

# CITY COUNCIL AGENDA

15728 Main Street, Mill Creek, WA 98012 (425) 745-1891



Pam Pruitt, Mayor • Brian Holtzclaw, Mayor Pro Tem • Mark Bond  
Mike Todd • Vince Cavaleri • John Steckler • Stephanie Vignal

Regular meetings of the Mill Creek City Council shall be held on the first, second and fourth Tuesdays of each month commencing at 6:00 p.m. in the Mill Creek Council Chambers located at 15728 Main Street, Mill Creek, Washington. Your participation and interest in these meetings are encouraged and very much appreciated. We are trying to make our public meetings accessible to all members of the public. If you require special accommodations, please call the office of the City Clerk at (425) 921-5725 three days prior to the meeting.

The City Council may consider and act on any matter called to its attention at such meetings, whether or not specified on the agenda for said meeting. Participation by members of the audience will be allowed as set forth on the meeting agenda or as determined by the Mayor or the City Council.

To comment on subjects listed on or not on the agenda, ask to be recognized during the Audience Communication portion of the agenda. Please stand at the podium and state your name and residency for the official record. Please limit your comments to the specific item under discussion. Time limitations shall be at the discretion of the Mayor or City Council.

Study sessions of the Mill Creek City Council may be held as part of any regular or special meeting. Study sessions are informal, and are typically used by the City Council to receive reports and presentations, review and evaluate complex matters, and/or engage in preliminary analysis of City issues or City Council business.

**Next Ordinance No.** 2019-850

**Next Resolution No.** 2019-579

**May 14, 2019**  
**City Council Meeting**  
**6:00 PM**

## **CALL TO ORDER**

## **PLEDGE OF ALLEGIANCE**

## **ROLL CALL**

## **AUDIENCE COMMUNICATION**

- A. Public comment on items on or not on the agenda

## **PRESENTATIONS**

- B. Proclamation: National Police Week
- C. Check Presentation to the City's AWC Scholarship Nominee
- D. Mill Creek Chamber of Commerce Presentation

## **STUDY SESSION**

- E. 132nd Street SE Mid Block Crossing

*(Gina Hortillosa, Director of Public Works & Development Services)*

## **NEW BUSINESS**

- F. 132nd Street Mid Block Crossing - Pedestrian and Bicycle Program Advance Notice of Potential Grant Award  
*(Gina Hortillosa, Director of Public Works & Development Services)*
- G. Art & Beautification Utility Box Project on SR 527  
*(Joni Kirk, Director of Communications & Marketing)*
- H. Surface Water Aging Infrastructure Construction Contract Award - Grade F Pipe Repairs  
*(Gina Hortillosa, Director of Public Works & Development Services)*

## **CONSENT AGENDA**

- I. Approval of Checks #60203 through #60282 and ACH Wire Transfers in the Amount of \$534,618.38  
*(Audit Committee: Mayor Pruitt and Councilmember Bond)*
- J. Payroll and Benefit ACH Payments in the Amount of \$320,718.43  
*(Audit Committee: Mayor Pruitt and Councilmember Bond)*
- K. City Council Meeting Minutes of February 5, 2019

## **REPORTS**

- L. Mayor/Council
- M. City Manager
  - Council Planning Schedule
- N. Staff
  - Park & Recreation Board Meeting Minutes of March 6, 2019
  - Art & Beautification Board Meeting Minutes of April 10, 2019

## **AUDIENCE COMMUNICATION**

- O. Public comment on items on or not on the agenda

## **ADJOURNMENT**

# *Proclamation*

**WHEREAS**, the Congress and President of the United States have designated May 15 as Peace Officers Memorial Day, and the week in which it falls as Police Week; and

**WHEREAS**, there are more than 900,000 law enforcement officers serving in communities across the United States; and

**WHEREAS**, the men and women of the Mill Creek Police Department play an essential role in safeguarding the rights and freedoms of the citizens of the City of Mill Creek; and

**WHEREAS**, it is important that all citizens know and understand the challenges, duties and responsibilities of their police department, and that members of our police department recognize their duty to serve the people by safeguarding life and property, by protecting them against violence or disorder, and by protecting the innocent against deception and the weak against oppression or intimidation; and

**WHEREAS**, since the first recorded death in 1791, more than 20,000 law enforcement officers in the United States have made the ultimate sacrifice and been killed in the line of duty; and

**WHEREAS**, the names of these dedicated public servants are engraved on the walls of the National Law Enforcement Officers Memorial in Washington, D.C.; and

**WHEREAS**, 371 new names of fallen heroes are being added to the National Law Enforcement Officers Memorial this spring, including 158 officers killed in 2018; and

**WHEREAS**, May 15 is designated as Peace Officers Memorial Day, in honor of all fallen officers and their families and U.S. flags should be flown at half-staff.

**NOW, THEREFORE**, I, Pam Pruitt, Mayor of the City of Mill Creek, on behalf of the City Council, proclaim May 12-18, 2019, as National Police Week and encourage the members of our community to join in honoring our law enforcement officers in our community and remembering those who have made the ultimate sacrifice.



Signed this 14<sup>th</sup> day of May, 2019

\_\_\_\_\_  
Pam Pruitt, Mayor

Attest \_\_\_\_\_  
Gina Pfister, City Clerk

\_\_\_\_\_  
Michael G. Ciaravino, City Manager



Agenda Item # E  
Meeting Date: May 14, 2019

## **CITY COUNCIL AGENDA SUMMARY**

City of Mill Creek, Washington

### **AGENDA ITEM: STUDY SESSION - 132<sup>ND</sup> STREET SE MID BLOCK CROSSING**

### **PROPOSED MOTION:**

None. This is a study session only.

