
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Natural Pozzolans shall be ground Pumice and shall conform to the requirements of AASHTO M295 Class N, including supplementary optional chemical requirements as set forth in Table 2.

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37 9-23.13 Blended Supplementary Cementitious Material

- 38 The second sentence is revised to read:
- Blended SCMs shall be limited to binary or ternary blends of fly ash, ground granulated
 blast furnace slag and microsilica fume.
- 42
- 43 The second to last sentence is deleted.
- 44
- 45 Section 9-26, Epoxy Resins
- 46 **January 7, 2019**

47 9-26.1(1) General

- 48 The following new sentence is inserted after the first sentence of the first paragraph:
- 49

For pre-packaged cartridge kits, the epoxy bonding agent shall meet the requirements of
 ASTM C881 when mixed according to manufacturer instructions, utilizing the
 manufacturer's mixing nozzle.

9-26.1(2) Packaging and Marking

- The first sentence of the first paragraph is revised to read:
 - The components of the epoxy system furnished under these Specifications shall be supplied in separate containers or pre-packaged cartridge kits that are non-reactive with the materials contained.
- 12 The second paragraph is revised to read: 13

Separate containers shall be marked by permanent marking that identify the formulator, "Component A" (contains the Epoxy Resin) and "Component B" (Contains the Curing Agent), type, grade, class, lot or batch number, mixing instructions and the quantity contained in pounds or gallons as defined by these Specifications.

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- 19 The following new paragraph is inserted after the second paragraph:20
 - Pre-packaged cartridge kits shall be marked by permanent marking that identify the formulator, type, grade, class, lot or batch number, mixing instructions and the quantity contained in ounces or milliliters as defined by these Specifications.
- 25 Section 9-28, Signing Materials and Fabrication
- 26 April 1, 2019

27 9-28.2 Manufacturer's Identification and Date

- 28 The second sentence is revised to read:
- 29
- In addition, the width and height dimension, in inches, the Contract number, and the
 number of the sign as it appears in the Plans shall be placed using 3-inch series C black
 letters on the back of destination, distance, and large special signs.

34 9-28.10 Vacant

35 This section, including title, is revised to read:

3637 9-28.10 Digital Printing

38 Transparent and opaque durable inks used in digital printed sign messages shall be as 39 recommended by the manufacturer. When properly applied, digital printed colors shall 40 have a warranty life of the base retroreflective sign sheeting. Digital applied colors shall 41 present a smooth surface, free from foreign material, and all messages and borders 42 shall be clear and sharp. Digital printed signs shall conform to 70% of the retroreflective 43 minimum values established for its type and color. Digitally printed signs shall meet the 44 daytime color and luminance, and nighttime color requirements of ASTM D 4956. No 45 variations in color or overlapping of colors will be permitted. Digital printed permanent 46 traffic signs shall have an integrated engineered match component clear protective 47 overlay recommended by the sheeting manufacturer applied to the entire face of the 48 sign. On Temporary construction/maintenance signs printed with black ink only, the 49 protective overlay film is optional, as long as the finished sign has a warranty of a 50 minimum of three years from sign sheeting manufacturer.

1 2 3 4	All digital printed traffic control signs shall be an integrated engineered match component system. The integrated engineered match component system shall consist of retroreflective sheeting, durable ink(s), and clear overlay film all from the same manufacturer applied to aluminum substrate conforming to Section 9-28.8.
5 6 7 8 9 10	The sign fabricator shall use an approved integrated engineered match component system as listed on the Qualified Products List (QPL). Each approved digital printer shall only use the compatible retroreflective sign sheeting manufacturer's engineered match component system products.
10 11 12 13 14 15 16 17	Each retroreflective sign sheeting manufacturer/integrated engineered match component system listed on the QPL shall certify a department approved sign fabricator is approved to operate their compatible digital printer. The sign fabricator shall re-certify annually with the retroreflective sign manufacturer to ensure their digital printer is still meeting manufacturer's specifications for traffic control signs. Documentation of each re- certification shall be submitted to the QPL Engineer annually.
18	9-28.11 Hardware
19	The last paragraph is revised to read:
20	
21	All steel parts shall be galvanized in accordance with AASHTO M111. Steel bolts and
22	related connecting hardware shall be galvanized in accordance with ASTM F 2329.
	related connecting hardware shall be garvanized in accordance with AOTWT 2029.
23	
24	9-28.14(2) Steel Structures and Posts
25	The first sentence of the third paragraph is revised to read:
26	· · · · · · · · · · · · · · · · · · ·
27	Anchor rods for sign bridge and cantilever sign structure foundations shall conform to
28	Section 9-06.5(4), including Supplemental Requirement S4 tested at -20°F.
29	
30	In the second sentence of the fourth paragraph, "AASHTO M232" is revised to read "ASTM F
31	2329".
32	
33	The first sentence of the fifth paragraph is revised to read:
	The first sentence of the fifth paragraph is revised to read.
34	
35	Except as otherwise noted, steel used for sign structures and posts shall have a
36	controlled silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.
37	
38	The last sentence of the last paragraph is revised to read:
39	The last sentence of the last paragraph is revised to read.
	If such modifications are contamplated, the Contractor shall submit a Tuna Q Marking
40	If such modifications are contemplated, the Contractor shall submit a Type 2 Working
41	Drawing of the proposed modifications.
42	
43	9
44	Section 9-29, Illumination, Signal, Electrical
45	April 1, 2019
43	April 1, 2013
1.5	
46	9-29.1 Conduit, Innerduct, and Outerduct
47	This section is supplemented with the following new subsections:
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1 9-29.1(10) Pull Tape

2 Pull tape shall be pre-lubricated polyester pulling tape. The pull tape shall have a 3 minimum width of ¹/₂-inch and a minimum tensile strength of 500 pounds. Pull tape may 4 have measurement marks.

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9-29.1(11) Foam Conduit Sealant

Foam conduit sealant shall be self-expanding waterproof foam designed to prevent both water and pest intrusion. The foam shall be designed for use in and around electrical equipment, including both insulated and bare conductors.

11 9-29.2(1) Junction Boxes

12 The first paragraph is revised to read:

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For the purposes of this Specification concrete is defined as portland cement or blended hydraulic cement concrete and non-concrete is all others.

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17 9-29.2(1)A2 Non-Concrete Junction Boxes

- 18 The first paragraph is revised to read:
- 20 Material for the non-concrete junction boxes shall be of a quality that will provide for a similar life expectancy as portland cement or blended hydraulic cement concrete in a 22 direct burial application. 23

24 9-29.2(2) A Standard Duty Cable Vaults and Pull Boxes

- 25 In the table in the last paragraph, the fourth, fifth and sixth rows are revised to read:
 - Slip Resistant Lid ASTM A36 steel Frame ASTM A36 steel Slip Resistant Frame ASTM A36 steel

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28 9-29.3(2)A1 Single Conductor Current Carrying

- 29 This second sentence is revised to read:
- 30 31

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Insulation shall be XLP (cross-linked polyethylene) or EPR (Ethylene Propylene Rubber), Type USE (Underground Service Entrance) or USE-2, and rated for 600-volts or higher.

34 35 9-29.6 Light and Signal Standards

In the first sentence of the third paragraph, "AASHTO M232" is revised to read "ASTM F 36 37 2329".

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- 39 Item number 2 of the last paragraph is revised to read: 40
 - 2. The steel light and signal standard fabricator's shop drawing submittal, including supporting design calculations, submitted as a Type 2E Working Drawing in accordance with Section 8-20.2(1) and the Special Provisions.
- 45 9-29.6(1) Steel Light and Signal Standards
- 46 In the second paragraph, "AASHTO M232" is revised to read "ASTM F 2329".
- 47

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48 The first sentence of the last paragraph is revised to read: Steel used for light and signal standards shall have a controlled silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.

9-29.6(5) Foundation Hardware

In the last paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

9-29.10(1) Conventional Roadway Luminaires

8 This section is revised to read: 9

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All conventional roadway luminaires shall meet 3G vibration requirements as described
 in ANSI C136.31.

All luminaires shall have housings fabricated from aluminum. The housing shall be
 painted flat gray, SAE AMS Standard 595 color chip No. 26280, unless otherwise
 specified in the Contract. Painted housings shall withstand a 1,000 hour salt spray test
 as specified in ASTM B117.

Each housing shall include a four bolt slip-fitter mount capable of accepting a nominal 2" tenon and adjustable within +/- 5 degrees of the axis of the tenon. The clamping bracket(s) and the cap screws shall not bottom out on the housing bosses when adjusted within the +/- 5 degree range. No part of the slipfitter mounting brackets on the luminaires shall develop a permanent set in excess of 0.2 inch when the cap screws used for mounting are tightened to a torque of 32 foot-pounds. Each luminaire shall include leveling reference points for both transverse and longitudinal adjustment.

- All luminaires shall include shorting caps when shipped. The caps shall be removed and provided to the Contracting Agency when an alternate control device is required to be installed in the photocell socket. House side shields shall be included when required by the Contract. Order codes shall be modified to the minimum extent necessary to include the option for house side shields.
- 32 This section is supplemented with the following new subsections:

9-29.10(1)A High Pressure Sodium (HPS) Conventional Roadway Luminaires HPS conventional roadway luminaires shall meet the following requirements:

- 1. General shape shall be "cobrahead" style, with flat glass lens and full cutoff optics.
- 2. Light pattern distribution shall be IES Type III.
- The reflector of all luminaires shall be of a snap-in design or secured with screws. The reflector shall be polished aluminum or prismatic borosilicate glass.
 - 4. Flat lenses shall be formed from heat resistant, high-impact, molded borosilicate or tempered glass.
- 495.The lens shall be mounted in a doorframe assembly, which shall be hinged to
the luminaire and secured in the closed position to the luminaire by means of
an automatic latch. The lens and doorframe assembly, when closed, shall exert
pressure against a gasket seat. The lens shall not allow any light output above

1 2 3	90 degrees nadir. Gaskets shall be composed of material capable of withstanding the temperatures involved and shall be securely held in place.
4 5 6 7	6. The ballast shall be mounted on a separate exterior door, which shall be hinged to the luminaire and secured in the closed position to the luminaire housing by means of an automatic type of latch (a combination hex/slot stainless steel screw fastener may supplement the automatic-type latch).
8 9 10	 Each luminaire shall be capable of accepting a 150, 200, 250, 310, or 400 watt lamp complete and associated ballast. Lamps shall mount horizontally.
11 12 13 14 15 16 17 18	9-29.10(1)B Light Emitting Diode (LED) Conventional Roadway Luminaires LED Conventional Roadway Luminaires are divided into classes based on their equivalent High Pressure Sodium (HPS) luminaires. Current classes are 200W, 250W, 310W, and 400W. LED luminaires are required to be pre-approved in order to verify their photometric output. To be considered for pre-approval, LED luminaires must meet the requirements of this section.
19 20 21 22 23 24	LED luminaires shall include a removable access door, with tool-less entry, for access to electronic components and the terminal block. The access door shall be removable, but include positive retention such that it can hang freely without disconnecting from the luminaire housing. LED drivers may be mounted either to the interior of the luminaire housing or to the removable door itself.
24 25 26 27 28 29	LED drivers shall be removable for user replacement. All internal modular components shall be connected by means of mechanical plug and socket type quick disconnects. Wire nuts may not be used for any purpose. All external electrical connections to the luminaire shall be made through the terminal block.
30 31 32 33 34 35	LED luminaires shall include a 7-pin NEMA photocell receptacle. The LED driver(s) shall be dimmable from ten volts to zero volts. LED output shall have a Correlated Color Temperature (CCT) of 4000K nominal (4000-4300K) and a Color Rendering Index (CRI) of 70 or greater. LED output shall be a minimum of 85% at 75,000 hours at 25 degrees Celsius.
35 36 37 38 39	LED luminaires shall be available for 120V, 240V, and 480V supply voltages. Voltages refer to the supply voltages to the luminaires present in the field. LED power usage shall not exceed the following maximum values for the applicable wattage class:

Class	Max. Wattage
200W	110W
250W	165W
310W	210W
400W	275W

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41 Only one brand of LED conventional roadway luminaire may be used on a Contract.
42 They do not necessarily have to be the same brand as any high-mast, underdeck, or

42 They do not necessarily have to be the same brand as any high-mast, underdeck, of
 43 wall-mount luminaires when those types of luminaires are specified in the Contract. LED
 44 luminaires shall include a standard 10 year manufacturer warranty.

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46 The list of pre-approved LED Conventional Roadway Luminaires is available at

47 http://www.wsdot.wa.gov/Design/Traffic/ledluminaires.htm.

9-29.10(2) Decorative Luminaires

This section, including title, is revised to read:

9-29.10(2) Vacant

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- 5 6 9-29.12 Electrical Splice Materials 7 This section is supplemented with the following new subsections: 8 9 9-29.12(3) Splice Enclosures 10 9-29.12(3) A Heat Shrink Splice Enclosure 11 Heat shrink splice enclosures shall be medium or heavy wall cross-linked polyolefin, 12 meeting the requirements of AMS-DTL-23053/15, with thermoplastic adhesive 13 sealant. Heat shrink splices used for "wye" connections require rubber electrical 14 mastic tape. 15 16 9-29.12(3) B Molded Splice Enclosure 17 Molded splice enclosures shall use epoxy resin in a clear rigid plastic mold. The 18 material used shall be compatible with the insulation material of the insulated 19 conductor or cable. The component materials of the resin insulation shall be 20 packaged ready for convenient mixing without removing from the package. 21 22 9-29.12(4) Re-Enterable Splice Enclosure 23 Re-enterable splice enclosures shall use either dielectric grease or a flexible resin 24 contained in a two-piece plastic mold. The mold shall either snap together or use 25 stainless steel hose clamps. 26 27 9-29.12(5) Vinvl Electrical Tape for Splices 28 Vinyl electrical tape in splicing applications shall meet the requirements of MIL-I-29 24391C. 30 31 9-29.12(1) Illumination Circuit Splices 32 This section is revised to read: 33 34 Underground illumination circuit splices shall be solderless crimped connections capable 35 of securely joining the wires, both mechanically and electrically, as defined in Section 8-36 20.3(8). Aerial illumination splices shall be solderless crimp connectors or split bolt vice-37 type connectors. 38 9-29.12(1)A Heat Shrink Splice Enclosure 39 40 This section is deleted in its entirety. 41 42 9-29.12(1)B Molded Splice Enclosure 43 This section is deleted in its entirety. 44 45 9-29.12(2) Traffic Signal Splice Material 46 This section is revised to read: 47 48 Induction loop splices and magnetometer splices shall use an uninsulated barrel-type 49 crimped connector capable of being soldered. 50
- 51 9-29.13(10)D Cabinets for Type 170E and 2070 Controllers
- 52 The first sentence of item number 4 is revised to read:

1 2 A disposable paper filter element with dimensions of 12" × 16" × 1" shall be provided in 3 lieu of a metal filter. 4 5 Item number 6 is revised to read: 6 7 6. LED light strips shall be provided for cabinet lighting, powered from the Equipment 8 breaker on the Power Distribution Assembly. Each LED light strip shall be 9 approximately 12 inches long, have a minimum output of 320 lumens, and have a 10 color temperature of 4100K (cool white) or higher. There shall be three light strips for each rack within the cabinet. Lighting shall be ceiling mounted – rack mounted 11 12 lighting is not permitted. Light strips shall be installed in the locations shown in the 13 Standard Plans. Lighting shall not interfere with the proper operation of any other 14 ceiling mounted equipment. All lighting fixtures above a rack shall energize 15 automatically when either door to that respective rack is opened. Each door switch 16 shall be labeled "Light". 17 18 Item number 7 is revised to read: 19 20 Rack mounted equipment shall be as shown in the Standard Plans. The cabinet 7. 21 shall use PDA #2LX and Output File #1LX. Where an Auxiliary Output File is 22 required, Output File #2LX shall also be included. 23 24 This section is supplemented with the following new item: 25 26 9. The PCB connectors for Field Terminal Blocks FT1 through FT6 on Output Files 27 #1LX and #2LX shall be capable of accepting minimum 14 AWG field wiring, have a 28 pitch of 5.08 mm, and use screw flange type locking to secure the plug and socket 29 connection. The sockets on the Field Terminal Panel shall be secured to the panel 30 such that unplugging a connector will not result in the socket moving or separating 31 from the panel. 32 33 9-29.13(11) Traffic Data Accumulator and Ramp Meters 34 Item number 2 is revised to read: 35 36 Rack mounted equipment shall be as shown in the Standard Plans. 2. 37 38 Item number 3 is revised to read: 39 40 3. PDA #3LX shall be furnished with three Model 200 Load Switches installed. PDA 41 #3LX shall be modified to include a second Model 430 transfer relay, mounted on 42 the rear of the PDA and wired as shown in the Standard Plans. 43 44 9-29.13(12) ITS Cabinet 45 This section's title is revised to read: 46 47 Type 331L ITS Cabinet 48 49 The first paragraph (excluding the numbered list) is revised to read: 50 51 Basic ITS cabinets shall be Model 331L Cabinets, unless otherwise specified in the 52 Contract. Type 331L Cabinets shall be constructed in accordance with the TEES, with 53 the following modifications: City of Lynnwood May 2019

4 LED light strips shall be provided for cabinet lighting, powered from the Equipment 6. 5 breaker on the Power Distribution Assembly. Each LED light strip shall be 6 approximately 12 inches long, have a minimum output of 320 lumens, and have a 7 color temperature of 4100K (cool white) or higher. There shall be three light strips 8 for each rack within the cabinet. Lighting shall be ceiling mounted – rack mounted 9 lighting is not permitted. Light strips shall be installed in the locations shown in the 10 Standard Plans. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. All lighting fixtures above a rack shall energize 11 12 automatically when either door to that respective rack is opened. Each door switch 13 shall be labeled "Light". 14 15 9-29.16(2) E Painting Signal Heads 16 In the first sentence, "Federal Standard 595" is revised to read "SAE AMS Standard 595". 17 18 9-29.17 Signal Head Mounting Brackets and Fittings 19 In the first paragraph, item number 2 under Stainless Steel is revised to read: 20 21 2. Bands or cables for Type N mount. 22 23 9-29.20 Pedestrian Signals 24 In item 2C of the second paragraph, "Federal Standard 595" is revised to read "SAE AMS 25 Standard 595". 26 27 9-29.24 Service Cabinets 28 The third sentence of item number 6 is revised to read: 29 30 The dead front cover shall have cutouts for the entire breaker array, with blank covers 31 where no circuit breakers are installed. 32 33 Item number 8 is revised to read: 34 35 8. Lighting contactors shall meet the requirements of Section 9-29.24(2). 36 37 The last sentence of item number 10 is revised to read: 38 39 Dead front panels shall prevent access to any exposed, live components, and shall 40 cover all equipment except for circuit breakers (including blank covers), the photocell 41 test/bypass switch, and the GFCI receptacle. 42 43 9-29.24(2) Electrical Circuit Breakers and Contactors 44 This section is revised to read: 45 46 All circuit breakers shall be bolt-on type, with the RMS-symmetrical interrupting capacity 47 described in this Section. Circuit breakers for 120/240/277 volt circuits shall be rated at 48 240 or 277 volts, as applicable, with an interrupting capacity of not less than 10,000 49 amperes. Circuit breakers for 480 volt circuits shall be rated at 480 volts, and shall have 50 an interrupting capacity of not less than 14,000 amperes. 51

Item number 6 of the first paragraph is revised to read:

1 2

1 Lighting contactors shall be rated for tungsten or ballasted (such as sodium vapor, 2 mercury vapor, metal halide, and fluorescent) lamp loads. Contactors for 120/240/277 3 volt circuits shall be rated at 240 volts maximum line to line voltage, or 277 volts 4 maximum line to neutral voltage, as applicable. Contactors for 480 volt circuits shall be 5 rated at 480 volt maximum line to line voltage. 6 7 Section 9-33, Construction Geosynthetic 8 August 6, 2018 9 9-33.4(1) Geosynthetic Material Approval 10 The second sentence of the first paragraph is revised to read: 11 12 If the geosynthetics material is not listed in the current WSDOT QPL, a Manufacturer's 13 Certificate of Compliance including Certified Test Reports of each proposed 14 geosynthetic shall be submitted to the State Materials Laboratory in Tumwater for 15 evaluation. 16 17 The last paragraph is revised to read: 18 19 Geosynthetics used as reinforcement in permanent geosynthetic retaining walls, 20 reinforced slopes, reinforced embankments, and other geosynthetic reinforcement 21 applications require proof of compliance with the National Transportation Product 22 Evaluation Program (NTPEP) in accordance with AASHTO Standard Practice R 69. 23 Standard Practice for Determination of Long-Term Strength for Geosynthetic 24 Reinforcement. 25 26 Section 9-34, Pavement Marking Material 27 January 7, 2019 28 9-34.2(2) Color 29 The first sentence is revised to read: 30 31 Paint draw-downs shall be prepared according to ASTM D823. 32 33 Each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595". 34 35 9-34.2(3) Prohibited Materials 36 This section is revised to read: 37 38 Traffic paint shall not contain mercury, lead, chromium, diarylide pigments, toluene, 39 chlorinated solvents, hydrolysable chlorine derivatives, ethylene-based glycol ethers and 40 their acetates, nor any other EPA hazardous waste material over the regulatory levels in 41 accordance with CFR 40 Part 261.24. 42 43 9-34.2(5) Low VOC Waterborne Paint The heading "Standard Waterborne Paint" is supplemented with "Type 1 and 2". 44 45 46 The heading "High-Build Waterborne Paint" is supplemented with "Type 4". 47 48 The heading "Cold Weather Waterborne Paint" is supplemented with "Type 5". 49 50 In the row beginning with "° @90°F", each minimum value is revised to read "60".

- 1 2 3 In the row beginning with "Fineness of Grind, (Hegman Scale)", each minimum value is
 - revised to read "3".
- 4
 - The last four rows are replaced with the following:
- 5 6

ASTM D Vehicle Composition 100% acrylic emulsion 100% cross-linking 100% acrylic emulsion 2621 acrylic4 @ 3 cycles show no Freeze-Thaw ASTM D @ 5 cycles show no @ 5 cycles show no coagulation or change coagulation or change coagulation or change Stability, KU 2243 and D in viscosity greater in viscosity greater in viscosity greater 562 than ± 10 KU than ± 10 KU than ± 10 KU ± 10 KU from the ± 10 KU from the initial ± 10 KU from the initial Heat Stability ASTM D 562² initial viscosity viscosity Viscosity Low Temperature ASTM D No Cracks* No Cracks Film Formation 2805³ Cold Flexibility⁵ ASTM D522 Pass at 0.5 in mandrel* ≥70% paint retention Test Deck ASTM D913 Durability⁶ in wheel track* Mud Cracking (See note 7) No Cracks No Cracks

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- After the preceding Amendments are applied, the following new column is inserted after the
- 8 9 "Standard Waterborne Paint Type 1 and 2" column:

10

Semi-Durable Waterborne Paint Type 3			
White			llow
Min.	Max.	Min.	Max.
Withir	1 ± 0.3 of qua	alification s	ample
00	05	00	05
80	95	80	95
60		60	-
77		77	0.5
	65		65
43		43	
	1.25		1.25
3		3	
0.98		0.96	
88		50	
100°		100°	
9.5		9.5	
	10		10
100% acrylic emulsion			
@ 5 cycles show no coagulation or			
change in viscosity greater than ± 10 KU			
± 10 KU from the initial viscosity			
No Cracks			
Pass at 0.25 in mandrel			
≥70% paint retention in wheel track			
No Cracks			

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12 The footnotes are supplemented with the following:

1 ⁴Cross-linking acrylic shall meet the requirements of federal specification TT-P-1952F 2 Section 3.1.1. 3 4 ⁵Cold Flexibility: The paint shall be applied to an aluminum panel at a wet film thickness 5 of 15 mils and allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for 24 6 hours. A cylindrical mandrel apparatus (in accordance with ASTM D522 method B) shall 7 be put in a 40°F refrigerator when the paint is drawn down. After 24 hours, the 8 aluminum panel with dry paint shall be put in the 40°F refrigerator with the mandrel 9 apparatus for 2 hours. After 2 hours, the panel and test apparatus shall be removed and 10 immediately tested to according to ASTM D522 to evaluate cold flexibility. Paint must show no evidence of cracking, chipping or flaking when bent 180 degrees over a 11 12 mandrel bar of specified diameter. 13 14 ⁶NTPEP test deck, or a test deck conforming to ASTM D713, shall be conducted for a 15 minimum of six months with the following additional requirements: it shall be applied at 16 15 wet mils to a test deck that is located at 40N latitude or higher with at least 10,000 17 ADT and which was applied during the months of September through November. 18 19 ⁷Paint is applied to an approximately 4"x12" aluminum panel using a drawdown bar with 20 a 50 mil gap. The coated panel is allowed to dry under ambient conditions (50±10% RH 21 and 72±5 °F) for 24 hours. Visual evaluation of the dry film shall reveal no cracks. 22 23 9-34.3 Plastic 24 In the first sentence of the last paragraph, "Federal Standard 595" is revised to read "SAE 25 AMS Standard 595". 26 27 9-34.3(2) Type B – Pre-Formed Fused Thermoplastic 28 In the last two paragraphs, each reference to "Federal Standard 595" is revised to read "SAE 29 AMS Standard 595". 30 31 9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate 32 The Test Method value for Adhesion to PCC or HMA, psi is revised to read "ASTM 33 D4541¹". 34 35 9-34.4 Glass Beads for Pavement Marking Materials 36 In the Test Method column of the table titled Metal Concentration Limits, "EPA 3052 SW-846 37 6010C" is revised to read "EPA 3052 SW-846 6010D". 38 39 9-34.5(1) Temporary Pavement Marking Tape – Short Duration 40 This section, including title, is revised to read: 41 42 9-34.5(1) Temporary Pavement Marking Tape – Short Duration (Removable) 43 Temporary pavement marking tape for short duration (usage is for up to two months) 44 shall conform to ASTM D4592 Type I except that black tape, black mask tape and the 45 black portion of the contrast removable tape, shall be non-reflective. 46 47 9-34.5(2) Temporary Pavement Marking Tape – Long Duration This section's title is revised to read: 48 49 50 Temporary Pavement Marking Tape – Long Duration (Non-Removable) 51 52 The first sentence is revised to read:

- 1 2 Temporary pavement marking tape for long duration (usage is for greater than two 3 months and less than one year) shall conform to ASTM D4592 Type II. 4 5 ASTM E2176 is deleted from the second sentence. 6 7 9-34.7(1) Requirements 8 The first paragraph is revised to read: 9 10 Field performance evaluation is required for low VOC solvent-based paint per Section 9-11 34.2(4), Type A – liquid hot applied thermoplastic per Section 9-34.3(1), Type B – preformed fused thermoplastic per Section 9-34.3(2), Type C – cold applied preformed 12 13 tape per Section 9-34.3(3), and Type D – liquid applied methyl methacrylate per Section 14 9-34.3(4). 15 16 The last paragraph is deleted. 17 18 9-34.7(1)C Auto No-Track Time 19 The first paragraph is revised to read: 20 21 Auto No-Track Time will only be required for low VOC solvent-based paint in accordance 22 with Section 9-34.2(4). 23 24 The second and third sentences of the second paragraph are deleted.
- 25

SECTION 9 SPECIAL PROVISIONS

2 3

1 2	INTRODUCTION TO THE SPECIAL PROVISIONS
2 3 4	(August 14, 2013 APWA GSP)
5 6 7 8 9 10 11 12	The Work on this project shall be accomplished in accordance with the <i>Standard Specifications for Road, Bridge and Municipal Construction</i> , 2018 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by the Amendments to the Standard Specifications and these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.
13 14 15 16 17 18 19 20	These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision either supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.
21 22	The project-specific Special Provisions are not labeled as such. The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:
23 24 25 26 27	(March 8, 2013 APWA GSP) (April 1, 2013 WSDOT GSP) (May 1, 2013 Lynnwood GSP)
28 29 30 31 32 33	 Also incorporated into the Contract Documents by reference are: Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any Standard Plans for Road, Bridge and Municipal Construction, WSDOT/APWA, current edition
34	The Contractor shall obtain copies of these publications, at the Contractor's own expense.

1 2 3 4	Division 1 General Requirements
4 5 6	DESCRIPTION OF WORK (March 13, 1995 WSDOT GSP)
7 8 9 10 11 12	This Contract provides for the improvement of various City of Lynnwood roadways by HMA for pavement repair, grind and overlay, curb ramps, pedestrian push buttons and pedestrian signals, raised pavement markers, paint line, plastic pavement markings and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.
13	1-01 Definition and Terms
14 15	1-01.3 Definitions
16 17 18 19	(January 4, 2016 APWA GSP) Delete the heading Completion Dates and the three paragraphs that follow it, and replace them with the following:
20	Dates
21	Bid Opening Date
22	The date on which the Contracting Agency publicly opens and reads the Bids.
23 24	Award Date
24 25	The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.
26	Contract Execution Date
$\frac{1}{27}$	The date the Contracting Agency officially binds the Agency to the Contract.
28	Notice to Proceed Date
29	The date stated in the Notice to Proceed on which the Contract time begins.
30	Substantial Completion Date
31 32	The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any
33	remaining traffic disruptions will be rare and brief, and only minor incidental Work,
34	replacement of temporary substitute facilities, plant establishment periods, or
35	correction or repair remains for the Physical Completion of the total Contract.
36 37	Physical Completion Date The day all of the Work is physically completed on the project. All documentation
38	required by the Contract and required by law does not necessarily need to be
39	furnished by the Contractor by this date.
40	Completion Date
41	The day all the Work specified in the Contract is completed and all the obligations of
42	the Contractor under the Contract are fulfilled by the Contractor. All documentation
43	required by the Contract and required by law must be furnished by the Contractor
44 45	before establishment of this date.
45 46	<i>Final Acceptance Date</i> The date on which the Contracting Agency accepts the Work as complete.
40 47	The date on which the contracting Agency accepts the work as complete.
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32 33 Supplement this Section with the following:

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

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

- All references to "State Materials Laboratory" shall be revised to read "Contracting Agency designated location".
- 14 15 All r

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

Additive

A supplemental unit of Work or group of Bid items, identified separately in the Bid
 Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition
 to the Base Bid.

Alternate

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

Business Day

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

Contract Bond

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

38 **Contract Documents**

39 See definition for "Contract".

4041 Contract Time

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

45 **Notice of Award**

46 The written notice from the Contracting Agency to the successful Bidder signifying the 47 Contracting Agency's acceptance of the Bid Proposal.

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49Notice to Proceed

50 The written notice from the Contracting Agency or Engineer to the Contractor authorizing

and directing the Contractor to proceed with the Work and establishing the date on whichthe Contract time begins.

Traffic

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

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1-02 Bid Procedures and Conditions

1-02.1 Prequalification of Bidders

Delete this Section and replace it with the following:

1-02.1 Qualifications of Bidder

(January 24, 2011 APWA GSP)

Before Award of a Public Works Contract, a Bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible Bidder and qualified to be awarded a Public Works project.

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17 **1-02.2 Plans and Specifications**

18 (June 27, 2011 APWA GSP)

Delete this Section and replace it with the following:

- Information as to where Bid Documents can be obtained or reviewed can be found in the
 Call for Bids (Advertisement for Bids) for the Work.
- After Award of the Contract, Plans and Specifications will be issued to the Contractor at no cost as detailed below:
 - **To Prime Contractor** No. of Sets **Basis of Distribution** Reduced Plans (11" x 17") Furnished automatically 2 upon Award. **Contract Provisions** 2 Furnished automatically upon Award. Large Plans (e.g., 22" x 2 Furnished only upon 34") request.
- 27

30

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

31 **1-02.4(2)** Subsurface Information

- 32 (March 8, 2013 APWA GSP)
- 33 The second sentence in the first paragraph is revised to read:
- 34 35

The Summary of Geotechnical Conditions and the boring logs, <u>if and when included</u> as an appendix to the Special Provisions, shall be considered as part of the Contract.

36 37

38 **1-02.6 Preparation of Proposal**

39 Supplement the second paragraph with the following:40

41 4. If a minimum Bid amount has been established for any item, the unit or lump sum 42 price must equal or exceed the minimum amount stated.

1 Delete the fourth paragraph: 2 3 Delete the last paragraph, and replace it with the following: 4 5 The Bidder shall make no stipulation on the Bid Form, nor qualify the Bid in any manner. 6 7 A Bid by a corporation shall be executed in the corporate name, by the president or a 8 vice president (or other corporate officer accompanied by evidence of authority to sign). 9 10 A Bid by a partnership shall be executed in the partnership name, and signed by a 11 partner. 12 13 A Bid by a joint venture shall be executed in the joint venture name and signed by a 14 member of the joint venture. 15 16 (August 2, 2004 WSDOT GSP) 17 The fifth and sixth paragraphs of Section 1-02.6 are deleted. 18 19 Section 1-02.6 is supplemented with the following: 20 21 (August 28, 2017 WSDOT GSP) 22 The Bidder shall submit with their Bid a completed Contractor Certification Wage Law 23 Compliance form (WSDOT Form 272-009). Failure to return this certification as part of 24 the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A 25 Contractor Certification of Wage Law Compliance form is included in the Proposal Forms. 26 27 1-02.13 **Irregular Proposals** 28 (June 20, 2017 APWA GSP) 29 Delete this Section and replace it with the following: 30 31 1. A Proposal will be considered irregular and will be rejected if: 32 The Bidder is not prequalified when so required; a. 33 b. The authorized Proposal form furnished by the Contracting Agency is not used 34 or is altered: 35 The completed Proposal form contains any unauthorized additions, deletions, C. 36 alternate Bids, or conditions; 37 d. The Bidder adds provisions reserving the right to reject or accept the Award, 38 or enter into the Contract; 39 e. A price per unit cannot be determined from the Bid Proposal; 40 f. The Proposal form is not properly executed; 41 The Bidder fails to submit or properly complete a Subcontractor list, if g. 42 applicable, as required in Section 1-02.6; 43 The Bidder fails to submit or properly complete an Underutilized h. 44 Disadvantaged Business Enterprise Certification, if applicable, as required in 45 Section 1-02.6; 46 i. The Bidder fails to submit written confirmation from each UDBE firm listed on 47 the Bidder's completed UDBE Utilization Certification that they are in 48 agreement with the bidder's UDBE participation commitment, if applicable, as 49 required in Section 1-02.6, or if the written confirmation that is submitted fails 50 to meet the requirements of the Special Provisions; 51 The Bidder fails to submit UDBE Good Faith Effort documentation, if j 52 applicable, as required in Section 1-02.6, or if the documentation that is

1		submitted fails to demonstrate that a Good Faith Effort to meet the Condition
2		of Award was made;
3	k.	The Bid Proposal does not constitute a definite and unqualified offer to meet
4		the material terms of the Bid invitation; or
5	Ι.	More than one Proposal is submitted for the same project from a Bidder under
6		the same or different names.
7		
8	2. A Prop	posal may be considered irregular and may be rejected if:
9	a.	The Proposal does not include a unit price for every Bid item;
10	b.	Any of the unit prices are excessively unbalanced (either above or below the
11		amount of a reasonable Bid) to the potential detriment of the Contracting
12		Agency;
13	C.	Receipt of Addenda is not acknowledged;
14	d.	A member of a joint venture or partnership and the joint venture or partnership
15		submit Proposals for the same project (in such an instance, both Bids may be
16		rejected); or
17	e.	If Proposal form entries are not made in ink.
18		
19	1-02.14 D	isqualification of Bidders
20		8 APWA GSP, Option A)
21		ection and replace it with the following:
22		
23	A Ridder	will be deemed not responsible if the Bidder does not meet the mandatory Bidder
24		bility criteria in RCW 39.04.350(1), as amended.
25	responsi	
26	The Cor	ntracting Agency will verify that the Bidder meets the mandatory Bidder
27		bility criteria in RCW 39.04.350(1). To assess Bidder responsibility, the
28		ing Agency reserves the right to request documentation as needed from the
29		nd third parties concerning the Bidder's compliance with the mandatory Bidder
30		bility criteria.
31	responsi	onity ontend.
32	If the Co	ntracting Agency determines the Bidder does not meet the mandatory Bidder
33		bility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the
34		ing Agency shall notify the Bidder in writing, with the reasons for its determination.
35		der disagrees with this determination, it may appeal the determination within two
36		ess days of the Contracting Agency's determination by presenting its appeal and
37		itional information to the Contracting Agency. The Contracting Agency will
38		the appeal and any additional information before issuing its final determination.
38 39		Il determination affirms that the Bidder is not responsible, the Contracting Agency
40		xecute a Contract with any other Bidder until at least two business days after the
40		etermined to be not responsible has received the Contracting Agency's final
41	determin	
42	uelennin	
43 44	1 02 15 D	ra Award Information
44 45		re-Award Information
		013 APWA GSP)
46	Revise this Se	ection to read:
47 48	Dofora a	wording any Contract the Contracting Agona's may require and or more of these
48		warding any Contract, the Contracting Agency may require one or more of these
49 50		actions of the apparent lowest responsible Bidder:
50		complete statement of the origin, composition, and manufacture of any or all
51 52		naterials to be used,
52	2. 5	amples of these materials for quality and fitness tests,

3 4. A breakdown of costs assigned to any Bid item, 4 5. Attendance at a conference with the Engineer or representatives of the Engineer. 5 6. Obtain, and furnish a copy of, a business license to do business in the city or county where the Work is located. 6 7 7. Any other information or action taken that is deemed necessary to ensure that the 8 Bidder is the lowest responsible Bidder. 9 10 1-03 Award and Execution of Contract 11 12 1-03.1 **Consideration of Bids** 13 (January 23, 2006 APWA GSP) 14 Revise the first paragraph to read: 15 After opening and reading Proposals, the Contracting Agency will check them for 16 17 correctness of extensions of the prices per unit and the total price. If a discrepancy exists 18 between the price per unit and the extended amount of any Bid item, the price per unit will 19 control. If a minimum Bid amount has been established for any item and the Bidder's unit 20 or lump sum price is less than the minimum specified amount, the Contracting Agency will 21 unilaterally revise the unit or lump sum price, to the minimum specified amount and 22 recalculate the extension. The total of extensions, corrected where necessary, including 23 sales taxes where applicable and such additives and/or alternates as selected by the 24 Contracting Agency, will be used by the Contracting Agency for Award purposes and to fix 25 the Awarded Contract Price amount and the amount of the Contract bond. 26 27 1-03.3 **Execution of Contract** 28 (October 1, 2005 APWA GSP) 29 Revise this Section to read: 30 31 Copies of the Contract Provisions, including the unsigned Form of Contract, will be 32 available for signature by the successful Bidder on the first business day following Award. 33 The number of copies to be executed by the Contractor will be determined by the 34 Contracting Agency. 35 36 Within ten (10) calendar days after the Award Date, the successful Bidder shall return the 37 signed Contracting Agency-prepared Contract, an insurance certification as required by 38 Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before 39 execution of the Contract by the Contracting Agency, the successful Bidder shall provide 40 any pre-Award information the Contracting Agency may require under Section 1-02.15. 41 42 Until the Contracting Agency executes a Contract, no Proposal shall bind the Contracting 43 Agency nor shall any Work begin within the project limits or within Contracting Agency-44 furnished sites. The Contractor shall bear all risks for any Work begun outside such areas 45 and for any materials ordered before the Contract is executed by the Contracting Agency. 46 47 If the Bidder experiences circumstances beyond their control that prevents return of the 48 Contract Documents within the calendar days after the Award Date stated above, the 49 Contracting Agency may grant up to a maximum of ten (10) additional calendar days for 50 return of the documents, provided the Contracting Agency deems the circumstances 51 warrant it. 52 City of Lynnwood May 2019 2019 Overlay and Curb Ramp Project

3. A progress schedule (in a form the Contracting Agency requires) showing the order

of and time required for the various phases of the Work,

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1-03.4 Contract Bond

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2 (July 23, 2015 APWA GSP)

3 Delete the first paragraph and replace it with the following:

4 5 The successful Bidder shall provide executed payment and performance bond(s) for the 6 full Contract amount. The bond may be a combined payment and performance bond; or 7 be separate payment and performance bonds. In the case of separate payment and 8 performance bonds, each shall be for the full Contract amount. The bond(s) shall: 9 1. Be on Contracting Agency-furnished form(s); 10 2. Be signed by an approved Surety (or Sureties) that: 11 Is registered with the Washington State Insurance Commissioner, and a. 12 b. Appears on the current Authorized Insurance List in the State of 13 Washington published by the Office of the Insurance Commissioner, 14 3. Guarantee that the Contractor will perform and comply with all obligations, 15 duties, and conditions under the Contract, including but not limited to the duty 16 and obligation to indemnify, defend, and protect the Contracting Agency against 17 all losses and claims related directly or indirectly from any failure: 18 Of the Contractor (or any of the employees, Subcontractors, or lower tier a. 19 Subcontractors of the Contractor) to faithfully perform and comply with all 20 Contract obligations, conditions, and duties, or 21 b. Of the Contractor (or the Subcontractors or lower tier Subcontractors of 22 the Contractor) to pay all laborers, mechanics, Subcontractors, lower tier 23 Subcontractors, material person, or any other person who provides supplies 24 or provisions for carrying out the Work; 25 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on 26 the project under Titles 50, 51, and 82 RCW; and 27 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign 28 the bond; and 29 6. Be signed by an officer of the Contractor empowered to sign official statements 30 (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be 31 signed by the president or vice president, unless accompanied by written proof of 32 the authority of the individual signing the bond(s) to bind the corporation (i.e., 33 corporate resolution, power of attorney, or a letter to such effect signed by the 34 president or vice president). 35 36 1-04 Scope of the Work 37 38 1-04.4 Changes 39 40 1-04.4(1) Minor Changes 41 42 (March 22, 2018, Lynnwood GSP) 43 Section 1-04.4(1) is supplemented as follows: 44 45 1-04.4(1) Unexpected Site Changes Payments for changes amounting to \$25,000 or less may be made under the Bid 46 47 item "Unexpected Site Changes". At the discretion of the Contracting Agency, this 48 procedure for Unexpected Site Changes may be used in lieu of the more formal 49 procedure as outlined in Section 1-04.4, Changes. 50 51 The Contractor will be provided a copy of the completed order for Unexpected Site 52 Changes. The agreement for the Unexpected Site Changes will be documented by

signature of the Contractor, or notation of verbal agreement. If the Contractor is in disagreement with anything required by the order for Unexpected Site Changes, the Contractor may protest the order as provided in Section 1-04.5.

- Payments will be determined in accordance with Section 1-09.6. For the purpose of providing a common Proposal for all Bidders, the Contracting Agency has entered an amount for "Unexpected Site Changes" in the Proposal to become a part of the total Bid by the Contractor.
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10 1-04.6 Variation in Estimated Quantities

11 (July 23, 2015 APWA GSP, Option B)

12 Revise the first paragraph to read:

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14 Payment to the Contractor will be made only for the actual quantities of Work performed 15 and accepted in conformance with the Contract. When the accepted quantity of Work 16 performed under a unit item varies from the original Proposal guantity, payment will be at 17 the unit Contract price for all Work unless the total accepted quantity of any Contract 18 item, adjusted to exclude added or deleted amounts included in change orders accepted 19 by both parties, increases or decreases by more than 25 percent from the original 20 Proposal quantity, and if the total extended Bid price for that item at time of Award is 21 equal to or greater than 10 percent of the total Contract price at time of Award. In that 22 case, payment for Contract Work may be adjusted as described herein:

The last paragraph of Section 1-04.6 is deleted and replaced with the following:

The Contractor and the Contracting Agency agree that there will be no cost adjustment for increases or decreases if the Contracting Agency has entered a quantity or amount for the item in the proposal form only to provide a common Proposal for Bidders.

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1-05.4 Conformity With And Deviations From Plans And Stakes

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(August 7, 2017 WSDOT GSP)

33 **Contractor Surveying - Roadway**

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

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

- 43
- The Contractor shall inform the Engineer when monuments are discovered that were not
 identified in the Plans and construction activity may disturb or damage the monuments.
 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the
 length of the project or be replaced at the Contractors expense.
- 48

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

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3	Surveying and Associated Terms" current edition, published by the American Congress or				
4					
5					
6	6 The survey work shall include but not be limited to the following:				
7					
8	1.	Verify the primary horizontal and vertical control furnished by the Contracting			
9		Agency, and expand into secondary control by adding stakes and hubs as well			
10		as additional survey control needed for the project. Provide descriptions of			
11		secondary control to the Contracting Agency. The description shall include			
12		coordinates and elevations of all secondary control points.			
13					
14	2.	Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on			
15		centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and			
16		at points on the alignments spaced no further than 50 feet.			
17					
18	3.	Establish clearing limits, placing stakes at all angle points and at intermediate			
19		points not more than 50 feet apart. The clearing and grubbing limits shall be 5			
20		feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise			
21		shown in the Plans.			
22	4.				
23		than 50 feet apart. Establish offset reference to all slope stakes. If Global			
24		Positioning Satellite (GPS) Machine Controls are used to provide grade control,			
25		then slope stakes may be omitted at the discretion of the Contractor			
26	_				
27	5.	Establish the horizontal and vertical location of all drainage features, placing			
28		offset stakes to all drainage structures and to pipes at a horizontal interval not			
29		greater than 25 feet.			
30	0	Establish readhed and surfacing elevations by placing station at the tap of			
31	6.	Establish roadbed and surfacing elevations by placing stakes at the top of			
32		subgrade and at the top of each course of surfacing. Subgrade and surfacing			
33		stakes shall be set at horizontal intervals not greater than 50 feet in tangent			
34 35		sections, 25 feet in curve sections with a radius less than 300 feet, and at 10- foot intervals in intersection radii with a radius less than 10 feet. Transversely,			
33 36		stakes shall be placed at all locations where the roadway slope changes and at			
37		additional points such that the transverse spacing of stakes is not more than 12			
38		feet. If GPS Machine Controls are used to provide grade control, then roadbed			
39		and surfacing stakes may be omitted at the discretion of the Contractor.			
40					
41	7.	Establish intermediate elevation benchmarks as needed to check work			
42		throughout the project.			
43					
44	8.	Provide references for paving pins at 25-foot intervals or provide simultaneous			
45		surveying to establish location and elevation of paving pins as they are being			
46		placed.			
47					
48	9.	For all other types of construction included in this provision, (including but not			
49		limited to channelization and pavement marking, illumination and signals,			
50		guardrails and barriers, and signing) provide staking and layout as necessary to			
51		adequately locate, construct, and check the specific construction activity.			
52					

- 1 10. Contractor shall determine if changes are needed to the profiles or roadway 2 sections shown in the Contract Plans in order to achieve proper smoothness and 3 drainage where matching into existing features, such as a smooth transition from 4 new pavement to existing pavement. The Contractor shall submit these changes 5 to the Engineer for review and approval 10 days prior to the beginning of work. 6 7 The Contractor shall provide the Contracting Agency copies of any calculations and 8 staking data when requested by the Engineer. 9 10 To facilitate the establishment of these lines and elevations, the Contracting Agency will provide the Contractor with primary survey control information consisting of descriptions 11 12 of two primary control points used for the horizontal and vertical control, and descriptions 13 of two additional primary control points for every additional three miles of project length. 14 Primary control points will be described by reference to the project alignment and the 15 coordinate system and elevation datum utilized by the project. In addition, the Contracting 16 Agency will supply horizontal coordinates for the beginning and ending points and for each 17 Point of Intersection (PI) on each alignment included in the project. 18 19 The Contractor shall ensure a surveying accuracy within the following tolerances: 20 21 Vertical Horizontal 22 ±0.10 feet ±0.10 feet Slope stakes 23 Subgrade grade stakes set 24 0.04 feet below grade ±0.5 feet ±0.01 feet 25 (parallel to alignment) 26 ± 0.1 feet 27 (normal to alignment) 28 29 N/A Stationing on roadway ± 0.1 feet 30 Alignment on roadway N/A ±0.04 feet 31 Surfacing grade stakes ±0.01 feet ±0.5 feet 32 (parallel to alignment) 33 ±0.1 feet 34 (normal to alignment) 35 36 Roadway paving pins for 37 surfacing or paving ±0.01 feet ±0.2 feet 38 (parallel to alignment) 39 ±0.1 feet 40 (normal to alignment) 41 42 The Contracting Agency may spot-check the Contractor's surveying. These spot-checks 43 will not change the requirements for normal checking by the Contractor. 44 45 When staking roadway alignment and stationing, the Contractor shall perform 46 independent checks from different secondary control to ensure that the points staked are 47 within the specified survey accuracy tolerances. 48 49 The Contractor shall calculate coordinates for the alignment. The Contracting Agency will 50 verify these coordinates prior to issuing approval to the Contractor for commencing with
- 51 the work. The Contracting Agency will require up to seven calendar days from the date 52 the data is received.

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

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

Payment

Payment will be made for the following bid item when included in the proposal:

"Roadway Surveying", lump sum.

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

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(April 4, 2011 WSDOT GSP)

Licensed Surveyors

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

The Contractor shall brush out or clear and stake or mark the Right-of-Way lines as
 designated by the Engineer.

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

36 When required, the Contractor shall prepare and file a Record of Survey map in 37 accordance with RCW 58.09 and provide a recorded copy to the Contracting Agency. The 38 Contracting Agency will provide all existing base maps, existing horizontal and vertical 39 control, and other material available with Washington State Plane Coordinate information 40 to the Contractor. The Contracting Agency will also provide maps, plan sheets, and/or aerial photographs clearly identifying the limits of the areas to be surveyed. 41 The 42 Contractor shall establish Washington State Plane Coordinates on all points required in 43 the Record of Survey and other points designated in the Contract Documents. 44

Existing Right-of-Way documentation, existing base maps, existing horizontal and vertical
 control descriptions, maps, plan sheets, aerial photographs and all other available material
 may be viewed by prospective Bidders at the office of the Engineer.

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

1 All survey Work performed by the Contractor shall conform to all applicable sections of 2 the Revised Code of Washington and the Washington Administrative Code. 3 4 The Contractor shall provide all traffic control, signing, and temporary traffic control 5 devices in order to provide a safe Work zone. 6 7 Payment 8 Payment will be made in accordance with Section 1-09.6 for the following Bid item when 9 included in the Proposal: 10 11 "Licensed Surveying", Force Account. 12 For the purpose of providing a common Proposal for all Bidders, the Contracting 13 Agency has entered an amount for the item "Licensed Surveying" in the Bid 14 Proposal to become a part of the total Bid by the Contractor. 15 Removal of Defective and Unauthorized Work 16 1-05.7 17 (October 1, 2005 APWA GSP) 18 Supplement this Section with the following: 19 20 If the Contractor fails to remedy defective or unauthorized Work within the time specified 21 in a written notice from the Engineer, or fails to perform any part of the Work required by 22 the Contract Documents, the Engineer may correct and remedy such Work as may be 23 identified in the written notice, with Contracting Agency forces or by such other means as 24 the Contracting Agency may deem necessary. 25 26 If the Contractor fails to comply with a written order to remedy what the Engineer 27 determines to be an emergency situation, the Engineer may have the defective and 28 unauthorized Work corrected immediately, have the rejected Work removed and replaced, 29 or have Work the Contractor refuses to perform completed by using Contracting Agency 30 or other forces. An emergency situation is any situation when, in the opinion of the 31 Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk of 32 loss or damage to the public. 33 34 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and 35 remedving defective or unauthorized Work, or Work the Contractor failed or refused to 36 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from 37 monies due, or to become due, the Contractor. Such direct and indirect costs shall include 38 in particular, but without limitation, compensation for additional professional services 39 required, and costs for repair and replacement of Work of others destroyed or damaged 40 by correction, removal, or replacement of the Contractor's unauthorized Work. 41 42 No adjustment in Contract time or compensation will be allowed because of the delay in 43 the performance of the Work attributable to the exercise of the Contracting Agency's rights 44 provided by this Section. 45 46 The rights exercised under the provisions of this Section shall not diminish the Contracting 47 Agency's right to pursue any other avenue for additional remedy or damages with respect 48 to the Contractor's failure to perform the Work as required. 49 50 Add the following new Section: 51 1-05.8 Notifications (New Section) 52 (January 22, 2018, Lynnwood GSP)

1 2 The Contractor shall notify the Lynnwood Fire Department, Police Department and Resident 3 Engineer in writing at least 48 hours prior to: 4

- 1. Implementation of any detours or lane closures;
- 2. Commencing work on any water systems shut downs, inoperable fire hydrants; or
- 3. Shutdowns affecting traffic signals and pre-emption equipment.

7 Notice shall be provided to these departments so that they may reroute their emergency 8 vehicles around or within the construction zone. If rerouting is not possible as determined by 9 the Lynnwood Fire and/or Police Departments, the Contractor shall provide access through 10 the construction zone at all times with no reduction in emergency service response times.

11 The following are the minimum requirements associated with any Contractor notification to the

- 12 Fire Marshall that includes proposing changes to the traffic control plans included in the Bid 13 Documents. The Contractor shall exhibit in its request notice how the proposed revised traffic 14 control plans:
- 15

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- 1. Meets the requirements identified in the Plans and Specifications, and
- 16 2. Provides continuous emergency access to structures and buildings within and 17 adjacent to the project area during construction.
- 18 The Contractor's proposed revisions to the traffic control plans shall be approved by the Fire 19 Marshall or designee at least forty-eight (48) hours prior to start of construction. The contractor 20 shall have on hand and readily available steel plates or other means capable of handling 21 emergency vehicle traffic and personnel to provide for a reasonable response time through the
- 22 construction zone and/or into the construction area in emergency situations.
- 23 If the Contractor can demonstrate through use of the submitted project schedule that access 24 approval by the Fire Marshall or designee requiring greater than forty-eight (48) hours has 25 delayed the critical path of the schedule, the Contractor will not be assessed working days for 26 the same delayed period.
- 27 If affected, the Contractor shall notify the U. S. Postal Service, Edmonds School District #15, 28 Edmonds Community College and Community Transit at least forty-eight (48) hours prior to
- 29 traffic disruptions or route detours.
- 30 The Contractor shall notify all residents and/or business adjacent to or within 300 feet of the
- 31 construction zone prior to construction to insure parked vehicles are moved and that citizens 32 are aware that access and/or services may be temporarily impeded. Notification shall be as
- 33 follows:
- 34 A. Initial notification shall be provided to residents and businesses providing the 35 Contractor's intended construction schedule and potential traffic delays or property 36 access and/or service disruptions. This notification shall precede the work a 37 minimum of seven (7) days. Wording of the initial notice shall be approved by the 38 Contracting Agency prior to it being distributed.
- 39 B. Final notification shall be provided to residents and businesses providing the 40 Contractor's exact construction schedule and nature of the disruption. This 41 notification shall be provided a minimum of twenty-four (24) hours prior to the first day 42 residents/businesses will be requested to clear vehicles from the construction area 43 and/or any disruption to property access or services.
- 44
- 45

46 1-05.11 Final Inspection

47 Delete this Section and replace it with the following: 48

1-05.11 Final Inspections and Operational Testing 49

(October 1, 2005 APWA GSP) 50

1-05.11(1) Substantial Completion Date

When the Contractor considers the Work to be Substantially Complete, the Contractor shall so notify the Engineer and request the Engineer establish the Substantial Completion Date. The Contractor's request shall list the specific items of Work that remain to be completed in order to reach Physical Completion. The Engineer will schedule an inspection of the Work with the Contractor to determine the status of completion. The Engineer may also establish the Substantial Completion Date unilaterally.

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If, after this inspection, the Engineer concurs with the Contractor that the Work is Substantially Complete and ready for its intended use, the Engineer, by written notice to the Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer does not consider the Work Substantially Complete and ready for its intended use, the Engineer will, by written notice, so notify the Contractor giving the reasons therefor.

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

The above process shall be repeated until the Engineer establishes the Substantial Completion Date and the Contractor considers the Work Physically Complete and ready for final inspection.

- 26 27
- 28 29 30

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

32 When the Contractor considers the Work Physically Complete and ready for final 33 inspection, the Contractor by written notice, shall request the Engineer to schedule a final 34 inspection. The Engineer will set a date for final inspection. The Engineer and the 35 Contractor will then make a final inspection and the Engineer will notify the Contractor in 36 writing of all particulars in which the final inspection reveals the Work incomplete or 37 unacceptable. The Contractor shall immediately take such corrective measures as are 38 necessary to remedy the listed deficiencies. Corrective Work shall be pursued vigorously. 39 diligently, and without interruption until Physical Completion of the listed deficiencies. This 40 process will continue until the Engineer is satisfied the listed deficiencies have been 41 corrected.

42

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

47

48 The Contractor will not be allowed an extension of Contract time because of a delay in the 49 performance of the Work attributable to the exercise of the Engineer's right hereunder.

50

51 Upon correction of all deficiencies, the Engineer will notify the Contractor and the 52 Contracting Agency, in writing, of the date upon which the Work was considered Physically

53 Complete. That date shall constitute the Physical Completion Date of the Contract, but

shall not imply acceptance of the Work or that all the obligations of the Contractor under the Contract have been fulfilled.

1-05.11(3) Operational Testing

6 It is the intent of the Contracting Agency to have at the Physical Completion Date a 7 complete and operable system. Therefore when the Work involves the installation of 8 machinery or other mechanical equipment; street lighting, electrical distribution or signal 9 systems; irrigation systems; buildings; or other similar Work it may be desirable for the 10 Engineer to have the Contractor operate and test the Work for a period of time after final inspection but prior to the Physical Completion Date. Whenever items of Work are listed 11 12 in the Contract Provisions for operational testing they shall be fully tested under operating 13 conditions for the time period specified to ensure their acceptability prior to the Physical 14 Completion Date. During and following the test period, the Contractor shall correct any 15 items of workmanship, materials, or equipment which prove faulty, or that are not in first 16 class operating condition. Equipment, electrical controls, meters, or other devices and 17 equipment to be tested during this period shall be tested under the observation of the 18 Engineer, so that the Engineer may determine their suitability for the purpose for which 19 they were installed. The Physical Completion Date cannot be established until testing and 20 corrections have been completed to the satisfaction of the Engineer. 21

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

- Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the Contract.
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30 **1-05.13** Superintendents, Labor and Equipment of Contractor

- 31 (August 14, 2013 APWA GSP)
- 32 Delete the sixth and seventh paragraphs of this Section.
- 34 Add the following new Section:

1-05.16 Water and Power

(October 1, 2005 APWA GSP)

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

- 42
- 43 Add the following new section:44
- 45 **1-05.18 Record Drawings**
- 46 (March 8, 2013 APWA GSP)
- The Contractor shall maintain one set of full size plans for Record Drawings, updated
 with clear and accurate red-lined field revisions on a daily basis, and within 2 business
 days after receipt of information that a change in Work has occurred. The Contractor
 shall not conceal any work until the required information is recorded.

- This Record Drawing set shall be used for this purpose alone, shall be kept separate
 from other Plan sheets, and shall be clearly marked as Record Drawings. These Record
 Drawings shall be kept on site at the Contractor's field office, and shall be available for
 review by the Contracting Agency at all times. The Contractor shall bring the Record
 Drawings to each progress meeting for review.
 - The preparation and upkeep of the Record Drawings is to be the assigned responsibility of a single, experienced, and qualified individual. The quality of the Record Drawings, in terms of accuracy, clarity, and completeness, is to be adequate to allow the Contracting Agency to modify the computer-aided drafting (CAD) Contract Drawings to produce a complete set of Record Drawings for the Contracting Agency without further investigative effort by the Contracting Agency.
 - The Record Drawing markups shall document all changes in the Work, both concealed and visible. Items that must be shown on the markups include but are not limited to:
 - Actual dimensions, arrangement, and materials used when different than shown in the Plans.
 - Changes made by Change Order or Field Order.
 - Changes made by the Contractor.
 - Accurate locations of storm sewer, sanitary sewer, water mains and other water appurtenances, structures, conduits, light standards, vaults, width of roadways, sidewalks, landscaping areas, building footprints, channelization and pavement markings, etc. Include pipe invert elevations, top of castings (manholes, inlets, etc.).

If the Contract calls for the Contracting Agency to do all surveying and staking, the
 Contracting Agency will provide the elevations at the tolerances the Contracting Agency
 requires for the Record Drawings.

31 When the Contract calls for the Contractor to do the surveying/staking, the applicable 32 tolerance limits include, but are not limited to the following:

_	Vertical	Horizontal
As-built sanitary & storm invert and grate elevations	± 0.01 foot	± 0.01 foot
As-built monumentation	± 0.001 foot	± 0.001 foot
As-built waterlines, inverts, valves, hydrants	± 0.10 foot	± 0.10 foot
As-built ponds/swales/water features	± 0.10 foot	± 0.10 foot
As-built buildings (fin. Floor elev.)	± 0.01 foot	± 0.10 foot
As-built gas lines, power, TV, Tel, Com	± 0.10 foot	± 0.10 foot
As-built signs, signals, etc.	N/A	± 0.10 foot

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Making Entries on the Record Drawings:

- Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:
- 38 Additions Red
- 39 Deletions Green
- 40 Comments Blue

1		Dimensions- Graphite			
2	 Provide the applicable reference for all entries, such as the change order number, 				
3	the request for information (RFI) number, or the approved shop drawing number.				
4	 Date all entries. 				
5		 Date all entries. Clearly identify all items in the entry with notes similar to those in the Contract 			
6		Drawings (such as pipe symbols, centerline elevations, ma			
7		abbreviations, etc.).			
8					
9	The	Contractor shall certify on the Record Drawings that said dra	awings are an accurate		
10		iction of built conditions, and in conformance with the require			
11		Contractor shall submit final Record Drawings to the Contra			
12					
13	Contracting Agency acceptance of the Record Drawings is one of the requirements for achieving Physical Completion.				
14	401	leving i hydiodi completion.			
15	Pay	ment will be made for the following bid item:			
16					
10	Ī	Record Drawings	Lump Sum		
		(Minimum Bid \$ \$\$200\$\$)	Edinp Gdin		
17	l				
17	Day	ment for this item will be made on a prorated monthly basis f	for work completed in		
19					
20	accordance with this section up to 75% of the lump sum bid. The final 25% of the lump sum item will be paid upon submittal and approval of the completed Record Drawings set				
20		pared in conformance with these Special Provisions.	ted Record Drawings set		
$\frac{21}{22}$	pic				
$\frac{22}{23}$	An	inimum bid amount has been entered in the Bid Proposal for	this item The Contractor		
24		st bid at least that amount.			
25					
26					
27	1-06	Control of Material			
28					
29	1-06.1	Approval of Materials Prior to Use			
30		PP			
31	1-	06.1(3) Aggregate Source Approval (ASA) Database			
32		ction 1-06.1(3) is supplemented with the following:			
33					
34		If the Contractor elects to use aggregate materials not appl	roved for use in the ASA		
35		database, all preliminary testing by the Contracting Agency			
36		source and material for use prior to incorporation in Work s			
37		Contractor's expense. Costs for preliminary testing of mate			
• •					

- ASA database shall be taken in the form of a progress pay estimate deduction.
- At the expense of the Contracting Agency, sampling and testing to approve for use
 the following materials will be performed for a maximum of two (2) aggregate
 sources for each material. Approval of more than two sources for the same material
 at the request of the Contractor will be performed at the Contractor's expense and
 taken in the form of a progress pay estimate deduction.
- 45 46 Gravel Borrow
- 47 Select Borrow
- 48 CSTC
- 49 CSBC

39

50 Hot Mixed Asphalt

2 Quarry Spalls 3 Pipe Bedding 4 All Types of Backfill Material 5 6 1-06.6 **Recycled Materials** 7 (January 4, 2016 APWA GSP) 8 9 Delete this Section, including its subsections, and replace it with the following: 10 11 The Contractor shall make their best effort to utilize recycled materials in the construction 12 of the project. Approval of such material use shall be as detailed elsewhere in the 13 Standard Specifications. 14 15 Prior to Physical Completion the Contractor shall report the quantity of recycled materials 16 that were utilized in the construction of the project for each of the items listed in Section 17 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled 18 glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material 19 and aggregates from concrete returned to the supplier). The Contractor's report shall be 20 provided on DOT form 350-075 Recycled Materials Reporting. 21 22 23 1-07 Legal Relations and Responsibilities to the Public 24 25 1-07.1 Laws to be Observed 26 (October 1, 2005 APWA GSP) 27 Supplement this Section with the following: 28 29 In cases of conflict between different safety regulations, the more stringent regulation shall 30 apply. 31 32 The Washington State Department of Labor and Industries shall be the sole and paramount administrative agency responsible for the administration of the provisions of 33 34 the Washington Industrial Safety and Health Act of 1973 (WISHA). 35 36 The Contractor shall maintain at the project site office, or other well known place at the 37 project site, all articles necessary for providing first aid to the injured. The Contractor shall 38 establish, publish, and make known to all employees, procedures for ensuring immediate 39 removal to a hospital, or doctor's care, persons, including employees, who may have been 40 injured on the project site. Employees should not be permitted to Work on the project site 41 before the Contractor has established and made known procedures for removal of injured 42 persons to a hospital or a doctor's care. 43 44 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of 45 the Contractor's plant, appliances, and methods, and for any damage or injury resulting 46 from their failure, or improper maintenance, use, or operation. The Contractor shall be 47 solely and completely responsible for the conditions of the project site, including safety for 48 all persons and property in the performance of the Work. This requirement shall apply 49 continuously, and not be limited to normal working hours. The required or implied duty of 50 the Engineer to conduct construction review of the Contractor's performance does not, 51 and shall not, be intended to include review and adequacy of the Contractor's safety 52 measures in, on, or near the project site. City of Lynnwood May 2019 2019 Overlay and Curb Ramp Project

Portland Cement Concrete

1-07.2 State Taxes

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

1-07.2 State Sales Tax

(June 27, 2011 APWA GSP)

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

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

18 The Contracting Agency will pay the retained percentage (or release the Contract Bond if 19 a FHWA-funded project) only if the Contractor has obtained from the Washington State 20 Department of Revenue a certificate showing that all Contract-related taxes have been 21 paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the 22 Contractor any amount the Contractor may owe the Washington State Department of 23 Revenue, whether the amount owed relates to this Contract or not. Any amount so 24 deducted will be paid into the proper State fund.

26 **1-07.2(1) State Sales Tax — Rule 171**

27 28 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, 29 roads, etc., which are owned by a municipal corporation, or political subdivision of the 30 State, or by the United States, and which are used primarily for foot or vehicular traffic. 31 This includes storm or combined sewer systems within and included as a part of the street 32 or road drainage system and power lines when such are part of the Roadway lighting 33 system. For Work performed in such cases, the Contractor shall include Washington State 34 Retail Sales Taxes in the various unit Bid item prices, or other Contract amounts, including 35 those that the Contractor pays on the purchase of the materials, equipment, or supplies 36 used or consumed in doing the Work.

37 38 39

1-07.2(2) State Sales Tax — Rule 170

40 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or 41 existing buildings, or other Structures, upon real property. This includes, but is not limited 42 to, the construction of streets, roads, Highways, etc., owned by the State of Washington; 43 water mains and their appurtenances; sanitary sewers and sewage disposal systems 44 unless such sewers and disposal systems are within, and a part of, a street or road 45 drainage system; telephone, telegraph, electrical power distribution lines, or other 46 conduits or lines in or above streets or roads, unless such power lines become a part of a 47 street or road lighting system; and installing or attaching of any article of tangible personal 48 property in or to real property, whether or not such personal property becomes a part of 49 the realty by virtue of installation.

50

51 For Work performed in such cases, the Contractor shall collect from the Contracting 52 Agency, retail sales tax on the full Contract price. The Contracting Agency will

1	automatically add this sales tax to each payment to the Contractor. For this reason, the
	Contractor shall not include the retail sales tax in the unit Bid item prices, or in any other
2 3	Contract amount subject to Rule 170, with the following exception.
4	
5	Exception: The Contracting Agency will not add in sales tax for a payment the Contractor
6	or a Subcontractor makes on the purchase or rental of tools, machinery, equipment, or
7	consumable supplies not integrated into the project. Such sales taxes shall be included
8	in the unit Bid item prices or in any other Contract amount.
9	
10	1-07.2(3) Services
11	
12	The Contractor shall not collect retail sales tax from the Contracting Agency on any
13	Contract wholly for professional or other services (as defined in Washington State
14	Department of Revenue Rules 138 and 244).
15	
16	1-07.6(1) Local Permits and Licenses
17	(April 8, 2019, Lynnwood GSP)
18	
19	Section 1-07.6(1) is added as follows:
20	
21	The Contracting Agency has applied and paid for the following permits in conjunction with
22	this project. The Contractor shall be responsible for picking up these permits at the
23	Lynnwood Permit Center, 20816 44 th Ave W, Suite 230. A Washington State Contractors
24	license and City of Lynnwood Business License are required before local permits will be
25	issued by City of Lynnwood.
26	
27	Grading Permit – City of Lynnwood
28	
29	It is the Contractor's responsibility to apply and pay for the following permits which have
30	been identified as required for this project. The Contractor shall also be responsible to
31	apply and pay for any other unidentified permits which may be required. All costs to obtain
32	and comply with these permits shall be included in the applicable Bid items for the work
33	involved.
34	Electrical Permit – City of Lynnwood
35	
36	1-07.7 Load Limits
37	Section 1-07.7 is supplemented with the following:
38	5
39	(March 13, 1995 WSDOT GSP)
40	If the sources of materials provided by the Contractor necessitates hauling over roads
41	other than State Highways, the Contractor shall, at the Contractor's expense, make all
42	arrangements for the use of the haul routes.
43	
44	1-07.15 Temporary Water Pollution/Erosion Control
45	
	10715(1) Spill Provention Centrel and Countermoseures Plan
46 47	1-0-7.15(1) Spill Prevention, Control, and Countermeasures Plan
47	(December 6, 2018, Lynnwood GSP)
48	
49	The last sentence of the first paragraph of Section 1-07.15(1) is deleted and replaced with:
50	
51	The Contractor shall use the City of Lynnwood SPCC Plan template, available on the
52	City's website at <u>http://www.lynnwoodwa.gov/City-Services/EnvironmentalSurface-</u>

- Water-and-Storm-Water/Environmental-Documents-and-Reports.htm, in lieu of the WSDOT template.
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1-07.17 Utilities and Similar Facilities

- Section 1-07.17 is supplemented with the following:
 - (April 2, 2007 WSDOT GSP)
 - Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.
 - The following addresses and telephone numbers of utility companies or their Contractors that will be adjusting, relocating, replacing or constructing utilities within the project limits are supplied for the Contractor's use:

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City of Lynnwood Wotor & Sower	Snohomich County DUD Electric
City of Lynnwood Water & Sewer Paul McIntyre	Snohomish County PUD, Electric Erin Burke
425-670-5241	425-783-4745
425-670-5241	425-783-4745
Alderwood Water and Wastewater	Wave Broadband
Pat Peck	Jeremy Anderson
425-743-8913	425-319-0216
Puget Sound Energy, Gas	Comcast
Eric Liaw	Joe Fordon
425-495-3297	425-263-5348
Frontier	Zayo
Adam Diaz	Jason Accuardi
425-261-0134	206-456-3969
CenturyLink	Edmonds School District #15
Daniel Beach	Nick Chou
253-851-1259	425-431-7275
Waste Management	Republic Services
Rich Rinehart	Courtney Crouch
425-420-1717	425-646-2449
South Snohomish County Fire & Rescue	Lynnwood Police Department
Aaron Huckstep, Lynnwood Deputy Fire	425-670-5600
Marshall	
425-670-5330	
Lynnwood Post Office	Community Transit
Matthew Patton	Construction.supervisor@commtrans.org
425-774-6357	425-348-7191

15 16

1-07.23 Public Convenience and Safety

- 17 Section 1-07.23 is supplemented with the following:
- 18
- 19 When directed by the Engineer, the Contractor shall provide additional elements of public 20 convenience and safety as a result of Contracting Agency public events that could affect

the public convenience of safety or local business or residential concerns not otherwise indicated in the Plans or within these Specifications. These elements include, but may not be limited to, sign installation or removal, pedestrian safeguards or pathways, and access to local businesses. Such additional work, if required, shall be paid for as set forth in section 1-04.4(1) Unexpected Site Changes of these Special Provisions.

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1-07.23(1) Construction Under Traffic

8 (May 2, 2017 APWA GSP)

9 Revise the third sentence of the second paragraph to read:

Accessibility to existing or temporary pedestrian push buttons shall not be impaired; if approved by the Contracting Agency activating pedestrian recall timing or other accommodation may be allowed during construction.

15 Section 1-07.23(1) is supplemented with the following:

1617 (January 2, 2012 WSDOT GSP)

18 Work Zone Clear Zone

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours.
 The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those
 Work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other Contract requirements.

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

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

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

37
38 Deviation from the above requirements shall not occur unless the Contractor has
39 requested the deviation in writing and the Engineer has provided written approval.

40
41 Minimum WZCZ distances are measured from the edge of Traveled Way and will be
42 determined as follows:

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

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* or 2-feet beyond the outside edge of sidewalk

1	Minimum Work Zone Clear Zone Distance
2 3	(January 5, 2015 WSDOT GSP)
4	Lane closures are subject to the following restrictions:
5	
6	***
7	The Contractor shall follow the requirements as shown in the plans for traffic control
8	sequencing. In addition to sequencing requirements, the work is subject to the
9	following requirements.
10	Contractor shall verify that all businesses have alternate access points that can
11	be used while access point within work area is blocked. If no separate access
12	area exists, Contractor shall coordinate with the business owner for the short-
13	term closure of their access during construction activities.
14	 Emergency vehicles will be provided access at all times.
15	Maintain local access at all times, including for driveway accesses.
16	In addition to maintaining access, work for temporary closures as noted in the
17	Plans, Sheet TC1-TC5, shall be incidental to other items.
18	• Night Work will be acceptable only for Work on 68 th Ave. W., and specifically
19 20	prohibited on the other project sites. The Contractor will be required to submit a
20 21	Traffic Control Plan to the Engineer for review and approval detailing the Work performed, and required traffic control measures for the Work, the planned
21	hours of work including traffic control set up and breakdown, 5 working days
23	prior to the planned night of Work. ***
23	
25	If the Engineer determines the permitted closure hours adversely affect traffic, the
26	Engineer may adjust the hours accordingly. The Engineer will notify the Contractor
27	in writing of any change in the closure hours.
28	
29	Lane closures are not allowed on any of the following:
30	
31	1. A holiday,
32	2. A baliday weekend, balidays that easy on Friday, Caturday, Cunday, or
33 34	 A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes
35	Saturday, Sunday, and the holiday.
36	Sataraay, Sanaay, and the Honday.
37	3. After *** noon *** on the day prior to a holiday or holiday weekend, and
38	
39	4. Before *** noon *** on the day after the holiday or holiday weekend.
40	
41	1-07.23(3) Pedestrian Control and Protection
42	Section 1-07.23(3) is added as follows:
43	
44	If no alternative is proposed within the Contract Plans, all existing pedestrian routes
45 46	and access points within the project limits, including sidewalks, paths, and crosswalks, shall remain open and clear at all times. In the event Work interferes
40 47	with an existing pedestrian route, an alternate accessible route shall be provided by
48	the Contractor. The Contractor shall submit to the Engineer for approval a
49	Pedestrian Traffic Control Plan (PTCP) that complies with the MUTCD, ADA
50	requirements, and these Special Provisions. Contractor proposed PTCPs detailing
51	the alternative accessible pedestrian route shall be approved by the Engineer prior
52	to implementation. The Engineer will have a 5-working day review period. Each

time the plan is returned for correction, an additional 5-working day review period
 may be necessary.
 may be necessary.

When the Engineer allows Work areas to encroach upon a sidewalk or crosswalk area, and minimum clear width of 48-inches cannot be maintained for pedestrian use, an alternative accessible pedestrian route shall be provided. Separation of pedestrians from the Work area and vehicular traffic is required.

Protective barricades, fencing, and bridges, together with warning and guidance devices and signs, shall be utilized so that the passageway for pedestrians is safe, well defined and accessible. Whenever pedestrian walkways are provided across excavations, they shall be provided with suitable handrails. Foot bridges shall be safe, strong, and free of bounce and sway, have a slip resistant coating, and be free of cracks, holes and irregularities that could cause tripping. Ramps, with a maximum slope of 8.3%, shall be provided at the entrance and exit of all raised footbridges. The maximum cross slope shall be 2.0%. When the existing facility is illuminated or PTCP's requires illumination, illumination shall be provided during the hours of darkness. Retroreflective delineation shall be provided during hours of darkness.

- Where the Engineer allows accessible pedestrian routes to be closed during construction, an alternate accessible pedestrian route shall be provided that complies with the MUTCD, ADA requirements and these Provisions. The alternate accessible pedestrian route shall not have abrupt changes in grade or terrain. Barriers and channelizing devices shall be detectable to pedestrians who have visual disabilities. Where it is necessary to divert pedestrians into the Roadway, barricading or channelizing devices shall be provided to separate the pedestrian route from the adjacent vehicular traffic lane, as detailed in the Plans. Barricading or channelizing devices used to separate pedestrian and vehicular traffic shall be crashworthy and, when struck by vehicles, present a minimum threat to pedestrians, workers, and occupants of impacting vehicles. At no time shall pedestrians be diverted into a portion of the street used concurrently by moving vehicular traffic.
- Revisions to traffic control or pedestrian control Plans shall be in accordance with 1 10.2.
 - In addition, the PTCPs shall address the following:
 - All pedestrians, including persons with disabilities, shall be provided with a safe and accessible route.
 - The width of the existing pedestrian facility shall be maintained if possible. When it is not possible to maintain a minimum width of 60-inches throughout the entire length of the pedestrian route, a minimum width of 48-inches shall be provided with 60-inch x 60-inch passing zones spaced at maximum intervals of 200-feet to allow individuals in wheelchairs to pass.
 - Traffic control devices and other construction materials and features shall not intrude into the usable width of the sidewalk, alternate accessible pedestrian route, or other pedestrian facility.

1 Signs and other devices mounted lower than 84-inches above the 2 temporary accessible pedestrian route shall not project more than 4-3 inches into the accessible pedestrian route. 4 5 A smooth, continuous hard surface shall be provided throughout the entire • 6 length and width of the pedestrian route throughout construction. There 7 shall be no curbs or vertical elevation changes greater than 1/2-inch in 8 grade or terrain that could cause tripping or be a barrier to wheelchair use. 9 Vertical elevation differences between ¹/₄-inch and ¹/₂-inch shall be beveled 10 at a maximum 2:1 slope. 11 12 When channelization is used to delineate a pedestrian pathway, a • 13 continuous detectable edging shall be provided throughout the length of 14 the facility such that pedestrians using a cane can follow it. Edging shall 15 protrude at least 6-inches above the surface of the sidewalk or pathway 16 with the bottom of the edging a maximum of 2-1/2 inches above the 17 surface. 18 19 Temporary ramps shall be provided when an alternate accessible 20 pedestrian route crosses a curb and no permanent curb ramps are in 21 place. The width of the curb ramp shall be a minimum of 48-inches and 22 the maximum slope of the ramp shall be 8.3%. The maximum cross slope 23 shall be 2.0%. The bottom of the curb ramp shall be flush with the 24 Roadway. Temporary detectable warning mats shall be installed at street 25 crossings. 26 27 When possible, an alternate accessible pedestrian route shall be provided • 28 on the same side of the street as the disrupted route. When it is not 29 possible, the alternate route shall be clearly identified at the nearest 30 intersection crossing prior to the closure area. 31 32 Information regarding closed pedestrian routes, alternate crossings, and • 33 sign and signal information shall be communicated to pedestrians with 34 visual disabilities by providing devices such as audible information 35 devices, accessible pedestrian signals, or barriers and channelizing devices that are detectable to the pedestrians traveling with the aid of a 36 37 cane or who have low vision. 38 39 It is desirable that pedestrians cross to the opposite side of the Roadway • 40 at intersections rather than mid-block. Appropriate signing shall be placed 41 at the intersections prior to any pedestrian route closure. 42 43 At locations where adjacent alternate walkways cannot be provided, 44 appropriate signs shall be posted at the limits of construction and in 45 advance of the closure at the nearest crosswalk or intersection, to divert 46 pedestrians across the street. Physical barricades shall be installed to 47 prevent visually impaired people from inadvertently entering a closed 48 area. 49 50 Measurement 51 No specific unit of measurement will apply to the lump sum item for Pedestrian 52 Traffic Control.

1	
2	Payment
2 3	Payment will be made for the following Bid item when included in the Proposal:
4	
5	"Pedestrian Traffic Control", lump sum.
6	The lump sum Contract payment for "Pedestrian Traffic Control" shall be full
7	compensation for all Work necessary to provide pedestrian control and
8 9	protection as specified including installation, maintenance and removal of
9 10	temporary pedestrian routes, protective barricades, fencing, detours, signs and
10	bridges, warning and guidance devices, and temporary pavement surfacing as needed to perform Work.
12	1-07.24 Rights of Way
12	(July 23, 2015 APWA GSP)
13	Delete this Section and replace it with the following:
15	
16	Street Right of Way lines, limits of easements, and limits of construction permits are
17	indicated in the Plans. The Contractor's construction activities shall be confined within
18	these limits, unless arrangements for use of private property are made.
19	
20	Generally, the Contracting Agency will have obtained, prior to Bid opening, all Rights of
21	Way and easements, both permanent and temporary, necessary for carrying out the Work.
22	Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's
23 24	attention by a duly issued Addendum.
25	Whenever any of the Work is accomplished on or through property other than public Right
26	of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement
27	agreement obtained by the Contracting Agency from the owner of the private property.
28	Copies of the easement agreements may be included in the Contract Provisions or made
29	available to the Contractor as soon as practical after they have been obtained by the
30	Engineer.
31	
32	Whenever easements or rights of entry have not been acquired prior to advertising, these
33 34	areas are so noted in the Plans. The Contractor shall not proceed with any portion of the Work in areas where Right of Way, easements or rights of entry have not been acquired
35	until the Engineer certifies to the Contractor that the Right of Way or easement is available
36	or that the right of entry has been received. If the Contractor is delayed due to acts of
37	omission on the part of the Contracting Agency in obtaining easements, rights of entry or
38	Right of Way, the Contractor will be entitled to an extension of time. The Contractor agrees
39	that such delay shall not be a breach of Contract.
40	
41	Each property owner shall be given 48 hours notice prior to entry by the Contractor. This
42	includes entry onto easements and private property where private improvements must be
43	adjusted.
44	The Ocean shall be seen with for your difference it has a many set in the the
45 46	The Contractor shall be responsible for providing, without expense or liability to the
46 47	Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs.
47	However, before using any private property, whether adjoining the Work or not, the
49	Contractor shall file with the Engineer a written permission of the private property owner,
50	and, upon vacating the premises, a written release from the property owner of each
51	property disturbed or otherwise interfered with by reasons of construction pursued under
52	this Contract. The statement shall be signed by the private property owner, or proper
53	authority acting for the owner of the private property affected, stating that permission has
	City of Lynnwood May 2019

1 been granted to use the property and all necessary permits have been obtained or, in the 2 case of a release, that the restoration of the property has been satisfactorily accomplished. 3 The statement shall include the parcel number, address, and date of signature. Written 4 releases must be filed with the Engineer before the Completion Date will be established. 5 6 7 1-08 **Prosecution and Progress** 8 Add the following new Section: 9 10 1-08.0 **Preliminary Matters** 11 (May 25, 2006 APWA GSP) 12 13 Add the following new Section: 14 15 1-08.0(1) Preconstruction Conference 16 (October 10, 2008 APWA GSP) 17 18 Prior to the Contractor beginning the Work, a Preconstruction Conference will be 19 held between the Contractor, the Engineer and such other interested parties as may 20 be invited. The purpose of the Preconstruction Conference will be: 21 To review the initial progress schedule; 1. 22 2. To establish a working understanding among the various parties associated 23 or affected by the Work; 24 3. To establish and review procedures for progress payment, notifications, 25 approvals, submittals, etc.; 26 4. To establish normal working hours for the Work; 27 To review safety standards and traffic control; and 5. 28 6. To discuss such other related items as may be pertinent to the Work. 29 30 The Contractor shall prepare and submit at the Preconstruction Conference the 31 following: 32 1. A breakdown of all lump sum items; 33 2. A preliminary schedule of Working Drawing submittals; and 34 3. A list of material sources for approval if applicable. 35 36 Add the following new Section: 37 38 1-08.0(2) Hours of Work 39 (December 8, 2014 APWA GSP) 40 41 Except in the case of emergency or unless otherwise approved by the Engineer, the 42 normal working hours for the Contract shall be any consecutive 8-hour period 43 between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch 44 break. If the Contractor desires different than the normal working hours stated 45 above, the request must be submitted in writing prior to the Preconstruction 46 Conference, subject to the provisions below. The working hours for the Contract 47 shall be established at or prior to the Preconstruction Conference. 48 49 All working hours and days are also subject to local permit and ordinance conditions 50 (such as noise ordinances). 51

1 2	If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a written request to the Engineer for consideration. This
$\frac{2}{3}$	request shall state what hours are being requested, and why. Requests shall be
4	submitted for review no later than 14 days prior to the day(s) the Contractor is
5	requesting to change the hours.
6	
7	If the Contracting Agency approves such a deviation, such approval may be subject
8	to certain other conditions, which will be detailed in writing. For example:
9	1. On non-Federal aid projects, requiring the Contractor to reimburse the
10	Contracting Agency for the costs in excess of straight-time costs for
11	Contracting Agency representatives who worked during such times. (The
12	Engineer may require designated representatives to be present during the
13	Work. Representatives who may be deemed necessary by the Engineer
14	include, but are not limited to: survey crews; personnel from the Contracting
15	Agency's material testing lab; Inspectors; and other Contracting Agency
16	employees or third party consultants when, in the opinion of the Engineer,
17	such Work necessitates their presence.)
18	2. Considering the Work performed on Saturdays, Sundays, and holidays as
19	working days with regard to the Contract time.
20	3. Considering multiple Work shifts as multiple working days with respect to
21	Contract time even though the multiple shifts occur in a single 24-hour period.
22	4. If a 4-10 Work schedule is requested and approved the non-working day for
23	the week will be charged as a working day.
24	5. If Davis Bacon wage rates apply to this Contract, all requirements must be
25	met and recorded properly on certified payroll.
26	
27	1-08.1 Subcontracting
27 28	Section 1-08.1 is supplemented with the following:
27 28 29	
27 28 29 30	Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP)
27 28 29 30 31	Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall
27 28 29 30 31 32	Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement
27 28 29 30 31 32 33	Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any
27 28 29 30 31 32 33 34	Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that
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27 28 29 30 31 32 33 34 35 36	Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that
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27 28 29 30 31 32 33 34 35 36 37 38	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work
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27 28 29 30 31 32 33 34 35 36 37 38 39 40	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work
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27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer: 1. Request to Sublet Work (Form 421-012 EF), and 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer: 1. Request to Sublet Work (Form 421-012 EF), and
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27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer: 1. Request to Sublet Work (Form 421-012 EF), and 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (Form 420-004 EF). The Contractor's records pertaining to the requirements of this Special Provision shall be
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer: Request to Sublet Work (Form 421-012 EF), and Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (Form 420-004 EF). The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer: 1. Request to Sublet Work (Form 421-012 EF), and 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (Form 420-004 EF). The Contractor's records pertaining to the requirements of this Special Provision shall be
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer: 1. Request to Sublet Work (Form 421-012 EF), and 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (Form 420-004 EF). The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of the contract and for a period of not less than three years after the date of acceptance of
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	 Section 1-08.1 is supplemented with the following: (October 12, 1998 WSDOT GSP) Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor shall submit to the Engineer a certification (WSDOT Form 420-004 EF) that a written agreement between the Contractor and the subcontractor or between the subcontractor and any lower tier subcontractor has been executed. This certification shall also guarantee that these subcontract agreements include all the documents required by the Special Provision Federal Agency Inspection. A Subcontractor or lower tier Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer: Request to Sublet Work (Form 421-012 EF), and Contractor and Subcontractor or Lower Tier Subcontractor Certification for Federal-aid Projects (Form 420-004 EF). The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Contracting Agency during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor

1 2 2	1-08.1 Subcontracting (November 30, 2018 APWA GSP, Option B)
3 4 5	Delete the eighth paragraph.
6 7	1-08.3 Progress Schedule
7 8 9	1-08.3(2) Progress Schedule Types
10 11 12	1-08.3(2)B Type B Progress Schedule (March 13, 2012 APWA GSP)
12 13 14	Revise the first paragraph to read:
15 16 17 18 19 20	The Contractor shall submit a preliminary Type B Progress Schedule <u>at or prior to</u> <u>the preconstruction conference</u> . The preliminary Type B Progress Schedule shall comply with all of these requirements and the requirements of Section 1-08.3(1), except that it may be limited to only those activities occurring within the first 60- working days of the project.
20 21 22	Revise the first sentence of the second paragraph to read:
23 24 25	The Contractor shall submit <u>10</u> copies of a Type B Progress Schedule depicting the entire project no later than 21-calendar days after the <u>preconstruction conference</u> .
26 27 28	1-08.4 Prosecution of Work Delete this Section and replace it with the following:
29 30 31	1-08.4 Notice to Proceed and Prosecution of Work (July 23, 2015 APWA GSP)
32 33 34 35 36 37 38 39 40 41	Notice to Proceed will be given after the Contract has been executed and the Contract bond and evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall not commence with the Work until the Notice to Proceed has been given by the Engineer. The Contractor shall commence construction activities on the project site within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the Work to the Physical Completion Date within the time specified in the Contract. Voluntary shutdown or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to complete the Work within the time(s) specified in the Contract.
42 43 44 45 46 47 48	When shown in the Plans, the first order of Work shall be the installation of high visibility fencing to delineate all areas for protection or restoration, as described in the Contract. Installation of high visibility fencing adjacent to the Roadway shall occur after the placement of all necessary signs and traffic control devices in accordance with Section 1-10.1(2). Upon construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No other Work shall be performed on the site until the Contracting Agency has accepted the installation of high visibility fencing, as described in the Contract.

- 49
- 50 Section 1-08.4 is supplemented with the following:
- 51

52 ORDER OF WORK

1 2 3 4 5 6	The Contractor shall complete all paving, curb ramp and signal Work on 68th Avenue W by September 13, 2019. The Contractor shall complete all paving and curb ramp on all sites by September 30, 2019. The Contractor shall remain responsible for the details of performing the Work, and the limits of each portion of the Work.
7	The general order of Work is as follows:
8 9 10	Installation of TESC measuresInstallation of construction signing
11 12	Prior to planing bituminous pavement and overlay Work, the following elements of Work shall be completed:
13 14 15 16	 Removal and installation of pedestrian signal systems Lowering of existing utility surface Structures (i.e., manhole lids, catch basin lids, monument covers, gas valve covers, water valve covers, etc.)
17 18 19	All pavement repair Work, with the exception of the final paving, shall be completed <u>prior</u> to the final lift of HMA.
20 21	Following the completion of the final lift of HMA, the following elements of Work shall be completed:
22 23 24	 Raising of existing utility surface Structures (i.e., manhole lids, catch basin lids, monument covers, gas valve covers, water valve covers, etc.)
25 26 27	The following areas of Work may be completed at any time:Installation of signs
28 29 30 31	1-08.5 Time for Completion (<i>March 13, 1995 WSDOT GSP</i>) Section 1-08.5 is supplemented with the following:
32 33	This project shall be physically completed within *** 60 *** working days.
34 35 36	(November 30, 2018 APWA GSP, Option B) Revise the third and fourth paragraphs to read:
37 38 39 40	Contract time shall begin on the first working day following the <u>tenth</u> calendar day after <u>the Notice to Proceed date.</u> If the Contractor starts work on the project at an earlier date, then contract time shall begin on the first working day when onsite work begins.
41 42 43 44 45 46 47 48 49 50	Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the

1 2 3 4 5 6 7	basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day, then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.
8	Revise the sixth paragraph to read:
9 10 11 12 13	The Engineer will give the Contractor written notice of the completion date of the contract after all the Contractor's obligations under the contract have been performed by the Contractor. The following events must occur before the Completion Date can be established:
14	1. The physical work on the project must be complete; and
15 16 17 18	 The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
19	a. Certified Payrolls (per Section 1-07.9(5)).
20	b. Material Acceptance Certification Documents
21 22	 Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
23	d. Final Contract Voucher Certification
24 25	 Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
26 27	f. A copy of the Notice of Termination sent to the Washington State Department of Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
28	Notice of Termination by Ecology; and no rejection of the Notice of Termination by
29	Ecology. This requirement will not apply if the Construction Stormwater General
30 31	Permit is transferred back to the Contracting Agency in accordance with Section 8-01.3(16).
32	g. Property owner releases per Section 1-07.24
33	
34	Section 1-08.5 is supplemented with the following:

35 36 37

City of Lynnwood Recognized Holidays

Holiday	Date Observed
New Year's Day	First day of January
Martin Luther King Day	Third Monday in January
President's Day	Third Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	First Monday in September
Veteran's Day	November 11th
Thanksgiving Day	Fourth Thursday in
	November
Day After Thanksgiving	When observed
Christmas Day	December 25th

1 2 3 4	<u>Holiday Falls on Saturday or Sunday</u> : If any holiday mentioned above falls on a Saturday, the preceding Friday shall be given as a holiday. If the holiday falls on a Sunday, the following Monday shall be given as a holiday.
4	
5	1-08.6 Suspension of Work
6	Section 1-08.6 is supplemented with the following:
7	
8	(January 2, 2018 WSDOT GSP)
9	Contract time may be suspended for procurement of critical materials (Procurement
10	Suspension). In order to receive a Procurement Suspension, the Contractor shall within
11	21 calendar days after execution by the Contracting Agency, place purchase orders for all
12	materials deemed critical by the Contracting Agency for Physical Completion of the
13	Contract. The Contractor shall provide copies of purchase orders for the critical materials.
14	Such purchase orders shall disclose the purchase order date and estimated delivery dates
15	for such critical material.
16	
17	The Contractor shall show procurement of the materials listed below as activities in the
18	Progress Schedule. If the approved Progress Schedule indicates that the materials
19	procurement are critical activities, and if the Contractor has provided documentation that
20	purchase orders are placed for the critical materials within the prescribed 21 calendar
21	days, then Contract time will be suspended upon Physical Completion of all critical Work
22	except that Work dependent upon the below listed critical materials:
23	
24	*** Permanent Signing
25	Traffic Signal System Modifications (188th St SW and 52nd Ave W)
26	Traffic Signal System Modifications (68th Ave W and 200th St SW)
27	***
28	
29	Charging of Contract time will resume upon delivery of the critical materials to the
30	Contractor or 120 calendar days after execution by the Contracting Agency, whichever
31	occurs first.
32	
33	1-08.9 Liquidated Damages
34	(August 14, 2013 APWA GSP)
35	Revise the fourth paragraph to read:
36	
37	When the Contract Work has progressed to Substantial Completion as defined in the
38	Contract, the Engineer may determine that the Work is Substantially Complete. The
39	Engineer will notify the Contractor in writing of the Substantial Completion Date. For
40	overruns in Contract time occurring after the date so established, the formula for liquidated
41	damages shown above will not apply. For overruns in Contract time occurring after the

3 3 3 3 4(41 damages shown above will not apply. For overruns in Contract time occurring after the 42 Substantial Completion Date, liquidated damages shall be assessed on the basis of direct 43 engineering and related costs assignable to the project until the actual Physical 44 Completion Date of all the Contract Work. The Contractor shall complete the remaining 45 Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall 46 furnish a written schedule for completing the physical Work on the Contract.

47 48

49 1-09 **Measurement and Payment**

50

51 1-09.2(1) General Requirements for Weighing Equipment

52 (July 23, 2015 APWA GSP, Option 2)

3

4

5

6

7

- Revise item 4 of the fifth paragraph to read:
 - 4. Test results and scale weight records for each day's hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027, Scaleman's Daily Report, <u>unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form</u>. The scale operator must provide <u>AM and/or PM tare weights for each truck on the printed ticket</u>.

8 **1-09.2(5)** Measurement

- 9 (May 2, 2017 APWA GSP)
- 10 Revise the first paragraph to read:
- 11 12

13

14

15

Scale Verification Checks – <u>At the Engineer's discretion, the Engineer may perform</u> <u>verification checks on</u> the accuracy of each batch, hopper, or platform scale used in weighing Contract items of Work.

- 16 **1-09.6** Force Account
- 17 (October 10, 2008 APWA GSP)

18 Supplement this Section with the following:

19

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common Proposal for Bidders. All such dollar amounts are to become a part of Contractor's total Bid. However, the Contracting Agency does not warrant expressly or by implication that the actual amount of Work will correspond with those estimates. Payment will be made on the basis of the amount of Work actually authorized by Engineer.

26 27

1-09.9 Payments

28 (March 13, 2012 APWA GSP)

29 Delete the first four paragraphs and replace them with the following:

30 31

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

32 33

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

41

Progress payments for completed Work and material on hand will be based upon progress
estimates prepared by the Engineer. A progress estimate cutoff date will be established
at the Preconstruction Conference.