### **KEY FACTS AND INFORMATION SUMMARY:**

132<sup>nd</sup> St SE, also known as State Route 96 (SR 96), is a major east/west arterial that connects much of the City of Mill Creek and the eastern portion of South Snohomish County to Interstate 5. 132<sup>nd</sup> St SE is situated in an urban setting and has both residential and commercial uses in close proximity. The focus area of this study session is the 3200 block, west of 35<sup>th</sup> Ave SE. In this area, there are residential uses located directly across the street from commercial uses, often several hundred feet from a convenient and safe place to cross. This has led to areas where pedestrians regularly attempt to cross 132<sup>nd</sup> St SE mid-block instead of at a controlled signalized intersection. This area has experienced significant growth over the past two decades, which has resulted in a significant amount of traffic utilizing 132<sup>nd</sup> St SE. In 2015, approximately 35,000 vehicles per day used this roadway; that number is expected to rise to 40,000 trips per day by 2040.

The focus area has been the site of a number of car vs. pedestrian collisions. From 2012-2016, fifty eight pedestrian and bicycle crashes occurred throughout the City of Mill Creek. Seven of these crashes were fatalities/serious injuries. Attachment A is a "heat map" that illustrates frequency of all crash categories within City boundaries. Pedestrian and bicycle crashes are typically divided in three categories: no injury/injury, serious injury and fatality.

From 2017 through early October 2018, a period of time beyond the data represented in Attachment A, two serious pedestrian/vehicle crashes occurred on 132<sup>nd</sup> St SE. Both crashes occurred at mid-block locations in the focus area of 132<sup>nd</sup> St SE. Data collected by WSDOT in October 2017 (Attachment B) confirms a pattern of unsafe, mid-block pedestrian crossings occurring west of 35<sup>th</sup> Ave. SE. The peak recorded number of mid-block pedestrian crossings at this particular location was thirteen in a one hour period.

In spring 2018, the City submitted two State grant applications to support costs associated with the installation of a HAWK (High-Intensity Activated crosswalk) signal west of 35<sup>th</sup> Ave. SE. Snohomish County, WSDOT and Everett School District provided letters of support for the applications.



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Page 2

A HAWK signal is a pedestrian activated signal beacon designed to help pedestrians safely cross busy streets. The project is included in the 2019-2024 Capital Improvement Plan and its implementation is contingent on Council approval. On May 7<sup>th</sup>, WSDOT provided City administration staff with advanced notice of potential funding award for the Pedestrian and Bicycle Program Grant Application. Based on the language in the 2019 -2024 CIP, staff is conducting this study session to discuss information pertinent to the decision making process associated with proceeding with grant acceptance.

There are a number of considerations and alternative options to discuss prior to Council making the decision to proceed with grant acceptance:

- The focus area of 132<sup>nd</sup> St SE is wholly within the City Limits of Mill Creek (both directions including right-of-way)
- The commercial area to the south of the focus area is within the City Limits of Mill Creek
- The commercial area includes a variety of business including grocery, personal care, fast food and various 'strip mall' retail stores
- The residential area to the north of the focus area is located in unincorporated Snohomish County
- The residential area is mostly multi-family complexes
- Pedestrians from the residential areas regularly cross 132<sup>nd</sup> St SE mid-block to access the amenities of the commercial area
- The location of most frequent pedestrian crossings is approximately 800 feet west of a marked crosswalk at 35<sup>th</sup> Ave SE and approximately 2300 feet east of a marked crosswalk at 25<sup>th</sup> Ave SE

Based on past data, pedestrians have demonstrated a propensity to take the path of least resistance when crossing this heavily traveled roadway, as opposed to traveling either distances to marked crosswalks. The existence of a center turn lane with a raised median at a left turn pocket provides a 'safe stop' for pedestrians crossing in either direction. Additionally, the focus area includes a pedestrian walkway and stairs that allow direct access to the commercial area in the same location, creating, in essence, a flow for pedestrian traffic.

A number of options exist for addressing the issue. The main option and the purpose for this study session is to discuss the acceptance of a grant from the Washington State Department of Transportation (WSDOT) to install a pedestrian crosswalk with user-activated red lights that would stop vehicular traffic so pedestrians can cross safely.

A second option is to create some sort of barrier that would preclude pedestrians' ability to cross at the focus area. Two options exist as part of this discussion:

- Installing a wall or fence along the north side of the roadway
- Installing a center median barrier in the roadway

Both of these options create engineering challenges and in all likelihood would not adequately address the issue. A wall or fence along the north side of the roadway (which to a certain extent already exists) would need to be constructed on the north side of the sidewalk and potentially outside of the right-of-way, creating private property discussions. Additionally, the fence or wall

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could only be built up to the driveway entrance to the multi-family complexes in the focus area. The pedestrians who are crossing the roadway most frequently cross at the driveway entrances, so the fence or wall would have no impact on the foot traffic.

A center median also creates engineering challenges and would necessarily need a review process by the WSDOT. The installation of a center-median barrier would need to be installed only to a point where a left turn pocket in the center turn lane exists, leaving gaps in the barrier. These left turn pockets coincide with the driveway entrances mentioned above, thereby rendering them ineffective in controlling the pedestrian traffic.

Both of these options are engineering solutions. Additional options include increased enforcement of mid-block crossing violators and increased education. Education can be achieved by posting signage and utilizing both traditional and non-traditional media outlets to caution pedestrians about the dangers and penalties associated with mid-block crossings. Enforcement of mid-block crossing, commonly referred to as “Jaywalking”, is accomplished through the issuance of a non-traffic infraction and an associated monetary penalty of \$56.00.

Jaywalking enforcement creates its own challenges, as the violations must occur in the officers’ presence. Posting an officer for this purpose can be done, but it is not a responsible allocation of resources considering the workload that won’t be addressed during the timeframe. Additionally, staff feel strongly that with even proactive enforcement of the Jaywalking law, the enforcement will not address the issue to a point where there is no longer any risk.

Staff looks forward to engaging in conversation with the Council and are eager to discuss ideas and suggestions.

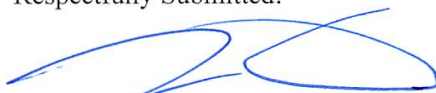
**CITY MANAGER RECOMMENDATION:**

None – this is a study session only

**ATTACHMENTS:**

- Attachment “A”: Pedestrian/ bicycle crash heat map
- Attachment “B”: WSDOT pedestrian crossing study data

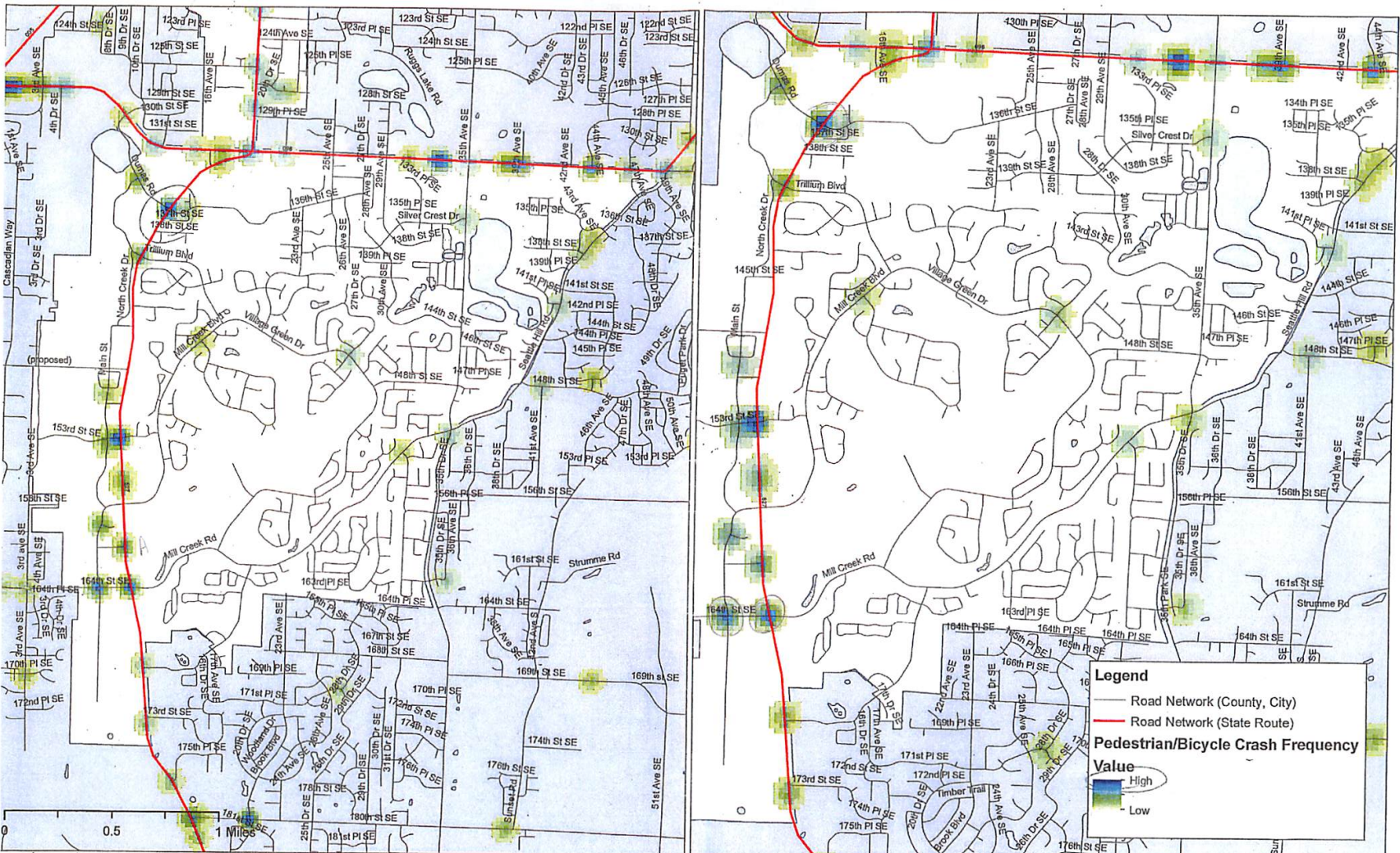
Respectfully Submitted:



Michael G. Ciaravino  
City Manager



# Pedestrian and Bicycle Crash Frequency Map 2012 to 2016 - Mill Creek

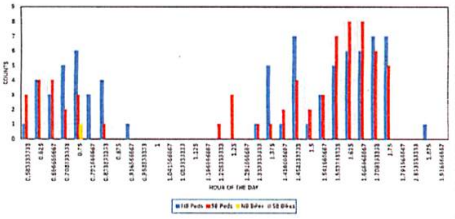


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NB Peds	1	2	4	2	3	2	3	4	0	0	0	0	0	0	0	0	0	0	0	1	5	7	7	1	3	5	6	6	7	7	0	0	1	0	0			
SB Peds	3	4	4	2	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	3	2	8	4	0	0	0	0	0	0	0			
NB Bikes	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
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																																					Total Ped	112
																																					Total Bike	40
																																					Total Bike	1

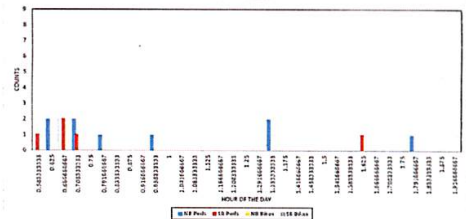
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SB Peds	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB Bikes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB Bikes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



SR 96 MP2.24



SR 96 MP2.28







Agenda Item # F  
Meeting Date: May 14, 2019

## **CITY COUNCIL AGENDA SUMMARY**

City of Mill Creek, Washington

**AGENDA ITEM:** 132<sup>ND</sup> STREET MID BLOCK CROSSING –PEDESTRIAN AND BICYCLE PROGRAM ADVANCE NOTICE OF POTENTIAL GRANT AWARD

**PROPOSED MOTION:**

Authorize the City Manager to execute a project summary sheet for the 132<sup>nd</sup> Street Mid-Block Crossing Pedestrian and Bicycle Grant Program that confirms the final scope of work, timeline and budget for the project.