45

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

1	The value of the progress estimate will be the sum of the following:
2	1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units
2	
3	of Work completed multiplied by the unit price.
4	2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump
5	sum breakdown for that item, or absent such a breakdown, based on the
6	Engineer's determination.
7	3. Materials on Hand — 100 percent of invoiced cost of material delivered to job site
8	or other storage area approved by the Engineer.
9	4. Change Orders — entitlement for approved extra cost or completed extra Work as
10	determined by the Engineer.
	determined by the Engineer.
11	
12	Progress payments will be made in accordance with the progress estimate less:
13	 Retainage per Section 1-09.9(1), on non FHWA-funded projects;
14	2. The amount of progress payments previously made; and
15	3. Funds withheld by the Contracting Agency for disbursement in accordance with
16	the Contract Documents.
17	
18	Progress payments for Work performed shall not be evidence of acceptable performance
19	or an admission by the Contracting Agency that any Work has been satisfactorily
20	
	completed. The determination of payments under the Contract will be final in accordance
21	with Section 1-05.1.
22	
23	1-09.11 Disputes and Claims
24	
24 25	1-09 11(3) Time Limitation and Jurisdiction
25	1-09.11(3) Time Limitation and Jurisdiction
25 26	(November 30, 2018 APWA GSP)
25	
25 26	(November 30, 2018 APWA GSP)
25 26 27 28	(November 30, 2018 APWA GSP) Revise this section to read:
25 26 27 28 29	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties
25 26 27 28 29 30	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting
25 26 27 28 29 30 31	 (November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the
25 26 27 28 29 30 31 32	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting
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25 26 27 28 29 30 31 32 33 34	 (November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is
25 26 27 28 29 30 31 32 33 34 35	 (November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050
25 26 27 28 29 30 31 32 33 34 35 36	 (November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the
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25 26 27 28 29 30 31 32 33 34 35 36	 (November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete
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25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to any records deemed necessary by the Contracting Agency to assist in
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely
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25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to any records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	(November 30, 2018 APWA GSP) Revise this section to read: For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.050 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to any records deemed necessary by the Contracting Agency to assist in

- 1-09.13(3) Claims \$250,000 or Less 47
- (October 1, 2005 APWA GSP) 48
- 49 Delete this Section and replace it with the following:
- 50

The Contractor and the Contracting Agency mutually agree that those claims that 51 total \$250,000 or less, submitted in accordance with Section 1-09.11 and not 52

$ \frac{1}{2} _{3} $		resolved by nonbinding ADR processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.
3 4 5 6 7		1-09.13(3)A Administration of Arbitration (November 30, 2018 APWA GSP) Revise the third paragraph to read:
8 9 10 11 12 13 14 15 16 17		The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of <u>the county in which the Contracting Agency's headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.</u>
18	1-10	Temporary Traffic Control
19 20	1-10.2	Traffic Control Management
20	1-10.2	Traine Control Management
22	1-	10.2(1) General
23	Se	ction 1-10.2(1) is supplemented with the following:
24		
25		(January 3, 2017 WSDOT GSP)
26		Only training with WSDOT TCS card and WSDOT training curriculum is recognized
27		in the State of Washington. The Traffic Control Supervisor shall be certified by one
28 29		of the following:
30		The Northwest Laborers-Employers Training Trust
31		27055 Ohio Ave.
32		Kingston, WA 98346
33		(360) 297-3035
34		
35		Evergreen Safety Council
36		12545 135 th Ave. NE
37		Kirkland, WA 98034-8709
38		1-800-521-0778
39		The Assessment Traffic Octobe October Assessment
40 41		The American Traffic Safety Services Association
41 42		15 Riverside Parkway, Suite 100 Fredericksburg, Virginia 22406-1022
43		Training Dept. Toll Free (877) 642-4637
44		Phone: (540) 368-1701
45		
46		1-10.2(1)A Traffic Control Management
47		Section 1-10.2(1)A is supplemented with the following:
48		
49		A Traffic Control Supervisor shall be onsite for the duration of all Work on this
50		project.
51		

1 2 3 4 5 6 7 8 9	When a Contractor assigned Traffic Control Manager or Supervisor becomes aware or is notified by the Engineer, through verbal or written communication, that an element of an approved Traffic Control Plan (TCP) is not properly installed, the Contractor shall correct any TCP discrepancies within 45 minutes of the notice. It is the responsibility of the Contractor to ensure that a Traffic Control Manager or Supervisor contact is available at all times during Work, or make known to the Engineer a delegated individual to contact should a TCP correction becomes necessary.
10	If the Contractor proceeds with Work that impacts vehicular traffic or pedestrian
11	access that is not covered by an approved TCP in accordance with Section 1-
12	10.2(2), the Contractor shall stop Work immediately and return the Work area
13 14	to a safe condition. Work shall not resume until a TCP is approved by the Engineer. All costs to provide temporary detours, repairs to the Work area and
15	their subsequent removals as a result of the stoppage shall be borne by the
16	Contractor.
17	
18	The Contractor shall take note of existing construction signage related to other
19 20	nearby projects to ensure that the intent/message of proposed TCP signage on
20 21	this project does not conflict with other existing signage/messaging.
22	The Contracting Agency also reserves the right to address safety hazards not
23	addressed by the Contractor within the time specified, without notice to the
24	Contractor or the Surety, and deduct actual costs of equipment and personnel
25	or the amount below, whichever is greater, from the Contract amount.
26 27	Contracting Agency provided Traffic Control - \$50 per hour for each of the
28	following traffic control elements used:
29	
30	1) Vehicles
31	2) Personnel
32 33	3) PCMS
34	Contracting Agency provided traffic control devices or signs - \$50 per day per
35	sign or traffic control device.
36	
37	1-10.2(2) Traffic Control Plans
38	Section 1-10.2(2) is supplemented with the following:
39 40	A Traffic Control Plan (TCP) shall be submitted for approval five (5) days in
40 41	advance of all Roadway Work. A TCP shall be submitted for each type of Work
42	listed below. A revised or additional TCP shall be submitted for approval 5 days
43	prior to each time an adjustment to a previously approved TCP becomes
44	necessary.
45 46	1) TCD (Construction Access) Any construction activity that requires the
46 47	 TCP (Construction Access) – Any construction activity that requires the Contractor to enter and exit the construction site using a public road. This Plan
48	shall address routes for hauling and delivery of project materials to and from
49	the project site, and designated entrances and exits for personnel or
50	construction vehicles for normal daily use. This Plan shall be submitted 10
51	days after Contract Award.
52	

1	2)	TCP (Temporary Traffic Lane/Shoulder Closures) – Any activity requiring
2		closures or adjustments to lanes or Shoulders; driveway or pedestrian access;
3 4		or entire Roadway.
5 6 7 8 9	3)	PTCP (Pedestrian Traffic Control) – Any Work that may impede or impact directly or indirectly any existing pedestrian route not related to 2) above. Attention is also directed to Section 1-07.23(3) of the Special Provisions for Pedestrian Control and Safety for PTCP requirements for pedestrian access routes.
10 11 12 13	4)	TCP (Work near state routes) – Any construction activity that may impact SR 524 (196th Street SW) or SR 99.
14	The Co	ontractor shall also submit for approval to the Engineer a Lane
15		e/Detour Notice on the Wednesday preceding the week of the planned Work
16		ng the implementation of a TCP. The notice shall include planned closures or
17	detour	s for the week period with the following information:
18 19	1)	Date of closure
20	,	Limits of closure
21	,	Type of Work
22		Start and end times of closure
23	,	Approved TCP number
24		Detour routes, as applicable
25	7)	Other pertinent information describing the closure
26 27	b add	ition to the previous requirements, the Contractor's TCP's shall adhere to the
28		ng requirements:
29		
30	•	PCMS boards shall be installed along 188th Street SW and 68th Avenue W,
31		and approaching side streets, as detailed in plans 48 hours prior to paving
32		work beginning on associated streets.
33		 Approaching side streets to have PCMS include:
34		 196th Street SW both east and west of 68th Avenue W 200th Street SW, east of 68th Avenue W
35 36		 200th Street SW, east of 68th Avenue W SR 99, both north and south of 188th Street SW
37		 52nd Avenue W, both north and south of 188th Street SW
38		 PCMS boards are NOT required for curb ramp, pedestrian signal, or
39		channelization work.
40		 PCMS Messages shall be as follows: "ROAD WORK X/X/XX.
41		EXPECT DELAYS".
42	•	Four flaggers may be used in lieu of a Uniformed Police Officer if one is not
43		available.
44		
45 46	(April 1, 2016 L	
40 47	The second par	agraph of section 1-10.2(2) is supplemented with the following:
48	When th	e Contractor chooses to modify, supplement or replace a traffic control plan
49		e Contract documents, the following information shall, as a minimum, be
50		on the Contractor's submittal, where applicable:
51		
52	• F	Project name and contract number

 Presence/absence of bicycle lanes and/or sidewalks Provisions for night work when it is proposed Provisions for night work when it is proposed 1-10.3 Traffic Control Labor, Procedures and Devices 1-10.3 (1) Traffic Control Labor 1-10.3(1) Traffic Control Labor 1-10.3(1) B Other Traffic Control Labor (June 1, 2018 Lynnwood GSP) Section 1-10.3(1)B is supplemented with the following: Uniformed Police Officer The Contractor shall arrange for off-duty uniformed police officers to be present for the following: 1. For all activities within 250 feet of signalized intersections where the operation of the signal will be adversely affected. 2. Countermanding a traffic signal indication at a signalized intersection. 3. Directing vehicle and pedestrian traffic when a traffic signal indication is turned off or is inoperative. 4. For all other conditions where the Engineer deems it necessary for safety, including work during hours of darkness. The Contractor shall use City of Lynnwood police enforcement at \$70.00 per hour for daytime work (until 6:00 PM) and \$75.00 per hour for night time work (after 6:00 PM) unless it is unable to respond to a request for assistance. Off-duty police officers must be paid a minimum of four (4) hours for any shift worked. Coordinate off-duty police assignments through the City of Lynnwood Off-duty Police Officer must be paid a minimum of four (4) hours for any shift worked. Coordinate off-duty police assignments through the City of Lynnwood Off-duty Police Officer smust be paid a minimum of four (4) hours for any shift worked. Coordinate off-duty police assignments through the City of Lynnwood toff control plan. The Contractor must obtain prior approval for use of uniformed police officers through their Approved Traffic Control Plan and approved amendments to the Plan. <!--</th--><th>1</th><th>Street names</th>	1	Street names
 Address of address range on street if no intersecting street(s) is included North arrow Direction of vehicle, bike, and pedestrian flow Taper, tangent, and buffer dimensions Location of work zone Sign size(s) MUTCD alpha numeric sign designation Sign color and retroreflectivity Orientation of sign faces to traffic flow Location(s) of flagger(s) and/or uniformed police officer(s) Relevant existing lane channelization and features like c-curbing, medians, and bulb-outs Presence/absence of bicycle lanes and/or sidewalks Provisions for night work when it is proposed 1-10.3 Traffic Control Labor, Procedures and Devices 1-10.3(1)B Other Traffic Control Labor (June 1, 2018 Lymwood GSP) Section 1-10.3(1)B is supplemented with the following: The Contractor shall arrange for off-duty uniformed police officers to be present for the following: For all activities within 250 feet of signalized intersections where the operation of the signal will be adversely affected. Countermanding a traffic signal indication at a signalized intersection. Directing vehicle and pedestrian traffic when a traffic signal indication is turned off or is inoperative. For all activities within 250 feet of signalized intersection. Directing vehicle and pedestrian traffic when a traffic signal indication is turned off or is inoperative. For all other conditions where the Engineer deems it necessary for safety, including work during hours of darkness. The Contractor shall use City of Lynnwood Off-duty Police Officer must be paid a minimum of four (4) hours for any shift worked. Coordinater at works (until 6:00 PM) and 375.00 per hour for right time work (after 6:00 PM) unless it is unable to respond to a request for assistance. Off-	2	 Posted speed limit(s)
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	50	

1	A Uniformed Police Officer shall be provided in the event of accidental power outages
2	or disruption of a signalized intersection as a result of Contractor's Work. The
3	Uniformed Police Officer shall be provided at Contractor's expense and remain in place
4	until the intersection becomes satisfactorily operational as determined by City of
5	Lynnwood Traffic Engineer or his/her representative.
5	Lynnwood franc Engineer of his/her representative.
6	
7	1-10.3(3) Traffic Control Devices
8	
9	1-10.3(3)A Construction Signs
10	Section 1-10.3(3)A is supplemented with the following:
11	
	Olean Distance many remain language them 2 days are visited they do not improve
12	Class B signs may remain longer than 3-days provided they do not impede
13	pedestrian routes (unless designed to), conflict with vehicular traffic
14	movements, or have a restricted view.
15	
16	1-10.4 Measurement
17	Section 1-10.4 is supplemented with the following:
18	
19	Section 1.04.6 shall not apply to tomporary traffic control Did itoms
	Section 1-04.6 shall not apply to temporary traffic control Bid items.
20	4.40.4(0) Item Dide With Lower Occur for Insidents Is
21	1-10.4(2) Item Bids With Lump Sum for Incidentals
22	(April 1, 2016 Lynnwood GSP)
23	
24	Section 1-10.4(2) is supplemented with the following:
25	
26	"Uniformed Police Officer" will be measured by the hour with a minimum of four hours
27	per shift. Hours will be measured for each Uniformed Police Officer directing or
28	monitoring traffic, as shown on an approved Traffic Control Plan, during specific traffic
29	detours at the locations shown in the Contract Plans, or as directed by the Engineer
30	and in accordance with Section 1-10.3(1)B of these Special provisions.
31	
32	1-10.4(3) Reinstating Unit Items With Lump Sum Traffic Control
33	Section 1-10.4(3) is supplemented with the following:
34	
35	(August 2, 2004 WSDOT GSP)
36	The Bid Proposal contains the item "Project Temporary Traffic Control," lump sum
37	
	and the additional temporary traffic control items listed below. The provisions of
38	Section 1-10.4(1), Section 1-10.4(3), and Section 1-10.5(3) shall apply.
39	
40	***
41	Traffic Control Supervisor, per lump sum
42	Flaggers, per hour
43	Portable Changeable Message Sign, per hour
44	Uniformed Police Officer, per hour ***
45	
46	1-10.5 Payment
47	Section 1-10.5(2) is supplemented with the following:
48	
49	1-10.5(2) Item Bids with Lump Sum for Incidentals
50	(April 1, 2016 Lynnwood GSP)
51	
52	Section 1-10.5(2) is supplemented with the following:
	··· ··· ··· ··· ··· ··· ··· ··· ··· ··
	City of Lympwood May 2010

"Uniformed Police Officer", per hour
 The unit contract price for "Uniformed Police Officer", when applied to the number of units
 measured for this item in accordance with Section 1-10.4(2), shall be full compensation for
 all costs incurred by the Contractor in performing the Contract Work defined in Section 1 10.3(1)B of these Special Provisions.
 END DIVISION 1

1 2 3		Division 2 Earthwork
4 5	2-02	Removal of Structures and Obstructions
6 7	2-02.3	Construction Requirements
8 9 10 11		02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters ction 2-02.3(3) is supplemented with the following:
12 13 14 15 16 17		All full-depth saw cuts shall be continuous, and shall be made with saws specifically equipped for the purpose. No skip cutting or jack hammering will be allowed unless specifically approved otherwise in writing by the Engineer. The location of all pavement cuts shall be where shown in the Plans or as approved by the Engineer in the field before cutting commences.
17 18 19		The approximate thickness of the asphalt concrete pavement is
20 21 22 23		*** 188 th St. SW - 4" - 5" 51 st PI. W – 3"-4" 68 th Ave. W – 3"-5 "***.
24 25 26 27		All saw cutting performed in the Contract shall provide for and include removal and disposal of slurry created from water cooling/lubrication, in accordance with the Washington State Department of Ecology regulations. Waste material (slurry) shall not be allowed to enter drainage systems, ditches, or streams.
28 29 30 31 32 33 34 35 36		Removal of Cement Concrete Curb, Gutter and Sidewalk The Contractor shall use a saw cut to delineate the curb, gutter and sidewalk to be removed from curb, gutter and sidewalk to remain. The Contractor shall take care to avoid damaging adjacent curb, gutter and sidewalk to remain. Any damage caused to the curb, gutter and sidewalk to remain, as a result of the Contractor's operations, shall be repaired to the satisfaction of the Engineer at no additional cost to the Contracting Agency.
30 37 38 39 40 41 42 43 44 45		Removal of Asphalt Concrete Pavement Sidewalk The approximate thickness of the pavement sidewalk is 2.0 inches to 6.0 inches. The Contractor shall use a saw cut to delineate the pavement sidewalk from adjacent curb, gutter and sidewalk to remain. The Contractor shall take care to avoid damaging adjacent curb, gutter and sidewalk to remain. Any damage caused to the curb, gutter and sidewalk to remain, as a result of the Contractor's operations, shall be repaired to the satisfaction of the Engineer at no additional cost to the Contracting Agency.
46 47 48 49 50 51 52		Pulverizing Existing Pavement The existing asphalt concrete pavement within the limits shown in the Plans shall be pulverized in place by an asphalt pulverizing machine capable of producing material 3 inches or less in size. Existing pavement shall be saw cut full-depth at locations shown in plans prior to pulverizing. Pavement cores indicate the approximate thickness of the asphalt concrete pavement is 3 to 6 inches (although greater depths may be encountered). See Appendix A for geotechnical findings. The

1 Contractor shall pulverize and blend the existing pavement with the existing upper 2 embankment materials for use as subgrade beneath proposed HMA per the section 3 shown in the Plans. The Contractor shall adjust the rate of progress of the machine 4 to accomplish the desired grading in the final product. Areas pulverized but not 5 meeting the gradation goals shall not be measured for payment. Existing materials 6 not reused shall be removed from the site and disposed of at the Contractor's 7 expense. 8

2-02.4 Measurement

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10 Section 2-02.4 is supplemented with the following:

12 Removing curb and gutter will be measured by the linear foot along the line and slope of 13 the existing curb and gutter prior to removal.

Concrete sidewalk removal will be measured by the square yard, exclusive of adjacent curbs and gutters and/or asphalt.

18 Removal of asphalt concrete pavement sidewalk will be measured by the square yard 19 prior to removal. 20

Saw cutting existing pavement will be measured by the linear foot along the surface being 22 cut, regardless of the depth of the material, or the material of the surface being cut. Section 23 1-04.6 shall not apply to saw cutting. 24

Section 1-04.6 shall not apply to temporary traffic control Bid items.

Pulverizing existing pavement will be measured by the square yard.

29 2-02.5 Payment

30 Section 2-02.5 is supplemented with the following:

- "Removing Cement Conc. Curb and Gutter", per linear foot.
- 33 The unit Contract price per linear foot for "Removing Cement Conc. Curb and Gutter" shall 34 be full compensation for performing the Work as specified, including saw cutting and 35 disposal. 36
- 37 "Removing Cement Conc. Sidewalk", per square yard.
- 38 The unit Contract price per linear foot for "Removing Cement Conc. Sidewalk" shall be full 39 compensation for performing the Work as specified, including saw cutting and disposal. 40
- 41 "Removing Asphalt Conc. Pavement Sidewalk", per square yard.
- 42 The unit Contract price per square yard for "Removing Asphalt Conc. Pavement Sidewalk"
- 43 shall be full pay for performing the Work as specified, including sawcutting and disposal. 44
- 45 "Saw Cutting Existing Pavement", per linear foot.
- The unit Contract price per linear foot for "Saw Cutting Existing Pavement" shall be full 46 47 pay for all costs necessary to complete the Work as specified regardless of the depth 48 encountered or the material to be cut, including collection, removal, and disposal of slurry.
- 50 "Pulverizing Existing Pavement", per square yard.
- 51 The unit Contract price per square yard for "Pulverizing Existing Pavement" shall be full 52 pay for the Work as specified including sawcutting.
- 53

49

END DIVISION 2

1 2 3	Division 5 Surface Treatments and Pavements
4	5-04 Hot Mix Asphalt
5	(July 18, 2018 APWA GSP)
6 7	Delete Section 5-04 and amendments, Hot Mix Asphalt and replace it with the following:
8	5-04.1 Description
9	This Work shall consist of providing and placing one or more layers of plant-mixed hot
10	mix asphalt (HMA) on a prepared foundation or base in accordance with these
11	Specifications and the lines, grades, thicknesses, and typical cross-sections shown
12	in the Plans. The manufacture of HMA may include warm mix asphalt (WMA) processes
13	in accordance with these Specifications. WMA processes include organic additives,
14	chemical additives, and foaming.
15	
16	HMA shall be composed of asphalt binder and mineral materials as may be required,
17 18	mixed in the proportions specified to provide a homogeneous, stable, and workable mixture.
18 19	
20	5-04.2 Materials
20	Materials shall meet the requirements of the following sections:
22	Asphalt Binder 9-02.1(4)
23	Cationic Emulsified Asphalt 9-02.1(6)
24	Anti-Stripping Additive 9-02.4
25	HMA Additive 9-02.5
26	Aggregates 9-03.8
27	Recycled Asphalt Pavement 9-03.8(3)B
28	Mineral Filler 9-03.8(5)
29	Recycled Material 9-03.21
30	Portland Cement 9-01
31	Sand $9-03.1(2)$
32 33	(As noted in 5-04.3(5)C for crack sealing) Joint Sealant 9-04.2
33	Foam Backer Rod 9-04.2(3)A
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36	The Contract documents may establish that the various mineral materials required for the
37	manufacture of HMA will be furnished in whole or in part by the Contracting Agency. If the
38	documents do not establish the furnishing of any of these mineral materials by the
39	Contracting Agency, the Contractor shall be required to furnish such materials in the
40	amounts required for the designated mix. Mineral materials include coarse and fine
41	aggregates, and mineral filler.
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43	The Contractor may choose to utilize recycled asphalt pavement (RAP) in the production
44	of HMA. The RAP may be from pavements removed under the Contract, if any, or
45	pavement material from an existing stockpile.
46 47	The Contractor may use up to 20 percent RAR by total weight of HMA with no additional
47 48	The Contractor may use up to 20 percent RAP by total weight of HMA with no additional sampling or testing of the RAP. The RAP shall be sampled and tested at a frequency of
40 49	one sample for every 1,000 tons produced and not less than ten samples per project. The
50	asphalt content and gradation test data shall be reported to the Contracting Agency when
51	submitting the mix design for approval on the QPL. The Contractor shall include the RAP
52	as part of the mix design as defined in these Specifications.

- The grade of asphalt binder shall be as required by the Contract. Blending of asphalt
 binder from different sources is not permitted.
 - The Contractor may only use warm mix asphalt (WMA) processes in the production of HMA with 20 percent or less RAP by total weight of HMA. The Contractor shall submit to the Engineer for approval the process that is proposed and how it will be used in the manufacture of HMA.

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

5-04.2(1) How to Get an 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(1)A Vacant

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

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

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 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.

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

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

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

- 52 Mix designs for HMA accepted by Nonstatistical evaluation shall;

• Have the aggregate structure and asphalt binder content determined in accordance with WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-03.8(2), except that Hamburg testing for ruts and stripping are at the discretion of the Engineer, and 9-03.8(6).

 Have anti-strip requirements, if any, for the proposed mix design determined in accordance with AASHTO T 283 or T 324, or based on historic anti-strip and aggregate source compatibility from previous WSDOT lab testing.

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

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

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

5-04.2(2)B Using Warm Mix Asphalt Processes

The Contractor may elect to use additives that reduce the optimum mixing temperature or serve as a compaction aid for producing HMA. Additives include organic additives, chemical additives and foaming processes. The use of Additives is subject to the following:

- Do not use additives that reduce the mixing temperature more than allowed in Section 5-04.3(6) in the production of mixtures.
- Before using additives, obtain the Engineer's approval using WSDOT Form 350-076 to describe the proposed additive and process.

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

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

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

Minimum Curfage Temperature for Devine

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	

5-04.3(2) Paving Under Traffic

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

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

- Before closing an intersection, advance warning signs shall be placed and signs shall
 also be placed marking the detour or alternate route.
 - During paving operations, temporary pavement markings shall be maintained throughout the project. Temporary pavement markings shall be installed on the Roadway prior to opening to traffic. Temporary pavement markings shall be in accordance with Section 8-23.
 - All costs in connection with performing the Work in accordance with these requirements, except the cost of temporary pavement markings, shall be included in the unit Contract prices for the various Bid items involved in the Contract.

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant

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

- Equipment for Preparation of Asphalt Binder Tanks for the storage of asphalt binder shall be equipped to heat and hold the material at the required temperatures. The heating shall be accomplished by steam coils, electricity, or other approved means so that no flame shall be in contact with the storage tank. The circulating system for the asphalt binder shall be designed to ensure proper and continuous circulation during the operating period. A valve for the purpose of sampling the asphalt binder shall be placed in either the storage tank or in the supply line to the mixer.
- 2. Thermometric Equipment An armored thermometer, capable of detecting temperature ranges expected in the HMA mix, shall be fixed in the asphalt binder feed line at a location near the charging valve at the mixer unit. The thermometer location shall be convenient and safe for access by Inspectors. The plant shall also be equipped with an approved dial-scale thermometer, a mercury actuated thermometer, an electric pyrometer, or another approved thermometric instrument placed at the discharge chute of the drier to automatically register or indicate the temperature of the heated aggregates. This device shall be in full view of the plant operator.
- 463. Heating of Asphalt Binder The temperature of the asphalt binder shall not47exceed the maximum recommended by the asphalt binder manufacturer nor shall48it be below the minimum temperature required to maintain the asphalt binder in a49homogeneous state. The asphalt binder shall be heated in a manner that will50avoid local variations in heating. The heating method shall provide a continuous51supply of asphalt binder to the mixer at a uniform average temperature with no52individual variations exceeding 25°F. Also, when a WMA additive is included in

- 1 the asphalt binder, the temperature of the asphalt binder shall not exceed the 2 maximum recommended by the manufacturer of the WMA additive. 3 4. Sampling and Testing of Mineral Materials – The HMA plant shall be equipped 4 with a mechanical sampler for the sampling of the mineral materials. The 5 mechanical sampler shall meet the requirements of Section 1-05.6 for the 6 crushing and screening operation. The Contractor shall provide for the setup and 7 operation of the field testing facilities of the Contracting Agency as provided for in 8 Section 3-01.2(2). 9 5. Sampling HMA – The HMA plant shall provide for sampling HMA by one of the 10 following methods: 11 a. A mechanical sampling device attached to the HMA plant. 12 b. Platforms or devices to enable sampling from the hauling vehicle without 13 entering the hauling vehicle. 14 15 5-04.3(3)B Hauling Equipment 16 Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall have a 17 cover of canvas or other suitable material of sufficient size to protect the mixture from 18 adverse weather. Whenever the weather conditions during the work shift include, or are 19 forecast to include, precipitation or an air temperature less than 45°F or when time from 20 loading to unloading exceeds 30 minutes, the cover shall be securely attached to protect the HMA.
- 21 22

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

30 **5-04.3(3)**C Pavers

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

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

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

- When specified in the Contract, reference lines for vertical control will be required. Lines shall be placed on both outer edges of the Traveled Way of each Roadway. Horizontal control utilizing the reference line will be permitted. The grade and slope for intermediate lanes shall be controlled automatically from reference lines or by means of a mat referencing device and a slope control device. When the finish of the grade prepared for
- 53 paving is superior to the established tolerances and when, in the opinion of the Engineer,

1 further improvement to the line, grade, cross-section, and smoothness can best be 2 achieved without the use of the reference line, a mat referencing device may be 3 substituted for the reference line. Substitution of the device will be subject to the 4 continued approval of the Engineer. A joint matcher may be used subject to the approval 5 of the Engineer. The reference line may be removed after the completion of the first course of HMA when approved by the Engineer. Whenever the Engineer determines that 6 7 any of these methods are failing to provide the necessary vertical control, the reference 8 lines will be reinstalled by the Contractor. 9 10 The Contractor shall furnish and install all pins, brackets, tensioning devices, wire, and 11 accessories necessary for satisfactory operation of the automatic control equipment. 12 13 If the paving machine in use is not providing the required finish, the Engineer may 14 suspend Work as allowed by Section 1-08.6. Any cleaning or solvent type liquids spilled 15 on the pavement shall be thoroughly removed before paving proceeds. 16 17 5-04.3(3)D Material Transfer Device or Material Transfer Vehicle 18 A Material Transfer Device/Vehicle (MTD/V) shall only be used with the Engineer's 19 approval, unless other-wise required by the contract. 20 21 Where an MTD/V is required by the contract, the Engineer may approve paving without 22 an MTD/V, at the request of the Contractor. The Engineer will determine if an equitable 23 adjustment in cost or time is due. 24 25 When used, the MTD/V shall mix the HMA after delivery by the hauling equipment and 26 prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a 27 uniform temperature throughout the mixture. If a windrow elevator is used, the length of 28 the windrow may be limited in urban areas or through intersections, at the discretion of 29 the Engineer. 30 31 To be approved for use, an MTV: 32 33 1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver. 34 2. Shall not be connected to the hauling vehicle or paver. 35 3. May accept HMA directly from the haul vehicle or pick up HMA from a windrow. 36 4. Shall mix the HMA after delivery by the hauling equipment and prior to 37 placement into the paving machine. 38 5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the 39 mixture. 40 41 To be approved for use, an MTD: 42 43 1. Shall be positively connected to the paver. 44 2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow. 45 3. Shall mix the HMA after delivery by the hauling equipment and prior to 46 placement into the paving machine. 47 4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the 48 mixture. 49 50 5-04.3(3)E Rollers 51 Rollers shall be of the steel wheel, vibratory, oscilatory, or pneumatic tire type, in good 52 condition and capable of reversing without backlash. Operation of the roller shall be in 53 accordance with the manufacturer's recommendations. When ordered by the Engineer

for any roller planned for use on the project, the Contractor shall provide a copy of the manufacturer's recommendation for the use of that roller for compaction of HMA. The number and weight of rollers shall be sufficient to compact the mixture in compliance with the requirements of Section 5-04.3(10). The use of equipment that results in crushing of the aggregate will not be permitted. Rollers producing pickup, washboard, uneven compaction of the surface, displacement of the mixture or other undesirable results shall not be used.

5-04.3(4) Preparation of Existing Paved Surfaces

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

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

18 Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may 19 require the use of small steel wheel rollers, plate compactors, or pneumatic rollers to 20 avoid bridging across preleveled areas by the compaction equipment. Equipment used 21 for the compaction of preleveling HMA shall be approved by the Engineer. 22

23 Before construction of HMA on an existing paved surface, the entire surface of the 24 pavement shall be clean. All fatty asphalt patches, grease drippings, and other 25 objectionable matter shall be entirely removed from the existing pavement. All pavements 26 or bituminous surfaces shall be thoroughly cleaned of dust, soil, pavement grindings, and 27 other foreign matter. All holes and small depressions shall be filled with an appropriate 28 class of HMA. The surface of the patched area shall be leveled and compacted 29 thoroughly. Prior to the application of tack coat, or paving, the condition of the surface 30 shall be approved by the Engineer. 31

32 A tack coat of asphalt shall be applied to all paved surfaces on which any course of HMA 33 is to be placed or abutted; except that tack coat may be omitted from clean, newly paved 34 surfaces at the discretion of the Engineer. Tack coat shall be uniformly applied to cover 35 the existing pavement with a thin film of residual asphalt free of streaks and bare spots at 36 a rate between 0.02 and 0.10 gallons per square yard of retained asphalt. The rate of 37 application shall be approved by the Engineer. A heavy application of tack coat shall be 38 applied to all joints. For Roadways open to traffic, the application of tack coat shall be 39 limited to surfaces that will be paved during the same working shift. The spreading 40 equipment shall be equipped with a thermometer to indicate the temperature of the tack 41 coat material.

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

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

5-04.3(4)A Crack Sealing

5-04.3(4)A1 General

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When the Proposal includes a pay item for crack sealing, seal all cracks 1/4 inch in width and greater.

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

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

20 The sand slurry shall consist of approximately 20 percent CSS-1 emulsified asphalt, 21 approximately 2 percent portland cement, water (if required), and the remainder clean 22 Class 1 or 2 fine aggregate per section 9-03.1(2). The components shall be thoroughly 23 mixed and then poured into the cracks and joints until full. The following day, any cracks 24 or joints that are not completely filled shall be topped off with additional sand slurry. After 25 the sand slurry is placed, the filler shall be struck off flush with the existing pavement 26 surface and allowed to cure. The HMA overlay shall not be placed until the slurry has fully 27 cured. The requirements of Section 1-06 will not apply to the portland cement and sand 28 used in the sand slurry. 29

- In areas where HMA will be placed, use sand slurry to fill the cracks.
 - In areas where HMA will not be placed, fill the cracks as follows:
 - 1. Cracks ¹/₄ inch to 1 inch in width fill with hot poured sealant.
 - 2. Cracks greater than 1 inch in width fill with sand slurry.
- 37 Hot Poured Sealant: For cracks that are to be filled with hot poured sealant, apply the 38 material in accordance with these requirements and the manufacturer's 39 recommendations. Furnish a Type 1 Working Drawing of the manufacturer's product 40 information and recommendations to the Engineer prior to the start of work, including the 41 manufacturer's recommended heating time and temperatures, allowable storage time and 42 temperatures after initial heating, allowable reheating criteria, and application 43 temperature range. Confine hot poured sealant material within the crack. Clean any 44 overflow of sealant from the pavement surface. If, in the opinion of the Engineer, the 45 Contractor's method of sealing the cracks with hot poured sealant results in an excessive 46 amount of material on the pavement surface, stop and correct the operation to eliminate 47 the excess material.
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49 **5-04.3(4)A2** Crack Sealing Areas Prior to Paving

50 In areas where HMA will be placed, use sand slurry to fill the cracks. 51

52 **5-04.3(4)A3** Crack Sealing Areas Not to be Paved

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

- A. Cracks 1/4 inch to 1 inch in width fill with hot poured sealant.
- B. Cracks greater than 1 inch in width fill with sand slurry.

5-04.3(4)B Vacant

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5-04.3(4)C Pavement Repair

7 The Contractor shall excavate pavement repair areas and shall backfill these with HMA in 8 accordance with the details shown in the Plans and as marked in the field. The 9 Contractor shall conduct the excavation operations in a manner that will protect the 10 pavement that is to remain. Pavement not designated to be removed that is damaged as 11 a result of the Contractor's operations shall be repaired by the Contractor to the 12 satisfaction of the Engineer at no cost to the Contracting Agency. The Contractor shall 13 excavate only within one lane at a time unless approved otherwise by the Engineer. The 14 Contractor shall not excavate more area than can be completely finished during the same 15 shift, unless approved by the Engineer. 16

- Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth
 of 1.0 feet. The Engineer will make the final determination of the excavation depth
 required. The minimum width of any pavement repair area shall be 40 inches unless
 shown otherwise in the Plans. Before any excavation, the existing pavement shall be
 sawcut or shall be removed by a pavement grinder. Excavated materials will become the
 property of the Contractor and shall be disposed of in a Contractor-provided site off the
 Right of Way or used in accordance with Sections 2-02.3(3) or 9-03.21.
- Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy
 application of tack coat shall be applied to all surfaces of existing pavement in the
 pavement repair area.

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

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35 APWA GSP 5-04.3(4)C shall be supplemented with the following:

- Pavement repair areas, including full depth pavement removal and repair areas, shall be reviewed in the field by the Engineer, <u>prior to beginning Work</u>. Contractor may request a walk-through of areas prior to beginning the Work.
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 41 Placement of the HMA backfill for the purposes of Pavement Repair is considered
 42 separate from the HMA overlay and shall be backfilled to the depth of the adjacent
 43 planed surface. HMA overlay shall be continuous over the pavement repair areas
 44 and measured as HMA Cl. 1/2 In. PG 58H-22.
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 46 Unless otherwise approved or directed by the Engineer, all pavement removed
 47 resulting from excavation activities in existing streets and roads shall be restored in
 48 accordance with the details in the Plans.
- 49 50 Pavement areas that have been removed by construction activities must be
- 51 restored to a paved surface by the Contractor at the end of each working period 52 prior to use by vehicular traffic. In addition, where pavement is removed adjacent to
- 53 driveways, when the driveway entrance is more than 1 inch above the roadway

grade during construction activities, the Contractor shall provide a temporary wedge
 constructed on a 20H:1V slope.

Temporary pavement restoration measures shall be a hard, non-gravel surface such as CDF, steel trench plating, sacrificial HMA, or cold mix asphalt per section 5-06 of these Special Provisions and may be used at Contractor expense. Unless allowed by the Engineer, temporary measures shall not be in place longer than five (5) calendar days. A temporary pavement restoration measure shall be defined as pavement restoration not in conformance with details in the Plans and shall be incidental to the cost of other items.

Extra Excavation

If suitable compaction of subgrade cannot be obtained in structural patch areas, at the approval of the Engineer, extra excavation and backfill with quarry spalls, geogrid, geotextile, perforated pipe (if necessary) and clean gravel (if necessary) per the detail in the Plans shall be installed. These items will be paid for as force account under Unexpected Site Changes and all the materials required to complete the work shall meet the Standard Specifications and these Special Provisions.

5-04.3(5) Producing/Stockpiling Aggregates and RAP

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

5-04.3(5)A Vacant

5-04.3(6) Mixing

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

35 When discharged, the temperature of the HMA shall not exceed the optimum mixing 36 temperature by more than 25°F as shown on the reference mix design report or as 37 approved by the Engineer. Also, when a WMA additive is included in the manufacture of 38 HMA, the discharge temperature of the HMA shall not exceed the maximum 39 recommended by the manufacturer of the WMA additive. A maximum water content of 2 40 percent in the mix, at discharge, will be allowed providing the water causes no problems 41 with handling, stripping, or flushing. If the water in the HMA causes any of these 42 problems, the moisture content shall be reduced as directed by the Engineer.

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44 Storing or holding of the HMA in approved storage facilities will be permitted with 45 approval of the Engineer, but in no event shall the HMA be held for more than 24 hours. 46 HMA held for more than 24 hours after mixing shall be rejected. Rejected HMA shall be 47 disposed of by the Contractor at no expense to the Contracting Agency. The storage 48 facility shall have an accessible device located at the top of the cone or about the third 49 point. The device shall indicate the amount of material in storage. No HMA shall be 50 accepted from the storage facility when the HMA in storage is below the top of the cone 51 of the storage facility, except as the storage facility is being emptied at the end of the 52 working shift.

1 Recycled asphalt pavement (RAP) utilized in the production of HMA shall be sized prior 2 to entering the mixer so that a uniform and thoroughly mixed HMA is produced. If there is 3 evidence of the recycled asphalt pavement not breaking down during the heating and 4 mixing of the HMA, the Contractor shall immediately suspend the use of the RAP until 5 changes have been approved by the Engineer. After the required amount of mineral 6 materials, RAP, new asphalt binder and asphalt rejuvenator have been introduced into 7 the mixer the HMA shall be mixed until complete and uniform coating of the particles and 8 thorough distribution of the asphalt binder throughout the mineral materials, and RAP is 9 ensured.

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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 ¾" and HMA Class ½"	
wearing course	0.30 feet
other courses	0.35 feet
HMA Class %"	0.15 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.

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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.

39 **5-04.3(9)** HMA Mixture Acceptance

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

- 42 Nonstatistical evaluation will be used for the acceptance of HMA unless Commercial
 43 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
- 48 applications of HMA accepted by commercial evaluation shall be as approved by the
- 49 Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the
- 50 option of the Engineer.
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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.

5 HMA Tolerances and Adjustments

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- 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	Non-Statistical	Commercial
Passing	Evaluation	Evaluation
1", 3/4", 1/2", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/-6%	+/- 8%
No. 8 Sieve	+/- 6%	+/-8%
No. 200 sieve	+/- 2.0%	+/- 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", ¾", and
 - a. **Aggregates** –2 percent for the aggregate passing the 1½", 1", ¾", ½", ¾", 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
- 35 36 **5-04.3(9)B Vacant**
- 37
 38 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.
- 42 **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
- 45 for each Job Mix Formula placed. Only one lot per JMF is expected. A sublot shall be

1 equal to one day's production or 800 tons, whichever is less except that the final sublot 2 will be a minimum of 400 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 5 evaluated collectively. If the Contractor requests a change to the JMF that is approved. 6 the material produced after the change will be evaluated on the basis of the new JMF for 7 the remaining sublots in the current lot and for acceptance of subsequent lots. For a lot in 8 progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after 9 the Engineer is 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 12 per sublot. 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 in accordance with AASH-TO T 168. A minimum of three samples should be taken 17 18 for each class of HMA placed on a project. If used in a structural application, at least one 19 of the three samples shall to be tested. 20 21 Sampling and testing HMA in a Structural application where quantities are less than 400 22 tons is at the dis-cretion of the Engineer. 23 24 For HMA used in a structural application and with a total project quantity less than 800 25 tons but more than 400 tons, a minimum of one acceptance test shall be performed. In all 26 cases, a minimum of 3 samples will be obtained at the point of acceptance, a minimum of 27 one of the three samples will be tested for conformance to the JMF: 28 29 If the test results are found to be within specification requirements, additional 30 testing will be at the Engineer's discretion. 31 If test results are found not to be within specification requirements, additional 32 testing of the remaining samples to determine a Composite Pay Factor (CPF) shall 33 be performed. 34 35 5-04.3(9)C3 Mixture Nonstatistical Evaluation – Acceptance Testing 36 Testing of HMA for compliance of Va will at the option of the Contracting Agency. If 37 tested, compliance of Va will use WSDOT SOP 731. 38 39 Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T 40 308. 41 42 Testing for compliance of gradation will be by FOP for WAQTC T 27/T 11. 43 44 5-04.3(9)C4 Mixture Nonstatistical Evaluation – Pay Factors 45 For each lot of material falling outside the tolerance limits in 5-04.3(9), the Contracting 46 Agency will determine a Composite Pay Factor (CPF) using the following price 47 adjustment factors: 48 49 50 51 52

Table of Price Adjustment Factors		
Constituent	Factor "f"	
All aggregate passing: 1½", 1", ¾", ½", ¾" 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	

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13 14 Each lot of HMA produced under Nonstatistical Evaluation and having all constituents falling within the toler-ance 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 appro-priate 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.

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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

25 The Contractor may request a sublot be retested. To request a retest, the Contractor 26 shall submit a written request within 7 calendar days after the specific test results have 27 been received. A split of the original acceptance sample will be retested. The split of the 28 sample will not be tested with the same tester that ran the original acceptance test. The 29 sample will be tested for a complete gradation analysis, asphalt binder content, and, at 30 the option of the agency. Va. The results of the retest will be used for the acceptance of 31 the HMA in place of the original sublot sample test results. The cost of testing will be 32 deducted from any monies due or that may come due the Contractor under the Contract 33 at the rate of \$500 per sample. 34

35 **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.

41 The commercial tolerance limits will be used in the calculation of the CPF and the

1 maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the 2 existing sublots or samples from the street shall be tested to provide a minimum of three 3 sets of results for evaluation.

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For each lot of HMA mix produced and tested under Commercial 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 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).

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15 **5-04.3(10) HMA Compaction Acceptance**

16 HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including 17 lanes for intersections, ramps, truck climbing, weaving, and speed change, and having a 18 specified compacted course thickness greater than 0.10-foot, shall be compacted to a 19 specified level of relative density. The specified level of relative density shall be a 20 Composite Pay Factor (CPF) of not less than 0.75 when evaluated in accordance with 21 Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of the maximum density). 22 The maximum density shall be determined by WSDOT FOP for AASHTO T 729. The 23 specified level of density attained will be determined by the evaluation of the density of 24 the pavement. The density of the pavement shall be determined in accordance with 25 WSDOT FOP for WAQTC TM 8, except that gauge correlation will be at the discretion of 26 the Engineer, when using the nuclear density gauge and WSDOT SOP 736 when using 27 cores to determine density.

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

If the Contracting Agency uses a nuclear density gauge to determine density the test procedures FOP for WAQTC TM 8 and WSDOT SOP T 729 will be used on the day the mix is placed and prior to opening to traffic.

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

41

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

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

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51 HMA mixture accepted by commercial evaluation and HMA constructed under conditions 52 other than those listed above shall be compacted on the basis of a test point evaluation

53 of the compaction train. The test point evaluation shall be performed in accordance with

instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

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

Test Results

10 For a sublot that has been tested with a nuclear density gauge that did not meet the 11 minimum of 92 percent of the reference maximum density in a compaction lot with a CPF 12 below 1.00 and thus subject to a price reduction or rejection, the Contractor may request 13 that a core be used for determination of the relative density of the sublot. The relative 14 density of the core will replace the relative density determined by the nuclear density 15 gauge for the sublot and will be used for calculation of the CPF and acceptance of HMA 16 compaction lot.

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18 When cores are taken by the Contracting Agency at the request of the Contractor, they 19 shall be requested by noon of the next workday after the test results for the sublot have 20 been provided or made available to the Contractor. Core locations shall be outside of 21 wheel paths and as determined by the Engineer. Traffic control shall be provided by the 22 Contractor as requested by the Engineer. Failure by the Contractor to provide the 23 requested traffic control will result in forfeiture of the request for cores. When the CPF for 24 the lot based on the results of the HMA cores is less than 1.00, the cost for the coring will 25 be deducted from any monies due or that may become due the Contractor under the 26 Contract at the rate of \$200 per core and the Contractor shall pay for the cost of the 27 traffic control.

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

29 30 Compaction shall take place when the mixture is in the proper condition so that no undue 31 displacement, cracking, or shoving occurs. Areas inaccessible to large compaction 32 equipment shall be compacted by other mechanical means. Any HMA that becomes 33 loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way 34 defective, shall be removed and replaced with new hot mix that shall be immediately 35 compacted to conform to the surrounding area.

36

37 The type of rollers to be used and their relative position in the compaction sequence shall 38 generally be the Contractor's option, provided the specified densities are attained. Unless 39 the Engineer has approved otherwise, rollers shall only be operated in the static mode 40 when the internal temperature of the mix is less than 175°F. Regardless of mix 41 temperature, a roller shall not be operated in a mode that results in checking or cracking 42 of the mat. Rollers shall only be operated in static mode on bridge decks.

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

45 Low cyclic density areas are defined as spots or streaks in the pavement that are less 46 than 90 percent of the theoretical maximum density. At the Engineer's discretion, the 47 Engineer may evaluate the HMA pavement for low cyclic density, and when doing so will 48 follow WSDOT SOP 733. A \$500 Cyclic Density Price Adjustment will be assessed for 49 any 500-foot section with two or more density readings below 90 percent of the 50 theoretical maximum density.

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52 5-04.3(10)C Vacant

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5-04.3(10)D HMA Nonstatistical Compaction

5-04.3(10)D1 HMA Nonstatistical Compaction – Lots and Sublots HMA compaction which is accepted by nonstatistical evaluation will be based on acceptance testing performed by the Contracting Agency dividing the project into compaction lots.

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 sublot shall be equal to one day's production or 400 tons, whichever is less except that the final sublot will be a minimum of 200 tons and may be increased to 800 tons. Testing for compaction will be at the rate of 5 tests per sublot per WSDOT T 738.

- The sublot locations within each density lot will be determined by the Engineer. For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request after the Engineer is satisfied that material conforming to the Specifications can be produced.
- HMA mixture accepted by commercial evaluation and HMA constructed under conditions
 other than those listed above shall be compacted on the basis of a test point evaluation
 of the compaction train. The test point evaluation shall be performed in accordance with
 instructions from the Engineer. The number of passes with an approved compaction train,
 required to attain the maximum test point density, shall be used on all subsequent
 paving.
 - HMA for preleveling shall be thoroughly compacted. HMA that is used to prelevel wheel ruts shall be compacted with a pneumatic tire roller unless otherwise approved by the Engineer.
- 5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation Acceptance Testing
 The location of the HMA compaction acceptance tests will be randomly selected by the
 - The location of the HMA compaction acceptance tests will be randomly selected by the Engineer from within each sublot, with one test per sublot.
 - 5-04.3(10)D3 HMA Nonstatistical Compaction Price Adjustments
- 36 For each compaction lot with one or two sublots, having all sublots attain a relative 37 density that is 92 percent of the reference maximum density the HMA shall be accepted 38 at the unit Contract price with no further evaluation. When a sublot does not attain a 39 relative density that is 92 percent of the reference maximum density, the lot shall be 40 evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The 41 maximum CPF shall be 1.00, however, lots with a calculated CPF in excess of 1.00 will 42 be used to offset lots with CPF values below 1.00 but greater than 0.90. Lots with CPF 43 lower than 0.90 will be evaluated for compliance per 5-04.3(11). Additional testing by 44 either a nuclear moisture-density gauge or cores will be completed as required to provide 45 a minimum of three tests for evaluation.
- 46

For compaction below the required 92% a Non-Conforming 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 CPF, the quantity of HMA in the compaction control lot in tons, and the unit
Contract price per ton of mix.

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5-04.3(11) Reject Work

5-04.3(11)A Reject Work General

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

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5-04.3(11)B Rejection by Contractor

The Contractor may, prior to sampling, elect to remove any defective material and 13 replace it with new material. Any such new material will be sampled, tested, and 14 evaluated for acceptance.

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

17 The Engineer may, without sampling, reject any batch, load, or section of Roadway that 18 appears defective. Material rejected before placement shall not be incorporated into the 19 pavement. Any rejected section of Roadway shall be removed.

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21 No payment will be made for the rejected materials or the removal of the materials unless 22 the Contractor requests that the rejected material be tested. If the Contractor elects to 23 have the rejected material tested, a minimum of three representative samples will be 24 obtained and tested. Acceptance of rejected material will be based on conformance with 25 the nonstatistical acceptance Specification. If the CPF for the rejected material is less 26 than 0.75, no payment will be made for the rejected material; in addition, the cost of 27 sampling and testing shall be borne by the Contractor. If the CPF is greater than or equal 28 to 0.75, the cost of sampling and testing will be borne by the Contracting Agency. If the 29 material is rejected before placement and the CPF is greater than or equal to 0.75, 30 compensation for the rejected material will be at a CPF of 0.75. If rejection occurs after 31 placement and the CPF is greater than or equal to 0.75, compensation for the rejected 32 material will be at the calculated CPF with an addition of 25 percent of the unit Contract 33 price added for the cost of removal and disposal. 34

5-04.3(11)D Rejection - A Partial Sublot

36 In addition to the random acceptance sampling and testing, the Engineer may also isolate 37 from a normal sublot any material that is suspected of being defective in relative density, 38 gradation or asphalt binder content. Such isolated material will not include an original 39 sample location. A minimum of three random samples of the suspect material will be 40 obtained and tested. The material will then be statistically evaluated as an independent 41 lot in accordance with Section 1-06.2(2). 42

43 5-04.3(11)E Rejection - An Entire Sublot

44 An entire sublot that is suspected of being defective may be rejected. When a sublot is 45 rejected a minimum of two additional random samples from this sublot will be obtained. 46 These additional samples and the original sublot will be evaluated as an independent lot 47 in accordance with Section 1-06.2(2).

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49 5-04.3(11)F Rejection - A Lot in Progress

50 The Contractor shall shut down operations and shall not resume HMA placement until 51 such time as the Engineer is satisfied that material conforming to the Specifications can

- 52 be produced:
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- 1. When the Composite Pay Factor (CPF) of a lot in progress drops below 1.00 and the 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

13 **5-04.3(12)A HMA Joints**

15 **5-04.3(12)A1** Transverse Joints

16 The Contractor shall conduct operations such that the placing of the top or wearing 17 course is a continuous operation or as close to continuous as possible. Unscheduled 18 transverse joints will be allowed and the roller may pass over the unprotected end of the 19 freshly laid mixture only when the placement of the course must be discontinued for such 20 a length of time that the mixture will cool below compaction temperature. When the Work 21 is resumed, the previously compacted mixture shall be cut back to produce a slightly 22 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

35 The longitudinal joint in any one course shall be offset from the course immediately below 36 by not more than 6 inches nor less than 2 inches. All longitudinal joints constructed in the 37 wearing course shall be located at a lane line or an edge line of the Traveled Way. A 38 notched wedge joint shall be constructed along all longitudinal joints in the wearing 39 surface of new HMA unless otherwise approved by the Engineer. The notched wedge 40 joint shall have a vertical edge of not less than the maximum aggregate size or more than 41 $\frac{1}{2}$ of the compacted lift thickness and then taper down on a slope not steeper than 42 4H:1V. The sloped portion of the HMA notched wedge joint shall be uniformly compacted.

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5-04.3(12)B Bridge Paving Joint Seals

46 **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.

1 Submit a Type 1 Working Drawing consisting of the sealant manufacturer's application 2 procedure. 3

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

5-04.3(12)B2 Paved Panel Joint Seal

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

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

5-04.3(13) Surface Smoothness

The completed surface of all courses shall be of uniform texture, smooth, uniform as to crown and grade, and free from defects of all kinds. The completed surface of the wearing course shall not vary more than 1/8 inch from the lower edge of a 10-foot straightedge placed on the surface parallel to the centerline. The transverse slope of the completed surface of the wearing course shall vary not more than 1/4 inch in 10 feet from 22 the rate of transverse slope shown in the Plans. 23

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

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

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

35 Deviations in excess of the above tolerances that result from a low place in the HMA and 36 deviations resulting from a high place where corrective action, in the opinion of the 37 Engineer, will not produce satisfactory results will be accepted with a price adjustment. 38 The Engineer shall deduct from monies due or that may become due to the Contractor 39 the sum of \$500.00 for each and every section of single traffic lane 100 feet in length in 40 which any excessive deviations described above are found. 41

42 When utility appurtenances such as manhole covers and valve boxes are located in the 43 traveled way, the utility appurtenances shall be adjusted to the finished grade prior to 44 paving. This requirement may be waived when requested by the Contractor, at the 45 discretion of the Engineer or when the adjustment details provided in the project plan or 46 specifications call for utility appurtenance adjustments after the completion of paving. 47

48 Utility appurtenance adjustment discussions will be included in the Pre-Paving planning 49 (5-04.3(14)B3). Submit a written request to waive this requirement to the Engineer prior 50 to the start of paving.