**KEY FACTS AND INFORMATION SUMMARY:**

State Route 96 (SR 96), also known as 132<sup>nd</sup> Street SE within City boundaries, is a major east/west arterial that connects much of the City of Mill Creek and the eastern portion of South Snohomish County to Interstate 5. This area has experienced significant growth over the past two decades, which has resulted in a significant amount of traffic utilizing SR 96. In 2015, approximately 35,000 vehicles per day used SR 96. This number is expected to rise to 40,000 trips per day by 2040.

The SR 96 corridor is situated in an urban setting and has both residential and commercial uses in close proximity. Additionally, there are residential uses located directly across the street from commercial uses, often several hundred feet from a convenient and safe place to cross. This has led to areas where pedestrians regularly attempt to cross SR 96 mid-block instead of at a controlled signalized intersection.

In spring 2018, the City submitted two State grant applications to support costs associated with the installation of a HAWK (High-Intensity Activated crosswalk) signal west of 35<sup>th</sup> Ave. SE. A HAWK signal is a pedestrian activated signal beacon designed to help pedestrians safely cross busy streets. The project is included in the 2019-2024 Capital Improvement Plan and its implementation is contingent on Council approval.

On May 7<sup>th</sup>, WSDOT provided City staff with an advanced notice of potential funding award for the Pedestrian and Bicycle Program Grant Application. In preparation for the Governor's signature of the Transportation Budget, WSDOT has requested that the City provide a signed project summary that confirms the project scope, timeline and budget by Friday May 17<sup>th</sup> (Attachment).

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**Project Schedule:**

Begin PE	09/2019
Environmental Documents Approved	08/2020
Right-of-Way Approved	09/2020
Estimated Contract Ad	12/2020
Estimated Contract Award Date	01/2021
Open to Traffic	06/2021

**Project Cost and Award Amount:**

Phase	Total Project Cost	Amount Requested	Amount Awarded
Preliminary Engineering	\$87,000	\$78,300	\$78,300
Right-of-Way	\$	\$	\$
Construction	\$663,000	\$596,700	\$596,700
<b>Total</b>	<b>\$750,000</b>	<b>\$675,000</b>	<b>*\$675,000</b>

\*City required match is \$75,000.

In order to receive this grant, the City is required to provide a 10% match (\$75,000). This expenditure was anticipated in the adopted 2019-2024 Capital Improvement Plan. City Council has expressed an interest in cost-sharing with Snohomish County. City staff have conferred with their County contemporaries and have been advised that the County is only prepared to provide design review services for the project. It should be noted that once the HAWK signal is installed, maintenance will be included in the maintenance ILA with the county, so their commitment to support this project will be ongoing.

**CITY MANAGER RECOMMENDATION:**

Authorize the City Manager to execute a project summary sheet for the 132<sup>nd</sup> Street Mid-Block Crossing Pedestrian and Bicycle Grant Program that confirms the final scope of work, timeline and budget for the project.

**ATTACHMENTS:**

- Attachment : Project Summary for Pedestrian and Bicycle Program –Advance Notice of Potential Grant Award

Respectfully Submitted:



Michael G. Ciaravino  
City Manager



**Project Summary**

**Program:** Pedestrian and Bicycle  
**Date:** June 2019  
**Agency:** Mill Creek  
**Project Title:** 132<sup>nd</sup> Street Mid-Block Crossing

**Project Description:** Pedestrian hybrid beacon, pedestrian refuge island, lighting, marked crossings.

**Detailed Project Description:**

Install mid-block crossing on 132nd Street SE, west of 35th Avenue SE (near Rite Aid pharmacy) to include:

1. Marked crosswalk
2. HAWK signal (interconnected with 35<sup>th</sup> Ave traffic signal)
3. Lighting improvements
4. Pedestrian Refuge Island
5. ADA ramps
6. Signage

**Project Schedule:**

Begin PE	09/2019
Environmental Documents Approved	08/2020
Right-of-Way Approved	09/2020
Estimated Contract Ad	12/2020
Estimated Contract Award Date	01/2021
Open to Traffic	06/2021
Design Complete (Design-only projects)	N/A

**Project Cost and Award Amount:**

Phase	Total Project Cost	Amount Requested	Amount Awarded
Preliminary Engineering	\$87,000	\$78,300	\$78,300
Right-of-Way	\$	\$	\$
Construction	\$663,000	\$596,700	\$596,700
<b>Total</b>	<b>\$750,000</b>	<b>\$675,000</b>	<b>\$675,000</b>

If you agree to the project summary described above, please sign below and return to [Charlotte Claybrooke](#) or [Brian Wood](#).

**Concurrence:** I agree to the project summary described above.

**Approving Authority Name (Print):** \_\_\_\_\_

**Approving Authority Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_



Agenda Item # G  
Meeting Date: May 14, 2019

**CITY COUNCIL AGENDA SUMMARY**  
City of Mill Creek, Washington

**AGENDA ITEM: ART & BEAUTIFICATION UTILITY BOX PROJECT ON SR 527**

**PROPOSED MOTION:**

Approve the Art & Beautification Board’s second utility box project and authorize staff to utilize up to \$4,389 from the Municipal Arts Fund – of which \$2,000 is reimbursable from a grant following expenditure.

**KEY FACTS AND INFORMATION SUMMARY:**

In 2016, the Art & Beautification Board identified a potential beautification project for the City that would incorporate art into the City’s visual landscape. The project idea came from other municipalities that had created wraps for their utility boxes, turning something grey and unappealing into a work of art that is visually appealing.

In June 2018, the Art & Beautification Board presented the City Council with concepts for the first of three proposed utility box location sites. This site is located at the corner of Main Street and Mill Creek Blvd. The Council allowed for \$5,000 in funding to provide an artist stipend for design, and to allow for production of the vinyl utility box wraps for the initial project site.

Wraps for the first project site were completed in August 2018 (before and after images are shown at right). Community feedback has been generally positive. The total cost of the first set of utility boxes was \$4,302.56.

Last year, the Art & Beautification Board moved forward with work for the next project site. Originally, the Board had identified a site of Dumas Road at North Creek Road. However, the site is not as highly visible as another set of utility boxes along SR 527.





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Staff contacted the Washington State Department of Transportation, who owns the boxes at the corner of Dumas Road and SR 527. They are willing to let the City wrap the boxes as long as they approve the final designs.

Board members and staff worked with the Jackson High School Art Teacher Kaja Smith in spring 2018 to have students create designs that will be used on the second set of utility boxes. The art was provided to the City as the end of the school year. To provide the community with an opportunity to help select the designs for the utility boxes, the student art was displayed in Mill Creek Town Center as part of last year's Art Walks and people identified their top choices for inclusion.



Utility wraps are vinyl, graffiti resistant and washable. They generally have a life span of five to seven years.

**Design Concepts Box Location Two along SR 527**

After identifying the top selections for prominent placement, the Art & Beautification Board worked with Evermark, the company produced the last set of utility box wraps, to identify graphical design for the full set. The work on this set of boxes is slightly more complicated than the last set due to the merging of stand-alone pieces of art. Concepts are shown below.

*Set of three images to be used on the south-facing side of the utility boxes*



*Image to be used on the street-facing side*



*Set of three images to be used on the north-facing side of the utility boxes*



*Image to be used on the side facing Mill Creek Sports*

Graphical design is needed to adjust the images for the exact specifications of these boxes. In addition, a call-out recognizing the work of Jackson High School art students and their teacher would be included in the final design.

**Cost**

For design assistance and production of the wraps, the estimate is \$3,990. We recommend a 10% contingency (\$399) for any unanticipated production costs, bringing the total funds request to \$4,389.

To offset costs of utility box projects for both the second and third locations (the third site being adjacent to Mill Creek Elementary), staff applied for a Snohomish County Arts Commission Grant for each project (limited to \$2,000 per project). The City was notified in late March that we have been approved for our \$4,000 request, pending County Council final approval.

With the \$2,000 grant for this second utility box location, the remaining out-of-pocket cost for the City would be no more than \$2,389. The Municipal Arts Fund has a current balance of \$30,000.

**Next Steps**

Upon approval of this by the City Council, staff will submit an art plan to WSDOT for final approval. Contingent upon WSDOT approval, the wraps will be produced and installed in late spring or early summer of 2019.

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The Art & Beautification Board also is working on the project for the third utility box location by Mill Creek Elementary. Board Member Jeanne Smart has connected with the school principal, who is excited about an elementary school art project for the utility boxes near them. Mill Creek Elementary PTA has some funds that could be used for such an art project. Member Smart will continue to work with the school to see if art can be developed this year.

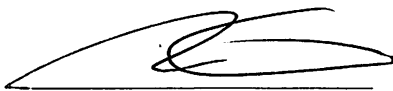
**CITY MANAGER RECOMMENDATION:**

Approve a motion to approve the second utility box project and authorize staff to utilize up to \$4,389 from the Municipal Arts Fund – of which \$2,000 is reimbursable from a grant following expenditure.

**ATTACHMENTS:**

N/A

Respectfully Submitted:



Michael G. Ciaravino  
City Manager





Agenda Item #   H         
Meeting Date: May 14, 2019

## **CITY COUNCIL AGENDA SUMMARY**

City of Mill Creek, Washington

**AGENDA ITEM:   SURFACE WATER AGING INFRASTRUCTURE (2019 GRADE F PIPE REPAIRS) –AWARD CONSTRUCTION CONTRACT**

**PROPOSED MOTION:**

Authorize the City Manager to execute a contract with Road Construction Northwest, Inc. for the construction of the Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs) Project in an amount not to exceed \$749,325.

**KEY FACTS AND INFORMATION SUMMARY:**

The City’s Surface Water Capital Program currently focuses on pipes with a minimum diameter of 18 inches since their potential failure could have a negative effect on life, property or a combination of both. This *larger* infrastructure represents a total of 35,800 LF (approximately fourteen percent of the City’s total surface water pipe infrastructure). Under their Contract 2018-1417, Mill Creek Storm Pipe Assessment, Perteet identified pipe faults and graded their severity on a 3-tiered level of granularity: A, C and F. A graded faults were not expected to impact the longevity of the pipe. C graded faults were recommended for repair within ten years. The most severe faults were graded F and recommended to be repaired within one year (summer 2019).

The Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs) Project was advertised for construction bid on April 9<sup>th</sup>, 2019 and the repairs take into consideration various repair methods including open trench, slip-lining, cured in place pipe and spot repairs such as pipe banding at failed joints or pipe section removal and replacement. Bids were opened on May 1, 2019 and the City received two bids as shown in Attachment A. Both bids were above the engineer’s estimate of \$443,720. This higher cost is likely due to the time of the year in which the project was advertised and the inherit risk associated with surface water pipe rehabilitation and replacement.

Staff has checked references and information included in the supplemental bidder responsibility forms and has confirmed that Road Construction Northwest, Inc. is the lowest responsible bidder.