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1 2 3 4	5-04.3(14) Planing (Milling) Bituminous Pavement The planing plan must be approved by the Engineer and a pre planing meeting must be held prior to the start of any planing. See Section 5-04.3(14)B2 for information on planing submittals.
5 6 7	Locations of existing surfacing to be planed are as shown in the Drawings.
7 8 9 10 11 12	Where planing an existing pavement is specified in the Contract, the Contractor must remove existing surfacing material and to reshape the surface to remove irregularities. The finished product must be a prepared surface acceptable for receiving an HMA overlay.
12 13 14 15	Use the cold milling method for planing unless otherwise specified in the Contract. Do not use the planer on the final wearing course of new HMA.
16 17 18 19 20 21	Conduct planing operations in a manner that does not tear, break, burn, or otherwise damage the surface which is to remain. The finished planed surface must be slightly grooved or roughened and must be free from gouges, deep grooves, ridges, or other imperfections. The Contractor must repair any damage to the sur-face by the Contractor's planing equipment, using an Engineer approved method.
22 23 24	Repair or replace any metal castings and other surface improvements damaged by planing, as deter-mined by the Engineer.
25 26 27 28 29	A tapered wedge cut must be planed longitudinally along curb lines sufficient to provide a minimum of 4 inches of curb reveal after placement and compaction of the final wearing course. The dimensions of the wedge must be as shown on the Drawings or as specified by the Engineer.
30 31 32 33	A tapered wedge cut must also be made at transitions to adjoining pavement surfaces (meet lines) where butt joints are shown on the Drawings. Cut butt joints in a straight line with vertical faces 2 inches or more in height, producing a smooth transition to the existing adjoining pavement.
34 35 36 27	After planing is complete, planed surfaces must be swept, cleaned, and if required by the Contract, patched and preleveled.
37 38 39 40	The Engineer may direct additional depth planing. Before performing this additional depth planing, the Contractor must conduct a hidden metal in pavement detection survey as specified in Section 5-04.3(14)A.
41 42 43 44 45 46 47	(*****) APWA GSP Section 5-04.3(14) is supplemented with the following: The Contractor shall perform the planing operations no more than *** 7 *** calendar days ahead of the time the planed area is to be paved with HMA, unless otherwise allowed by the Engineer in writing.
48 49 50 51 52	5-04.3(14)A Pre-Planing Metal Detection Check Before starting planing of pavements, and before any additional depth planing required by the Engineer, the Contractor must conduct a physical survey of existing pavement to be planed with equipment that can iden-tify hidden metal objects.
53	Should such metal be identified, promotiv notify the Engineer

53 Should such metal be identified, promptly notify the Engineer.

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

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

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

5-04.3(14)B1 General

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

- 1. Intersections:
- a. Keep intersections open to traffic at all times, except when paving or planing operations through an intersection requires closure. Such closure must be kept to the minimum time required to place and compact the HMA mixture, or plane as appropriate. For paving, schedule such closure to individual lanes or portions thereof that allows the traffic volumes and schedule of traffic volumes required in the approved traffic control plan. Schedule work so that adjacent intersections are not impacted at the same time and comply with the traffic control restrictions required by the Traffic Engineer. Each individual intersection closure or partial closure, must be addressed in the traffic control plan, which must be submitted to and accepted by the Engineer, see Section 1-10.2(2).
 - b. When planing or paving and related construction must occur in an intersection, consider scheduling and sequencing such work into guarters of the intersection, or half or more of an intersection with side street detours. Be prepared to sequence the work to individual lanes or portions thereof.
 - c. Should closure of the intersection in its entirety be necessary, keep such closure to the minimum time required to place and compact the HMA mixture, plane, remove asphalt, tack coat, and as needed.
 - d. Any work in an intersection requires advance warning in both signage and a number of Working Days advance notice as determined by the Engineer, to alert traffic and emergency services of the intersection closure or partial closure.
 - e. Allow new compacted HMA asphalt to cool to ambient temperature before any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until approval has been obtained from the Engineer.
- 42 2. Temporary centerline marking, post-paving temporary marking, temporary stop 43 bars, and maintaining temporary pavement marking must comply with Section 44 8-23. 45
 - 3. Permanent pavement marking must comply with Section 8-22.

47 5-04.3(14)B2 Submittals – Planing Plan and HMA Paving Plan

48 The Contractor must submit a separate planing plan and a separate paving plan to the 49 Engineer at least 5 Working Days in advance of each operation's activity start date. 50

- These plans must show how the moving operation and traffic control are coordinated, as 51 they will be discussed at the pre-planing briefing and pre-paving briefing. When
- 52 requested by the Engineer, the Contractor must provide each operation's traffic control
- 53 plan on 24 x 36 inch or larger size Shop Drawings with a scale showing both the area of

operation and sufficient detail of traffic beyond the area of operation where detour traffic
 may be required. The scale on the Shop Drawings is 1 inch = 20 feet, which may be
 changed if the Engineer agrees sufficient detail is shown.

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

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

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

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- A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing each day's traffic control as it relates to the specific requirements of that day's planing and paving. Briefly describe the se-quencing of traffic control consistent with the proposed planing and paving sequence, and scheduling of placement of temporary pavement markings and channelizing devices after each day's planing, and paving.
 - 2. A copy of each intersection's traffic control plan.
 - 3. Haul routes from Supplier facilities, and locations of temporary parking and staging areas, including return routes. Describe the complete round trip as it relates to the sequencing of paving operations.
 - 4. Names and locations of HMA Supplier facilities to be used.
- 5. List of all equipment to be used for paving.
- List of personnel and associated job classification assigned to each piece of paving equipment.
- Description (geometric or narrative) of the scheduled sequence of planing and of paving, and intended area of planing and of paving for each day's work, must include the directions of proposed planing and of proposed paving, sequence of adjacent lane paving, sequence of skipped lane paving, intersection planing and paving scheduling and sequencing, and proposed notifications and coordinations to be timely made. The plan must show HMA joints relative to the final pavement marking lane lines.
 - 8. Names, job titles, and contact information for field, office, and plant supervisory personnel.
- 41 9. A copy of the approved Mix Designs.
 - 10. Tonnage of HMA to be placed each day.
 - 11. Approximate times and days for starting and ending daily operations.
 - 5-04.3(14)B3 Pre-Paving and Pre-Planing Briefing

At least 2 Working Days before the first paving operation and the first planing operation. 46 47 or as scheduled by the Engineer for future paving and planing operations to ensure the 48 Contractor has adequately prepared for notifying and coordinating as required in the 49 Contract, the Contractor must be prepared to discuss that day's operations as they relate 50 to other entities and to public safety and convenience, including driveway and business 51 access, garbage truck operations, Metro transit operations and working around energized 52 overhead wires, school and nursing home and hospital and other accesses, other 53 contractors who may be operating in the area, pedestrian and bicycle traffic, and

1 2 3	emergency services. The Contractor, and Subcontractors that may be part of that day's operations, must meet with the Engineer and discuss the proposed operation as it relates to the submitted planing plan and paving plan, approved traffic control plan, and public
4	convenience and safety. Such discussion includes, but is not limited to:
5	1 Constal for both Daving Dian and for Dianing Dian
6	1. General for both Paving Plan and for Planing Plan:
7 8	 a. The actual times of starting and ending daily operations. b. In intersections, how to break up the intersection, and address traffic control and
8 9	signalization for that operation, including use of peace officers.
10	c. The sequencing and scheduling of paving operations and of planing operations,
11	as applicable, as it relates to traffic control, to public convenience and safety,
12	and to other con-tractors who may operate in the Project Site.
13	d. Notifications required of Contractor activities, and coordinating with other
14	entities and the public as necessary.
15	e. Description of the sequencing of installation and types of temporary pavement
16	markings as it relates to planning and to paving.
17	f. Description of the sequencing of installation of, and the removal of, temporary
18	pavement patch material around exposed castings and as may be needed
19	g. Description of procedures and equipment to identify hidden metal in the
20	pavement, such as survey monumentation, monitoring wells, street car rail, and
21	castings, before planning, see Section 5-04.3(14)B2.
22	h. Description of how flaggers will be coordinated with the planing, paving, and
23 24	related operations. i. Description of sequencing of traffic controls for the process of rigid pavement
24 25	base repairs.
26	j. Other items the Engineer deems necessary to address.
27	 Paving – additional topics:
28	a. When to start applying tack and coordinating with paving.
29	b. Types of equipment and numbers of each type equipment to be used. If more
30	pieces of equipment than personnel are proposed, describe the sequencing of
31	the personnel operating the types of equipment. Discuss the continuance of
32	operator personnel for each type equip-ment as it relates to meeting
33	Specification requirements.
34	c. Number of JMFs to be placed, and if more than one JMF how the Contractor
35	will ensure different JMFs are distinguished, how pavers and MTVs are
36	distinguished if more than one JMF is being placed at the time, and how pavers
37	and MTVs are cleaned so that one JMF does not adversely influence the other
38 39	JMF. d. Description of contingency plans for that day's operations such as equipment
40	breakdown, rain out, and Supplier shutdown of operations.
41	e. Number of sublots to be placed, sequencing of density testing, and other
42	sampling and testing.
43	
44	5-04.3(15) Sealing Pavement Surfaces
45	Apply a fog seal where shown in the plans. Construct the fog seal in accordance with
46	Section 5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior to
47	opening to traffic.
48	
49	5-04.3(16) HMA Road Approaches
50	HMA approaches shall be constructed at the locations shown in the Plans or where
51	staked by the Engineer. The Work shall be performed in accordance with Section 5-04.
52 52	
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	City of Lynnwood May 2019

2019 Overlay and Curb Ramp Project

1	5-04.4 Measurement							
2	HMA CI PG, HMA for CI PG, and Commercial HMA will							
3	be measured by the ton in accordance with Section 1-09.2, with no deduction being made							
4	for the weight of asphalt binder, mineral filler, or any other component of the mixture. If							
5	the Contractor elects to remove and replace mix as allowed by Section 5-04.3(11), the							
6	material removed will not be measured.							
7								
8	Roadway cores will be measured per each for the number of cores taken.							
9								
10	Preparation of untreated roadway will be measured by the mile once along the centerline							
11	of the main line Roadway. No additional measurement will be made for ramps, Auxiliary							
12	Lanes, service roads, Frontage Roads, or Shoulders. Measurement will be to the nearest							
13	0.01 mile.							
14								
15	Sail residual barbiaida will be measured by the mile for the stated width to the pearest							
	Soil residual herbicide will be measured by the mile for the stated width to the nearest							
16	0.01 mile or by the square yard, whichever is designated in the Proposal.							
17								
18	Pavement repair excavation will be measured by the square yard of surface marked prior							
19	to excavation.							
20								
21	Asphalt for prime coat will be measured by the ton in accordance with Section 1-09.2.							
22								
23	Prime coat aggregate will be measured by the cubic yard, truck measure, or by the ton,							
24	whichever is designated in the Proposal.							
	whichever is designated in the Froposal.							
25	A sub-sk fan fan ea slovill he meestered houthe ten ee meeside die Osetien 5.00.4							
26	Asphalt for fog seal will be measured by the ton, as provided in Section 5-02.4.							
27								
28	Longitudinal joint seals between the HMA and cement concrete pavement will be							
29	measured by the linear foot along the line and slope of the completed joint seal.							
30								
31	Planing bituminous pavement will be measured by the square yard.							
32								
33	Temporary pavement marking will be measured by the linear foot as provided in Section							
34	8-23.4.							
35	0 20.4.							
36	Water will be measured by the M gallon as provided in Section 2-07.4.							
	water will be measured by the W gallon as provided in Section 2-07.4.							
37								
38	5-04.5 Payment							
39	Payment will be made for each of the following Bid items that are included in the							
40	Proposal:							
41								
42	"HMA CI PG", per ton.							
43								
44	"HMA for Approach CI PG", per ton.							
45	· · · · · · · · · · · · · · · · · · ·							
46	"HMA for Preleveling CI PG", per ton.							
47								
	"UNA for Dovement Densir Cl. DC. " nor ten							
48	"HMA for Pavement Repair CI PG", per ton.							
49								
50	"Commercial HMA", per ton.							
51								
52	The unit Contract price per ton for "HMA CI PG", "HMA for Approach CI PG							
53	, "HMA for Preleveling CI PG, "HMA for Pavement Repair CI PG,							
	City of Lynnwood May 2019							

1 and "Commercial HMA" shall be full compensation for all costs, including anti-stripping 2 additive, incurred to carry out the requirements of Section 5-04 except for those costs 3 included in other items which are included in this Subsection and which are included in 4 the Proposal. 5 6 "Preparation of Untreated Roadway", per mile. 7 8 The unit Contract price per mile for "Preparation of Untreated Roadway" shall be full pay 9 for all Work described under 5-04.3(4) , with the exception, however, that all costs 10 involved in patching the Roadway prior to placement of HMA shall be included in the unit Contract price per ton for "HMA CI. ____ PG ____" which was used for patching. If the 11 12 Proposal does not include a Bid item for "Preparation of Untreated Roadway", the 13 Roadway shall be prepared as specified, but the Work shall be included in the Contract 14 prices of the other items of Work. 15 16 "Preparation of Existing Paved Surfaces", per mile. 17 18 The unit Contract Price for "Preparation of Existing Paved Surfaces" shall be full pay for all Work described under Section 5-04.3(4) with the exception, however, that all costs 19 20 involved in patching the Roadway prior to placement of HMA shall be included in the unit 21 Contract price per ton for "HMA CI. ____ PG ____" which was used for patching. If the 22 Proposal does not include a Bid item for "Preparation of Untreated Roadway", the 23 Roadway shall be prepared as specified, but the Work shall be included in the Contract 24 prices of the other items of Work. 25 26 "Crack Sealing", by force account. 27 28 "Crack Sealing" will be paid for by force account as specified in Section 1-09.6. For the 29 purpose of providing a common Proposal for all Bidders, the Contracting Agency has 30 entered an amount in the Proposal to become a part of the total Bid by the Contractor. 31 32 "Pavement Repair Excavation Incl. Haul", per square yard. 33 34 The unit Contract price per square vard for "Pavement Repair Excavation Incl. Haul" shall 35 be full payment for all costs incurred to perform the Work described in Section 5-04.3(4) 36 with the exception, however, that all costs involved in the placement of HMA shall be 37 included in the unit Contract price per ton for "HMA for Pavement Repair CI. PG 38 ____", per ton. 39 40 "Asphalt for Prime Coat", per ton. 41 42 The unit Contract price per ton for "Asphalt for Prime Coat" shall be full payment for all 43 costs incurred to obtain, provide and install the material in accordance with Section 5-44 04.3(4). 45 46 "Prime Coat Agg.", per cubic yard, or per ton. 47 48 The unit Contract price per cubic yard or per ton for "Prime Coat Agg." shall be full pay for 49 furnishing, loading, and hauling aggregate to the place of deposit and spreading the 50 aggregate in the quantities required by the Engineer. 51 52 "Asphalt for Fog Seal", per ton. 53

1	Payment for "Asphalt for Fog Seal" is described in Section 5-02.5.
2 3	"Longitudinal Joint Seal", per linear foot.
4 5 6 7	The unit Contract price per linear foot for "Longitudinal Joint Seal" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(12).
7 8	"Planing Bituminous Pavement", per square yard.
9 10 11	The unit Contract price per square yard for "Planing Bituminous Pavement" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(14).
12 13	"Temporary Pavement Marking", per linear foot.
14 15	Payment for "Temporary Pavement Marking" is described in Section 8-23.5.
16 17	"Water", per M gallon.
18 19 20	Payment for "Water" is described in Section 2-07.5.
20 21	"Job Mix Compliance Price Adjustment", by calculation.
22 23 24	"Job Mix Compliance Price Adjustment" will be calculated and paid for as described in Section 5-04.3(9)C6.
25 26 27	"Compaction Price Adjustment", by calculation.
27 28 29	"Compaction Price Adjustment" will be calculated and paid for as described in Section 5-043(10)D3.
30 31	"Roadway Core", per each.
32 33 34 35	The Contractor's costs for all other Work associated with the coring (e.g., traffic control) shall be incidental and included within the unit Bid price per each and no additional payments will be made.
36 37	"Cyclic Density Price Adjustment", by calculation.
38 39 40	"Cyclic Density Price Adjustment" will be calculated and paid for as described in Sectior 5-04.3
41 42 43	APWA GSP Section 5-04.5 is supplemented with the following:
44 45 46	(*****) All costs necessary to construct Asphalt Thickened Edge shall be included in the Unit Contract price for "HMA CI PG", per ton.
47 48 49 50 51 52 53	<i>(January 2, 2018 WSDOT GSP)</i> <i>Asphalt Cost Price Adjustment</i> The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a payment, for qualifying changes in the reference cost of asphalt binder. The adjustment will be applied to partial payments made according to Section 1-09.9 for the following Bic items when they are included in the Proposal:
	City of Lynnwood May 2010

1 2	"HMA CI PG"							
3	"HMA for Approach Cl PG" "HMA for Preleveling Cl PG" "HMA for Pavement Repair Cl PG"							
4	"HMA for Preleveling CI PG"							
5	"HMA for Pavement Repair CI PG"							
6 7	"Commercial HMA"							
8	The adjustment is not a guarantee of full compensation for changes in the cost of asphalt							
9	binder. The Contracting Agency does not guarantee that asphalt binder will be available							
10	at the reference cost.							
11								
12	The Contracting Agency will establish the asphalt binder reference cost twice each month							
13	and post the information on the Agency website at:							
14								
15	http://www.wsdot.wa.gov/Business/Construction/EscalationClauses.htm							
16	The reference cost will be determined using posted prices furnished by Poten & Partners,							
17 18	Inc. If the selected price source ceases to be available for any reason, then the Contracting Agency will select a substitute price source to establish the reference cost.							
10	Contracting Agency will select a substitute price source to establish the relevence cost.							
20	The base cost established for this Contract is the reference cost posted on the Agency							
21	website with an effective date immediately preceding the Bid Opening Date.							
22								
23	Adjustments will be based on the most current reference cost for Western Washington or							
24	Eastern Washington as posted on the Agency website, depending on where the Work is							
25	performed. For Work completed after all authorized working days are used, the							
26	adjustment will be based on the posted reference cost during which Contract time was							
27	exhausted. The adjustment will be calculated as follows:							
28 29	No adjustment will be made if the reference cost is within 5% of the base cost.							
30								
31	If the reference cost is greater than or equal to 105% of the base cost, then							
32	Adjustment = (Current Reference Cost – $(1.05 \times Base Cost)) \times (Q \times 0.056)$.							
33								
34	If the reference cost is less than or equal to 95% of the base cost, then							
35	Adjustment = (Current Reference Cost – (0.95 x Base Cost)) x (Q x 0.056).							
36								
37	Where Q = total tons of all classes of HMA paid in the current month's progress payment.							
38 39	"Asphalt Cost Price Adjustment", by calculation.							
40	Asphalt Cost Frice Aujustment, by calculation.							
41	"Asphalt Cost Price Adjustment" will be calculated and paid for as described in this							
42	Section. For the purpose of providing a common Proposal for all Bidders, the Contracting							
43	Agency has entered an amount in the Proposal to become a part of the total Bid by the							
44	Contractor.							
45								
46								
47	5-06 Temporary Pavement							
48	Section 5-06 is added as follows:							
49 50	E 06.4 Description							
50	5-06.1 Description							
51 52	The Contractor may use temporary pavement (cold mix asphalt) to allow vehicular traffic to travel over the construction areas, and to construct the temporary wedge to existing							
52	traver over the construction areas, and to construct the temporary wedge to existing							

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to cover construction activities in a manner that provides a smooth transition between the
 surfaces, as approved by the Engineer.

5-06.2 Materials

5 Materials shall meet the requirements of Section 9-03.8.

67 The composition of other components of the temporary asphalt pavement shall be

- determined by the Contractor to provide a product suitable for the intended application. The
 Contractor shall not use materials that are a safety or health hazard.
- 10

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11 Temporary pavement material that does not form a consolidated surface after compaction 12 shall be considered unsuitable and be removed from the site. Unsuitable temporary

- 13 pavement shall be disposed of off-site.
- 14

15 **5-06.3 Construction Requirements**

The Roadway subsurface shall be prepared for the temporary pavement as defined in Section 2-06. Placement of temporary pavement over compacted Gravel Borrow or suitable native material backfill shall be allowed, in accordance with Specifications herein. Pavement areas greater than ten square feet shall be roller compacted to consolidate the temporary pavement. The completed pavement shall be free from ridges, ruts, bumps, depressions, objectionable marks, or other irregularities.

22

The Contractor shall immediately repair, patch, or remove any temporary pavement that doesnot provide a flat transition between existing pavement areas.

25

All temporary asphalt pavement to the depth of the final paving shall be removed from the
site by the end of the project and shall not be used as permanent asphalt pavement or its
Subgrade material.

30 **5-06.5** Payment

31 All cold mix asphalt used shall be incidental to other Bid items in the Contract.

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END DIVISION 5

Division 7

- 2 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits 3 4 5 7-05 Manholes, Inlets, Catch Basins, and Drywells 6 7 7-05.2 **Materials** 8 Section 7-05.2 is supplemented with the following: 9 10 General 11 New Circular Frames and Locking Slotted Grates shall be EJIW brand, Product Number 12 00371506, or approved equal.
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7-05.3 **Construction Requirements**

7-05.3(1) Adjusting Catch Basins and Manholes to Grade

Section 7-05.3(1) is supplemented with the following:

All manholes and catch basins shall be adjusted to finished grade after paving operations are complete. The Contractor shall adjust the structure using concrete brick or adjustment rings, or by other necessary means approved by the Engineer, in accordance with Contracting Agency standards, to the satisfaction of the Engineer.

Where shown in the Plans, manholes and catch basins shall be lowered prior to pavement repair operations.

After the catch basin or manhole has been lowered, the Contractor shall patch the resultant void with cold mix asphalt.

All catch basins and manholes for storm sewers shall be grouted water tight, including under frames, rims, manhole barrel, riser sections, and pipe collars

33 7-05.3(5) Adjusting Catch Basins and Manholes to Grade

Section 7-05.3(5) is added as follows:

Replace Existing Rectangular Frame and Grate with New Rectangular Frame and Vaned Grate

38 Where shown in the Plans or as directed by the Engineer, the Contractor shall remove 39 and dispose of existing frames and grates, and replace them with new frames and 40 grates in accordance with City of Lynnwood standard drawings 4-5 (frames) and 4-8 (vaned grates). 42

Replace Existing Open Curb Frame and Grate with New Open Curb Frame and Grate

Where shown in the Plans or as directed by the Engineer, the Contractor shall remove and dispose of existing open curb frames and grates, and replace them with new open curb frames and grates in accordance with City of Lynnwood standard drawing 4-11.

1 2 3	Replace Existing Storm Drain Manhole Ring and Cover with New Ring and Cover Where shown in the Plans or as directed by the Engineer, the Contractor shall remove						
	and dispose of existing stormwater manhole rings and covers, and replace them with						
4	new stormwater manhole rings and covers in accordance with City of Lynnwood						
5	standard drawings 6-6.						
6 7	Replace Existing Sanitary Sewer Manhole Ring and Cover with New Ring and						
8	Cover						
9	Where shown in the Plans or as directed by the Engineer, the Contractor shall remove						
10	and dispose of existing sanitary sewer manhole rings and covers, and replace them						
11	with new sanitary sewer manhole rings and solid locking covers in accordance with						
12	City of Lynnwood standard drawings 6-7.						
13 14	Replace Existing Rectangular Frame and Cover with New Rectangular Frame						
15	and Solid Locking Cover						
16	Where shown in the Plans or as directed by the Engineer, the Contractor shall remove						
17	and dispose of existing rectangular frames and covers, and replace them with new						
18	rectangular frame solid locking covers in accordance with WSDOT standard plans B-						
19	30.10-03 (frames) and B-30.20-04 (solid metal covers).						
20 21	Replace Existing Circular Frame and Grate with New Circular Frame and Locking						
22	Slotted Grate						
23	Where shown in the Plans or as directed by the Engineer, the Contractor shall remove						
24	and dispose of existing circular frames and grates, and replace them with new circular						
25	frames and slotted grates in accordance with Special Provision 7-05.2.						
26							
27 28	7-05.4 Measurement The third paragraph of Section 7-05.4 is revised to read as follows:						
28 29	The third paragraph of Section 7-03.4 is revised to read as follows.						
30	Adjustment of manholes, catch basins, and inlets will be made separately per each						
31	drainage Structure lowered prior to pavement repair, and then again after raising to finished						
32	grade.						
33	Depleterent of evicting conting with new 20" v 24" frame, and vened mate will be received.						
34 35	Replacement of existing casting with new 20" x 24" frame and vaned grate will be measured per each replacement.						
36	per each replacement.						
37	Replacement of existing open curb frame and grate with new open curb frame and grate will						
38	be measured per each replacement.						
39							
40	Replacement of existing storm drain manhole ring and cover with new ring and cover will be						
41 42	measured per each replacement.						
43	Replacement of existing sanitary sewer manhole ring and cover with new ring and cover will						
44	be measured per each replacement.						
45							
46	Replacement of existing rectangular frame and cover with new rectangular frame and solid						
47 48	locking cover will be measured per each replacement.						
48 49	Replacement of existing circular frame and grate with new circular frame and locking slotted						
50	grate will be measured per each replacement.						
	City of Lynnwood May 2019						

7-05.5 Pavment

2 Section 7-05.5 is supplemented with the following:

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- "Adjust Drainage Structure by Lowering", per each.
- 4 5 The unit Contract price per each for "Adjust Drainage Structure by Lowering" shall be full 6 pay for all costs necessary to make the lowering adjustment, including cold mix asphalt. 7 For the purpose of this pay item, the term "Drainage Structure" is intended to include storm 8 sewer catch basins, and manholes.
- 10 "Adjust Drainage Structure by Raising", per each.
- 11 The unit Contract price per each for "Adjust Drainage Structure by Raising" shall be full pay 12 for all costs necessary make the raising adjustment, including restoration of adjacent areas, 13 in a manner acceptable to the Engineer, including removal and replacement of existing 14 risers; including, but not limited to existing concrete or brick risers. For the purpose of this 15 pay item, the term "Drainage Structure" is intended to include storm sewer catch basins, 16 manholes, and sanitary sewer manholes.
- 18 "Adjust Manhole by Lowering", per each.
- 19 The unit Contract price per each for "Adjust Manhole by Lowering" shall be full pay for all 20 costs necessary to make the lowering adjustment, including cold mix asphalt. For the 21 purpose of this pay item, the term "Manhole" is intended to include sanitary sewer and 22 telecom manholes.
- 24 "Adjust Manhole by Raising", per each.
- 25 The unit Contract price per each for "Adjust Manhole by Raising" shall be full pay for all 26 costs necessary make the raising adjustment, including restoration of adjacent areas, in a 27 manner acceptable to the Engineer, including removal and replacement of existing risers; 28 including, but not limited to existing concrete or brick risers. For the purpose of this pay 29 item, the term "Manhole" is intended to include sanitary sewer and telecom manholes. 30
- 31 "Replace Existing Rectangular Frame and Grate with New Rectangular Frame and Vaned 32 Grate", per each.
- 33 The unit Contract price per each for "Replace Existing Rectangular Frame and Grate with 34 New Rectangular Frame and Vaned Grate" shall be full pay for all costs necessary to remove 35 existing frames and grates and replace them with new 20" x 24" frames and grates. 36
- 37 "Replace Existing Open Curb Frame and Grate with New Open Curb Frame and Grate", per each. 38
- 39 The unit Contract price per each for "Replace Existing Open Curb Frame and Grate with New 40 Open Curb Frame and Grate" shall be full pay for all costs necessary to remove existing open 41 curb frames and grates and replace them with new open curb frames and grates.
- 42

- 43 "Replace Existing Storm Drain Manhole Ring and Cover with New Ring and Cover", per each. 44 The unit Contract price per each for "Replace Existing Storm Drain Manhole Ring and Cover 45 with New Ring and Cover" shall be full pay for all costs necessary to remove existing frames 46 and covers and replace them with new rings and covers, and disposal of removed materials.
- 48 "Replace Existing Sanitary Sewer Manhole Ring and Cover with New Ring and Cover", per 49 each.

- 1 The unit Contract price per each for "Replace Existing Sanitary Sewer Manhole Ring and 2 Cover with New Ring and Cover" shall be full pay for all costs necessary to remove existing 3 frames and covers and replace them with new rings and covers, and disposal of removed 4 materials.
- 6 "Replace Existing Rectangular Frame and Cover with New Rectangular and Solid Locking
 7 Cover", per each.
- 8 The unit Contract price per each for "Replace Existing Rectangular Frame and Cover with 9 New Rectangular and Solid Locking Cover" shall be full pay for all costs necessary to remove 10 existing frames and covers and replace them with new frames and covers, including disposal 11 of removed materials.
- 12
- 13 "Replace Existing Circular Frame and Grate with New Circular Frame and Locking Slotted14 Grate", per each.
- 15 The unit Contract price per each for "Replace Existing Circular Frame and Grate with New 16 Circular Frame and Locking Slotted Grate" shall be full pay for all costs necessary to remove 17 existing frames and grates and replace them with new frames and grates, including disposal 18 of removed materials.
- 19

20 7-12 Valves for Water Mains

21

24

22 **7-12.3 Construction Requirements**

23 Section 7-12.3 is supplemented with the following:

25 Replace Water Valve Box Top Section

26 Where shown in the Plans or as directed by the Engineer, the Contractor shall remove and 27 replace existing water valve box top sections and covers with new top sections and covers 28 per City of Lynnwood Standard Drawing No. STD5-4A. Installation of the new valve box top 29 sections and covers shall occur during the adjustment Work of the water valve boxes that 30 occurs with the pavement planing and paving operations. The Contractor shall remove and dispose of existing asphalt pavement and surrounding high early strength Class 3000 cement 31 32 concrete a distance of 12 inches beyond the valve box, and construct an HMA patch following 33 the replacement Work. All parts of the water valve assembly damaged as a result of the 34 Contractor's operations shall be replaced at no expense to the Contracting Agency or utility 35 owner.

- 36
- 37 Section 7-12.3(2) is added as follows:38

39 **7-12.3(2)** Adjust Water Valve Box

The Contractor shall submit an adjustment plan to the Engineer for lowering or raising
 water valve box top sections and lids or water valve box assemblies. The Contractor shall
 not perform adjustment Work until receiving adjustment plan approval. Adjustment
 operations shall be conducted to prevent damage to the valve, water valve box top section
 and lid, or water valve box assembly. All parts or materials damaged as a result of the
 Contractor's operations shall be replaced at no expense to the Contracting Agency or utility
 owner.

1 2	Where shown in the Plans, the Contractor shall raise water valve boxes to final grade in one of the following manners:
3 4 5 6 7 8 9	 Raise existing water valve box top section and lid Remove existing water valve box top section and lid, and raise with new water valve box top section and lid Remove existing water valve box assembly, and raise with new water valve box assembly
10	See City of Lynnwood Standard Drawing No. STD5-4A.
11 12 13 14	7-12.4 Measurement Section 7-12.4 is supplemented with the following:
15 16 17	Replacement of water valve box top section and cover will be made per each top section and cover replaced.
18 19 20	Adjustment of water valve boxes will be made separately per each water valve box lowered prior to planing or raised to final grade.
21 22 23	7-12.5 Payment Section 7-12.5 is supplemented with the following:
23 24 25 26 27 28 29	"Replace Water Valve Box Top Section and Cover", per each. The unit Contract price per each for "Replace Water Valve Box Top Section and Cover" shall be full pay to furnish and install the new top section and cover of water valve boxes, including disposal of the existing valve box top section and lid.
30 31 32 33 34	"Adjust Water Valve Box by Lowering", per each. The unit Contract price per each for "Adjust Water Valve Box by Lowering" shall be full pay for all costs necessary to make the lowering adjustment, including including cold mix asphalt.
35 36 37 38 39	"Adjust Water Valve Box by Raising", per each. The unit Contract price per each for "Adjust Water Valve Box by Raising" shall be full pay for all costs necessary to make the raising adjustment of the water valve box top section and lid, including the preparation of adjustment plans.
40 41 42 43 44 45	END DIVISION 7

1 2 3	Division 8 Miscellaneous Construction
4 5 6	8-01 Erosion Control and Water Pollution Control
7	8-01.3 Construction Requirements
8 9 10 11	8-01.3(1) A Submittals General (April 1, 2016, Lynnwood GSP)
12 13 14 15 16 17	The first paragraph of Section 8-01.3(1)A is supplemented with the following: If the TESC Plan in the contract documents is adopted by the Contractor, the Contracting Agency shall be so notified prior to the Preconstruction Conference. If the Contractor modifies the TESC Plan in the contract documents, the revised TESC Plan shall be submitted for approval prior to the Preconstruction Conference.
18	Section 8-01.3(1)A is supplemented with the following:
19 20 21 22 23	Prior to the Preconstruction Conference, and prior to beginning work at the site and/or incorporation of materials and equipment into the project, the Contractor shall prepare, submit, and/or obtain approval from the Contracting Agency for the following:
24 25 26	 Spill Prevention, Control & Countermeasures (SPCC) Plan – Per Section 1-07.15(1); Storm Water Pollution Prevention Plan (SWPPP) – Per Section 8-01.3(1)A.
27 28 29 30	The Contractor shall develop the SWPPP in accordance with City of Lynnwood and WSDOE guidelines. A City approved template is available and more information can be found on the City's website at http://www.lynnwoodwa.gov/City-Services/EnvironmentalSurface-Water-and-Storm-Water/Environmental-Documents-and-Reports.htm
31 32	Section 8-01.5 Payment
33 34	(April 1, 2016, Lynnwood GSP)
35 36	Section 8-01.5 is supplemented with the following:
37 38 39 40	All costs associated with the preparation, approval and implementation of the SWPPP shall be considered incidental to the other bid items. No additional payment will be made.
41 42	8-02 Roadside Restoration
43 44 45	8-02.3 Construction Requirements

8-02.3(17)	Property Restoration
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2 Section 8-02.3(17) is added as follows:

The Contractor shall blend the new construction into developed private property adjacent to the project using similar materials to those existing, (e.g. seeding and fertilizing shall be used to match into lawn areas; bark shall be used to match into planting areas; topsoil shall be used to match into garden areas; seeding, fertilizing, and mulching; irrigation system repair and/or restoration, etc.).

- If the items used for the restoration have pay items in the Contract, they will be paid under those items.
 - If restoration of adjacent property requires use of materials that have no pay items, payment will be by force account under the item" Property Restoration".

16 **8-02.4 Measurement**

Section 8-02.4 is supplemented with the following:

- No specific unit of measurement will apply to the force account item of "Property
 Restoration."
 - Topsoil will be measured by the cubic yard. Measurement will be made in the hauling conveyance at the point of delivery.

25 8-02.5 Payment

26 Section 8-02.5 is supplemented with the following:

- 28 "Property Restoration", by force account.29
- Payment for "Property Restoration" shall be by force account as described in Section 1 09.6 of the Standard Specifications and no other compensation will be allowed.
- For the purpose of providing a common Bid Proposal for all Bidders and for that purpose only, the estimated cost of this Bid item has been arbitrarily entered in the Proposal to become part of the total Bid by the Contractor.
- 37 "Topsoil Type ____", per cubic yard.
 - The unit Contract price per cubic yard for "Topsoil Type _____" shall be full payment for all costs for the specified Work.
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42 8-04 Curbs, Gutters, and Spillways

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44 **8-04.3** Construction Requirements

- 45 Section 8-04.3 is supplemented with the following: 46
- 47 Cement Conc. Buffer Curb and Gutter and Valley Curb shall be constructed in accordance
 48 with the details shown in the Plans.
 49

1 For curb and gutter replacements where the Plans do not include curb return information, 2 the Contractor shall be responsible to record existing gutter line information (radius and 3 elevation), and replace with new curb and gutter in the same location.

4 8-04.4 Measurement

- 6 Section 8-04.4 is supplemented with the following: 7
 - Cement Conc. Buffer Curb and Gutter will be measured by the linear foot.
- 9 10 Cement Conc. Valley Curb and Gutter will be measured by the linear foot.

12 8-04.5 Payment

- 13 Section 8-04.5 is supplemented with the following: 14
 - "Cement Conc. Buffer Curb and Gutter", per linear foot. "Cement Conc. Valley Curb", per linear foot.
- 18 The unit Contract price per linear foot for "Cement Conc. Buffer Curb and Gutter" and 19 "Cement Conc. Valley Curb" shall be full pay for all labor, equipment, materials, forms, and 20 incidentals necessary to perform the Work.
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23 **Adjustment of Gas Valve Box** 8-05

24 Section 8-05, including title, is replaced with the following:

25 26 8-05.1 Description

27 This Work consists of adjusting existing gas valve box top section, ring and cover by lowering prior to planning operations and by raising to finished grade following paving operations in 28 29 accordance with the Plans and these Specifications at the locations shown in the Plans. 30

31 8-05.2 Vacant

32 33 8-05.3 **Construction Requirements**

- 34 Adjustment operations shall be conducted to prevent damage to the valve, valve box top 35 section, ring or cover. All parts or materials damaged as a result of the Contractor's operations 36 shall be replaced at no expense to the Contracting Agency or utility owner.
- 37
- 38 Per the pipeline safety regulations contained in WAC 480-93, valves must be maintained during 39 construction and the corrosion protection for steel gas piping must be periodically monitored. It
- 40 is essential to coordinate the adjustment of valve boxes and cathodic protection test lead boxes.
- 41 PSE (Gas) requires a representative/Inspector on-site when any Work is being performed where
- 42 PSE gas facilities are known to exist.
- 43

44 8-05.4 Measurement

- 45 Adjusting gas valve boxes by lowering will be measured per each for each gas valve box top section, ring, and cover lowered prior to planing operations. 46
- 47
- 48 Adjusting gas valve boxes by raising will be measured per each for each gas valve box top
- 49 section, ring, and cover adjusted to finished grade after final paving.

1 8-05.5 Payment

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

"Adjust Gas Valve Box By Lowering", per each.

"Adjust Gas Valve Box By Raising", per each.

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9 The unit Contract price per each for "Adjust Gas Valve Box By _____" shall be full pay for all
10 costs necessary to make lowering or raising adjustments, including cold mix asphalt required
11 during lowering.

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8-09 Raised Pavement Markers

16 **8-09.1 Description**

17 Section 8-09.1 is supplemented with the following:

This Work shall also consist of removing existing raised pavement markers.

20 8-09.3 Construction Requirements

21 Section 8-09.3 is supplemented with the following:

Raised pavement markers are to be removed by the Contractor and replaced as detailed herein. Existing RPMs shall be removed prior to pavement repair and/or overlay Work. Contractor shall sufficiently reference locations of existing RPMs so that they can be placed back in the same locations.

28 **8-09.5 Payment**

29 Section 8-09.5 is supplemented with the following:

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"Raised Pavement Marker Type _____", per hundred.

The unit Contract price per hundred for "Raised Pavement Marker Type ______" shall include all work associated with removal of existing raised pavement markers required for restriping, as well as installation of new raised pavement markers.

35 36 37

38 8-13 Monument Cases

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40 **8-13.1 Description**

41 Section 8-13 is deleted and replaced with the following:

42 43 8-13.1 Description

This Work shall consist of furnishing and placing survey monuments and monument cases with
 covers. This Work will also include adjusting survey monument cases to grade in accordance with
 City of Lynnwood Standard Drawing No. 317 and these Special Provisions. Providing survey

- 47 Work to set and maintain reference points is also included.
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8-13.2 Materials

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Materials shall be as specified in City of Lynnwood Standard Drawing No. 317. The pipe
 monument shall include a <u>brass cap</u>.

8-13.3 Construction Requirements

8-13.3(1) Survey Monuments

8 The Contractor shall reference all monuments within the project limits in advance of 9 construction, and will set reference points. The Contractor must file for and obtain a 10 Monument Destruction Permit with the Washington State Department of Natural 11 Resources in accordance with WAC 332-120. Whenever a survey monument not shown 12 in the Plans is discovered, the Contractor shall immediately bring it to the attention of the 13 Engineer and shall take all precautions necessary to avoid damaging it.

Whenever an existing monument is disturbed, or when a new monument is set, the Contractor shall coordinate with the Contracting Agency to obtain and complete required monument permit documentation. The Contracting Agency contact person is Nick Barnett at (425) 670-5211.

Survey monuments shall be furnished and set by the Contractor at positions determined by
 a licensed Professional Land Surveyor provided by the Contractor. This Work could include
 resetting existing monuments that are destroyed by the construction or setting new survey
 monuments as part of the Project, in accordance with City of Lynnwood Standard Drawing
 No. 317.

All survey monument Work shall be done by a Professional Land Surveyor licensed in the State of Washington under the provisions of RCW 18.43.020. All survey monument Work done by the Contractor shall conform to the requirements of RCW 58.09.120 and 58.09.130. Removal and replacement of GLO or Geodetic Control monuments shall conform to the requirements of WAC 332-120.

32 The Contractor shall complete the requirements for referencing monuments to the NAD 83-33 91 horizontal datum by completing a control survey which references the Contracting 34 Agency's NAD 83-91 survey control monuments. This control survey procedure and 35 reference monument selection must be approved by the Engineer prior to beginning this 36 Work. Also, all survey field notes for the control survey must be recorded in a Contracting 37 Agency supplied field book and returned to the Engineer at the completion of the Work. The 38 surveyor must punch the original monument position stamp with its surveyor's license 39 number as required in RCW 58.09.120 on the brass cap of each monument set. The surveyor 40 shall also stamp the Contracting Agency supplied monument number on each monument 41 set. All monument survey Work shall be coordinated with and approved by the Engineer 42 before final payment is made to the Contractor. After installation of the monument, a 43 Completion Report must be filed with the Washington State Department of Natural 44 Resources as required in WAC 332-120-060.

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The surveyor shall provide at least four reference points in the vicinity of the monuments that are likely to be impacted by construction. The location of these reference points will be outside the construction Work and shall be coordinated with the Contractor and approved by the Engineer prior to surveying. These reference points shall be set by the Contractor's Professional Land Surveyor in advance of construction for the purpose of resetting the

- 1 monuments, including the monument case and cover, at the completion of the construction 2 Work.
- 3 4

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The Contractor shall carefully protect all reference points to the monuments and shall avoid destruction of the points. Any survey Work required to reset destroyed or lost reference points shall be paid for by the Contractor at no additional cost to the Contracting Agency.

7 8 8-13.4 Measurement

9 Monument, monument case, and cover will be measured by the unit for each monument, 10 monument case, and cover furnished and set. 11

12 8-13.5 Payment

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

- 14 15
- "Monument, Monument Case, and Cover", per each.
- 16 The unit Contract price for "Monument, Monument Case, and Cover" shall be full pay for all 17 costs, including, but not limited to, labor, Equipment, and materials to apply for and obtain a 18 Monument Destruction Permit, file a Completion Report, set and maintain reference points, 19 set monuments, monument cases, and covers, and adjust monument cases and covers, and 20 any other elements of Work associated with maintaining control points, removal of existing 21 monuments, and providing new monuments. 22

23 **Cement Concrete Sidewalks** 8-14

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8-14.1 Description

26 Section 8-14.1 is revised to read: 27

- (April 3, 2017 WSDOT GSP)
- 28 29 This Work consists of constructing cement concrete sidewalks, curb ramps, bus stop 30 shelter foundations, masonry sidewalks, and ramp grinding in accordance with details 31 shown in the Plans, Standard Plans, these Specifications, and in conformity to the lines and grades shown in the Plans, Standard Plans, and as established by the Engineer. 32

34 **Construction Requirements** 8-14.3

35 Section 8-14.3 is supplemented with the following: 36

- 37 The Contractor shall construct Cement Conc. Buffer Sidewalk in accordance with the 38 details shown in the plans.
- 40 (April 3, 2017 WSDOT GSP)
- 41 The Contractor shall request a pre-construction meeting with the Engineer to be held two to 42 five working days before any Work can start on cement concrete sidewalks, curb ramps or 43 other pedestrian access routes to discuss construction requirements. Those attending shall 44 include: 45
 - The Contractor and Subcontractor in charge of constructing forms, and placing, 1. and finishing the cement concrete.
- 47 48

1 2	2.	 Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work. 						
3 4 5	Items to be discussed in this meeting shall include, at a minimum, the following:							
5 6 7	1.	Slopes shown on the Plans						
7 8 9	2.	Inspection						
10 11	3.	Traffic control						
12 13	4.	Pedestrian control, access routes and delineation						
14 15	5.	Accommodating utilities						
16 17	6.	Formwork						
18 19	7.	Installation of detectable warning surfaces						
20 21	8.	Contractor ADA survey and ADA Feature as-built requirements						
22 23	9.	Cold Weather Protection						
24 25		7, 2019 WSDOT GSP) Restrictions						
26 27 28 29 30 31 32	Curb ramps shall be constructed on one leg of the intersection at a time. The curb ramps shall be completed and open to traffic within five calendar days before construction can begin on another leg of the intersection unless otherwise allowed by the Engineer. Unless otherwise allowed by the Engineer, the five calendar day time restriction begins when an existing curb ramp for the quadrant or traffic island/median is closed to pedestrian use and ends when the quadrant or traffic island/median is fully functional and open for pedestrian access.							
33 34	(January	7, 2019 WSDOT GSP)						
35 36 37 38	Using the	and Conformance to Grades e information provided in the Contract documents, the Contractor shall lay out, nd form each new curb ramp, sidewalk, and curb and gutter.						
39 40 41		(3) Placing and Finishing Concrete8-14.3(3) is supplemented with the following:						
42 43 44 45	exp	ewalk and curb and gutter shall not be poured monolithically. A full depth bansion joint will be required when concrete sidewalk is placed adjacent to other of surfaces (such as driveways or vertical curbs), or as directed by the Engineer.						
46 47 48		easurement 4.4 is supplemented with the following:						
49 50		concrete curb ramps of all types will be measured by the square yard of completed np installed and includes the installation of the detectable warning surface. <i>May 2019</i>						

May 2019

1 2 Cement Conc. Buffer Sidewalk will be measured by the square yard of completed sidewalk 3 installed, exclusive of adjacent traffic curbs and/or curb and gutter. 4

8-14.5 Payment

- 5 6 Section 8-14.5 is supplemented with the following: 7
- 8 "Cement Conc. Curb Ramp Type ____", per square yard.
- 9 The unit Contract price per square yard for "Cement Conc. Curb Ramp Type " shall be 10 full compensation for installing the curb ramp as specified, including the "Detectable Warning 11 Surface".
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- 13 "Cement Conc. Buffer Sidewalk", per square yard.
- The unit Contract price per square yard for "Cement Conc. Buffer Sidewalk" shall be full 14 15 pay for all labor, equipment, materials, forms, and incidentals necessary to perform the 16 Work. 17
- 18 Payment for "Cement Conc. Sidewalk", "Cement Conc. Buffer Sidewalk", and "Cement Conc. 19 Curb Ramp Type ____ " as specified, shall be contingent upon finished concrete meeting all 20 slopes, lines and grades in compliance with the Contract documents. All Work not in 21 compliance with the Contract documents shall be considered defective and shall be removed 22 and replaced solely at the Contractor's expense. At the discretion of the Engineer, any 23 damage done to existing sidewalk or curb ramps noted to remain as a result of the 24 Contractor's Work, shall be repaired to the satisfaction of the Engineer, at no additional 25 expense to the Contracting Agency. 26

27 Illumination, Traffic Signal Systems, Intelligent Transportation Systems, 8-20 28 and Electrical 29

30 8-20.1 Description

8-20.1(1) Regulations and Code

The first sentence of the first paragraph of Section 8-20.1(1) is deleted and replaced with the following:

All electrical equipment shall conform to the standards of the National Electrical Manufacturers Association (NEMA), FHWA IP-78-16, the Radio Manufacturers Association, the American Society for Testing and Materials (ASTM), the American Association of State Highway and Transportation Officials (AASHTO), the American National Standards Institute (ANSI), the National Electrical Safety Code (NESC), the International Municipal Signal Association (IMSA), whichever is applicable, and to other codes listed herein.

The last paragraph Section 8-20.1(1) is deleted and replaced with the following:

Unless otherwise noted, the location of signals, controllers, standards, conduit, CCTV, DMS and all related appurtenances shown in the Plans are approximate and shall be verified with the Engineer in the field prior to installation.