**Estimate Construction Phase Total Cost and Funding**

The total construction phase is estimated at \$1,064,055 as shown in Table 1 below. This contract, and other expenditures identified in Table 1, will be funded with bond proceeds. The City anticipates receiving bond proceeds of \$2,800,000 in early July.

Table 1. Construction Phase Total Cost Estimate

<b>Item</b>	<b>Contract</b>	<b>Amount</b>
1	Road Construction Northwest, Inc.	\$749,325
2	Perteet (design support)	\$15,000
3	Inspection (consultant)	\$149,865
4	Contingency (20%)	\$149,865
Total		\$1,064,055

The total construction contract time is 65 working days and construction is planned to begin in the summer months when surface water flows are lowest.

**CITY MANAGER RECOMMENDATION:**

Authorize the City Manager, to execute a contract with Road Construction Northwest, Inc. for the construction of the Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs) Project in an amount not to exceed \$749,325.

**ATTACHMENTS:**

- Attachment A: Bid Tabulation for Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)
- Attachment B: Contract 2019-X Construction Contract – Road Construction Northwest, Inc.

Respectfully Submitted:



Michael G. Ciaravino  
City Manager

*Please note that because this is a construction project the contract itself consists of the contract document that incorporates the call for bids, the contractor's proposal, including bid schedules, information required of bidder, proposal bond and all required certificates and affidavits, the performance bond, the Public Works Payment Bond, the contract provisions included within the bid package, the plans and specifications, addendums and future change orders. The entire package has been reviewed by staff, our consulting engineers and City Attorney's Office prior to bid. Due to the size and technical nature of these documents, they are not included as part of this agenda item; however, the contract template included in the bid package that incorporates the aforementioned documents is included as a reference. When the contract is formally authorized by Council, the staff, consulting engineers and contractor will effectuate the various provisions of the documents.*

Attachment A



Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
 City of Mill Creek  
**Bid Tabulation**  
 Bid Opening: 1:30 pm, Wednesday, May 1, 2019