1 2	8-20.1(2) Industry Codes and Standards The following is added at the end of the first paragraph of Section 8-20.1(2):	
$\frac{2}{3}$	The following is added at the end of the first paragraph of Section 6-20. I(2).	
4	National Electrical Safety Code (NESC)	
5	Secretary NESC, NESC Committee, IEEE	
6	Post Office Box 1331	
6 7	445 Hoes Lane	
8	Piscataway, NJ 08855-1331	
9	Fiscalaway, NJ 00030-1301	
10	This Section is supplemented with the following new subsection:	
11	This Section is supplemented with the following new subsection.	
12	8-20.1(3) Permitting and Inspections	
12	Electrical installations are subject to electrical inspection in accordance with RCW 19.28.10	1
14	Electrical inspections may only be performed by an electrical inspector meeting the	
15	requirements of RCW 19.28.321. Electrical installations will not be accepted until they have	
16	been inspected and approved by an electrical inspector as required by this Section. Th	
17	inspection is required even if there is no new electrical service or new electrical meter beir	
18	installed in the Contract.	'9
19	Installations within WSDOT Right of Way are subject to a minimum of a final inspection by	а
20	WSDOT certified electrical Inspector as allowed by RCW 19.28.141. A separate permit	
21	not required for electrical installations within WSDOT Right of Way. Additional inspectior	
22	may be required at the discretion of the Engineer.	
${23}$		
24	Installations outside of WSDOT Right of Way are subject to permitting and inspection by the	ne
25	Washington State Department of Labor and Industries (L&I) or a local jurisdiction approve	
26	for that location by L&I. Approved local jurisdictions and their contacts may be found on the	
27	L&I website	at
28	http://www.lni.wa.gov/TradesLicensing/Electrical/FeePermInsp/CityInspectors/.	
29		
30	8-20.1(4) Warranties	
31	Section 8-20.1(4) is added as follows:	
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33	The Contractor shall provide a warranty for all material to be furnished under this Bid	
34	for the greater of two (2) years or the warranty time period as provided by equipment	
35	manufacturers, from the date of actual system turn-on (unless otherwise specified	
36	here-in). The warranty shall apply to all material including those items not	
37	manufactured by the Contractor and shall provide that all material at the time of	
38	delivery shall be free from defects in material and workmanship and shall be fit for the	•
39	uses set forth in these Specifications.	
40	The warranty shall assign responsibility to the Contractor for all easts of replacement	
41 42	The warranty shall assign responsibility to the Contractor for all costs of replacement or repair of defective materials except those materials supplied by the Contracting	
42 43	Agency. Replacement or repair shall be made within five (5) working days following	
43 44	notification of a discrepancy.	
44	notification of a discrepancy.	
46	8-20.2 Materials	

- 47 Section 8-20.2 is supplemented with the following:
- 47 48

1 8-20.2(1) Equipment List and Drawings

- 2 Section 8-20.2(1) is revised to read as follows:
- 3 4 Within thirty (30) calendar days following execution of the Contract, the Contractor 5 shall provide all documentation pertaining to the materials and method of execution 6 proposed to satisfy the requirements of this Section. The Engineer's approval is 7 required prior to the committing of any materials or the commencement of any Work. 8 9 The Engineer shall either approve or disapprove each submitted item within twenty-10 one (21) calendar days of submittal subject to the completeness of the Contractor's submittal. Actual elapsed time for the Engineer's review is dependent upon the 11 12 completeness and appropriateness of the documentation being submitted. Any 13 deficiencies in the Contractor's submittals shall require additional time for approval. 14 Any delays caused by such deficiencies shall not be grounds for extension of project 15 consideration dates. The Contractor shall anticipate review intervals and schedule 16 submittals accordingly to ensure project progress in accordance with Section 1-08.3. 17 18 The Engineer's approval of any submitted documentation shall in no way relieve the 19 Contractor from compliance with the safety and performance requirements as specified 20 herein. 21 22 Submittals required by this item shall include, but not be limited to, the following: 23 24 1. A material staging plan, should the Contractor propose Contracting Agency-25 owned property as a staging area. 26 27 2. Proposed material Specifications for all traffic signal, ITS and communication 28 system components. This shall include, but not be limited to, poles, junction 29 boxes, conduit, cabling, slice materials, signal heads, push buttons, luminaries, 30 all signal and communication system hardware, including cabinets and cabinet-31 contained hardware. 32 33 3. Submittals shall be neat, legible, and orderly, submitted with an index or 34 transmittal form listing all submittal contents. Submittals without an index or 35 transmittal form listing all contents will be rejected. Neatly organize each package 36 of submittal data and separate by hardware item. Where catalogue sheets are 37 copied listed multiple items, all items proposed for use on this project shall be 38 highlighted to distinguish from items not proposed for use on the project. 39 40 8-20.3 **Construction Requirements** 41 42 8-20.3(5) Conduit 43 Section 8-20.3(5) is supplemented with the following: 44 45 The following is added at the end of this Section: 46 47 Installation of conduit shall conform to appropriate articles of the Code and these 48 Specifications. 49

1 The ends of all conduits, metallic and non-metallic shall be reamed to remove burrs 2 and rough edges. Field cuts shall be made square and true. Slip joints or running 3 threads will not be permitted for coupling metallic conduit; however, running threads 4 will be permitted in traffic signal head spiders and RGS outerduct. When installing rigid 5 galvanized steel conduit and standard coupling cannot be used, an approved 3-piece 6 coupling shall be used. The threads on all conduit shall be rust-free, clean. All 7 couplings shall be tightened so that a good electrical connection will be made 8 throughout the entire length of the conduit run. If the conduit has been moved after 9 assembly, it shall be given a final tightening from the ends prior to backfilling. Non-10 metallic conduit shall be assembled using the solvent cement specified in Section 9-29.1. With the exception of connections to HDPE conduit, PVC conduit shall be 11 12 connected with medium grade gray cement solvent applied per the manufacturer's 13 recommendations. Where the coating on galvanized conduit has been damaged in 14 handling or installing, such damaged areas shall be thoroughly painted with 15 galvanizing repair paint, Formula A-9-73. All conduit including spare conduits shall be installed with bushings. Rigid galvanized steel conduit shall be installed with insulated 16 17 grounding bushings which have standard threading that extends around the entire 18 circumference of the bushing. PVC conduit shall be installed with molded one-piece 19 end bell bushings. All conduit including spare conduits shall be installed with plugs. 20 which shall not be removed until installation of conductors or pull string. Upon 21 installation of wiring all conduits entering pad mounted cabinets, all conduit entering 22 ITS hubs, and all ITS conduit 2 inches in diameter or larger, shall be sealed with an 23 approved mechanical plug at both ends of the conduit run. Upon installation of wiring 24 at other locations, conduit shall be sealed with duct seal. Upon installation of the pull 25 string, spare conduit shall be plugged. 26 27 Nonmetallic conduit bends, where allowed, shall conform to Article 352.24 of the Code. 28 Eighteen-inch radius elbows shall be used for PVC conduit of 2-inch nominal diameter 29 or less. Standard sweep elbows shall be used for PVC conduit with greater than 2-inch 30 nominal diameter unless otherwise specified in the Plans. In nonmetallic conduit less 31

than 2-inch nominal diameter, pull ropes for wire installation shall be not less than 1/4 inch diameter. In nonmetallic conduit of 2-inch nominal diameter or larger, pull ropes for wire installation shall be not less than 1/2 inch diameter.

- Conduit shall be laid so that the top of the conduit is a minimum depth of:
 - 1. 24-inches below the bottom of curb in the sidewalk area
 - 2. 24-inches below the top of the Roadway base.
 - 3. 24-inches below the finish grade in all other areas.

Where nonmetallic conduit is installed, care shall be used in excavating, installing, and backfilling, so that no rocks, wood, or other foreign material will be left in a position to cause possible damage.

Metallic and nonmetallic conduit installation shall include equipment grounding conductor and shall conform to requirements noted in the Standard Plans.

48 Conduit entering through the bottom of a junction box shall be located near the end 49 walls to leave the major portion of the box clear. At all outlets, conduit shall enter from

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1 2 3	the direction of the run, to and within three (3) inche									junctio	n box lid	
3 4 5	All covered underground conduit shall be cleaned with an approved sized mandrel and blown out with compressed air prior to pulling wire											
5 6 7	blown out with compressed air prior to pulling wire. Conduit runs shown in the Plans are for Bidding purposes only and may be changed,											
8 9	with approval of the Engineer, to avoid obstructions.											
10 11	8-20.3(8) Wiring Section 8-20.3(8) is suppleme	2-20.3(8) Wiring Section 8-20.3(8) is supplemented with the following:										
12 13	Field Wiring Chart											
13	-	Field Wiring Chart 501 AC+ Input 516-520 Railroad Pre-empt										
15		Input			5A1-5				•			
16	503-510 Con	trol-Dis	olay		541-5					•		
17	511-515 Sigr	Lights			581-5	599 Sp	oare					
18												
19	•• •••					_	•	_	•	•		
20	Movement Number	1	2	3	4	5	6	7	8	9		
21	Vahiala Llaad											
22 23	Vehicle Head Red	611	621	631	641	651	661	671	681	691		
23 24	Yellow	612	622			652	662	672	682			
24	Green	613	623	633		653	663	673	683	693		
26	Spare	614				654			684			
27	Spare	615	625					675	685			
28	AC-	616		636		656		676	686			
29	Red Auxiliary	617				657			687			
30	Yellow Auxiliary	618	628	638	648	658	668	678	688	698		
31	Green Auxiliary	619	629	639	649	659	669	679	689	699		
32	Pedestrian Heads & Dets											
33	Hand	711	721	731	741	751	761	771	781	791		
34	Man				742				782	792		
35	AC-				743							
36	Detection			734		754	764	774	784	794		
37	Common-Detection	715	725	735	745	755	765	775	785	795 706		
38 39	Spare	716 717	726 727	736 737	746 747	756 757	766 767	776 777	786 787	796 797		
39 40	Spare Spare	718	728	738	748	758	768	778	788	797 798		
40 41	Spare	719	729	739		759	769	779	789	799		
42	Detection	713	123	100	143	100	103	113	103	133		
43	AC+	811	821	831	841	851	861	871	881	891		
44	AC-	812				852	862		882	892		
45	Common-Detection		823	833		853	863	873	883	893		
46	Detection A		824	834		854	864	874	884	894		
47	Detection B	815	825	835	845	855	865	875	885	895		
48	Loop 1 Out				846				886			
49	Loop 1 In	817	827	837	847	857	867	877	887	897		

1 2	Loop 2 Out Loop 2 In		828 829							898 899
3	Supplemental Detection									
4	Loop 3 Out	911	921	931		951	961	971	981	991
5	Loop 3 In	912		932	942	952	962		982	992
6	Loop 4 Out	913	923	933	943	953	963		983	993
7	Loop 4 In	914	924	934	944	954	964	974	984	994
8	Loop 5 Out	915			945	955	965		985	995
9	Loop 5 In		926			956			986	
10	Loop 6 Out	917				957 958	967		987	
11 12	Loop 6 In Spare		928 929					978 979	988 989	
12	Spare	919	929	909	343	909	909	919	909	333
13	8-20 3/11) Signal Systems									
15	8-20.3(14) Signal Systems									
16	8-20.3(14)G Pedestrian P	ushb	utton	Asse	mblie	s				
17	8-20.3(14)G Pedestrian Pushbutton Assemblies Section 8-20.3(14)G is added as follows:									
18										
19	The Contractor shall provide and install the pedestrian push buttons on the signal								s on the signal	
20	pole. All mountings shall be securely fastened and approved by the Engineer.									
21	The position of the pedestrian push buttons shall be located generally so that the								ally so that the	
22	button is parallel to the crosswalk for which the button is intended to serve;									
23	however, final positioning for the optimum effectiveness shall be approved by the									
24	Engineer.									
25										
26	8-20.3(17) "As Built" Plans							C . II .	• • •	
27	Section 8-20.3(17) is deleted ir	i its er	ntirety	and r	eplac	ed wit	in the	tollow	/ing:	
28 29	Linen completion of the co	notruc	tion o	nd nr	ior to i	the tu	rn on	ofon	, troff	ia control
29 30	Upon completion of the construction and prior to the turn-on of any traffic control									
31	equipment, the Contractor shall furnish an "as-built" plan of each intersection showing									
32	all signal heads, pole locations, detectors, junction boxes, miscellaneous equipment, conductors, cable wires up to the signal controller cabinet, and with a special symbol									
33	identifying those items that have been changed from the original Contract Plans. All									
34	items shown in the Contract Plans shall be located within one (1) foot horizontal									
35	distance and six (6) inches vertical distance above, below or at the surface.									
36	()					,				
37	8-20.5 Payment									
38	Section 8-20.5 is supplemented with	h the f	ollowi	ng:						
39	"El l' D () ())"									
40	"Flashing Beacon (Location)", per lump sum.								- 11 -	
41 42	The lump sum Contract price for "Flashing Beacon (Location)" shall include all labor,									
42 43	equipment, methods, and materials necessary to install the flashing beacon in accordance									
43 44	with the manufacturer's recommendations and all applicable details and Special Provisions									
44	of the Contract Documents and the Standard Specifications. Work includes but is not limited to any required excavation and backfill, wiring and conduit, junction boxes, electrical									
46	grounding, concrete foundation, support pole and pole base, relocation of existing poles to									
47	new foundations, flashing lights and brackets, solar panel(s), battery backup, wireless									
48	transmitters and receivers, and all necessary anchors and fasteners in accordance with the									
49	details and Special Provisions of the Contract Documents and all applicable Standard									
	City of Lynnwood									May 2019
	2019 Overlay and Curb Ramp Project		_							-
			Pag	re 9-90						

1 Specifications. New or relocated signing mounted to the pole with the flashing beacon shall 2 not be included in this unit Contract price.

- 3 4
 - "Traffic Signal System Modifications (Location)", per lump sum.

5 The lump sum Contract price for "Traffic Signal System Modifications (Location)" shall include 6 the cost of accessible pedestrian systems as shown in the Plans, including removal of 7 existing foundations, wiring, posts, pushbutton assemblies, salvage of designated 8 pushbutton assemblies and miscellaneous signal equipment, new foundations, posts. 9 pushbutton assemblies, wiring, and testing. The lump sum Contract price shall also include 10 adjusting the elevation of the junction boxes or pull boxes as shown in the Plans, installation of premolded joint filler, slip resistance treatment, installation or replacement of the gravel 11 12 pad and the adjustment of conduit placement within the junction box or pull box. All Work 13 shall conform to the requirements of Standard Plans J-40.20-03, J-40.10-04 and J-40.30-04. 14

- When the replacement or modification of electrical or communication system cables, wiring or conductors or other associated Work, not identified as Work in the Contract Plans, is required as a result of the adjustment of existing junction boxes or pull boxes, all costs associated with those modifications shall be paid in accordance with Section 1-04.4.
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20 8-23 **Temporary Pavement Markings** 21

22 8-23.1 Description

- 23 Section 8-23.1 is supplemented with the following: 24
 - This work also consists of furnishing, placing, and maintaining temporary flexible raised pavement markers and removing temporary pavement marker protective plastic covers.
- 28 Temporary Pavement Marking shall provide full lane delineation at all intersections and all marked lane lines within the project area. Pavement markings are anticipated to be restored in same locations as existing so temporary markings shall provide all needed reference to place permanent pavement markings back in the same locations.

33 8-23.2 Materials

- 34 Section 8-23.2 is supplemented with the following: 35
- 36 When temporary flexible raised pavement markers are used for bituminous surface treatment 37 operations, the markers shall be supplied with two protective covers made of clear polyvinyl chloride. The first shall be removed after chip seal work is complete, the second shall be 38 39 removed after fog seal work is complete.

41 8-23.3 **Construction Requirements**

- Section 8-23.3 is supplemented with the following: 42
- 43

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- 44 The Contractor shall be responsible for referencing existing lines and pavement markings 45 and re-establishing lines and markings on new BST pavement.
- 46 47 On the day that the BST is constructed, the Contractor shall remove one plastic cover from 48 the first, third, and fifth flexible raised pavement marker in centerline areas, and all plastic 49 covers at intersection areas for stop lines and wide lines.

- 1 On the day that the fog seal is constructed on the BST, the Contractor shall remove all of the 2 remaining plastic covers on the flexible raised pavement markers.
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Should traffic destroy the flexible raised pavement markers prior to the sealing operation, the Contractor shall replace them before continuing with construction operations. All delineation that is reapplied due to traffic will be paid for under "Temporary Pavement Markings", per linear foot.

9 8-23.4 Measurement

10 Section 8-23.4 is supplemented with the following:

Temporary pavement markings will be measured by the linear foot of each installed line or grouping of markers, with no deductions for gaps in the line or markers.

15 **8-23.5 Payment**

16 Section 8-23.5 is supplemented with the following:

- "Temporary Pavement Marking", per linear foot, shall include all costs for application, or
 reapplication, uncovering temporary flexible raised pavement markers, and disposal of
- 20 plastic covers.
- 21
- 22
- 23
- 24 25

END DIVISION 8

1 2 3			Divisio Materia				
4 5 6 7	9-29	Illumination, Sig	gnal, Electrical				
8	9-29.3	Fiber Optic C	able, Electrical Cond	uctors, and Cable			
9 10	Section	9-29.3 is supplem	ented with the following:				
10 11 12 13	Circuit conductors shall be standard copper wire in all conduit runs with size spece Plans.						
14 15 16	Cable entering cabinets shall be neatly bundled and wrapped. Each wire shall bear the circuit number and be thoroughly tested before being connected to the appropriate terminal.						
17 18 19	The Contractor shall provide all materials required for the installation and splicing of the specified communications cables, power cables and associated interface devices.						
20 21 22	At the request of the Engineer, the Contractor shall submit a three (3) foot sample cable section to the Engineer for approval for each type of cable to be utilized.						
23	9-29.6	Light and Sig	nal Standards				
24	Section	9-29.6 is supplem	ented with the following:				
25 26 27 28 29 30	Traffic Signal Standards Traffic signal standards shall be furnished and installed in accordance with the methods and materials noted in the applicable Standard Plans, pre-approved plans, or special design plans.						
31 32 33 34	All welds shall comply with the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. Welding inspection shall comply with Section 6-03.3(25)A Welding Inspection.						
35 36 37 38	Hardened washers shall be used with all signal arm connecting bolts instead of lockwashers. All signal arm ASTM F 3125 Grade A325 connecting bolts tightening shall comply with Section 6-03.3(33).						
39 40		Traffic signal standard types and applicable characteristics are as follows:					
41 42 43		Type PPB		posts shall conform to Standard Plan J- ollowing pre-approved plans:			
44 45 46 47			<u>Fabricator</u> Northwest Signal Supply Inc.	<u>Drawing No.</u> NWS 3565			

1		Valmont Ind. Inc.	DB01165 Rev. A			
2 3			Sheet's 1, 2, 3 & 4 of 4			
3						
4		Ameron Pole	WA10TR-1 Rev. F and			
5		Prod. Div.	WAPPBPBA Rev. B			
6						
7						
8		Union Metal Corp.	TA-10035 Rev. R8			
9			Sht. 1			
10		Mast Cast				
11 12		West Coast				
12		Engineering Group	WSDOT-PP-01 Rev. 1			
13 14		KW Industries	10-200-PED-1			
14		Rw moustnes	Rev. 9, Sheets 1, 2 and 3			
16						
17	9-29.19 Pede	estrian Push Buttons				
18		0.19 is supplemented with the fo	llowing.			
19	0001011 0 20		lowing.			
20	Access	ible Pedestrian Signal (APS) I	Pushbuttons			
21		• • • •	shbuttons shall be provided. Each accessible			
22	pedestrian signal (APS) shall be a complete APS pushbutton system at each					
23	pedestrian pushbutton location shown in the Plans. Equipment shall be:					
24						
25		Campbell Company Advisor G	uide Accessible Pedestrian Station (AGPS)			
26						
27	Each pushbutton station shall include the following:					
28	4	Elet ble els estere d'haveires				
29 30	1.	Flat black colored housing.				
30 31	2.	Pushbutton arrow on a white h	ackground. Pushbutton arrow shall be silver.			
32	۷.	Fushbullon and white b				
33	3.	Integral 9" x 15" R10-3e sign	Braille shall not be included. Adaptor plates			
34	0.	shall be included if required to				
35						
36	4.	Appropriate interface unit for in	nstallation in associated pedestrian display:			
37			,			
38		Campbell: Signal Power I	nterface (SPI) Unit			
39						
40	5.	Percussive tone / rapid tick walk indication.				
41						
42	6.	Voice messages, where specified in the Plans, pre-installed. Voice shall be				
43		male.				
44	_					
45	7.		ion between pushbutton station and pedestrian			
46			otherwise specified in the Contract, cable shall			
47 48			manufacturer. Cable may be standard four			
48 49		conductor cable meeting the requirements of Standard Specification 9- 29.3(2)B if it meets the pushbutton manufacturers requirements.				
49 50			สแอก กาสกันเสียเน้ายาวายี่จุนแอกเอกเอ.			
50						

1	The following shall be provided at each intersection:	
2 3	1. One USB flash drive with copies of all voice message audio files for that	
4 5	intersection, placed in the traffic signal cabinet drawer or drawing envelope. A separate flash drive is required for each intersection.	
6		
7	2. One USB cable of the appropriate type (A to A, A to B, male/female, etc.),	
8 9	placed in the traffic signal cabinet drawer or drawing envelope.	
10	Any other equipment or software required by the manufacturer for setup, operation,	
11	and maintenance of the pushbutton stations shall be provided.	
12	Duel hutter a deuter breakte en regular d'far all is dellations with two ADO	
13 14	Dual button adaptor brackets are required for all installations with two APS	
14	pushbuttons on the same Type PPB, Type PS, or Type I Signal Standard. Where dual button adaptor brackets or extension brackets are required, they shall be obtained	
16	from the same manufacturer as the pushbutton station. Brackets and extensions from	
17	other manufacturers shall not be used. Brackets shall be Campbell Company part	
18	numbers 503-0200 and 503-0175. Brackets shall be flat black and match the	
19	pedestrian push button housing.	
20		
21	APS Speech Messages	
22	Where shown in the Plans, speech messages shall be provided in the following format:	
23		
24	• "Wait."	
25	 "Walk sign is on to cross [Street Name]." 	
26		
27	Order forms shall be completed by the Contractor using the information presented above.	
28		
29	9-29.22 Vacant	
30	Section 9-29.22, including title, is deleted and replaced with the following:	
31		
32	9-29.22 Flashing Beacon	
33	General	
24	The Fleeping Resson (RRFR) shall be consist of sole (new or releasted, as shown in the	

- The Flashing Beacon (RRFB) shall be consist of pole (new or relocated, as shown in the Plans), push button, flashing beacon indications, solar-panel(s), wireless transmitter,
- 36 control unit, and any associated wiring and mountings.
- 37 The flashing beacon shall be solar-powered.

38 The flashing beacon shall remain dark until initiated by activation of the pedestrian push

button. Each flashing beacon unit shall be activated by push button and relayed as a

40 system to operate all flashing beacon units simultaneously when any one push button is

41 activated. The flashing beacon units shall simultaneously cease operation after a
 42 predetermined time limit per the Engineer. Agency Engineer will provide assistance to the

42 predetermined time limit per the Engineer. Agency Engineer will provide assistance to the
 43 Contractor for setting the activation time duration.

Pedestrian Push Button

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- 1. One pedestrian push button shall be mounted on poles identified per the Plans. Push button will activate the flashing beacon system.
- 2. Push buttons shall be ADA compliant and meet the requirements in Section 9-29.19 and as modified below.
- Pedestrian push buttons used at flashing beacon locations shall not have the vibro-tactile feature. Pedestrian push buttons used at flashing beacon locations shall not have the red indication light. The pedestrian push button housing shall be black in color.
- 4. Pedestrian push buttons shall include MUTCD compliant sign R10-25 with the message "Press Button To Turn On Warning Lights" with a hand symbol (black text and symbols on white background). The sign shall be 9" by 12". Each push button assembly shall have one sign and the push button signing shall be identical to one another. The sign shall be mounted on the same housing as the push button and shall be oriented in the same direction as the push button.
- 5. The pedestrian push button shall be Campbell Company AGPS.

20 Poles, Base, and Foundation

21 The flashing beacons shall be installed on a pole as shown in the Plans.

22 Pedestal poles shall be 4-inch schedule 40 aluminum pipe with one threaded end for 23 mounting to the base. The overall height of the shaft excluding the base shall be as shown 24 on the Plans. Pedestal base shall be of cast aluminum with angled sides with the 25 approximate dimensions of 13.75-inches by 13.75-inches by 15-inches tall. Bases for 26 pedestals shall be threaded, square, aluminum and equipped with an aluminum access 27 door for wiring. A 13.5-inch diameter bolt circle size shall be used. The base shall have a 28 grounding lug inside which is accessible from the handhole. The base shall be aluminum in 29 color.

- 30 Foundations and bases shall be per the Plans.
- 31 Anchor bolts for Type I or Type PS poles shall meet the requirements for Anchor Bolts per 32 the Standard Specifications and any modifications included herein.
- 33 Anchor bolts for Pedestal poles shall be J-shaped and be 5/8-inches diameter by 20-inches 34 long by 4-inches. Anchor bolts shall be hot dipped galvanized, full length, per ASTM A307. 35 The top 6-inches shall be threaded. Anchor bolts shall conform to the requirements of 36 ASTM F1554, grade 55. Nuts shall meet the requirements of ASTM A563, grade A. Washers shall meet the requirements of ASTM F844 or F436.
- 37 38
- 39 The approved product is the JSF Technologies AB-2412 series with 12-inch indications with 40 AGPS modification.

41

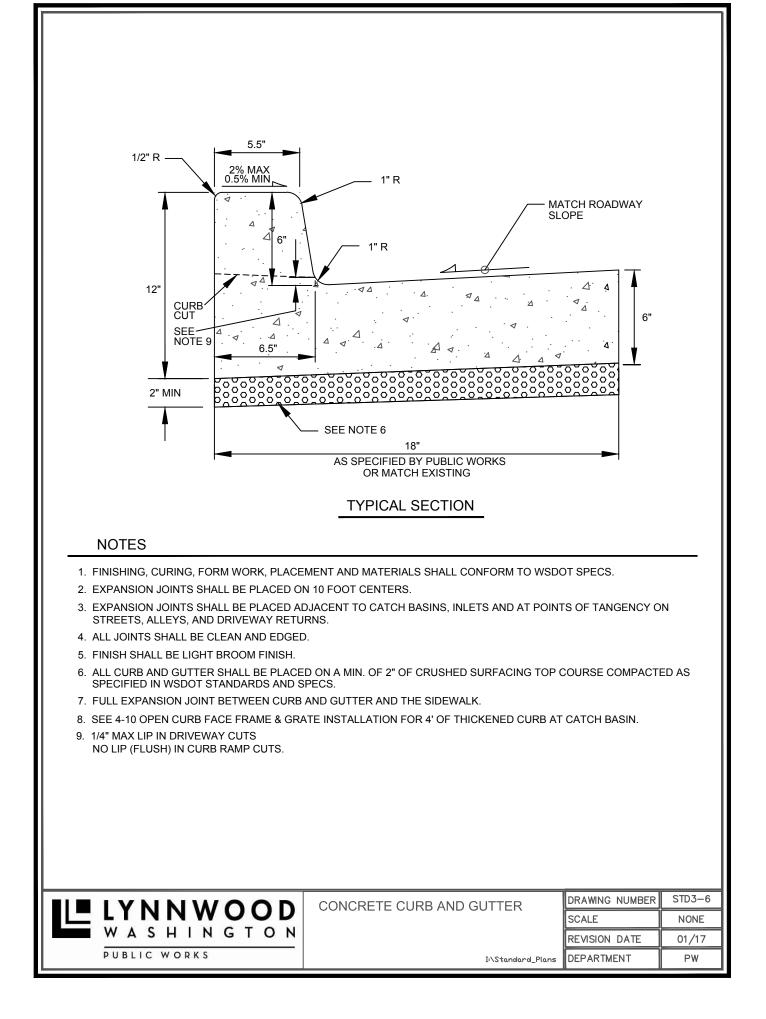
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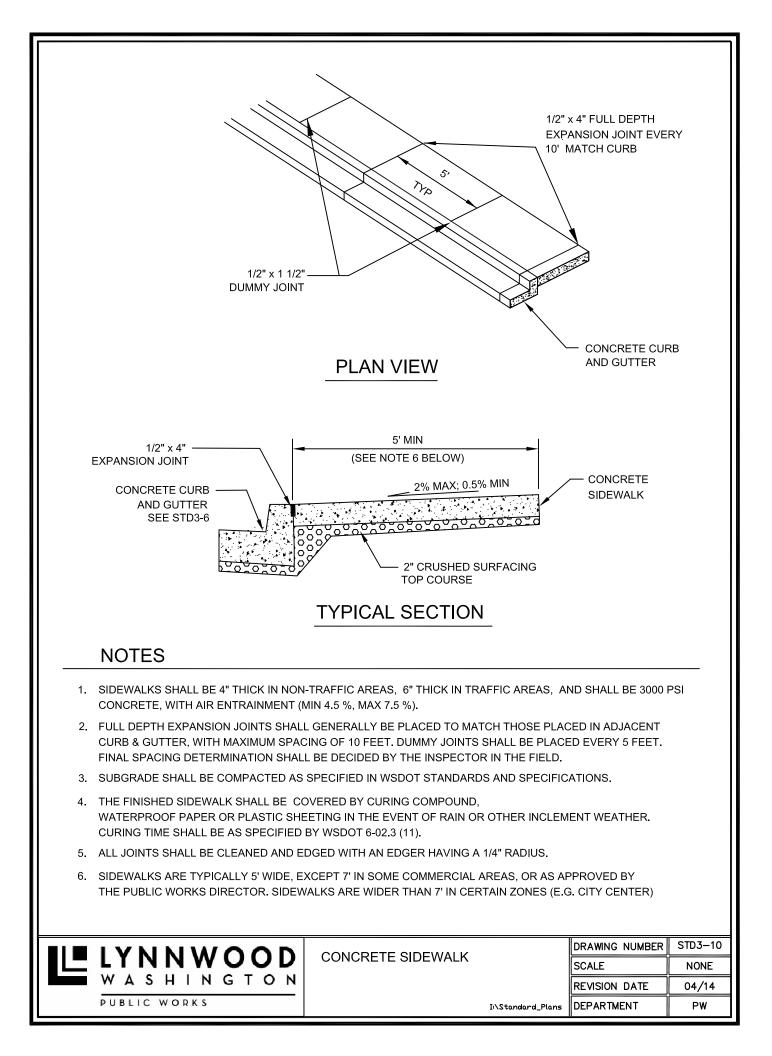
43 44

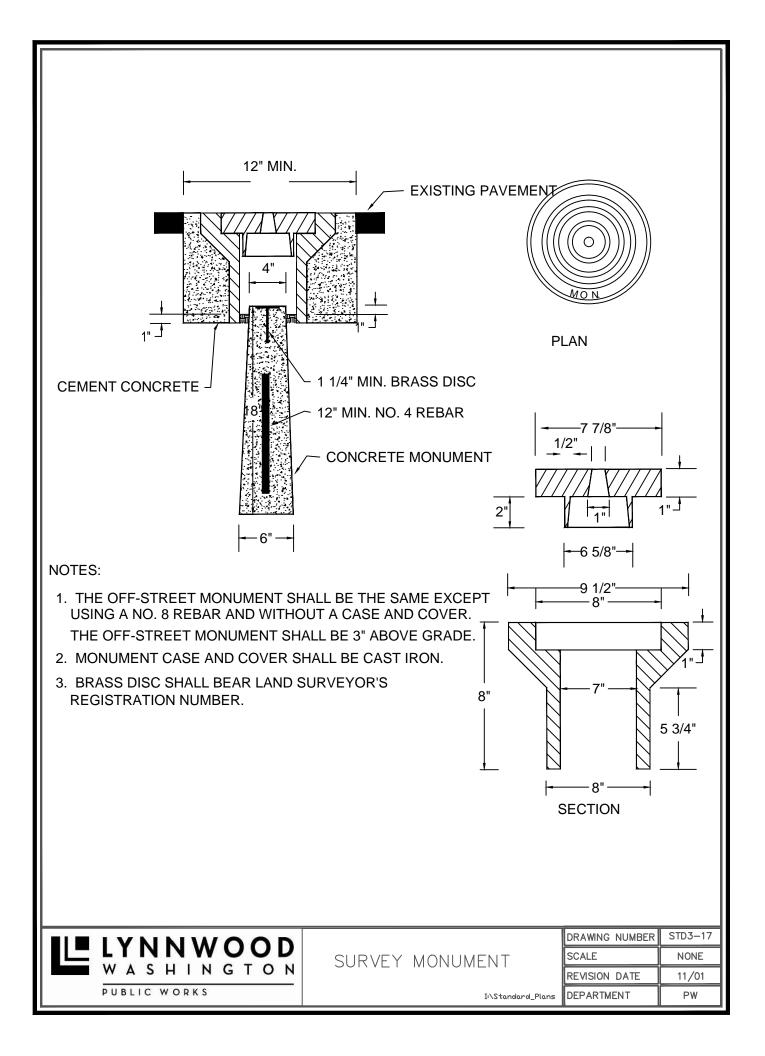
END DIVISION 9

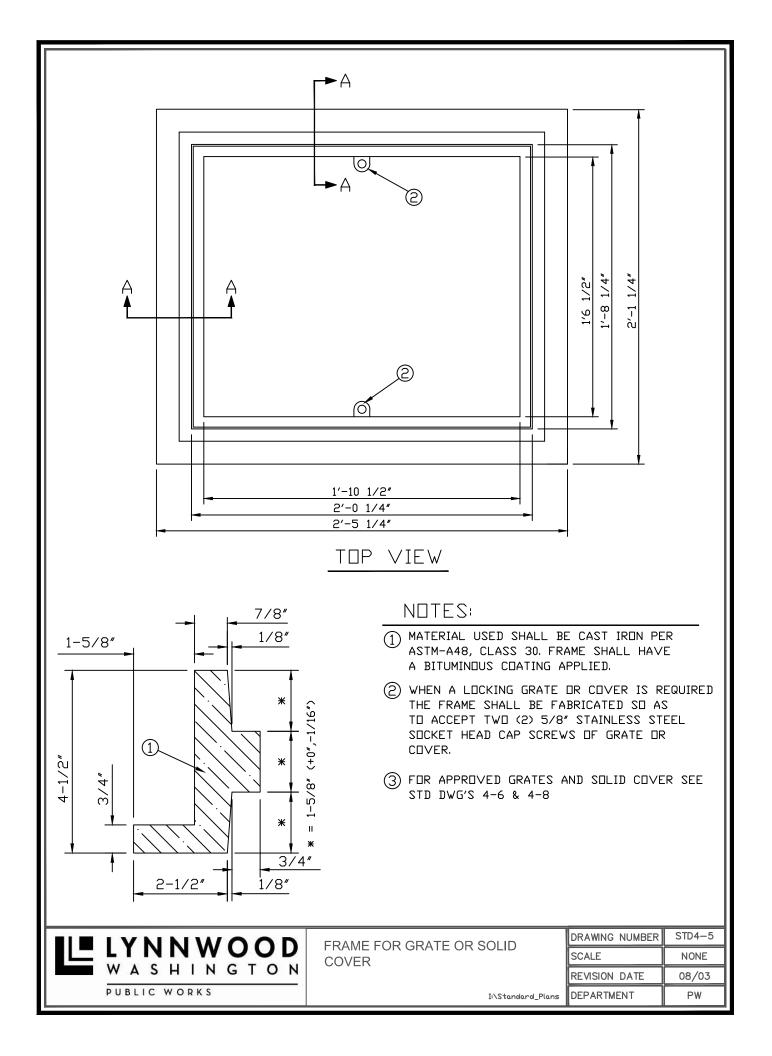
City of Lynnwood 2019 Overlay and Curb Ramp Project