ITEM #	SPEC SECTION	ITEM	QUANTITY	UNIT	Engineer's Estimate		A-1 Landscaping		Road Construction Northwest	
					UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1A	1-04.4 SP	Minor Change	1	EST	\$ 30,000	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00
2A	1-05.4 SP	Surveying	1	LS	\$ 7,000	\$7,000.00	\$18,700.00	\$18,700.00	\$10,000.00	\$10,000.00
3A	1-05.18 SP	Record Drawings (Min. Bid = \$3,000)	1	LS	\$ 3,000	\$3,000.00	\$4,200.00	\$4,200.00	\$5,000.00	\$5,000.00
4A	1-07.15	SPCC Plan	1	LS	\$ 500	\$500.00	\$3,500.00	\$3,500.00	\$2,200.00	\$2,200.00
5A	1-07.17 SP	Utility Potholing	1	LS	\$ 28,000	\$28,000.00	\$18,000.00	\$18,000.00	\$22,500.00	\$22,500.00
6A	1-09.7	Mobilization	1	LS	\$ 34,800	\$34,800.00	\$120,000.00	\$120,000.00	\$75,000.00	\$75,000.00
7A	1-10SP	Project Temporary Traffic Control	1	LS	\$ 52,100	\$52,100.00	\$38,000.00	\$38,000.00	\$70,000.00	\$70,000.00
8A	2-01 SP	Clearing and Grubbing	1	LS	\$ 1,500	\$1,500.00	\$18,000.00	\$18,000.00	\$18,500.00	\$18,500.00
9A	2-02 SP	Remove Cement Conc. Curb and Gutter	70	LF	\$ 20	\$1,400.00	\$15.00	\$1,050.00	\$60.00	\$4,200.00
10A	2-02 SP	Saw Cutting	190	LF	\$ 3	\$570.00	\$10.00	\$1,900.00	\$8.00	\$1,520.00
11A	2-02 SP	Remove Existing Pipe	160	LF	\$ 20	\$3,200.00	\$35.00	\$5,600.00	\$40.00	\$6,400.00
12A	2-09	Structure Excavation Cl. B Incl. Haul	300	CY	\$ 50	\$15,000.00	\$135.00	\$40,500.00	\$60.00	\$18,000.00
13A	2-09	Shoring or Extra Excavation Cl. B	1640	SF	\$ 3	\$4,920.00	\$15.00	\$24,600.00	\$1.00	\$1,640.00
14A	2-09	Gravel Backfill for Pipe Zone Bedding	22	CY	\$ 50	\$1,100.00	\$95.00	\$2,090.00	\$150.00	\$3,300.00
15A	2-09	Controlled Density Fill	13	CY	\$ 150	\$1,950.00	\$300.00	\$3,900.00	\$275.00	\$3,575.00
16A	4-04	Crushed Surfacing Top Course	190	TON	\$ 60	\$11,400.00	\$85.00	\$16,150.00	\$80.00	\$15,200.00
17A	5-04SP	Pavement Repair Excavation Incl. Haul	40	SY	\$ 150	\$6,000.00	\$90.00	\$3,600.00	\$70.00	\$2,800.00
18A	5-04SP	HMA for Pavement Repair CL. 1/2" PG58H-22	10	TON	\$ 285	\$2,850.00	\$800.00	\$8,000.00	\$530.00	\$5,300.00
19A	7-04	Corrugated Polyethylene Storm Sewer Pipe 12 In. Diam.	6	LF	\$ 55	\$330.00	\$250.00	\$1,500.00	\$600.00	\$3,600.00
20A	7-04	Corrugated Polyethylene Storm Sewer Pipe 18 In. Diam.	6	LF	\$ 60	\$360.00	\$350.00	\$2,100.00	\$1,450.00	\$8,700.00
21A	7-04	Corrugated Polyethylene Storm Sewer Pipe 24 In. Diam.	135	LF	\$ 100	\$13,500.00	\$390.00	\$52,650.00	\$450.00	\$60,750.00
22A	7-04	Corrugated Polyethylene Storm Sewer Pipe 36 In. Diam.	6	LF	\$ 150	\$900.00	\$550.00	\$3,300.00	\$2,900.00	\$17,400.00
23A	7-04 SP	SCIPL Patch for 18 In. Pipe	12	LF	\$ 700	\$8,400.00	\$1,200.00	\$14,400.00	\$800.00	\$9,600.00
24A	7-04 SP	SCIPL Patch for 24 In. Pipe	14	LF	\$ 700	\$9,800.00	\$2,500.00	\$35,000.00	\$1,200.00	\$16,800.00
25A	7-04 SP	SCIPL Patch for 44 In. Pipe	5	LF	\$ 1,200	\$6,000.00	\$4,400.00	\$22,000.00	\$1,800.00	\$9,000.00
26A	7-04 SP	HDPE Pipe for Snap Together Jointed Storm Sewer Liner, 14 In. O.D.	146	LF	\$ 150	\$21,900.00	\$450.00	\$65,700.00	\$450.00	\$65,700.00
27A	7-04 SP	HDPE Pipe for Snap Together Jointed Storm Sewer Liner, 32 In. O.D.	143	LF	\$ 260	\$37,180.00	\$600.00	\$85,800.00	\$550.00	\$78,650.00
28A	7-04 SP	CCTV Inspection	4060	LF	\$ 6	\$24,360.00	\$10.00	\$40,600.00	\$1.25	\$5,075.00
29A	7-04 SP	Bypass Pumping	1	LS	\$ 8,250	\$8,250.00	\$25,400.00	\$25,400.00	\$19,500.00	\$19,500.00
30A	7-07 SP	Clean Existing Drainage Structure	1	LS	\$ 25,900	\$25,900.00	\$28,000.00	\$28,000.00	\$4,000.00	\$4,000.00
31A	7-05	Catch Basin Type 2 48 In. Diam.	2	EA	\$ 4,500	\$9,000.00	\$9,800.00	\$19,600.00	\$15,000.00	\$30,000.00
32A	7-05	Catch Basin Type 2 60 In. Diam.	1	EA	\$ 6,000	\$6,000.00	\$16,000.00	\$16,000.00	\$22,000.00	\$22,000.00
33A	7-05	Connect to Drainage Structure	8	EA	\$ 1,500	\$12,000.00	\$1,800.00	\$14,400.00	\$2,500.00	\$20,000.00
34A	7-20 SP	Grouting of Annular Spaces for 18-In. Diam. Host Pipe	1	LS	\$ 3,000	\$3,000.00	\$12,000.00	\$12,000.00	\$13,000.00	\$13,000.00
35A	7-20 SP	Grouting of Annular Spaces for 36-In. Diam. Host Pipe	1	LS	\$ 6,000	\$6,000.00	\$16,000.00	\$16,000.00	\$16,000.00	\$16,000.00
36A	8-01	Silt Fence	95	LF	\$ 5	\$475.00	\$18.00	\$1,710.00	\$7.00	\$665.00
37A	8-01 SP	Erosion/Water Pollution Control	1	LS	\$ 7,000	\$7,000.00	\$16,000.00	\$16,000.00	\$7,000.00	\$7,000.00
38A	8-01 SP	Inlet Protection	17	EA	\$ 125	\$2,125.00	\$220.00	\$3,740.00	\$100.00	\$1,700.00
39A	8-02 SP	Property Restoration	1	FA	\$ 30,000	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00
40A	8-04	Cement Conc Vertical Curb and Gutter	50	LF	\$ 85	\$4,250.00	\$90.00	\$4,500.00	\$215.00	\$10,750.00
41A	8-04SP	Cement Conc Rolled Curb and Gutter	20	LF	\$ 85	\$1,700.00	\$120.00	\$2,400.00	\$215.00	\$4,300.00
<b>TOTAL (PRICES INCLUDE TAX)</b>						<b>\$ 443,720.00</b>		<b>\$ 870,590.00</b>		<b>\$ 749,325.00</b>



**SURFACE WATER AGING INFRASTRUCTURE  
(2019 GRADE F PIPE REPAIRS)  
CITY OF MILL CREEK**



**CONTRACT PROVISIONS**

for

Surface Water Aging Infrastructure  
(2019 Grade F Pipe Repairs)

PROJECT NUMBER 19-SW-01

April 2019

Reviewed and  
Concurred with:

*B. M. Stutts*  
City of Mill Creek

4/5/19  
Date



**CALL FOR BIDS**

**CITY OF MILL CREEK**

**SURFACE WATER AGING INFRASTRUCTURE  
(2019 GRADE F PIPE REPAIRS)**

**ENGINEER'S ESTIMATE (\$484,000 – 592,000)**

Sealed Proposals will be received by the undersigned at the City of Mill Creek, 15728 Main Street, Mill Creek, Washington 98012, up to **1:30 PM** local time on **May 1, 2019**, for furnishing the necessary labor, materials, equipment, tools, and guarantees thereof to construct the **Surface Water Aging Infrastructure (Grade F Pipe Repairs) Project**.

Work includes the improvement of stormwater infrastructure, particularly large diameter storm pipes and miscellaneous items as further shown, described, and indicated in the Contract Documents.

The Work shall be physically complete within 65 working days after the commencement date stated in the Notice to Proceed. All bidding and construction is to be performed in compliance with the Contract Provisions and Contract Plans for this project and any addenda issued thereto that are on file at the office of the City Clerk, City Hall, Mill Creek, Washington.

The Proposals will be publicly opened and read aloud shortly after the time and date stated above. Proposals are to be submitted only on the form provided with the Contract Provisions. All Proposals must be accompanied by a certified check, cashier's check, money order, or bid bond payable to the "City of Mill Creek" and in an amount of not less than five percent (5%) of the total amount bid.