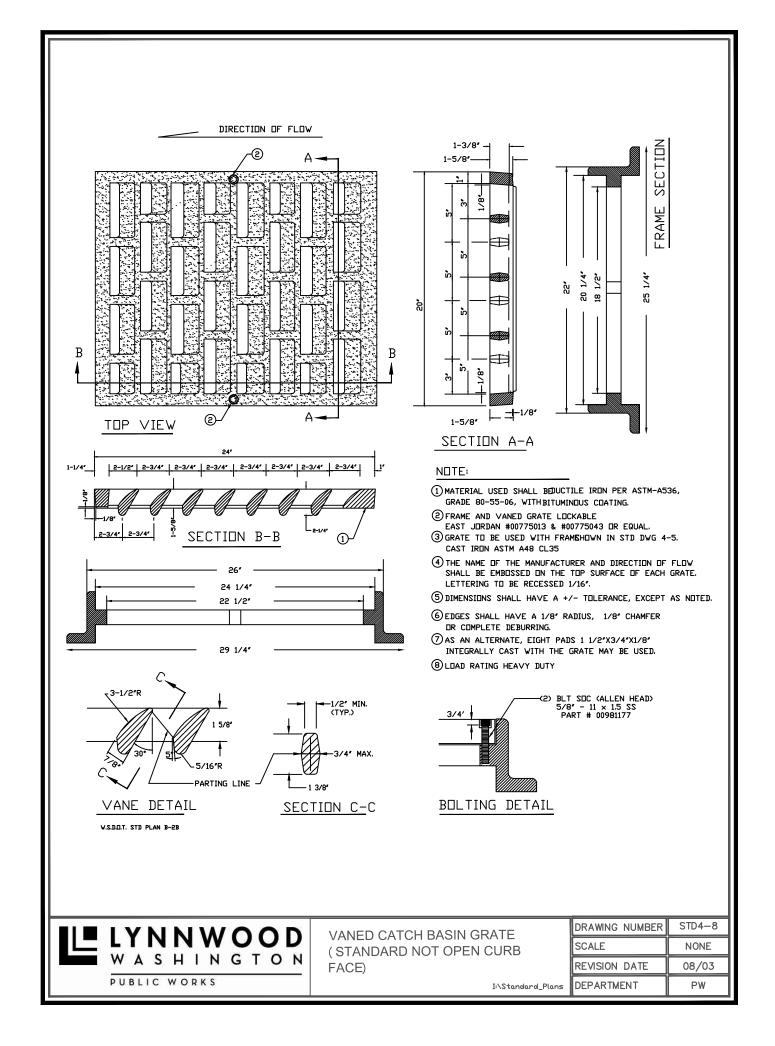
SECTION 10 STANDARD PLANS

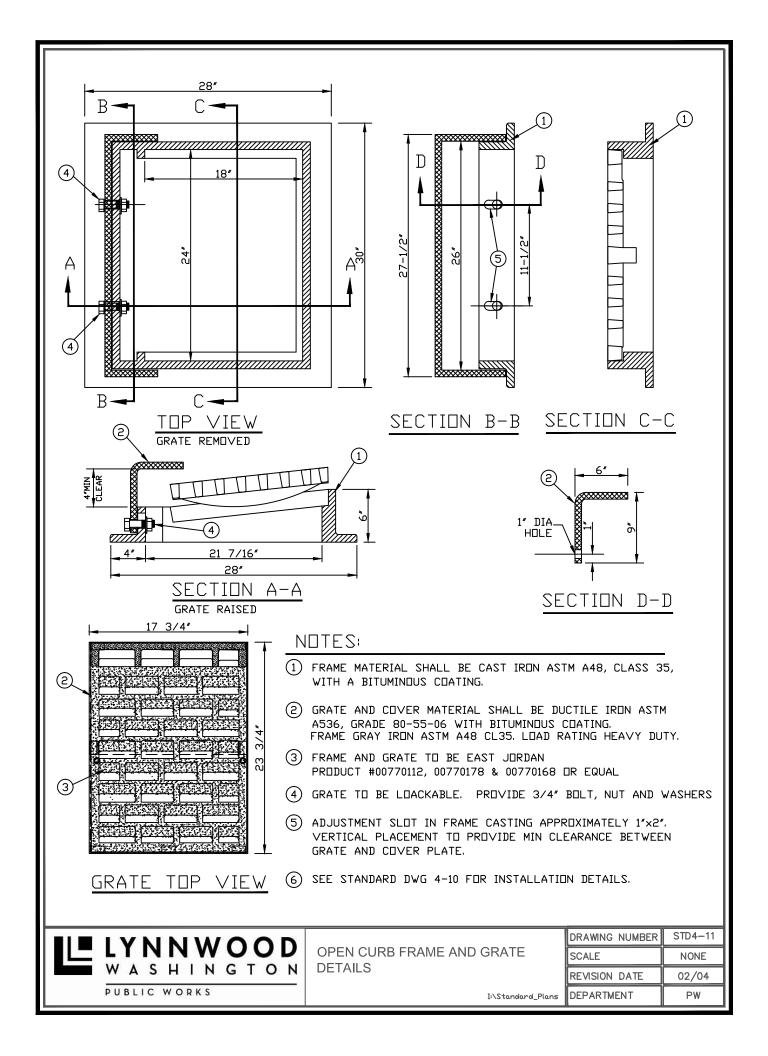


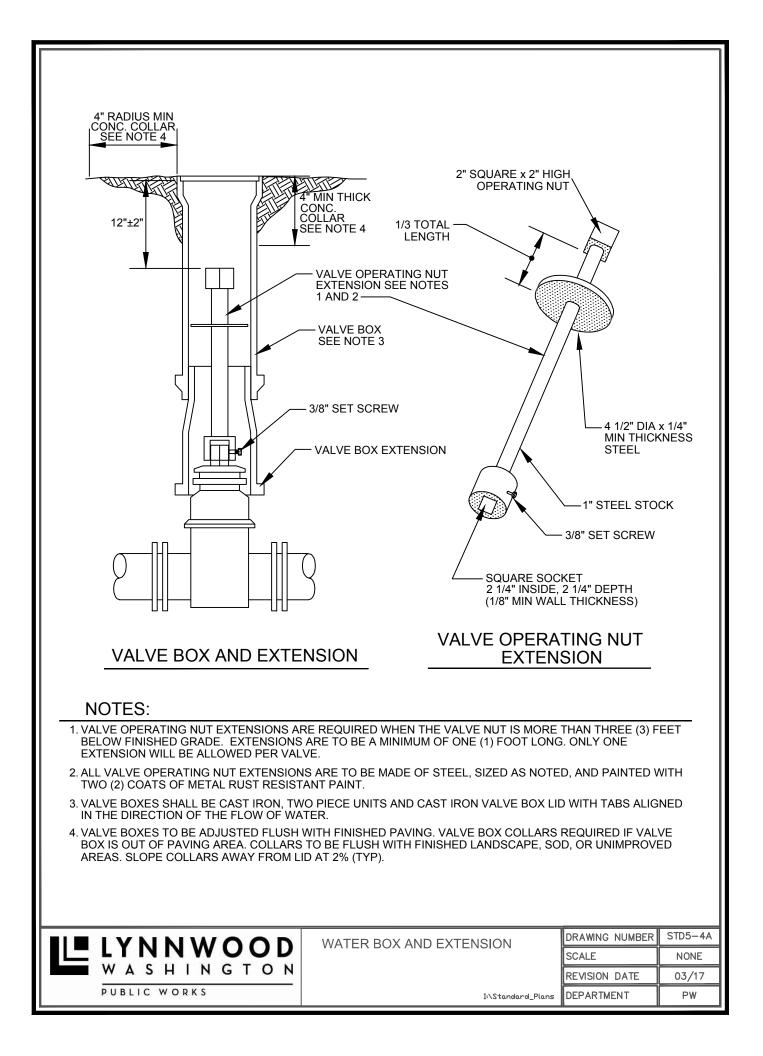


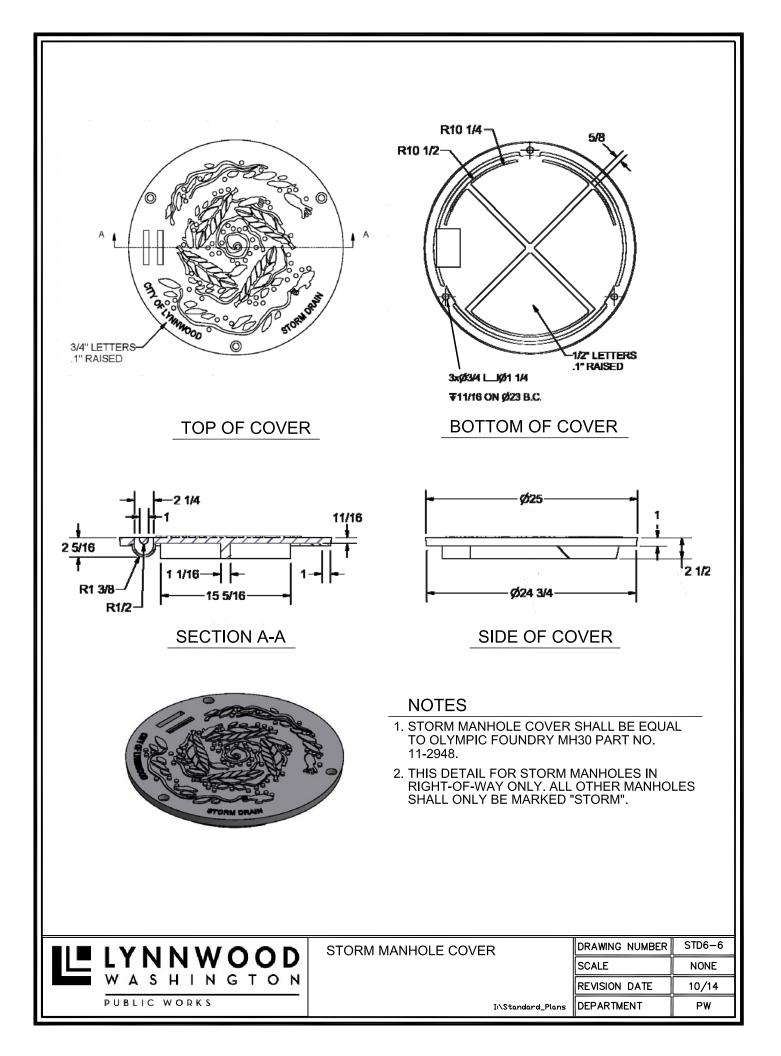


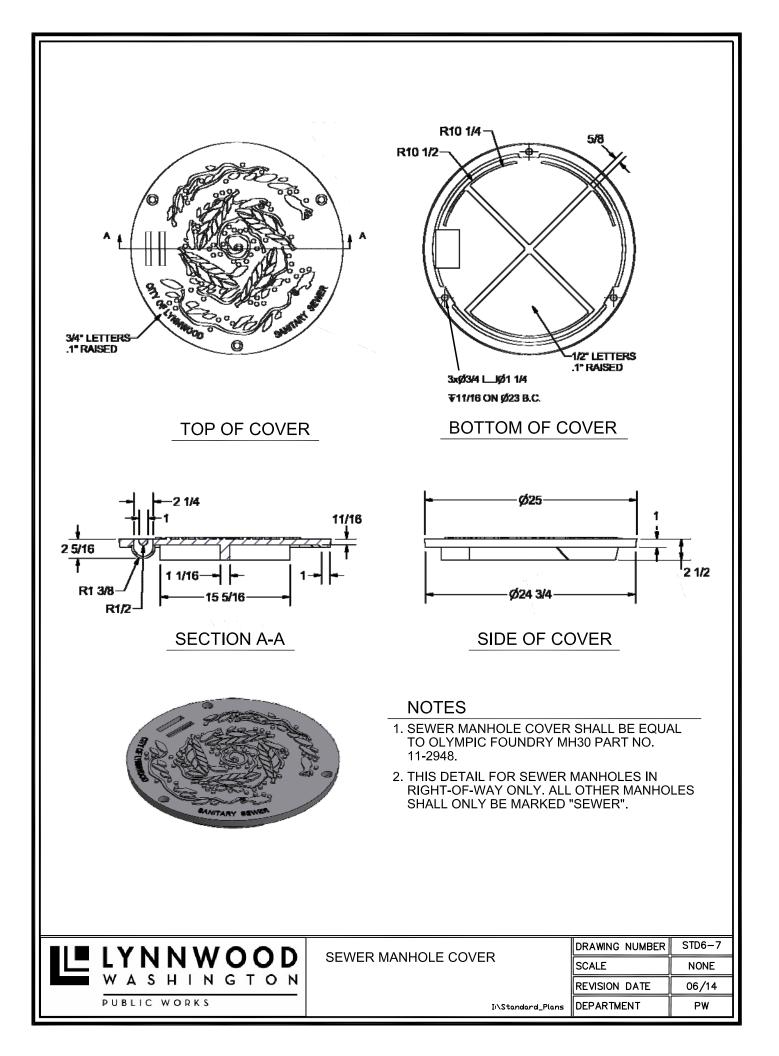


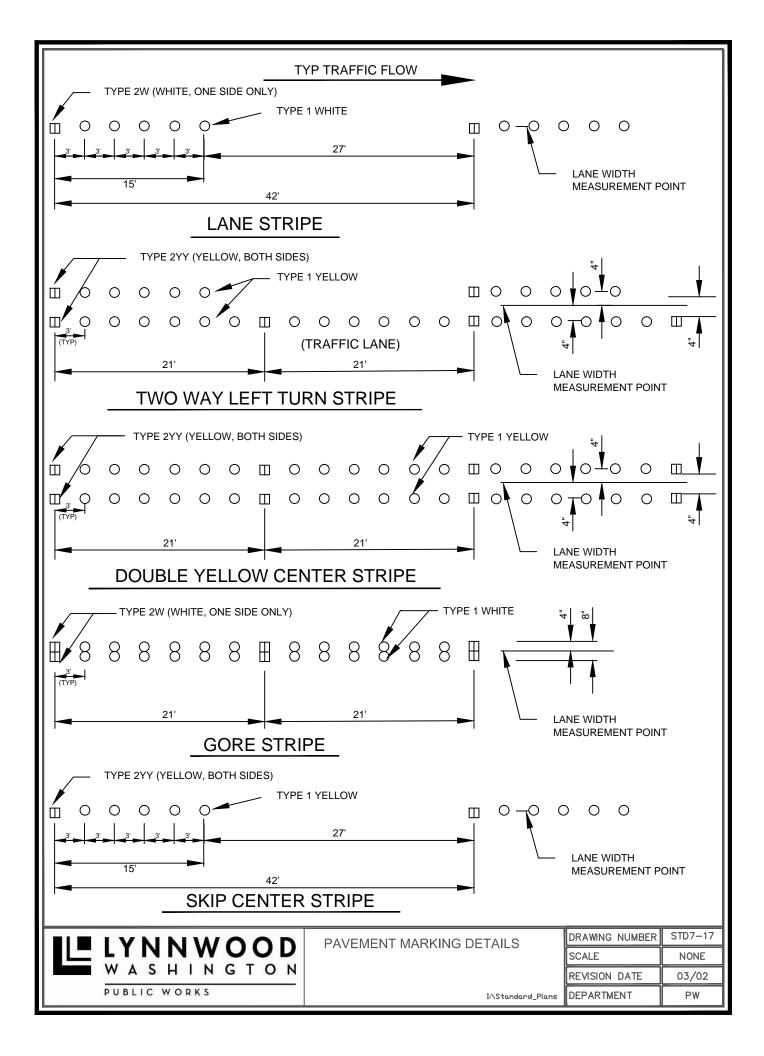


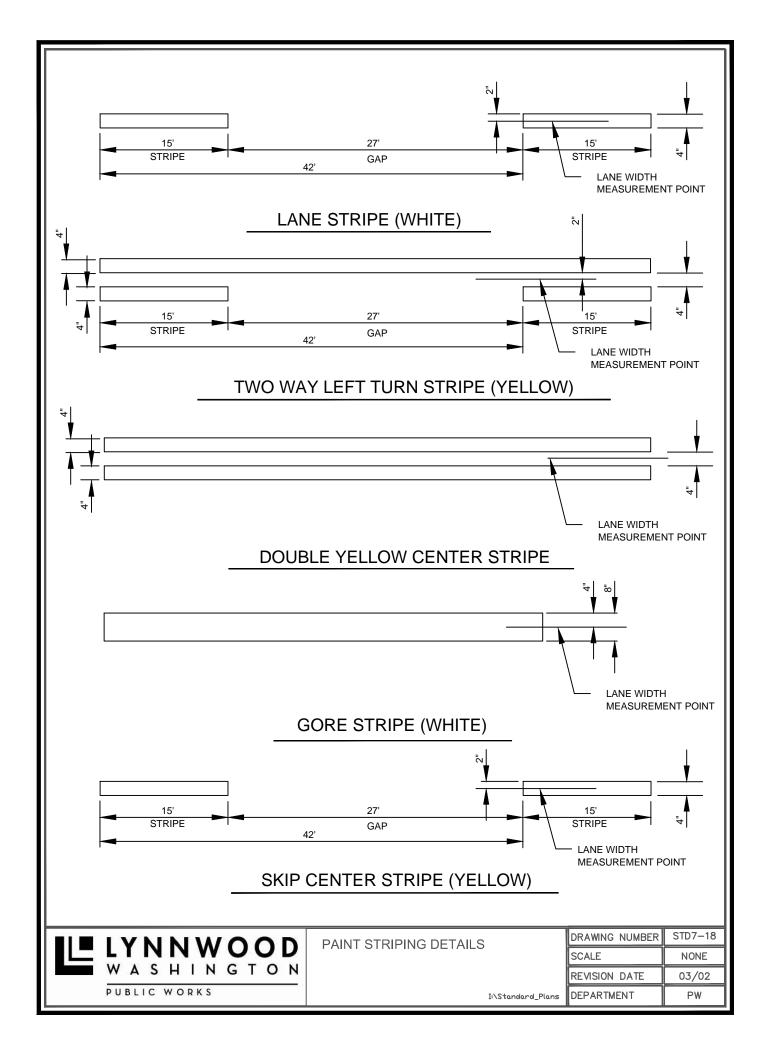


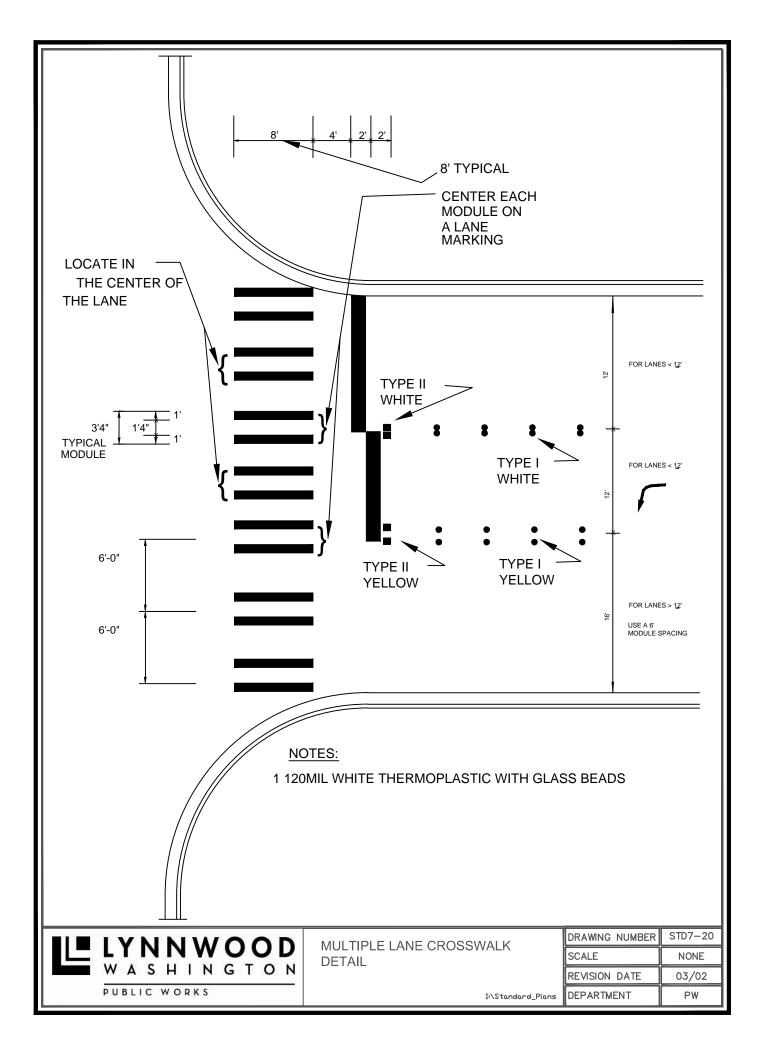


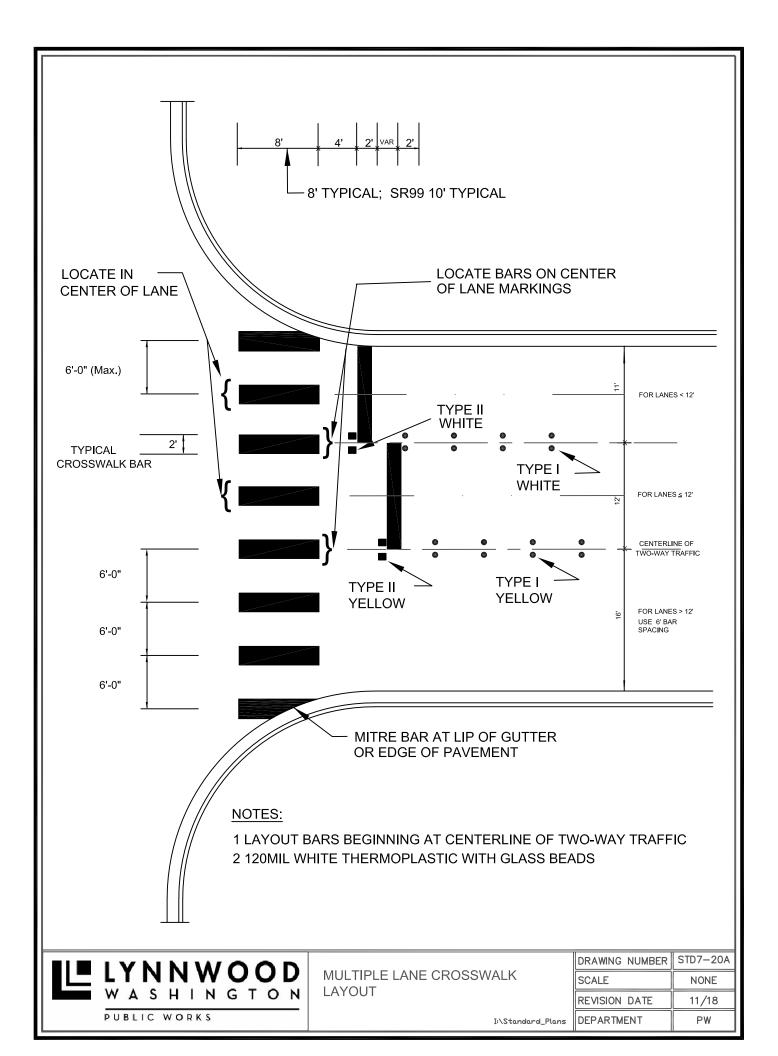




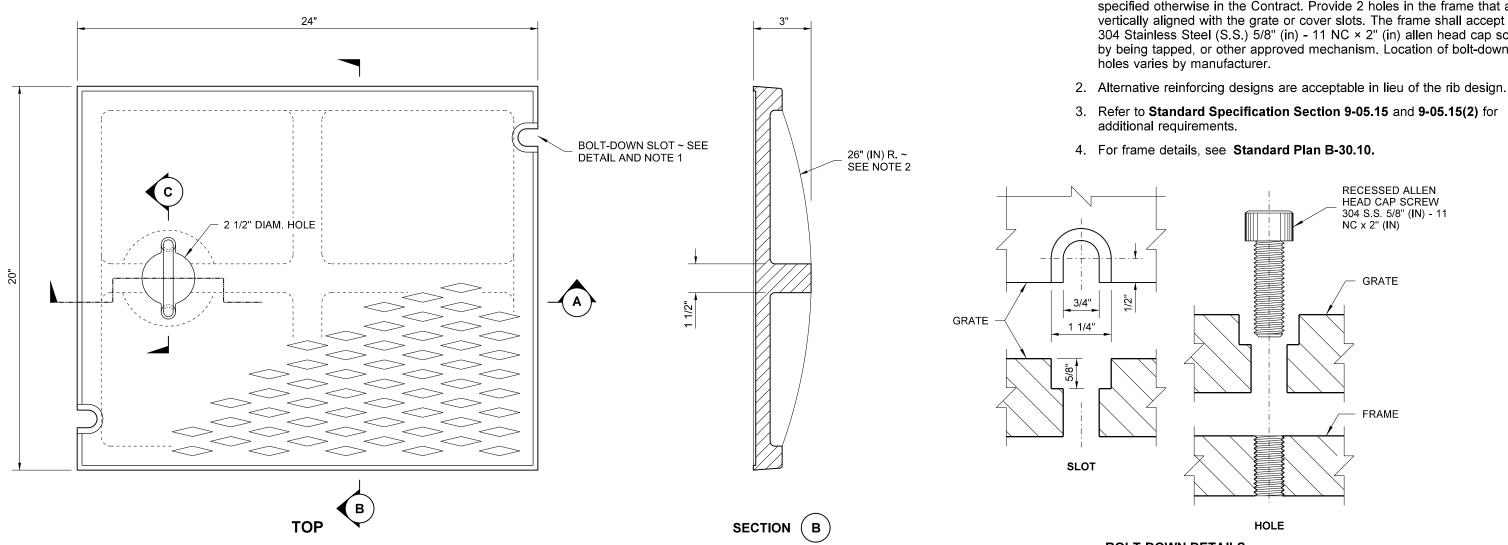


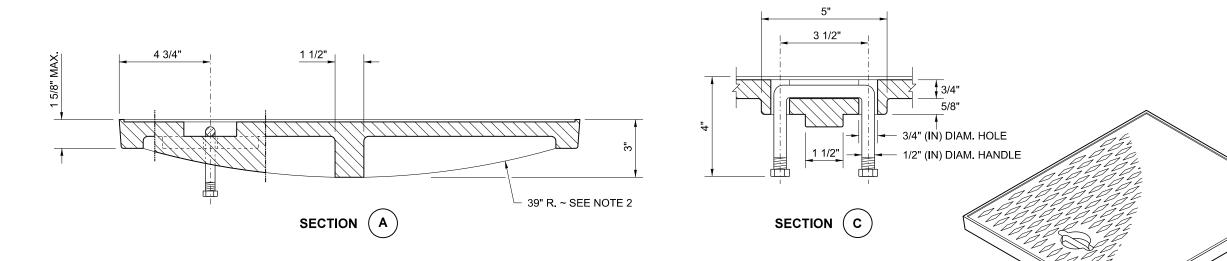












ISOMETRIC

NOTES

1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8'' (in) - 11 NC × 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down

BOLT-DOWN DETAILS SEE NOTE 1



RECTANGULAR SOLID METAL COVER

STANDARD PLAN B-30.20-04

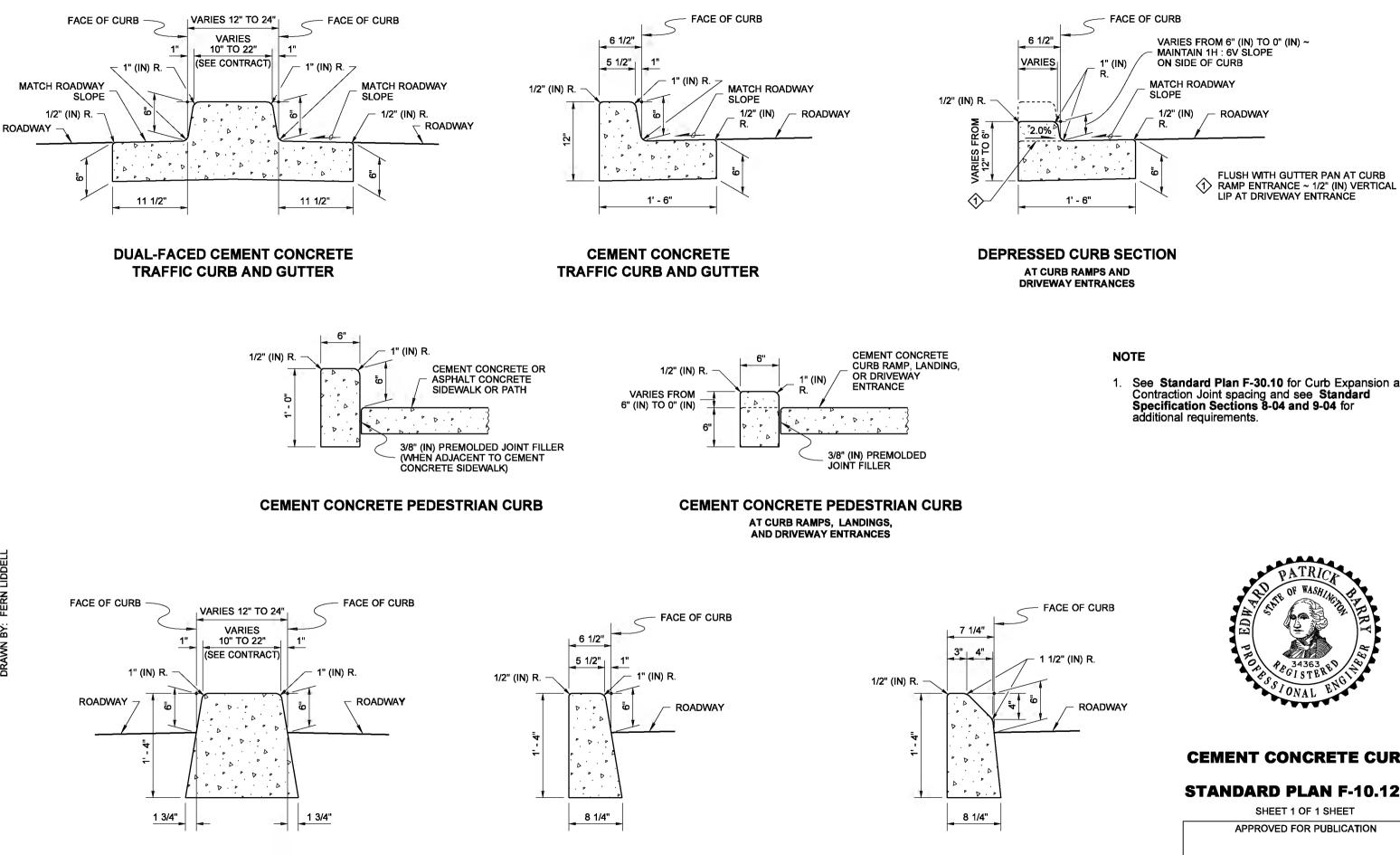
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION



STATE DESIGN ENGINEER

Washington State Department of Transportation



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB **CEMENT CONCRETE TRAFFIC CURB**

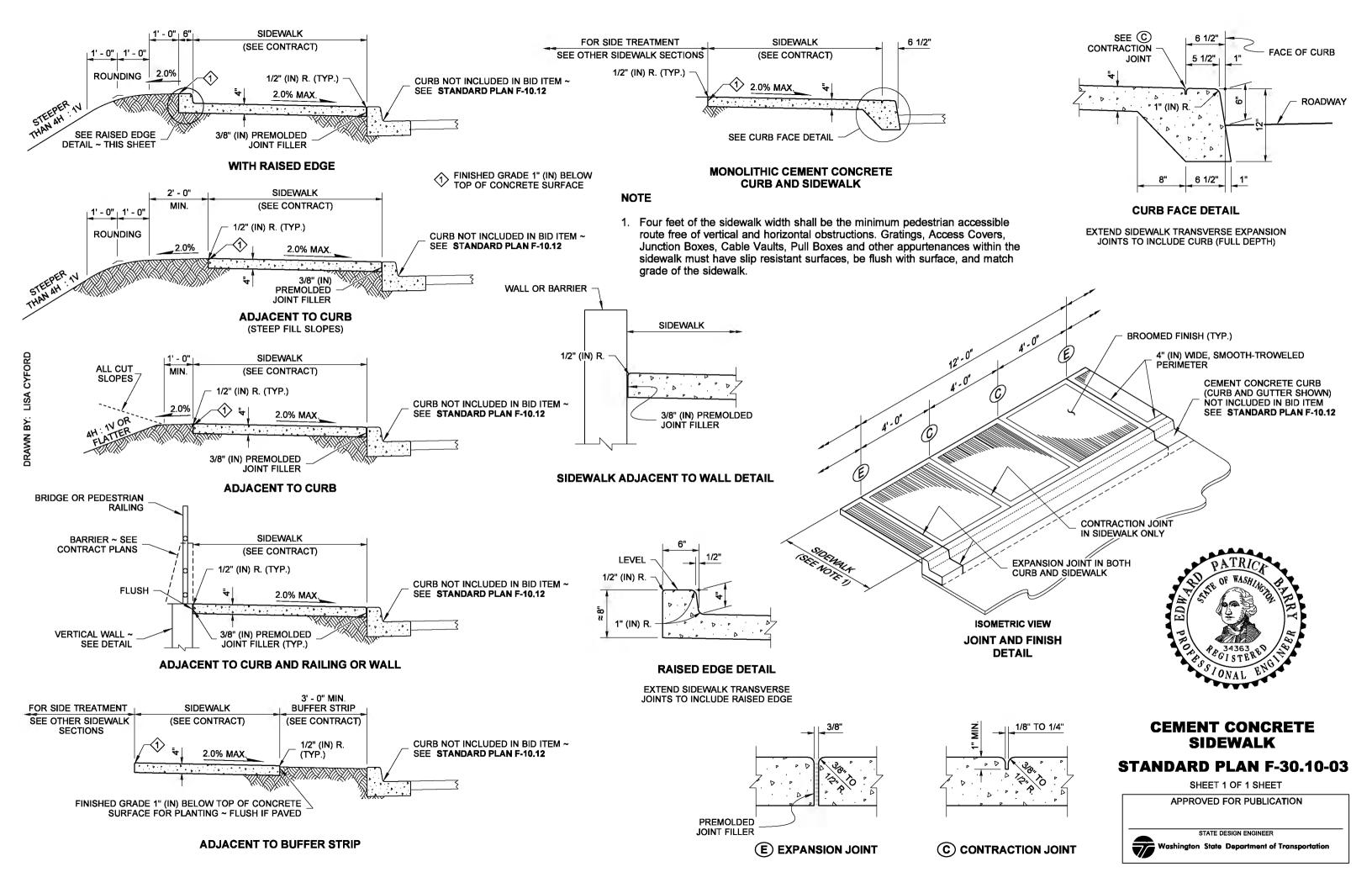
MOUNTABLE CEMENT CONCRETE TRAFFIC CURB

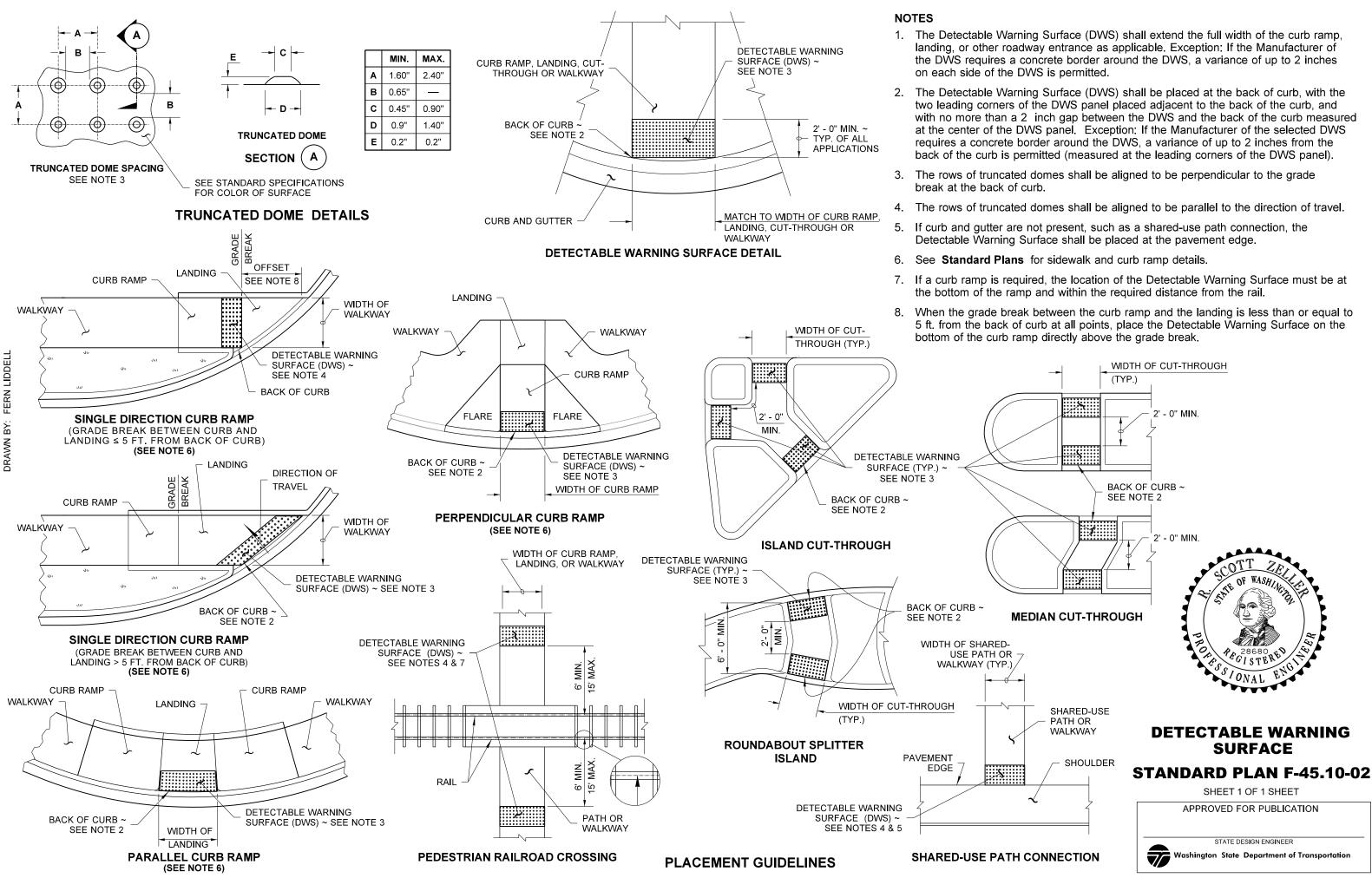
See Standard Plan F-30.10 for Curb Expansion and

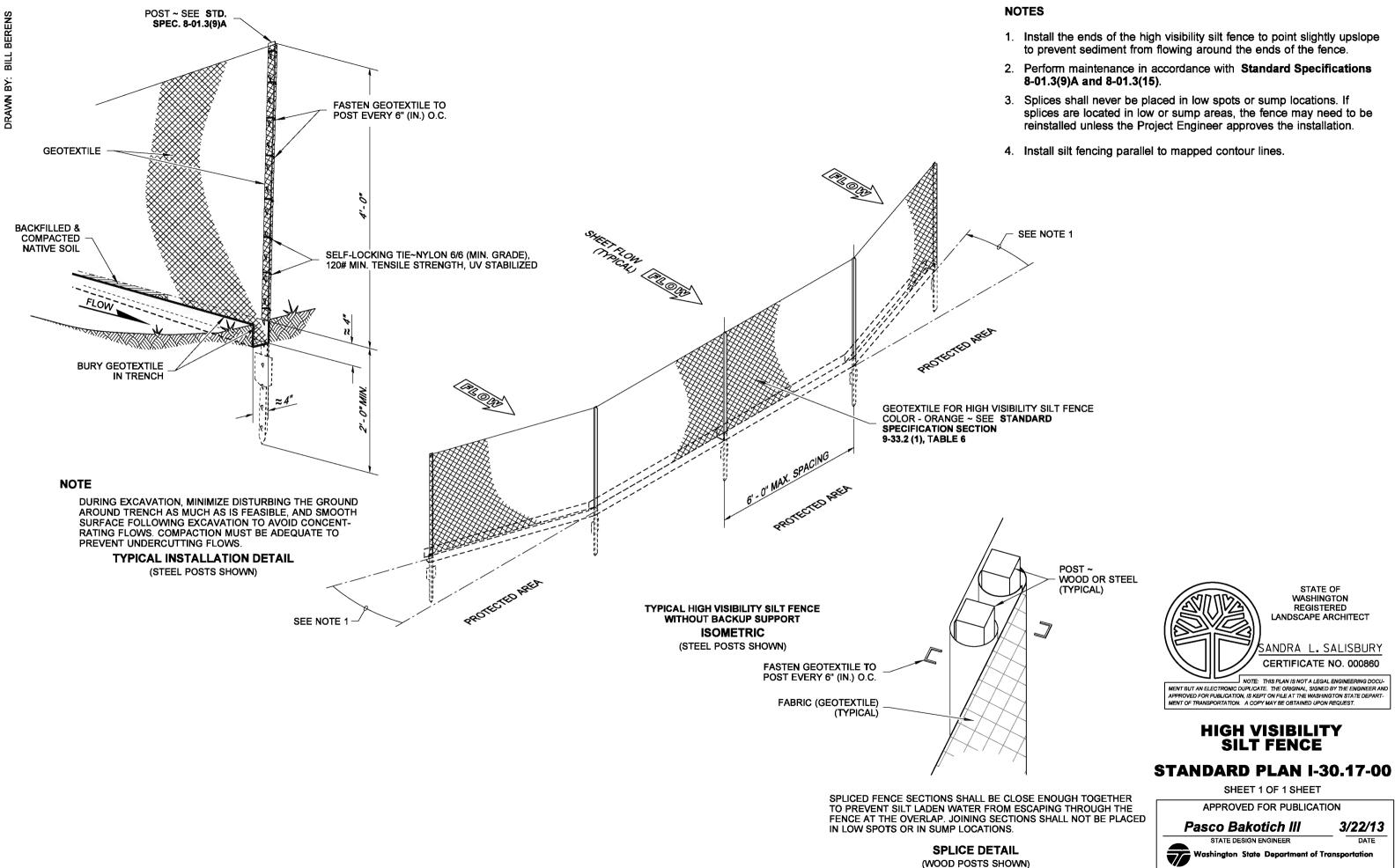
CEMENT CONCRETE CURBS

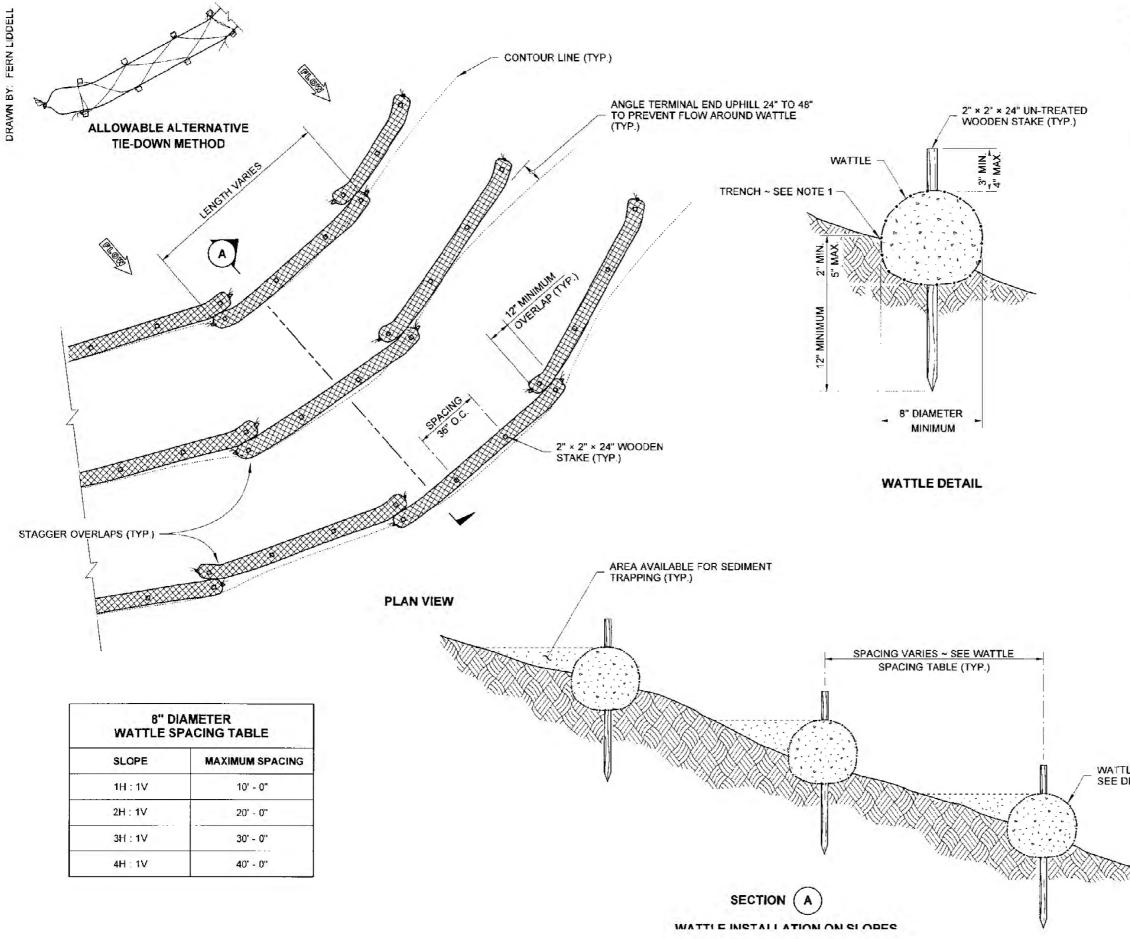
STANDARD PLAN F-10.12-03





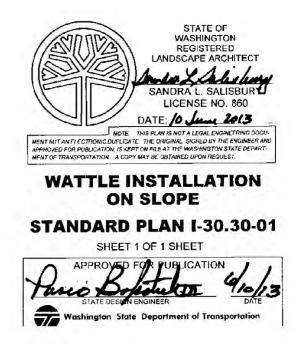






NOTES

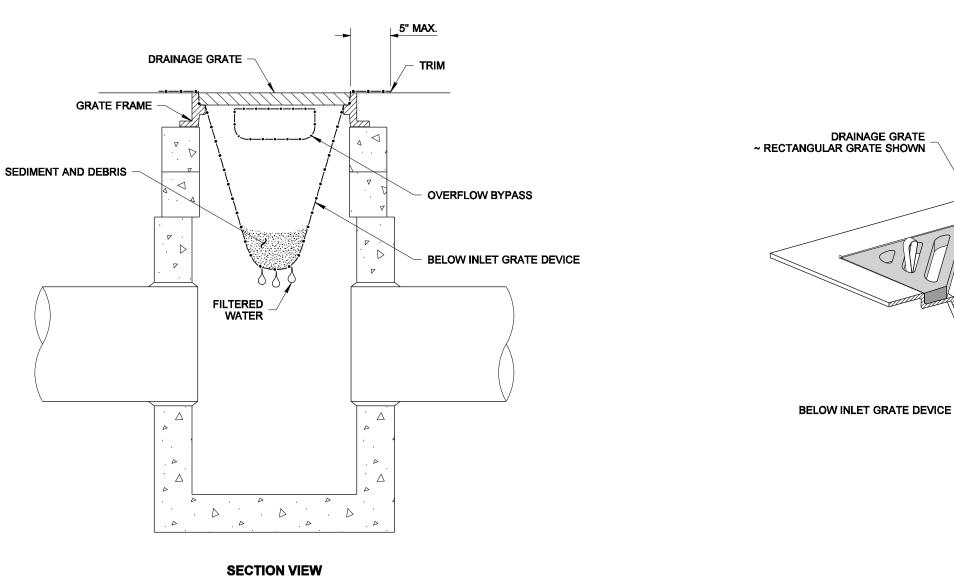
- Wattles shall be in accordance with Standard Specification 9-14.5(5). Install Wattles along contours. Installation shall be in accordance with Standard Specification 8-01.3(10).
- Securely knot each end of Wattle. Overlap adjacent Wattle ends 12" behind one another and securely tie together.
- Compact excavated soil and trenches to prevent undercutting. Additional staking may be necessary to prevent undercutting.
- 4. Install Wattle perpendicular to flow along contours.
- Wattles shall be inspected regularly, and immediately after a rainfall produces runoff, to ensure they remain thoroughly entrenched and in contact with the soil.
- 6. Perform maintenance in accordance with Standard Specification 8-01.3(15).
- 7. Refer to Standard Specification 8-01.3(16) for removal.



WATTLE (TYP.) -SEE DETAIL

NOTES

- will service.



NOT TO SCALE

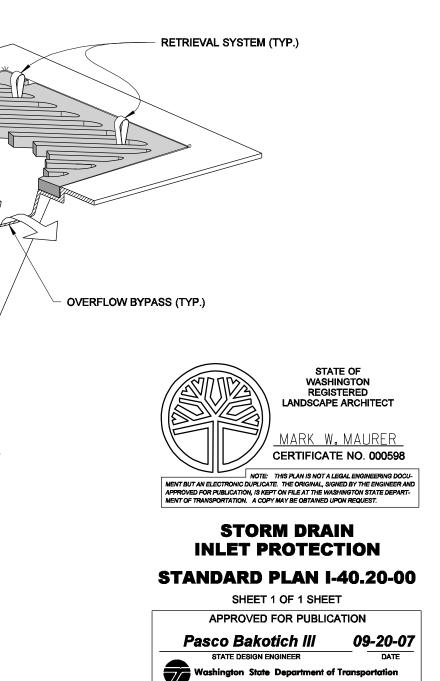
ISOMETRIC VIEW

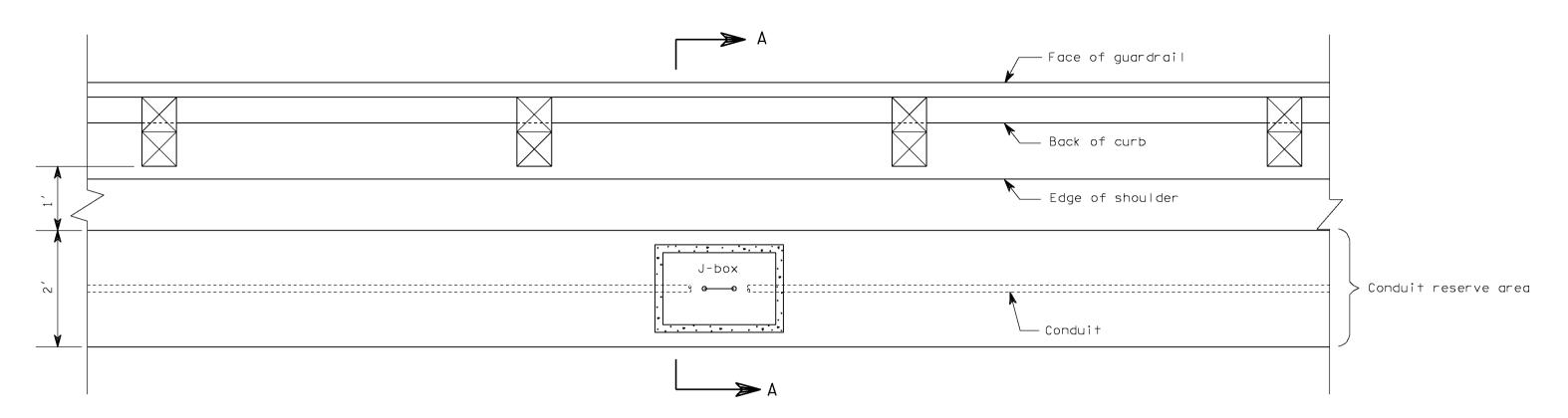
1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it

2. The BIGD shall have a built-in high-flow relief system (overflow bypass).

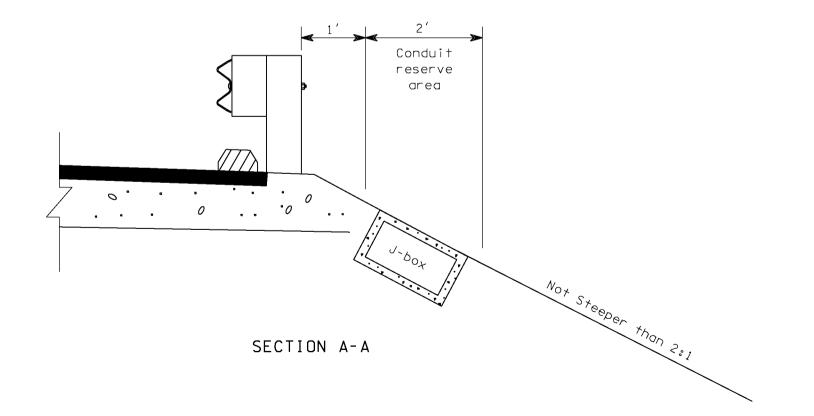
3. The retrieval system must allow removal of the BIGD without spilling the collected material.

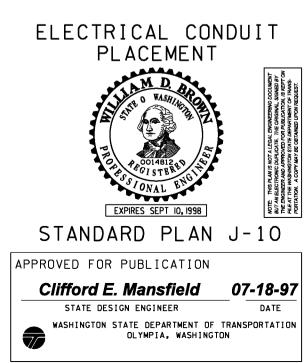
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).

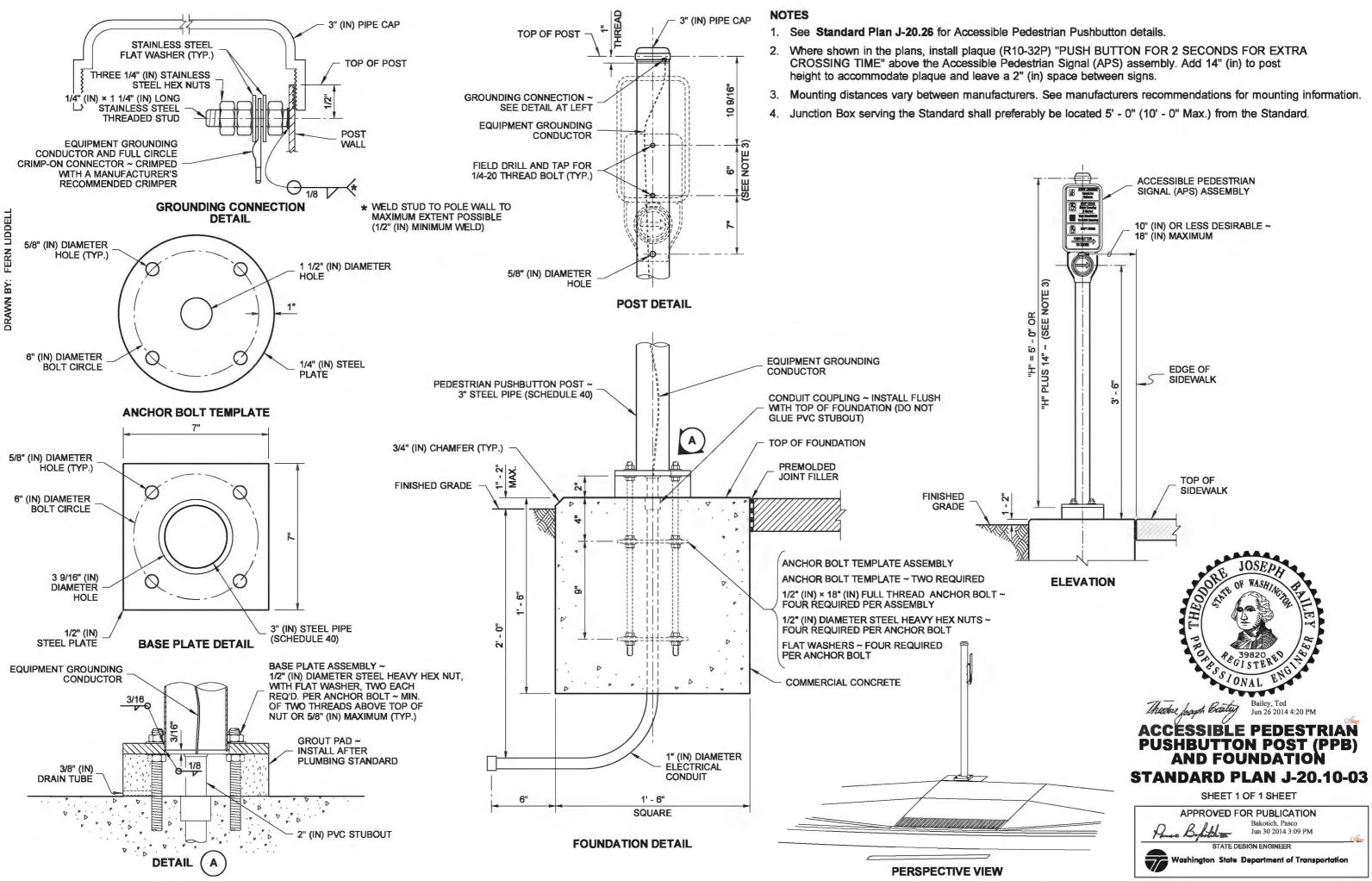


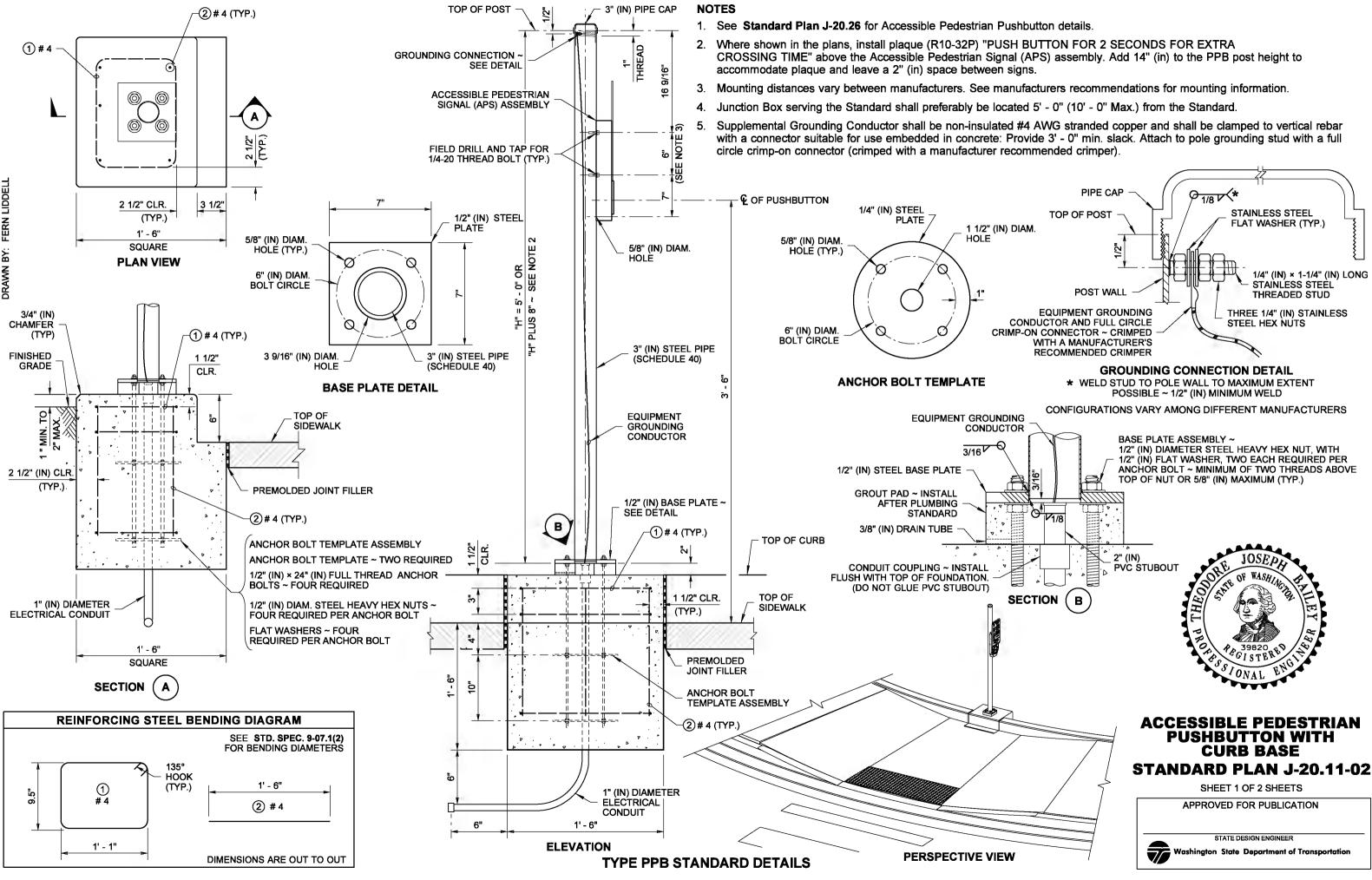


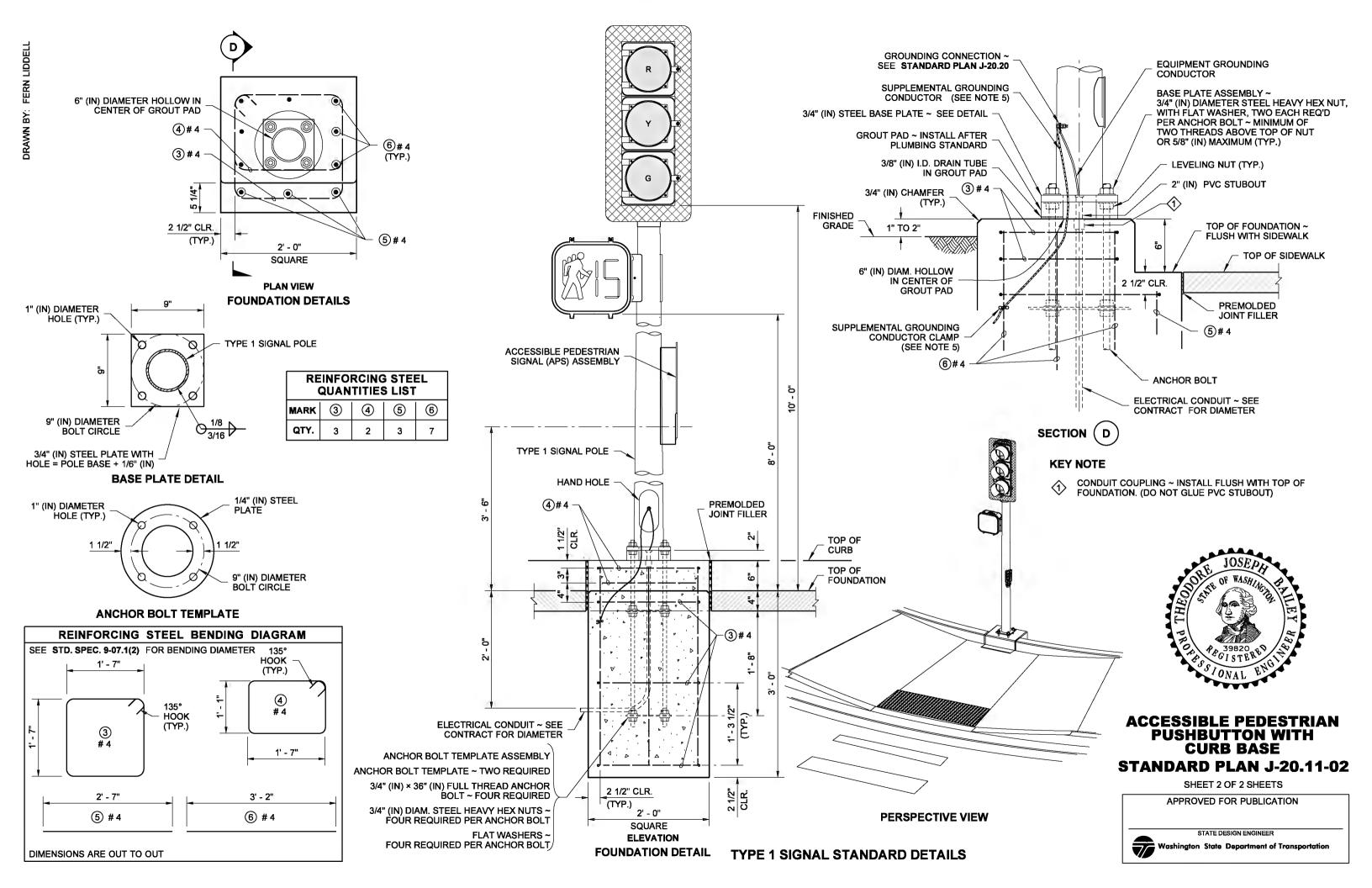
PLAN

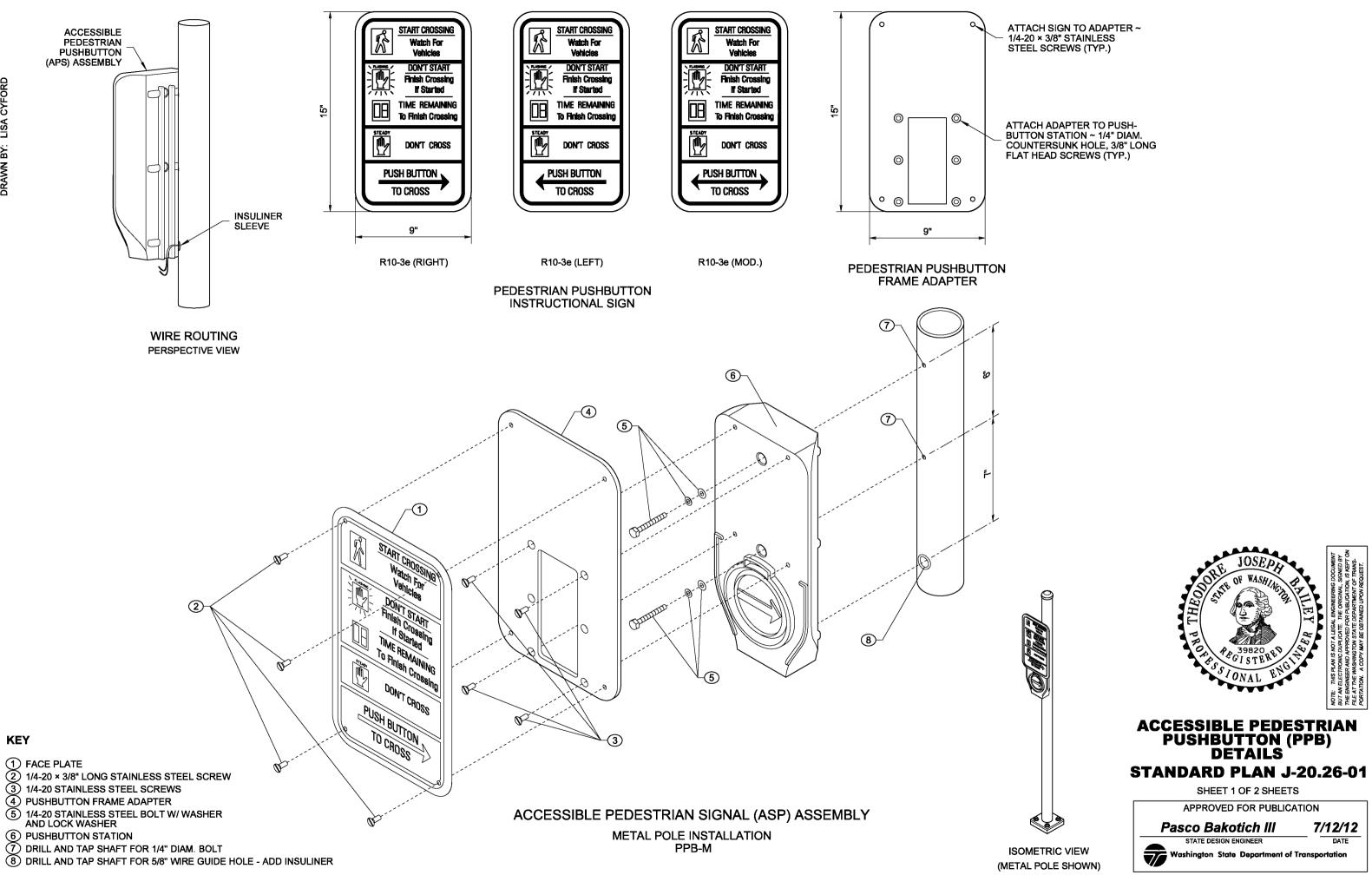




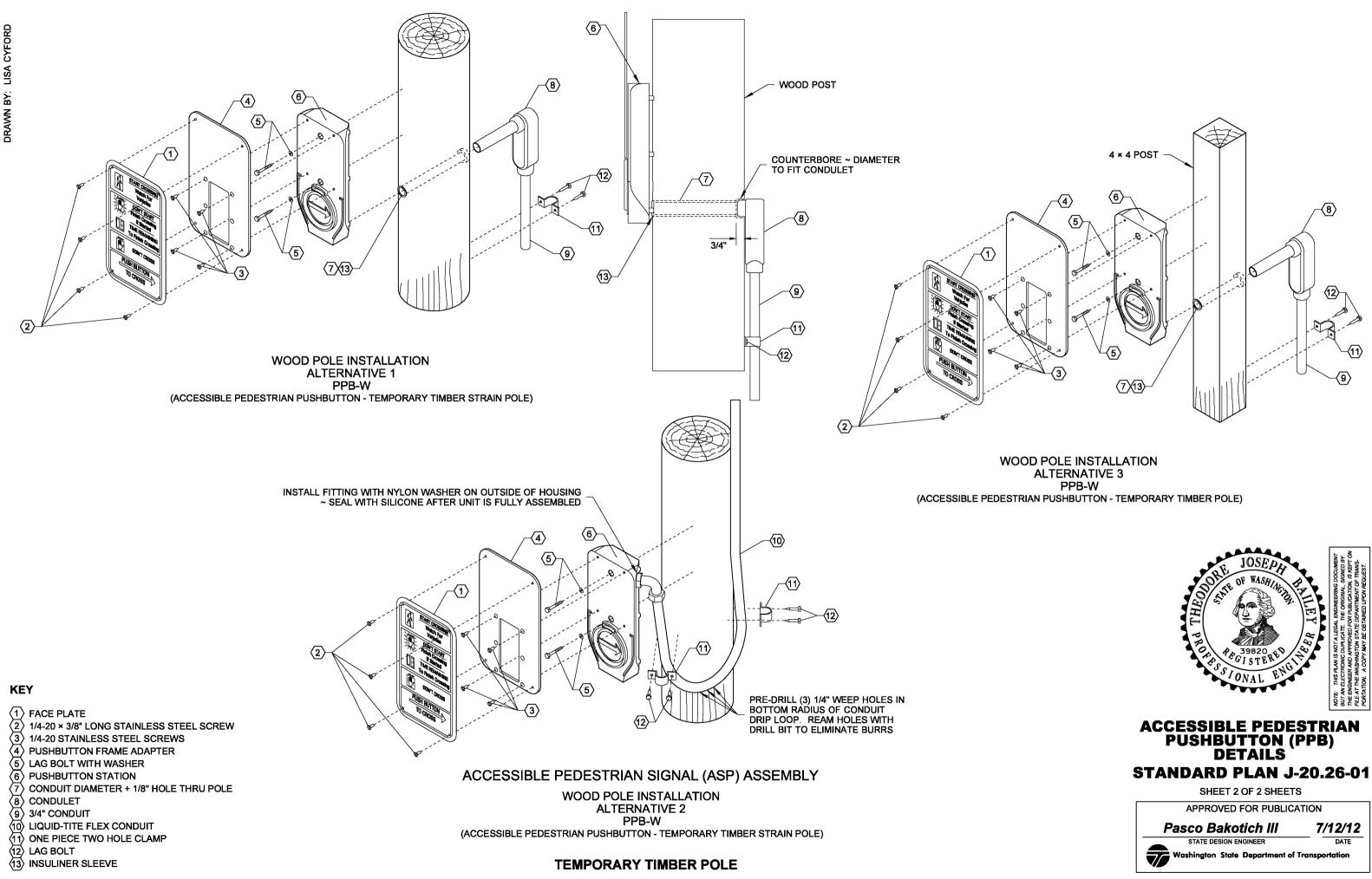


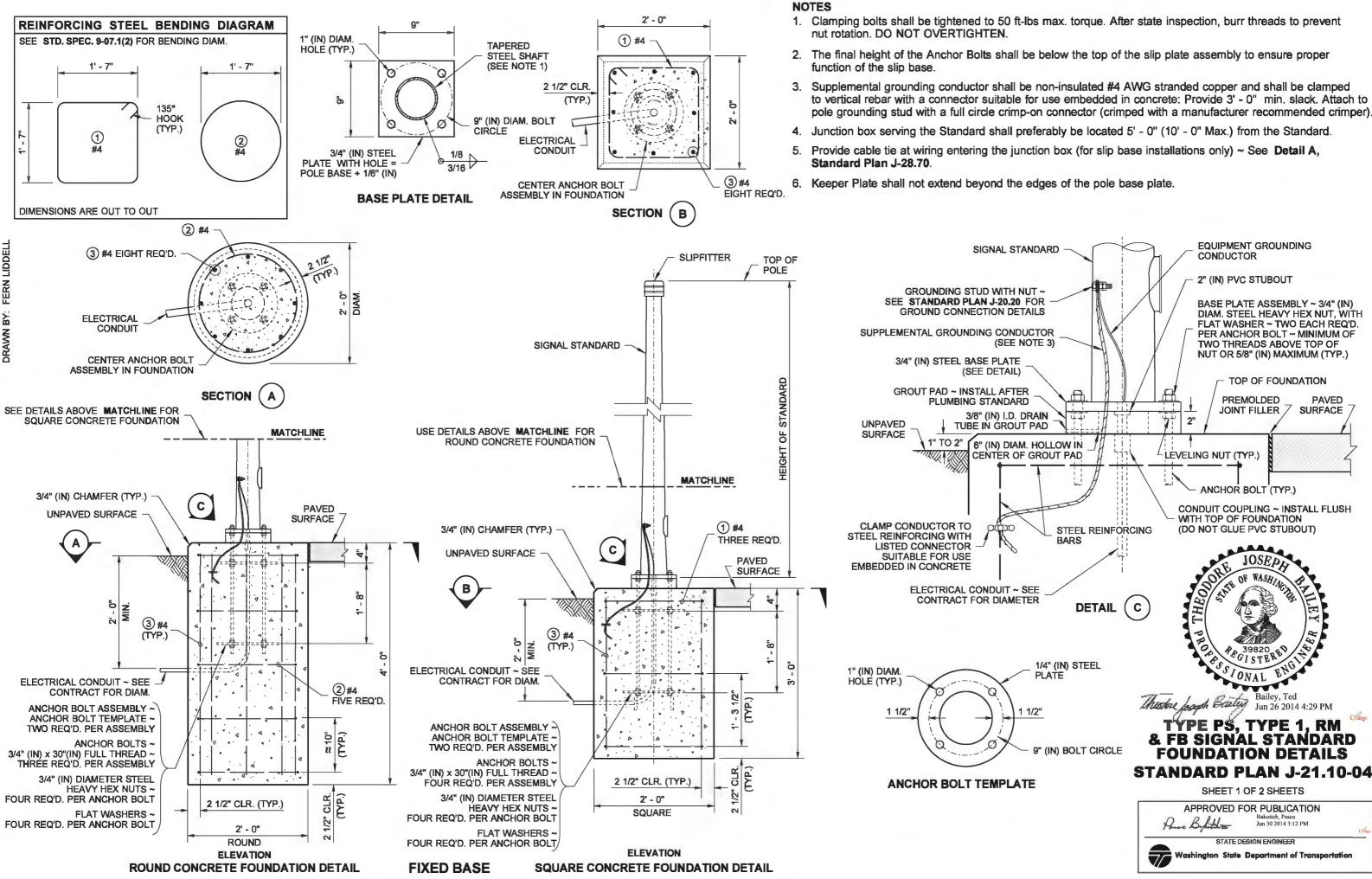


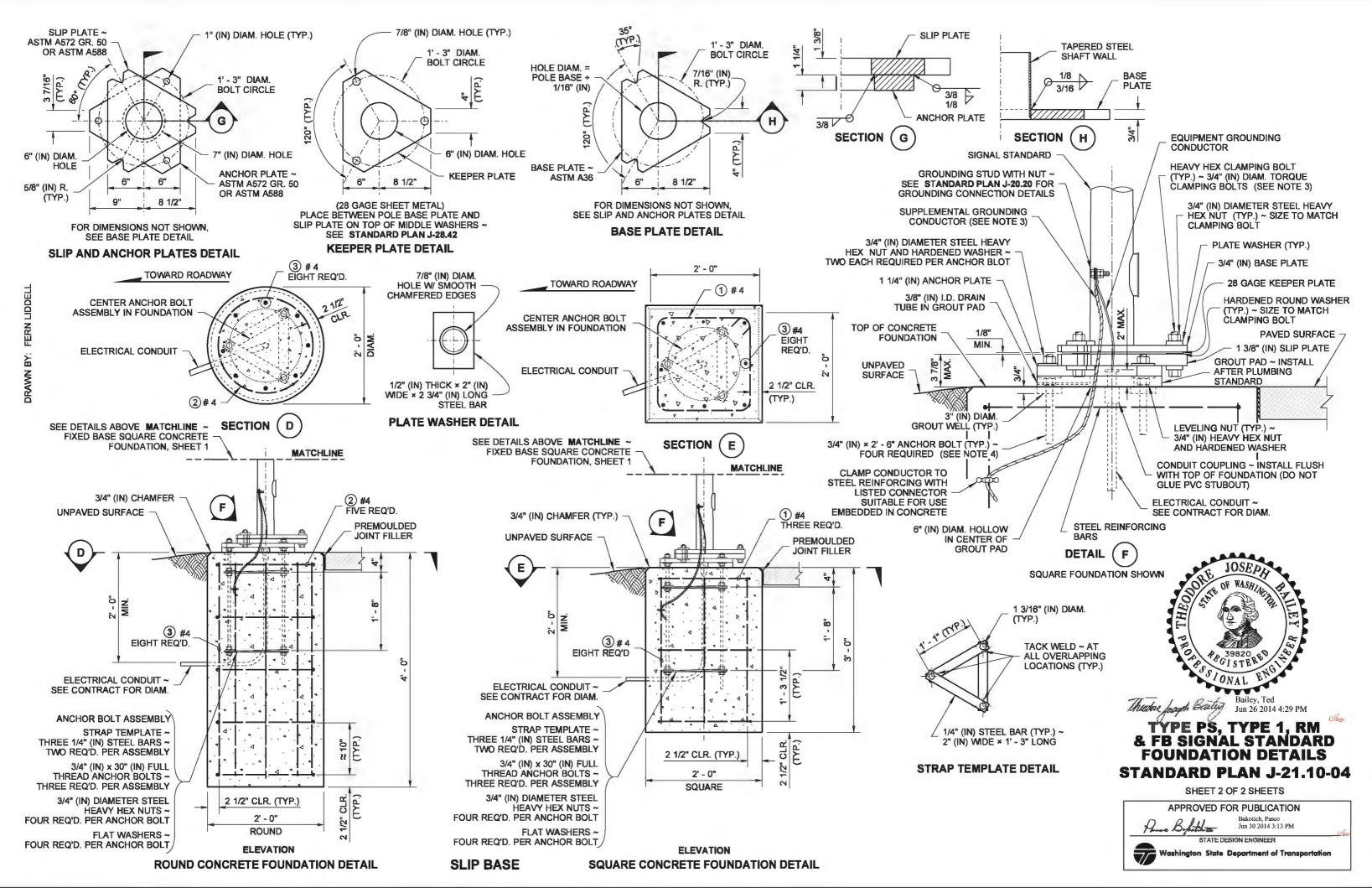


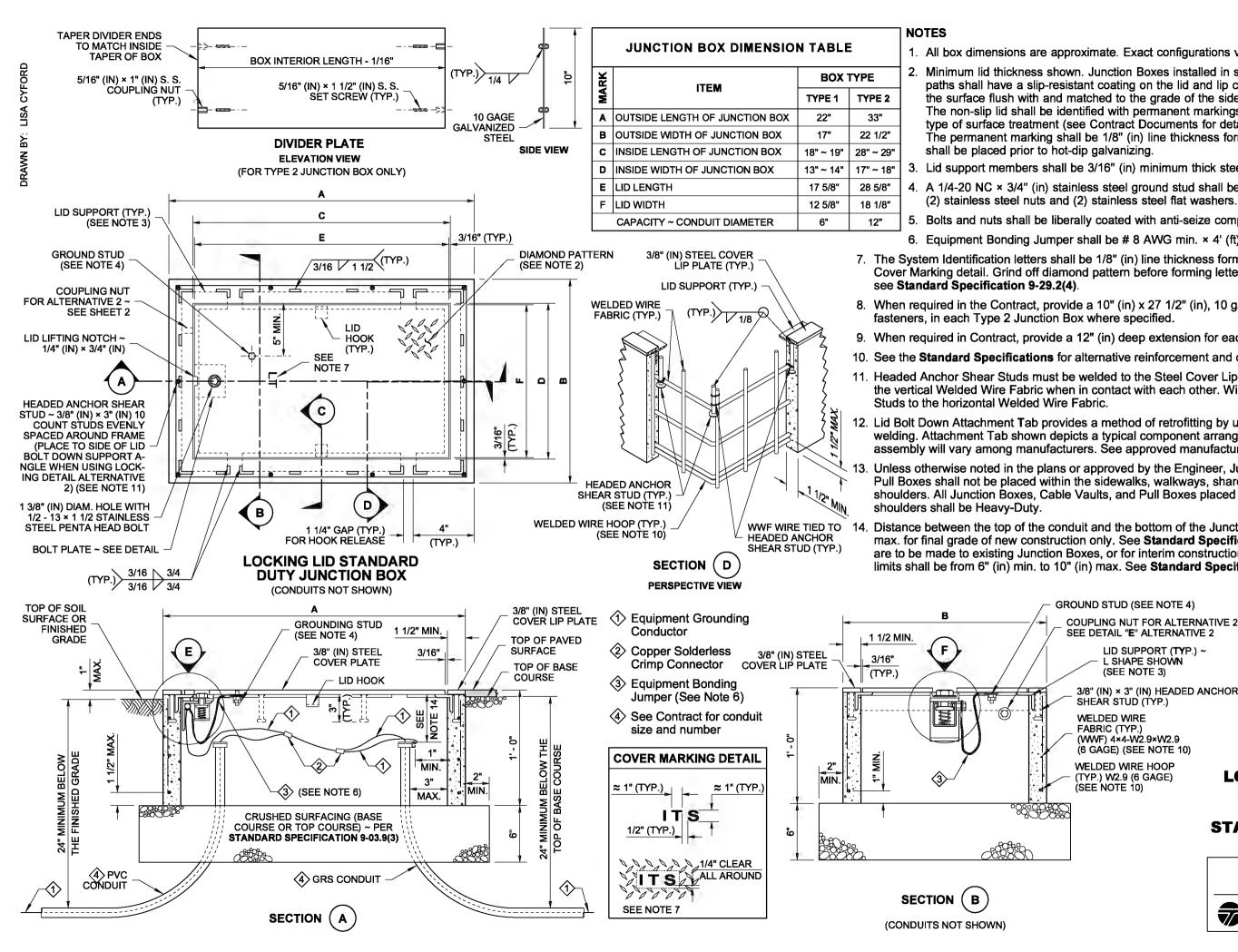


LISA CYFORD DRAWN BY:









1. All box dimensions are approximate. Exact configurations vary among manufacturers.

2. Minimum lid thickness shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate, and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" (in) line thickness formed with a mild steel weld bead and

3. Lid support members shall be 3/16" (in) minimum thick steel C. L. or T shape, welded to the frame.

4. A 1/4-20 NC × 3/4" (in) stainless steel ground stud shall be welded to the bottom of the lid; include

5. Bolts and nuts shall be liberally coated with anti-seize compound.

6. Equipment Bonding Jumper shall be # 8 AWG min. × 4' (ft) of tinned braided copper.

7. The System Identification letters shall be 1/8" (in) line thickness formed with a mild steel weld bead. See Cover Marking detail. Grind off diamond pattern before forming letters. For System Identification details.

8. When required in the Contract, provide a 10" (in) x 27 1/2" (in), 10 gage divider plate, complete, with

9. When required in Contract, provide a 12" (in) deep extension for each Type 2 Junction Box where specified.

10. See the Standard Specifications for alternative reinforcement and class of concrete.

11. Headed Anchor Shear Studs must be welded to the Steel Cover Lip Plate and wire tied in two places to the vertical Welded Wire Fabric when in contact with each other. Wire tie all other Headed Anchor Shear

12. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangement; actual configurations of assembly will vary among manufacturers. See approved manufacturers' shop drawings for specifics.

13. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults, and Pull Boxes shall not be placed within the sidewalks, walkways, shared use paths, traveled ways or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved

14. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (in) min. to 8" (in) max, for final grade of new construction only. See Standard Specification 8-20.3(5). Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (in) min. to 10" (in) max. See Standard Specification 8-20.3(6).

GROUND STUD (SEE NOTE 4)

COUPLING NUT FOR ALTERNATIVE 2 ~ SEE DETAIL "E" ALTERNATIVE 2

> LID SUPPORT (TYP.) ~ L SHAPE SHOWN (SEE NOTE 3)

3/8" (IN) × 3" (IN) HEADED ANCHOR SHEAR STUD (TYP.)

WELDED WIRE FABRIC (TYP.) (WWF) 4×4-W2.9×W2.9 (6 GAGE) (SEE NOTE 10)

WELDED WIRE HOOP (TYP.) W2.9 (6 GAGE) (SEE NOTE 10)



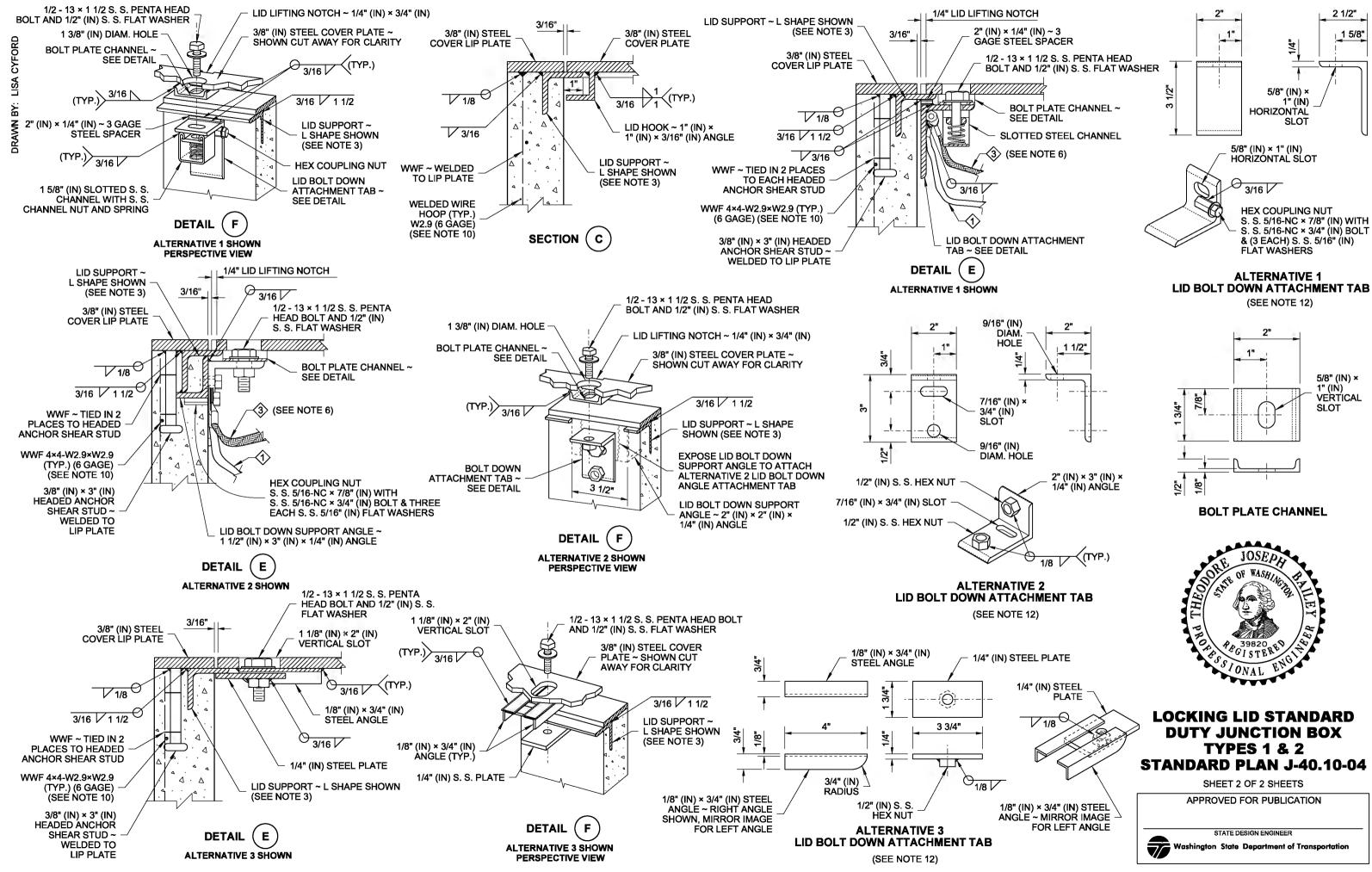
LOCKING LID STANDARD **DUTY JUNCTION BOX TYPES 1 & 2** STANDARD PLAN J-40.10-04

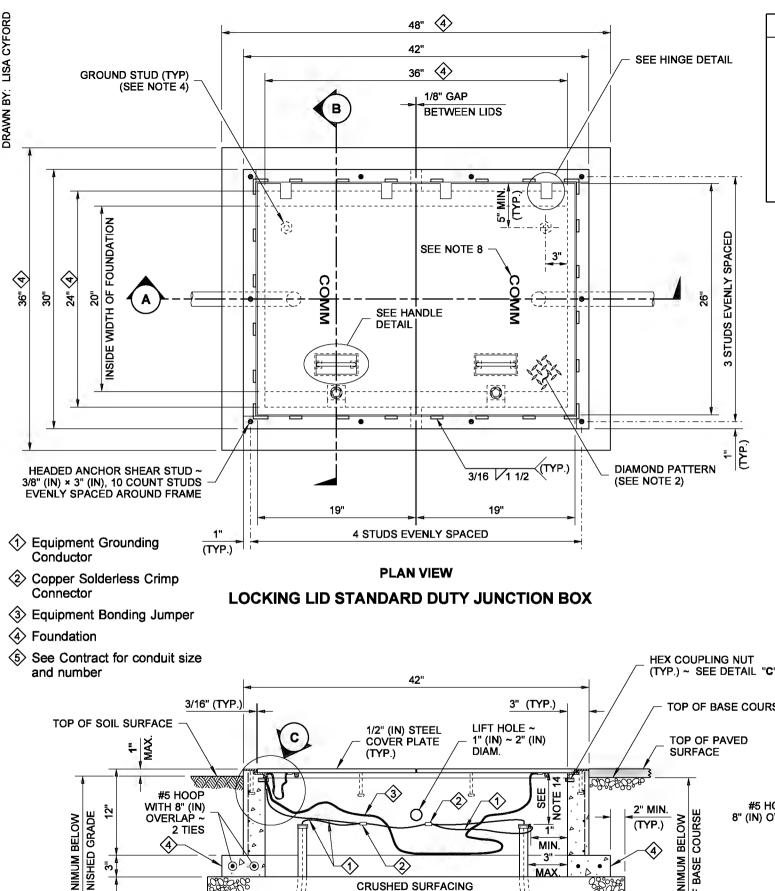
> SHEET 1 OF 2 SHEETS APPROVED FOR PUBLICATION



STATE DESIGN ENGINEER

Washington State Department of Transportation





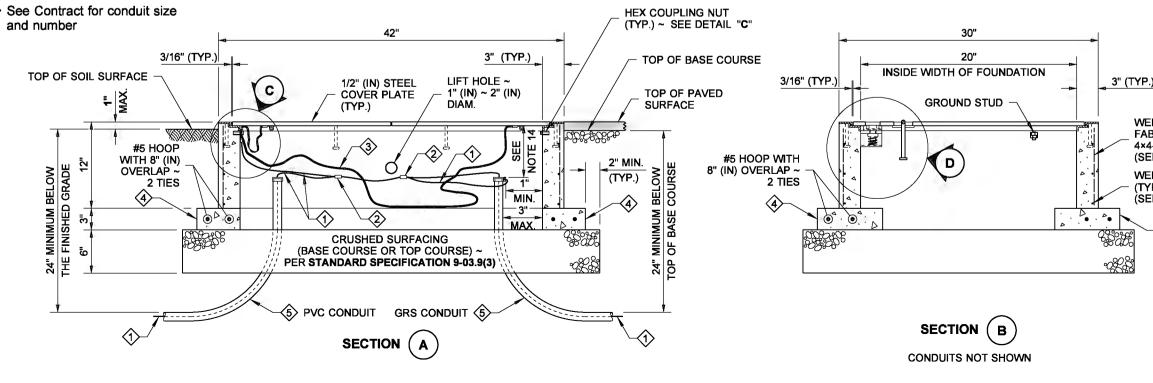
COVER MARKING DETAIL

≈ 1" (TYP.) ≈ 1" (TYP.) ITS 1/2" (TYP.) 1/4" CLEAR ITS ALL AROUND 00000 SEE NOTE 8

- Exact configurations vary among manufacturers.

NOTES

- 5. The hinges shall allow the lids to open 180°.
- 6. Bolts and nuts shall be liberally coated with anti-seize compound.
- 7. Connect Equipment Bonding Jumper to ground stud on lid. As an alternative to the ground stud connection, the Equipment and (2) each S. S. flat washers. Equipment Bonding Jumper shall be #8 AWG min. × 4' (ft) of tinned braided copper.
- 8. The System Identification letters shall be 1/8" (in) line thickness formed by a mild steel weld bead. See Cover Marking detail Grind off diamond pattern before forming letters. See Standard Specification 9-29.2(4) for details.
- 9. See the Standard Specifications for alternative reinforcement and class of concrete.
- 10. See Standard Plan J-40.10 for Welded Wire Fabric and Headed Anchor Shear Stud attachment details.
- 11. Capacity \sim conduit diameter = 24" (in)
- manufacturers' shop drawing for specifics.
- placed within the traveled way or paved shoulders shall be Heavy-Duty.
- new construction only. See Standard Specification 8-20.3(5). Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (in) min. to 10" (in) max. See Standard Specification 8-20.3(6)



1. All box dimensions are approximate. Exact configurations vary among manufacturers.

2. Minimum lid thicknesses are shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway. or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" (in) line thickness formed with a mild steel weld bead and shall be placed prior to hot-dip galvanizing.

3. Lid support members shall be 3/16" (in) min. thick steel C. L. or T shape, welded to the frame.

4. A 1/4-20 NC × 3/4" (in) S. S. ground stud shall be welded to the bottom of each lid; include (2) S. S. nuts and (2) S. S. flat washers.

Bonding Jumper shall be attached to the front face of the hinge pocket with a 5/16-20 NC × 3/4" (in) S. S. bolt, (2) each S. S. nuts,

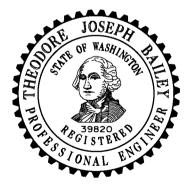
12. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangement; actual configurations of assembly will vary among manufacturers. See approved

13. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults and Pull Boxes shall not be placed within the sidewalk, walkway, shared use path, traveled way or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes

14. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (in) min. to 8" (in) max. for final grade of

WELDED WIRE FABRIC (TYP.) (WWF) 4×4-W2.9 (6 GAGE) (SEE NOTE 9)

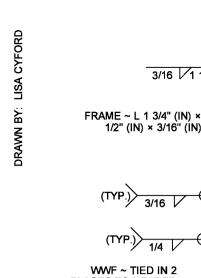
WELDED WIRE HOOP (TYP.) W2.9 (6 GAGE) (SEE NOTE 9)

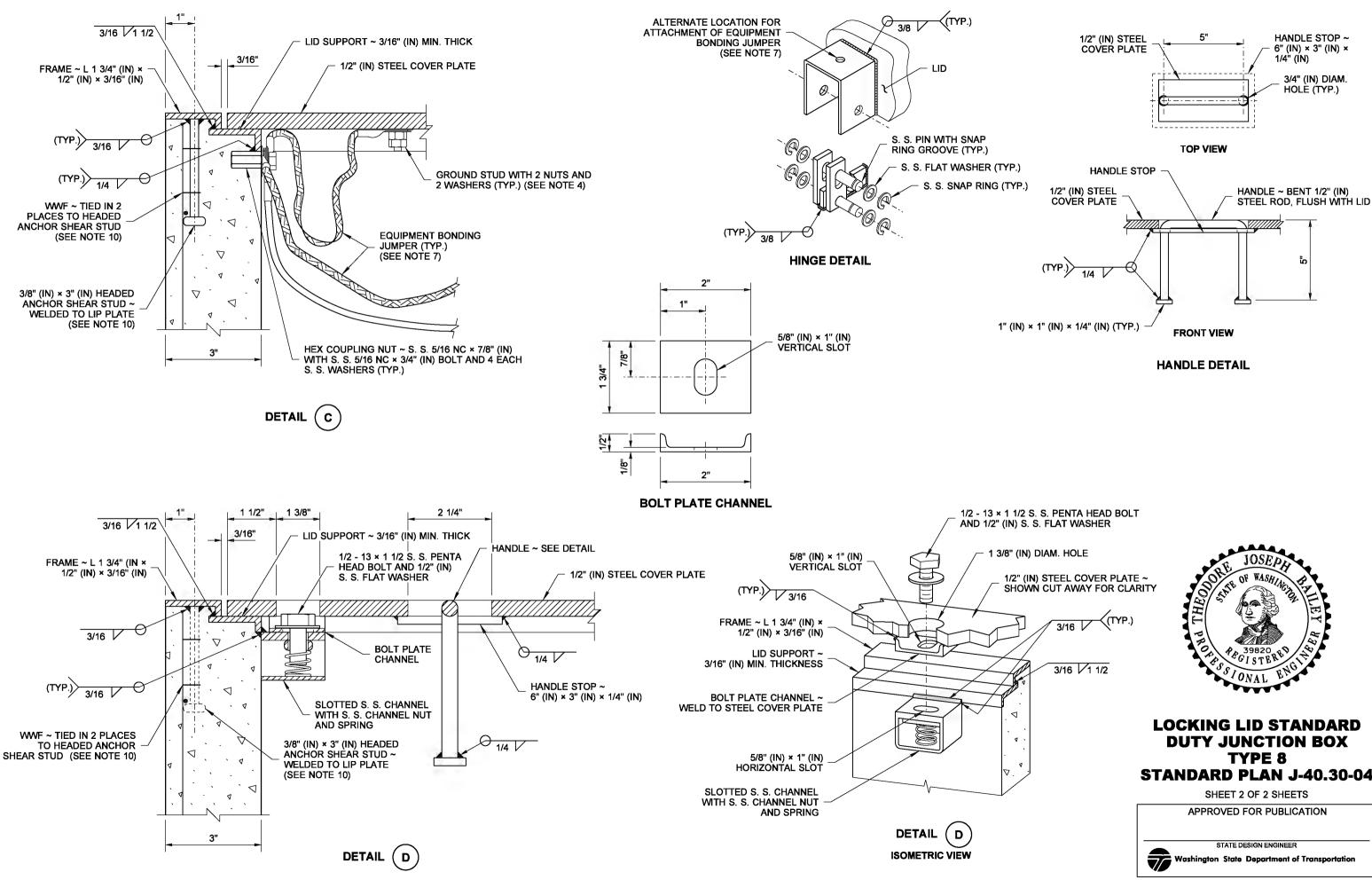


LOCKING LID STANDARD **DUTY JUNCTION BOX** TYPE 8 STANDARD PLAN J-40.30-04

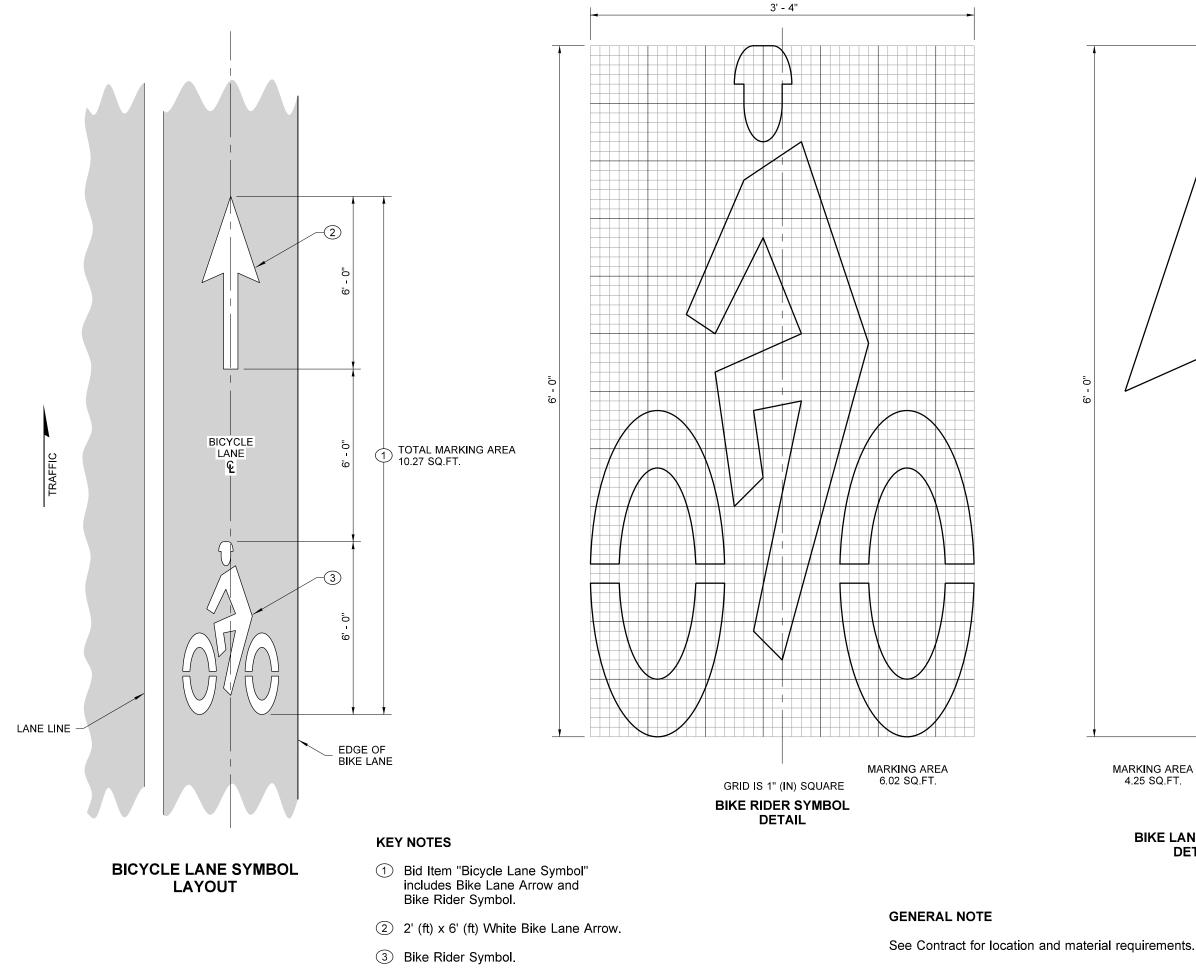
SHEET 1 OF 2 SHEETS APPROVED FOR PUBLICATION

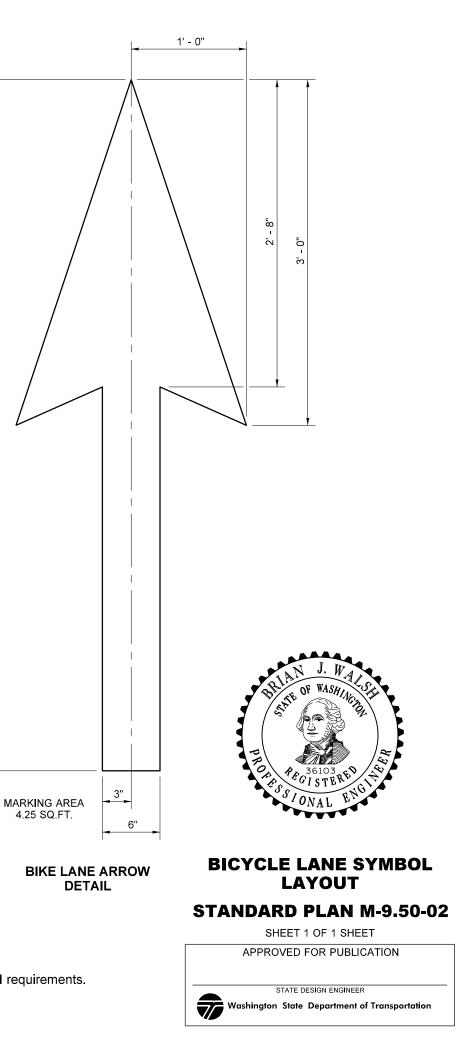




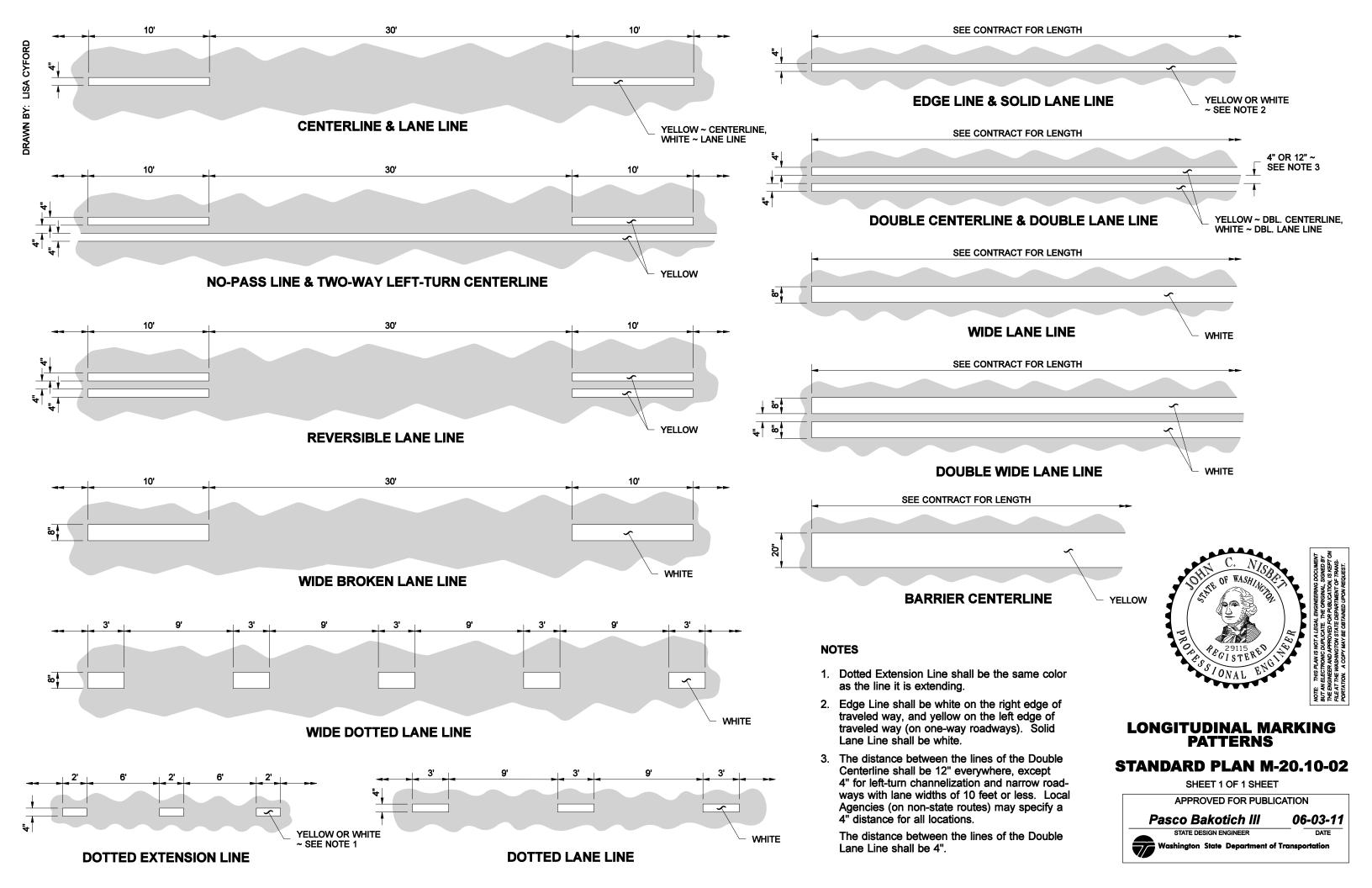


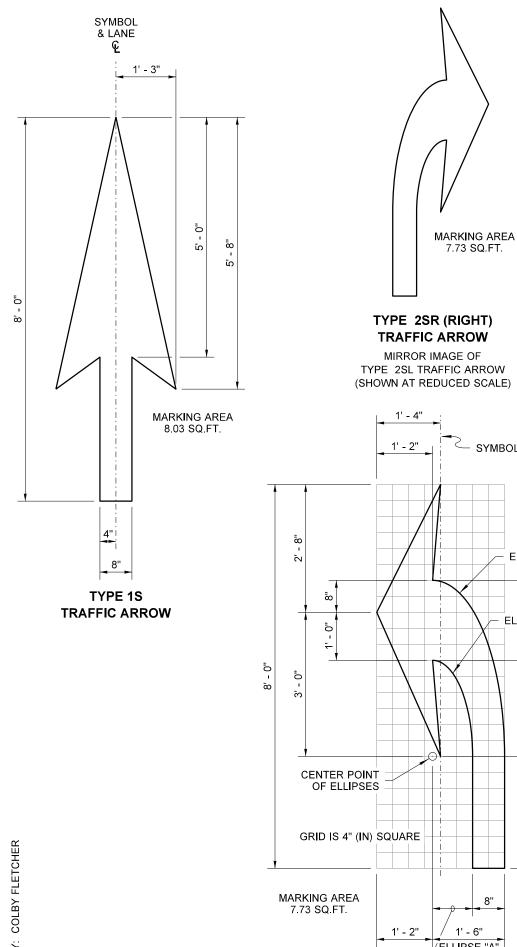
STANDARD PLAN J-40.30-04





6' - 0"



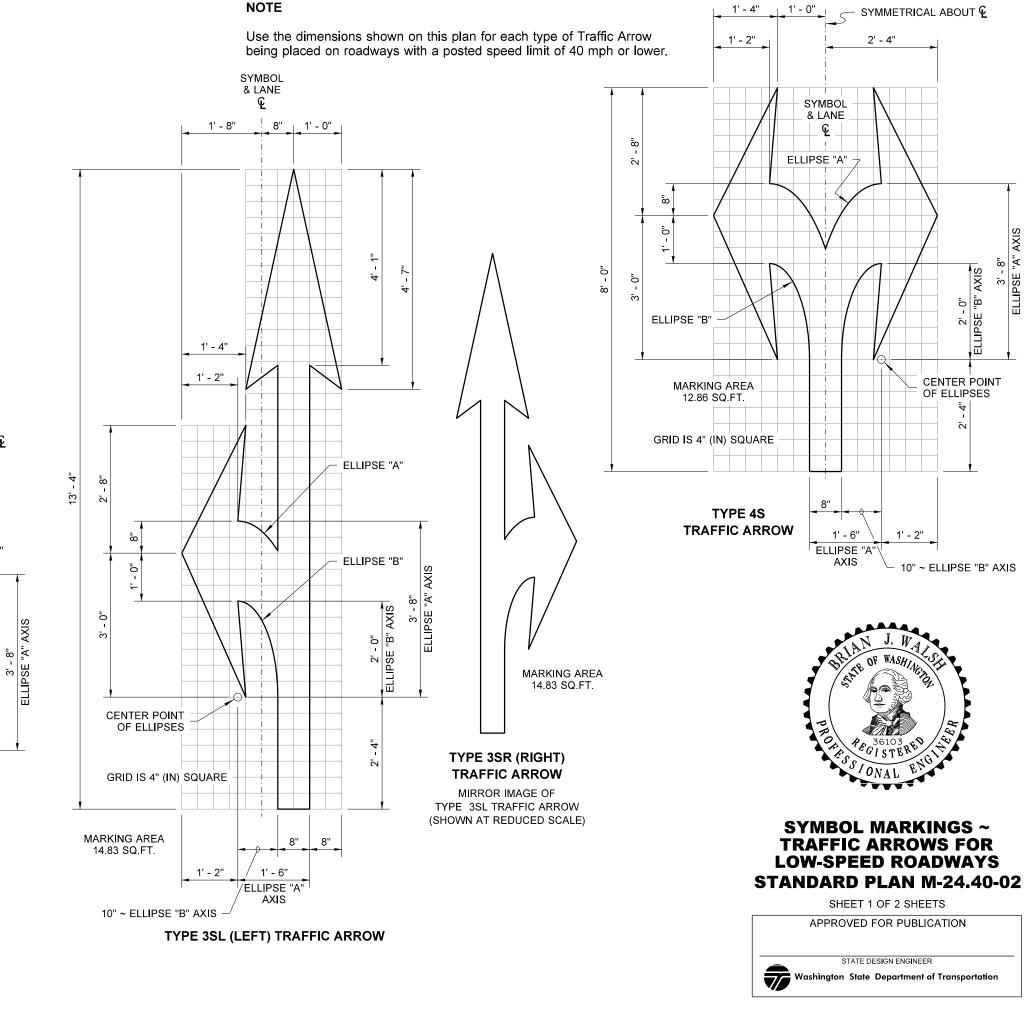


ELLIPSE "A" ELLIPSE "B" AXIS 2' - 0" ELLIPSE "B" / 8" 1' - 6" AXIS 10" ~ ELLIPSE "B" AXIS

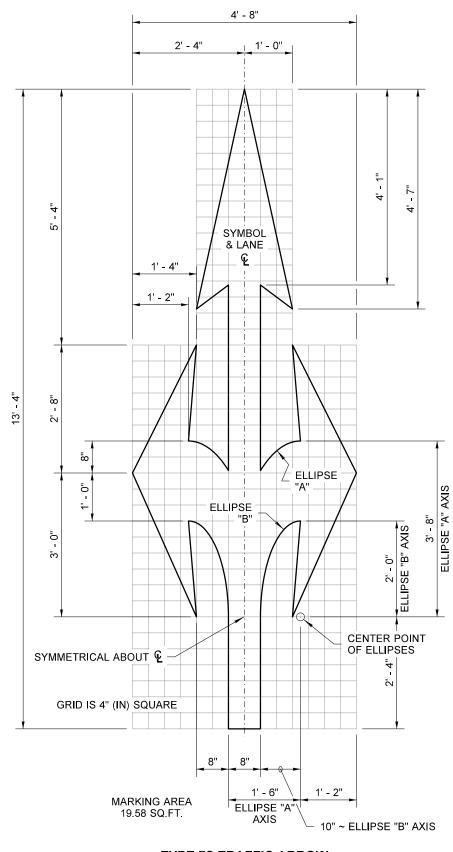
7.73 SQ.FT.

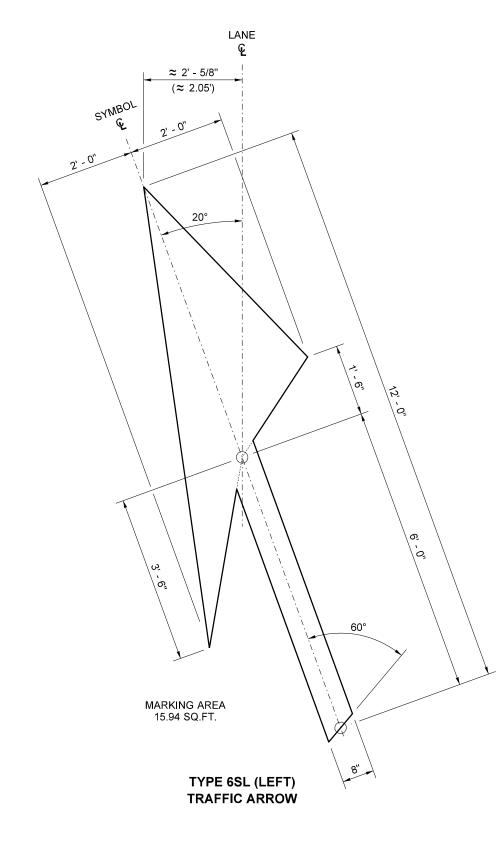
SYMBOL & LANE 🖌

NOTE



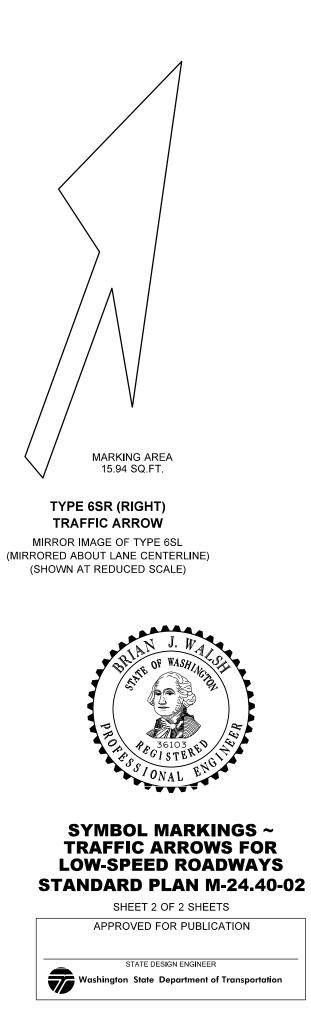
TYPE 2SL (LEFT) TRAFFIC ARROW





TYPE 7S TRAFFIC ARROW

DRAWN BY: COLBY FLETCHER



APPENDIX A

GEOTECHNICAL REPORT



January 7, 2019 HWA Project No. 2018-157-21

Perteet 2707 Colby Avenue, Suite 900 Everett, Washington 98201

Attention: Amanda Austin, P.E.

Subject: CITY OF LYNNWOOD 2019 OVERLAY PROJECT Lynnwood Washington

Ms. Austin:

At your request, HWA GeoSciences Inc. (HWA) performed pavement coring at 14 locations in Lynnwood, Washington to evaluate existing pavement layer and base course thicknesses for use in overlay design. Figure 1 shows the project vicinity.

Pavement Cores

Pavement layer thicknesses and shallow subgrade support conditions were investigated in fourteen, 6-inch diameter pavement cores, designated Core-1 through Core-14, performed on December 17, 26 and 27, 2018. Shallow subsurface explorations within each core were performed using hand augers and hand digging tools. The locations of the cores were selected by Perteet.

The approximate locations of the pavement cores are shown on the Site and Exploration Plans, Figures 2A through 2F. Photographic logs of the pavement cores are presented in Appendix A.

The coring and subsurface explorations were performed by two geologists from HWA. All core holes were backfilled with compacted gravel and patched with Aquaphalt.

Laboratory Testing

Representative soil samples obtained from the subsurface explorations were taken to the HWA laboratory for further examination and testing. Laboratory tests, as described below, were conducted on selected soil samples to characterize relevant engineering properties of the on-site soils.

Moisture Content of Soil: The moisture content (percent by dry mass) of selected soil samples was determined in accordance with ASTM D 2216. The

21312 30th Drive SE Suite 110 Bothell, WA 98021.7010

> Tel: 425.774.0106 Fax: 425.774.2714 www.hwageo.com

results are shown at the sampled intervals on the appropriate exploration logs in Appendix A.

Particle Size Analysis of Soils: Selected samples were tested to determine the particle size distribution of material in accordance with ASTM D 6913. The results are summarized on the attached Particle Size Analyses of Soils Reports, Figures B-1 through B-6, Appendix B, which also provide information regarding the classification of the samples and the moisture content at the time of testing.

2

January 7, 2019 HWA Project No. 2018-157-21

Pavement Structural Layers

Table 1 summarizes the pavement structures encountered in the pavement core explorations.

Designation	Location / Lane	HMA Thickness, (in.)	CSTC Thickness, (in.)	CSBC Thickness, (in.)	Total Pavement Thickness, (in.)
Core-1	6505 180 th St. SW, EB	2.5	-	-	2.5
Core-2	6207 182 nd St. SW, WB	3.0	-	-	3.0
Core-3	6303 183 rd Pl. SW, NB	3.0	2.5	-	5.5
Core-4	6027 187 th Pl. SW, WB	2.25	1.75	-	4.0
Core-5	5233 188 th St. SW, WB	4.0	-	-	4.0
Core-6	5233 188 th St. SW, EB	4.5	1.5	-	6.0
Core-7	18923 51 st Pl. W, NB	3.75	-	-	3.75
Core-8	4903 188 th St. SW, WB	5.0	3.0	-	8.0
Core-9	4903 188 th St. SW, EB	5.0	3.0	-	8.0
Core -10	20215 68 th Ave. W, SB	4.0	-	4.0	8.0
Core-11	20215 68 th Ave. W, NB	4.0	5.0	-	9.0
Core-12	19703 68 th Ave. W, SB	3.0	-	4.5	7.5
Core-13	19703 68 th Ave. W, NB	4.0	-	3.5	7.5
Core-14	21105 50 th Pl. W, NB	4.5	-	-	4.5

 Table 1. Thickness of Pavement Layers

Conditions and Limitations

We have prepared this report for Perteet and the City of Lynnwood. The conclusions and interpretations presented in this report should not be construed as our warranty of the surface

conditions. Inconsistent conditions can occur between explorations and may not be detected by an exploration program of this scope and nature.

Within the limitations of scope, schedule and budget, HWA attempted to execute these services in accordance with generally accepted professional principles and practices in the fields of geotechnical and pavement engineering in the area at the time the report was prepared. No warranty, express or implied, is made.

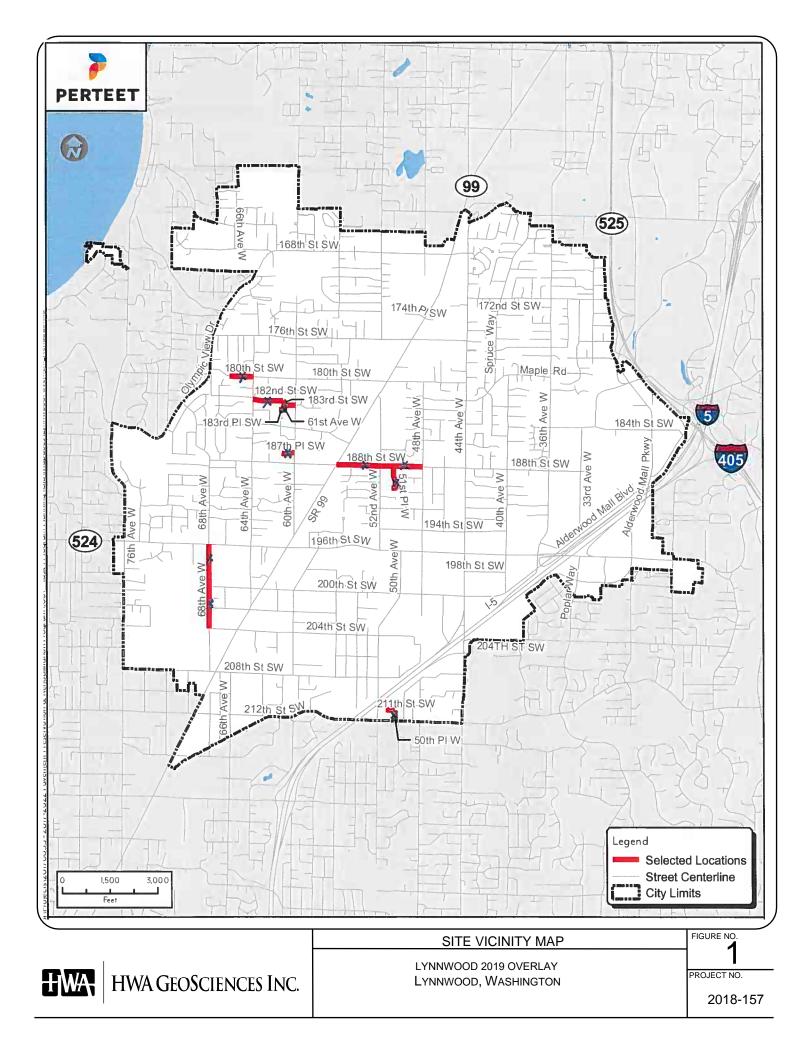
-0.0----

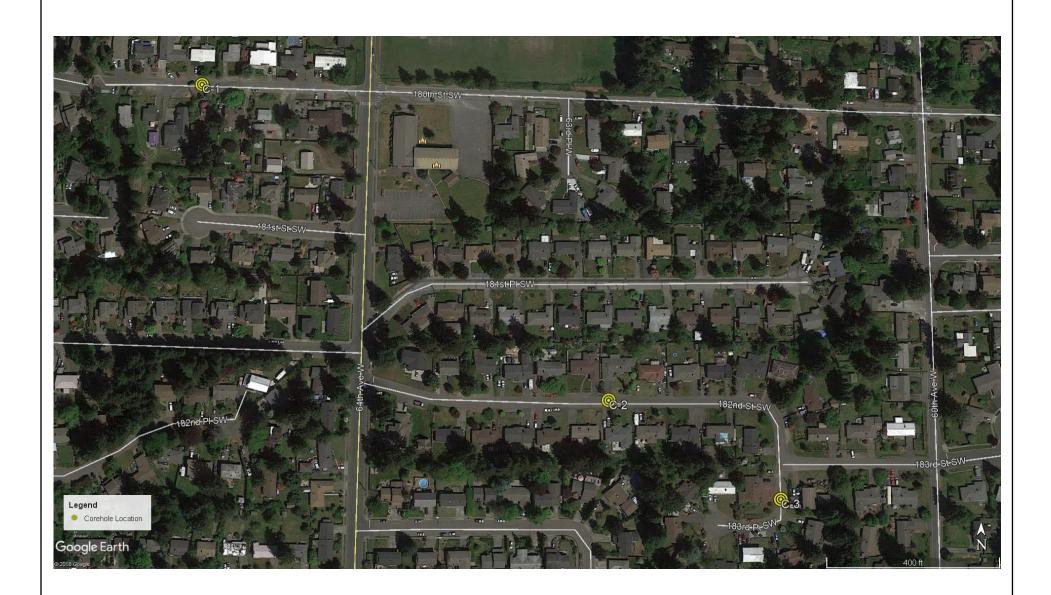
We appreciate the opportunity to provide geotechnical services on this project. Should you have any questions or comments, or if we may be of further service, please do not hesitate to call.

Sincerely,

HWA GEOSCIENCES INC.

Bryan K. Hawkins, P.E. Senior Geotechnical Engineer



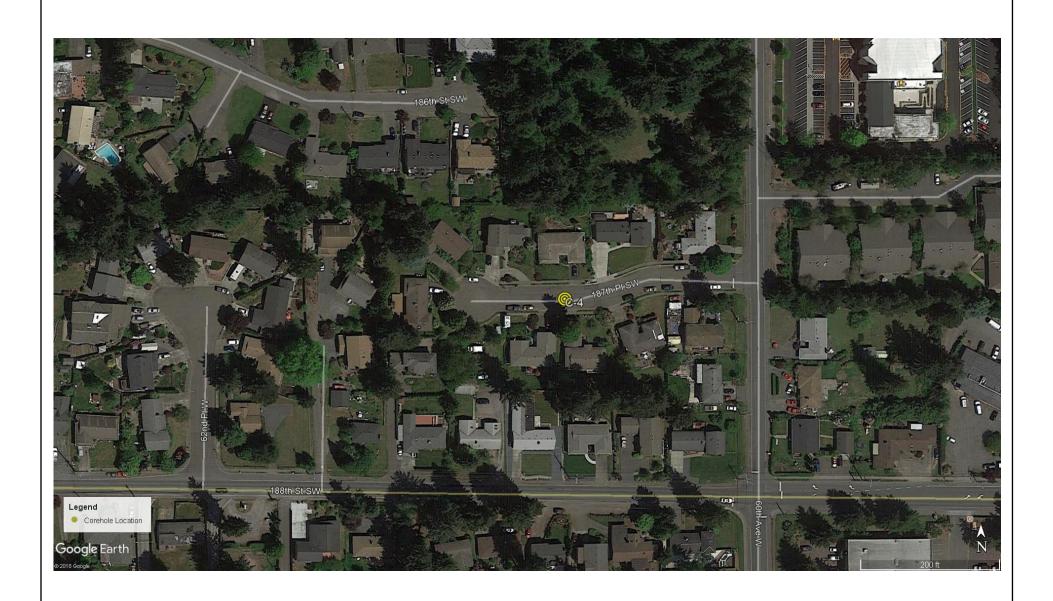


 SITE PLAN AERIAL PHOTO
 FIGURE NO.

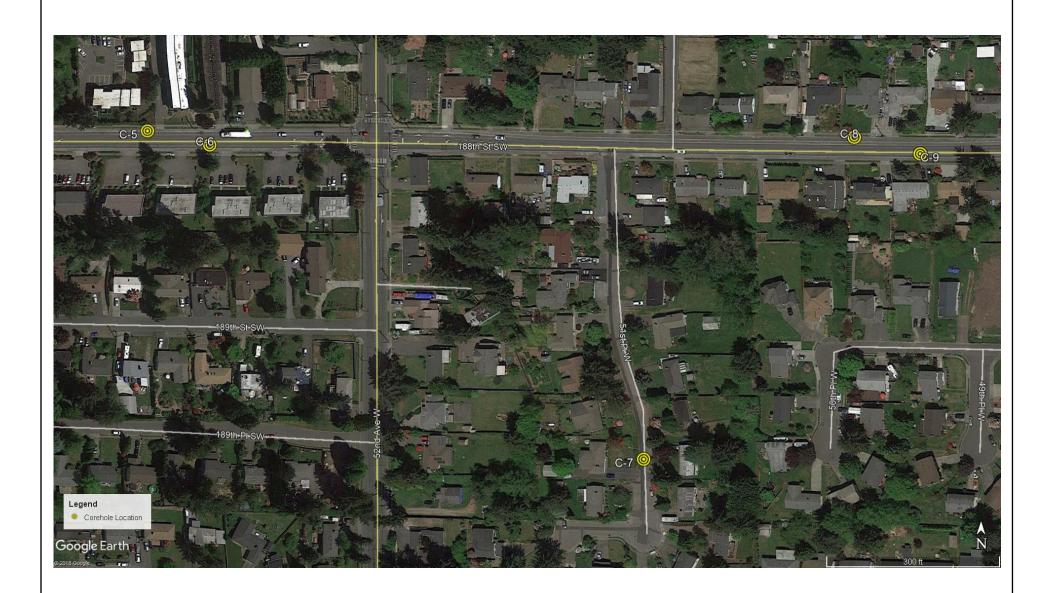
 LYNNWOOD 2019 OVERLAY
 2018

 LYNNWOOD, WASHINGTON
 PROJECT NO.

 2018-157



	SITE PLAN AERIAL PHOTO	FIGURE NO.
HWA GEOSCIENCES INC.	LYNNWOOD 2019 OVERLAY LYNNWOOD, WASHINGTON	2B PROJECT NO.
		2018-157



SITE PLAN AERIAL PHOTO FIGURE NO. LYNNWOOD 2019 OVERLAY HWA GEOSCIENCES INC. LYNNWOOD, WASHINGTON PROJECT NO. 2018-157



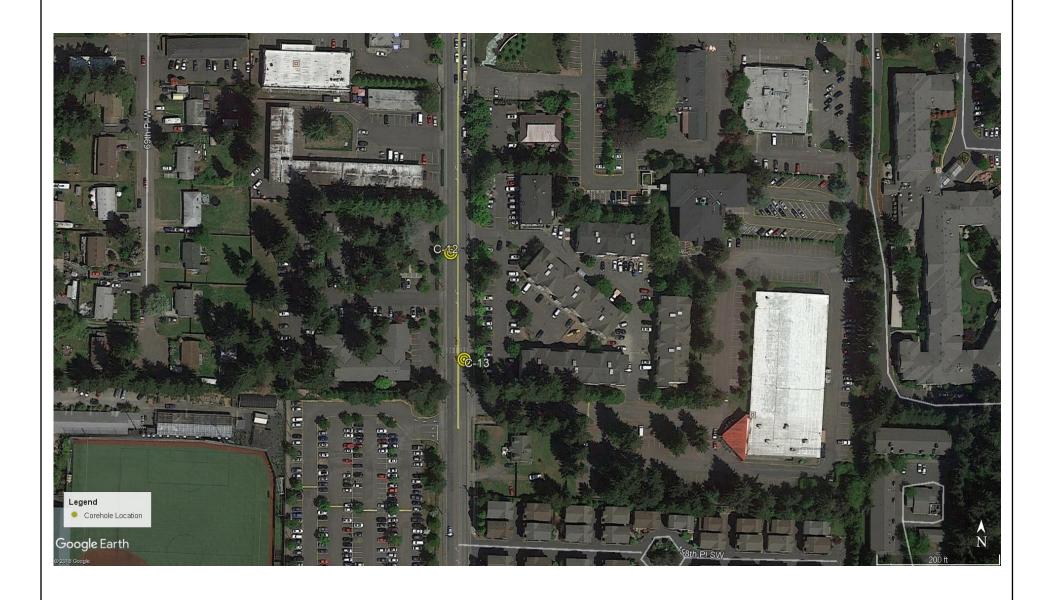


 SITE PLAN AERIAL PHOTO
 FIGURE NO.

 LYNNWOOD 2019 OVERLAY
 20

 LYNNWOOD, WASHINGTON
 PROJECT NO.

 2018-157



	SITE PLAN AERIAL PHOTO	FIGURE NO.
HWA GEOSCIENCES INC.	LYNNWOOD 2019 OVERLAY LYNNWOOD, WASHINGTON	2E PROJECT NO.
		2018-157



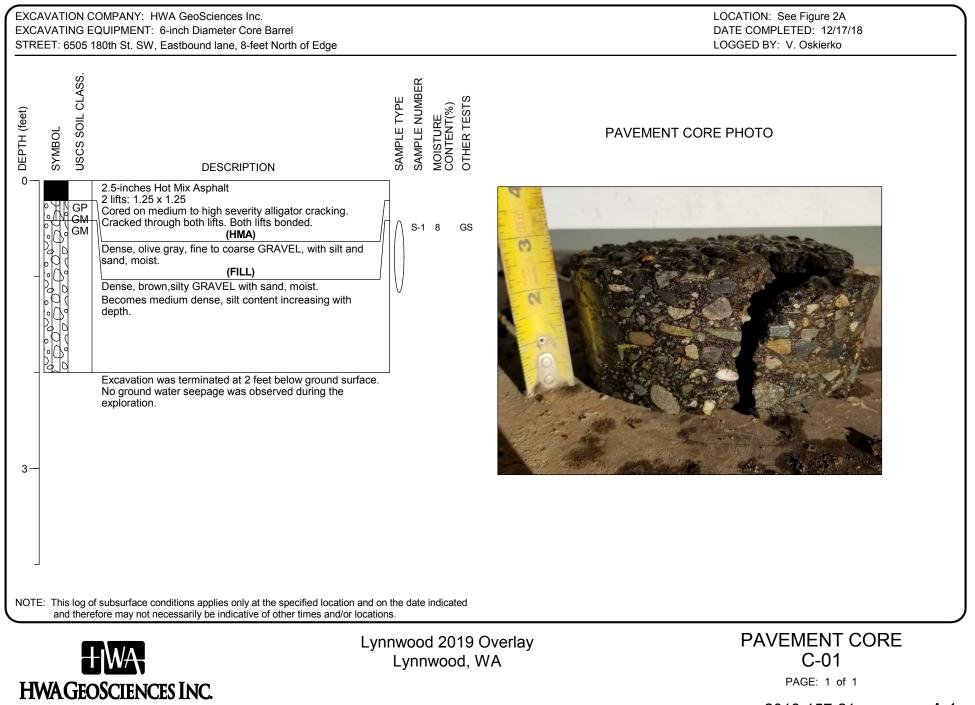
 SITE PLAN AERIAL PHOTO
 FIGURE NO.

 LYNNWOOD 2019 OVERLAY LYNNWOOD, WASHINGTON
 PROJECT NO.

 2018-157

APPENDIX A

PAVEMENT CORE PHOTO LOGS



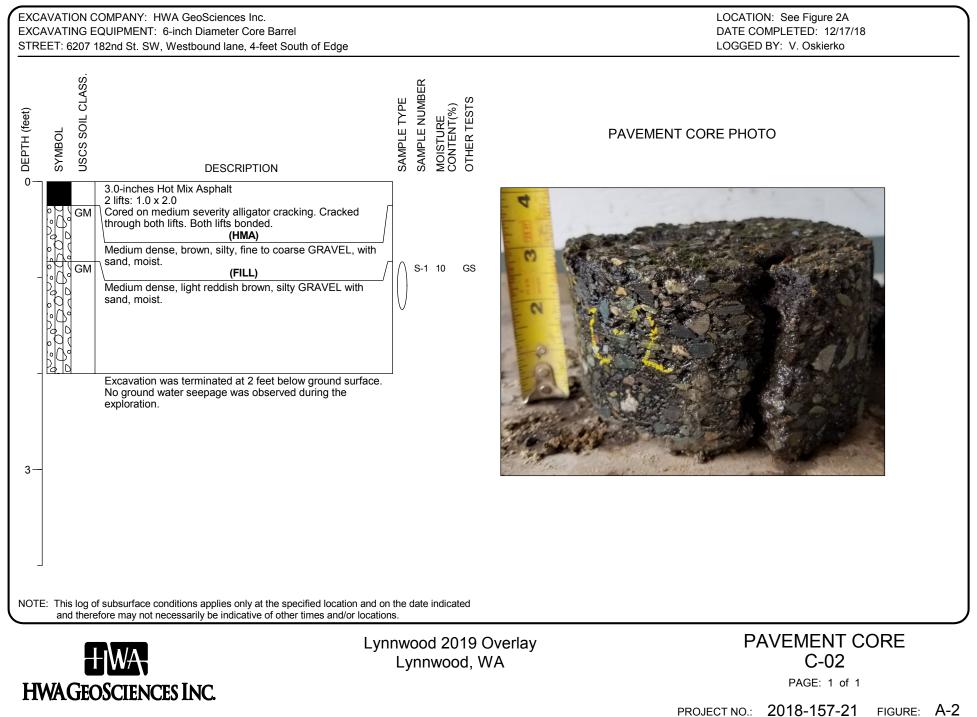
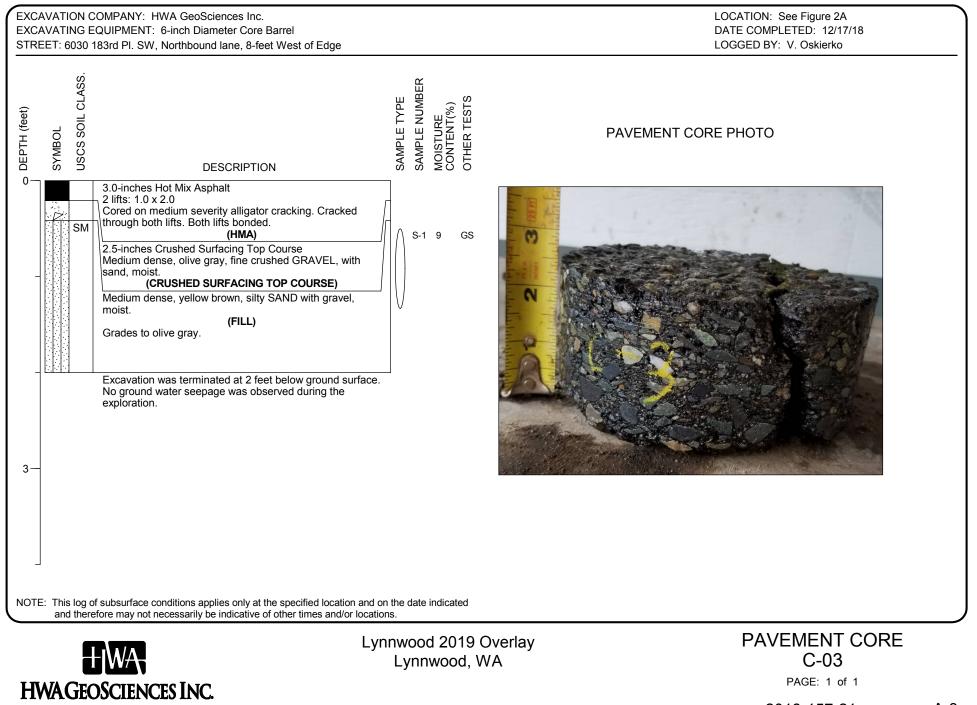
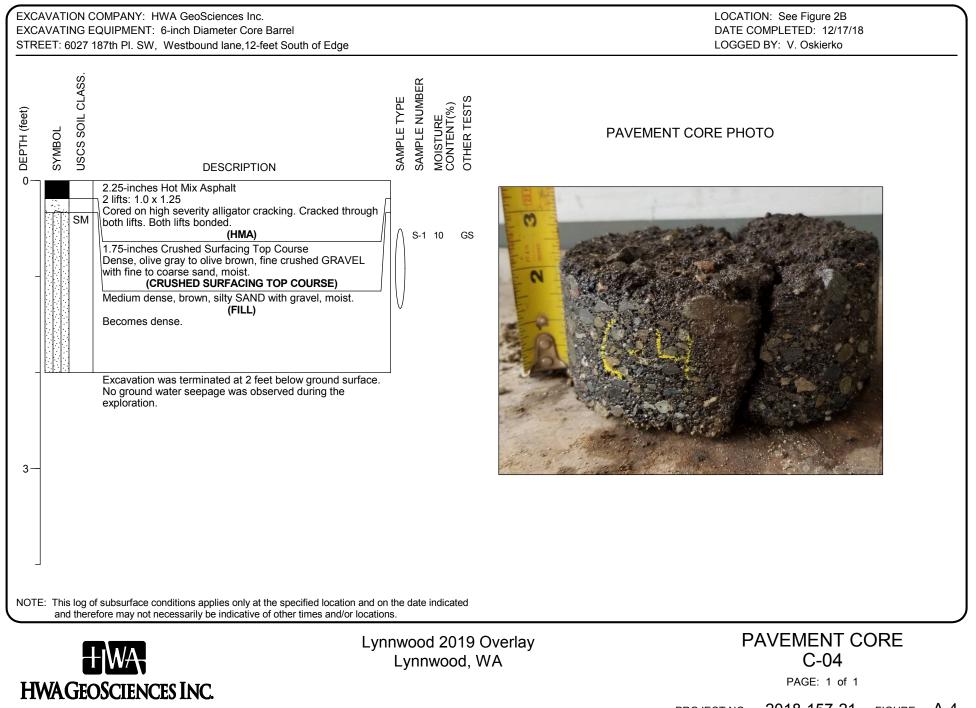
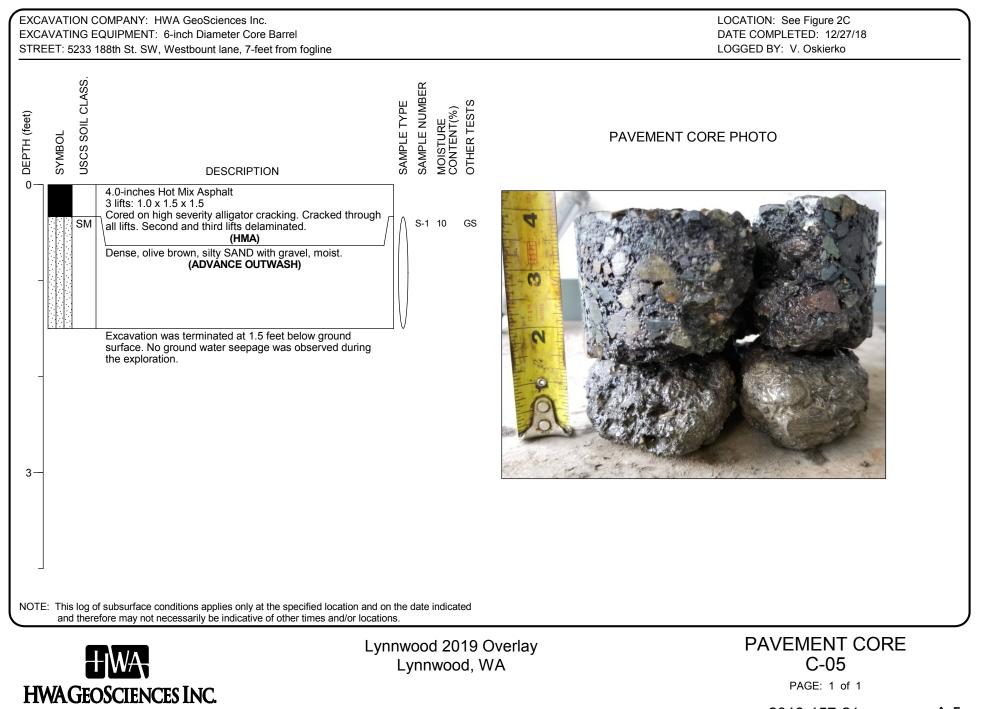
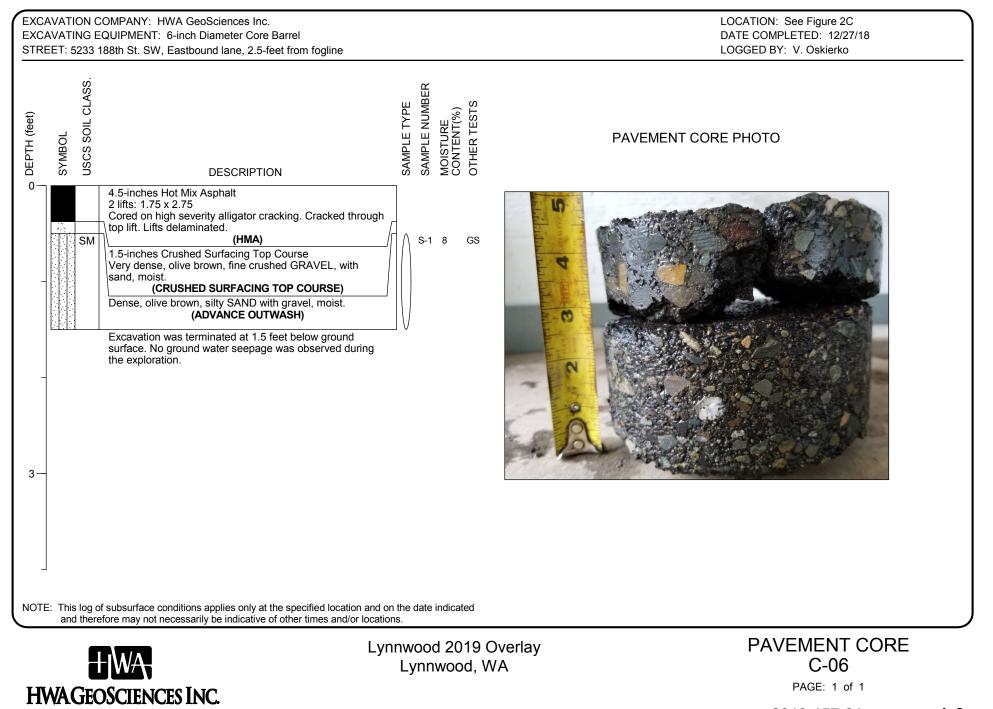


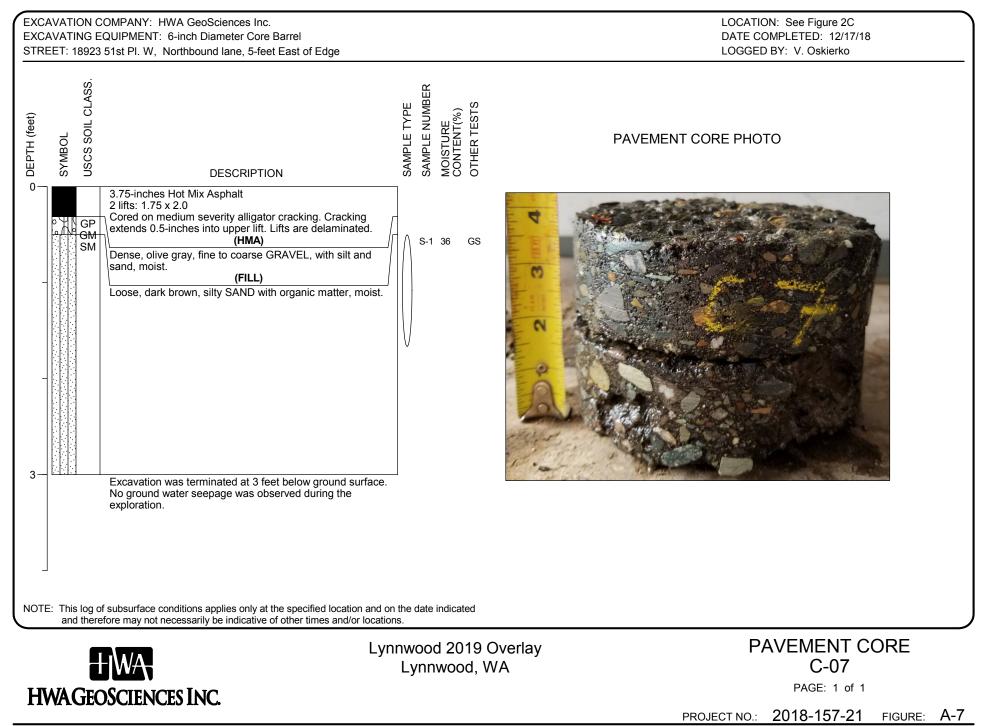
FIGURE: A-2

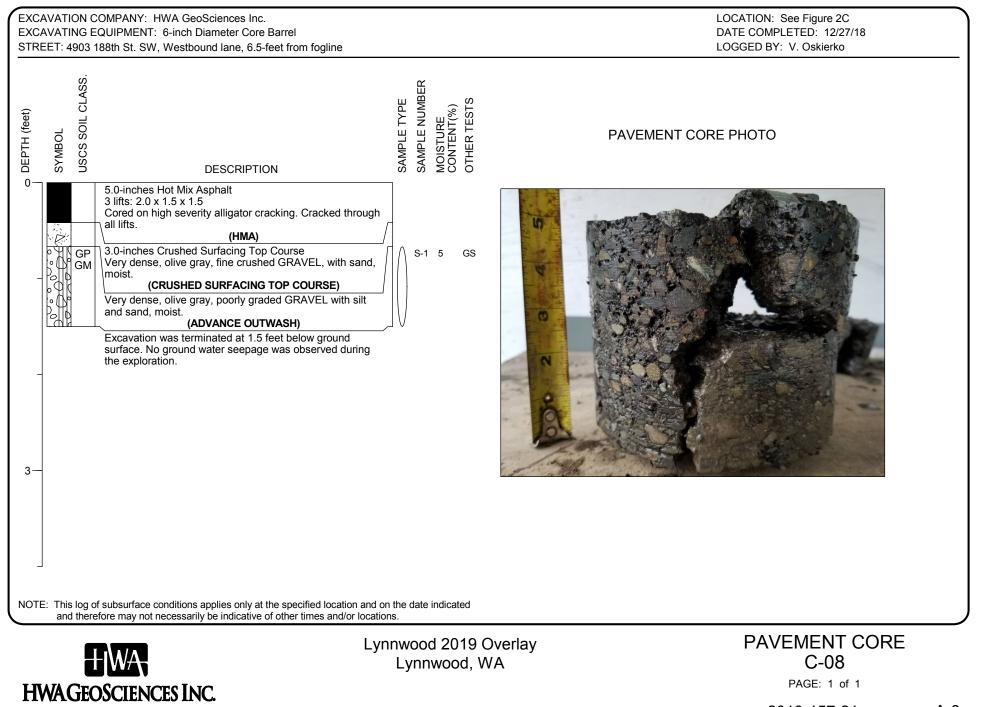


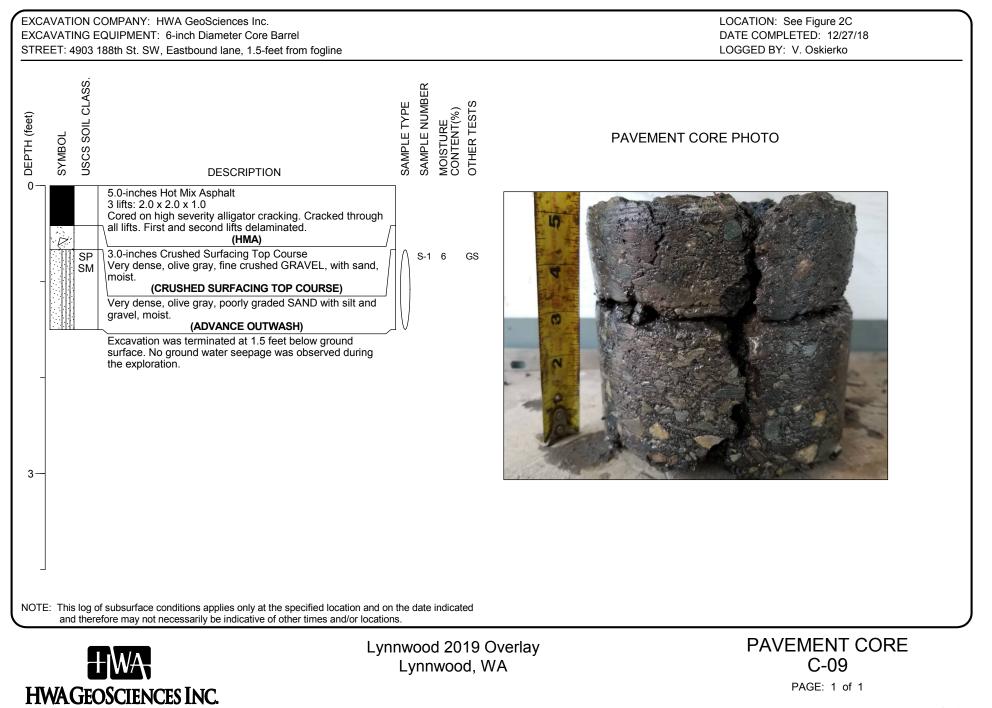


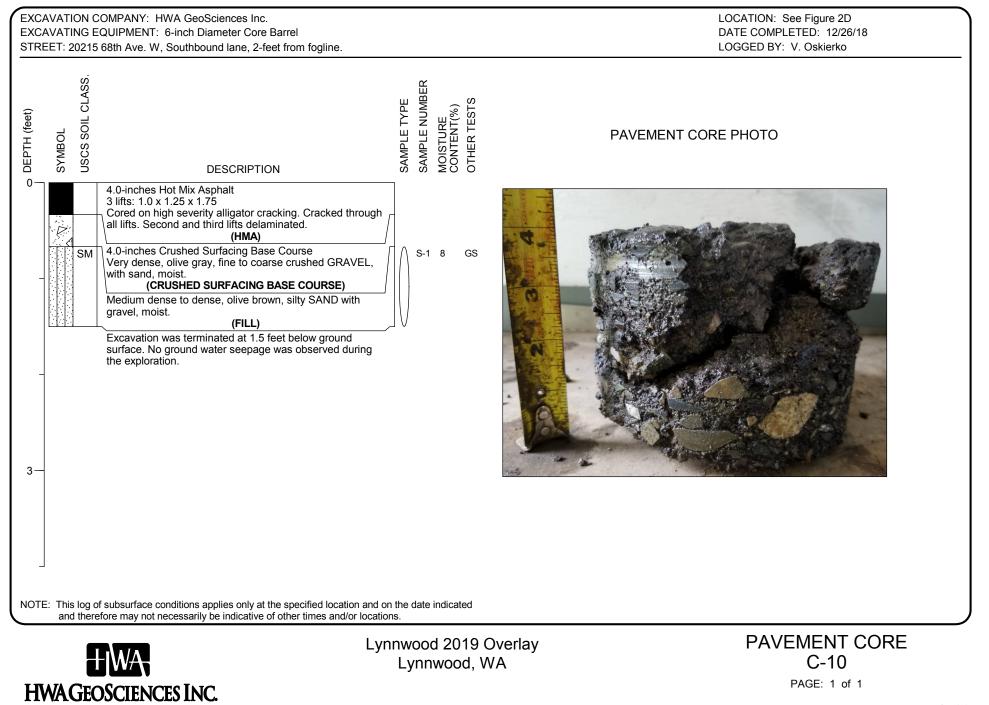


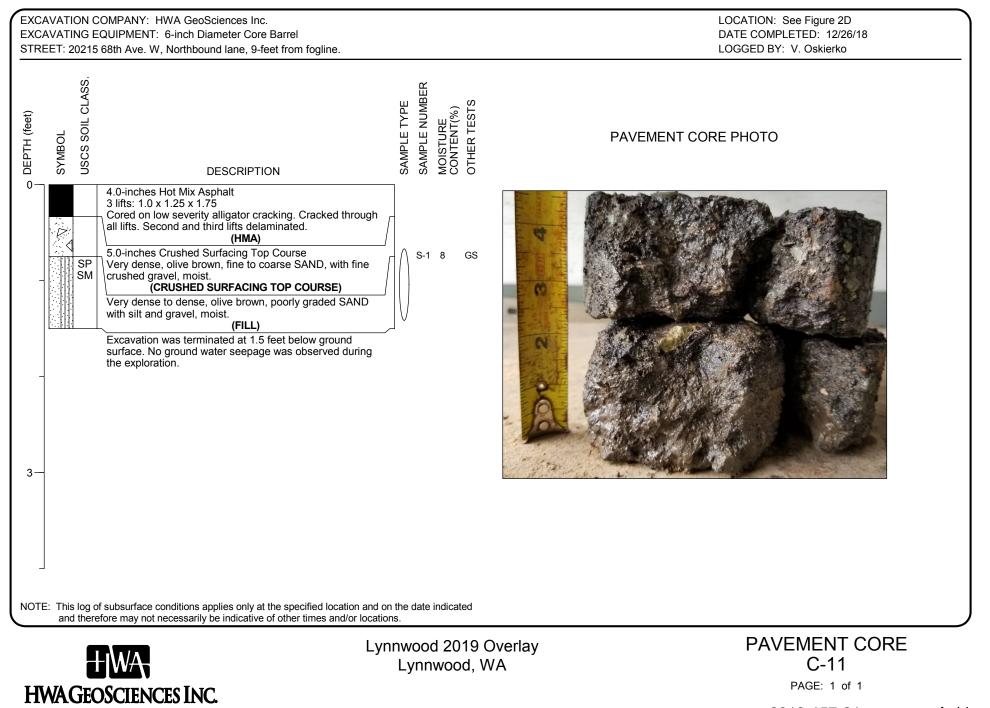


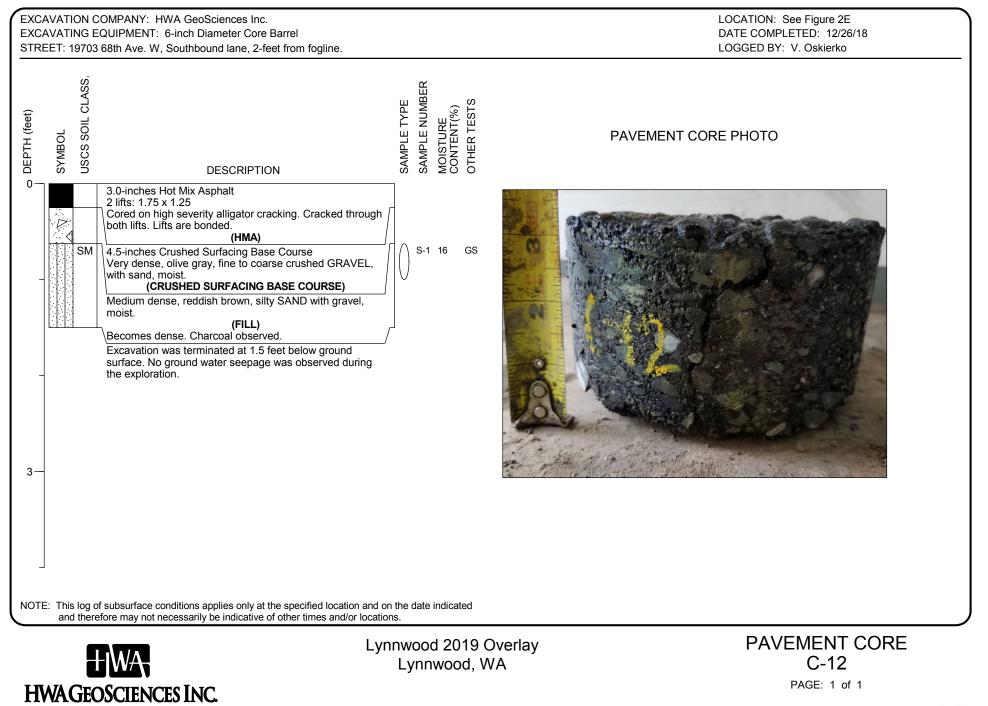


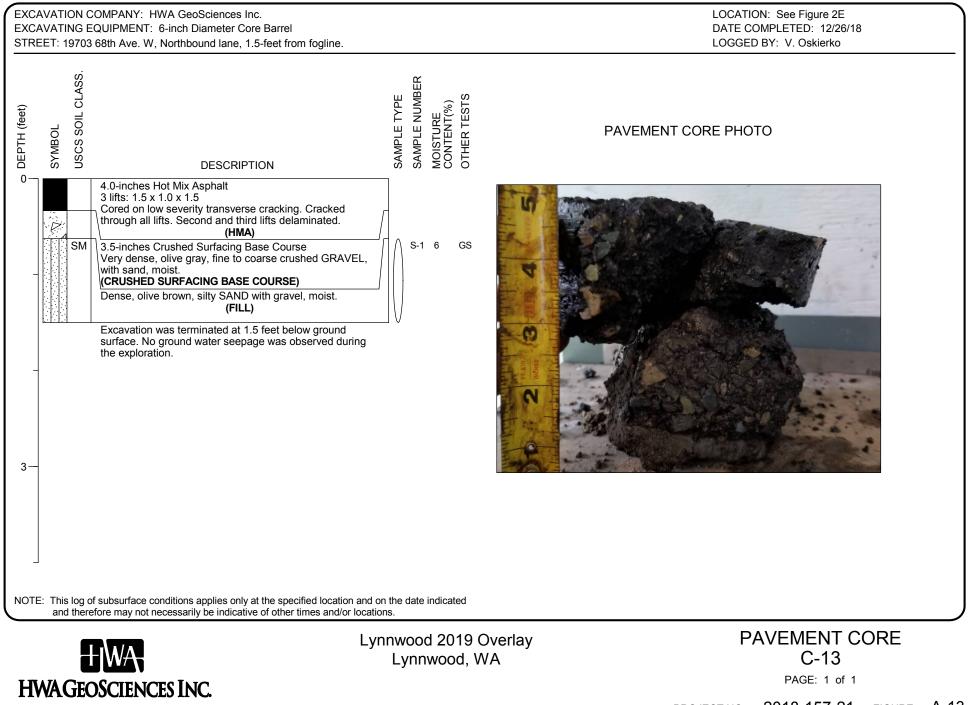












EXCAVATION COMPANY: HWA GeoSciences Inc. EXCAVATING EQUIPMENT: 6-inch Diameter Core Barrel STREET: 21105 50th PI. W, Northbound Iane, 8-feet East of Edge	3	LOCATION: See Figure 2F DATE COMPLETED: 12/17/18 LOGGED BY: V. Oskierko						
DEPTH (feet) SYMBOL USCS SOIL CLASS. DESCLIDION	SAMPLE TYPE SAMPLE NUMBER MOISTURE CONTENT(%) OTHER TESTS	PAVEMENT CORE PHOTO						
0 4.5-inches Hot Mix Asphalt 3 lifts: 1.75 x 1.25 x 1.5 Cored on high severity alligator cracking. Crack through top two lifts. All Lifts delaminated. SM (HMA) Medium dense, olive gray, fine to coarse SAND, and gravel, moist. Image: Comparison of the severity alligator cracking. Crack through top two lifts. All Lifts delaminated. SM Medium dense, olive gray, fine to coarse SAND, and gravel, moist. Image: Comparison of the severity decreasing. Silt increasing with depth. Density decreasing.	, with silt							
3 SP SAND, with silt, moist. Excavation was terminated at 3 feet below groun No ground water seepage was observed during exploration.	nd surface.							
OTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.								
HWA HWAGEOSCIENCES INC.	Lynnwood 2019 Overlay Lynnwood, WA	PAVEMENT CORE C-14 PAGE: 1 of 1						

APPENDIX B

LABORATORY DATA

Zz		НТ			AVITY		ATTERBERG LIMITS (%)				NOL		
EXPLORATION DESIGNATION	TOP DEPTH (feet)	BOTTOM DEPTH (feet)	MOISTURE CONTENT (%)	ORGANIC CONTENT (%)	SPECIFIC GRAVITY	LL	PL	PI	% GRAVEL	% SAND	% FINES	ASTM SOIL CLASSIFICATION	SAMPLE DESCRIPTION
C-01,S-1	0.4	1.2	7.6						45.9	38.3	15.8	GM	Yellowish-brown, silty GRAVEL with sand
C-02,S-1	0.8	1.3	10.0						53.4	33.2	13.4	GM	Yellowish-brown, silty GRAVEL with sand
C-03,S-1	0.5	1.3	9.4						32.7	49.8	17.5	SM	Yellowish-brown, silty SAND with gravel
C-04,S-1	0.5	1.3	10.4						28.2	49.8	21.9	SM	Light olive-brown, silty SAND with gravel
C-05,S-1	0.3	1.5	9.6						20.7	65.3	14.0	SM	Dark yellowish-brown, silty SAND with gravel
C-06,S-1	0.5	1.5	8.0						28.2	59.1	12.7	SM	Dark yellowish-brown, silty SAND with gravel
C-07,S-1	0.5	1.7	36.4						9.9	62.5	27.6	SM	Dark brown, silty SAND with organics
C-08,S-1	0.7	1.5	5.3						48.8	42.9	8.4	GP-GM	Very dark gray, poorly graded GRAVEL with sand and si
C-09,S-1	0.7	1.5	5.8						40.6	49.5	9.9	SP-SM	Very dark gray, poorly graded SAND with silt and gravel
C-10,S-1	0.7	1.5	8.4						32.1	54.4	13.5	SM	Yellowish-brown, silty SAND with gravel
C-11,S-1	0.7	1.4	8.3						27.1	63.2	9.7	SP-SM	Brown, poorly graded SAND with silt and gravel
C-12,S-1	0.6	1.0	16.4						33.9	49.7	16.4	SM	Strong brown, silty SAND with gravel
C-13,S-1	0.6	1.5	6.4						39.9	44.3	15.8	SM	Olive-brown, silty SAND with gravel

Notes: 1. This table summarizes information presented elsewhere in the report and should be used in conjunction with the report test, other graphs and tables, and the exploration logs. 2. The soil classifications in this table are based on ASTM D2487 and D2488 as applicable.



Lynnwood 2019 Overlay Lynnwood, WA SUMMARY OF MATERIAL PROPERTIES

PAGE: 1 of 1