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

Bid documents (Plans, Specifications, addenda) and planholder's list for this Project are available through the City of Mill Creek's on-line plan room at <http://bxwa.com>. Click on "Posted Projects", "Public Works", "City of Mill Creek" and "Projects Bidding".

CB-1

Bidders are required to register in order to receive automatic email notification of future addenda and be placed on the Bidders List. Contact Builders Exchange of Washington at (425) 258-1303 should you require assistance.

Financing of the Project has been provided by City of Mill Creek, Washington. . The City of Mill Creek expressly reserves the right to reject any or all Proposals and to waive minor irregularities or informalities and to award the Project to the lowest responsive, responsible bidder, as it best serves the interests of the City.

Questions regarding this project shall be submitted in writing to Gina Hortillosa via email at [swpiperepairs@cityofmillcreek.com](mailto:swpiperepairs@cityofmillcreek.com). Questions via phone will not be accepted. Bidders shall submit questions no later than end of business day six (6) business days prior to bid opening.

This project includes supplemental bidder responsibility and qualifications criteria as outlined in the project specifications.

(Signed)

\_\_\_\_\_  
**GINA PFISTER,  
CITY CLERK**

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**CONTRACT PROVISIONS**

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(2019 Grade F Pipe Repairs)**

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WASHINGTON STATE PREVAILING WAGE RATES

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Appendix A – Supplemental Bidder Responsibility Criteria Forms  
Appendix B – Standard Plans  
Appendix C – City of Mill Creek 2019 Community Events List  
Appendix D – Permits (*TCEs to be included when secured*)  
Appendix E – WSDOT Traffic Control Plans  
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Appendix G – Retainage Agreement

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PART 1  
Bid Documents

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**SURFACE WATER AGING INFRASTRUCTURE  
(2019 GRADE F PIPE REPAIRS)**

**PROPOSAL**

City of Mill Creek  
15728 Main Street  
Mill Creek, Washington 98012

The undersigned has examined the Work site(s), local conditions, the Contract, and all applicable laws and regulations covering the Work. The following unit and lump sum prices are tendered as an offer to perform the Work in accordance with all of the requirements set forth in the Contract and all applicable laws and regulations.

As required by the law, a postal money order, certified check, cashier's check or Proposal bond made payable to the Contracting Agency and in an amount of not less than five percent (5%) of the total amount of the bid is attached hereto. If this Proposal is accepted and the undersigned fail(s) or refuse(s) to enter into a contract and furnish the required performance bond, labor and material payment bond, special guarantee bonds (if required), required insurance and all other required documentation, the undersigned will forfeit to the Contracting Agency an amount equal to five percent of the Proposal amount.

After the date and hour set for submitting the Proposals, no bidder may withdraw its Proposal, unless the award of the contract is delayed for a period exceeding 60 consecutive calendar days.

The undersigned agrees that in the event it is awarded the contract for the Work, it shall employ only Contractors and Subcontractors that are duly licensed by the State of Washington and remain so at all times they are in any way involved with the Work.

The undersigned agrees that the Contracting Agency reserves the right to reject any or all Proposals and to waive any minor irregularities and informalities in any Proposal.

**The undersigned agrees that the Contracting Agency reserves the right to reject any or all Proposals and to waive minor irregularities or informalities and to award the Contract to the lowest responsible, responsive bidder, as it best serves the interests of the City. The Contracting Agency will determine at the time of award of the Contract which schedule will be included in the Contract.**

**PROPOSAL - Continued**

Bid Schedule

**BASE BID:**

ITEM NO.	SPEC SECTION	ITEM	QUANTITY	UNIT	UNIT COST	PRICE
1A	1-04.4 SP	Minor Change	1	EST	\$ 30,000	\$ 30,000.00
2A	1-05.4 SP	Surveying	1	LS	\$	\$
3A	1-05.18 SP	Record Drawings (Min. Bid =\$3,000)	1	LS	\$	\$
4A	1-07.15	SPCC Plan	1	LS	\$	\$
5A	1-07.17 SP	Utility Potholing	1	LS	\$	\$
6A	1-09.7	Mobilization	1	LS	\$	\$
7A	1-10SP	Project Temporary Traffic Control	1	LS	\$	\$
8A	2-01 SP	Clearing and Grubbing	1	LS	\$	\$
9A	2-02 SP	Remove Cement Conc. Curb and Gutter	70	LF	\$	\$
10A	2-02 SP	Saw Cutting	190	LF	\$	\$
11A	2-02 SP	Remove Existing Pipe	160	LF	\$	\$
12A	2-09	Structure Excavation Cl. B Incl. Haul	300	CY	\$	\$
13A	2-09	Shoring or Extra Excavation Cl. B	1640	SF	\$	\$
14A	2-09	Gravel Backfill for Pipe Zone Bedding	22	CY	\$	\$
15A	2-09	Controlled Density Fill	13	CY	\$	\$
16A	4-04	Crushed Surfacing Top Course	190	TON	\$	\$
17A	5-04SP	Pavement Repair Excavation Incl. Haul	40	SY	\$	\$
18A	5-04SP	HMA for Pavement Repair CL. 1/2" PG58H-22	10	TON	\$	\$
19A	7-04	Corrugated Polyethylene Storm Sewer Pipe 12 In. Diam.	6	LF		
20A	7-04	Corrugated Polyethylene Storm Sewer Pipe 18 In. Diam.	6	LF	\$	\$
21A	7-04	Corrugated Polyethylene Storm Sewer Pipe 24 In. Diam.	135	LF	\$	\$
22A	7-04	Corrugated Polyethylene Storm Sewer Pipe 36 In. Diam.	6	LF		
23A	7-04 SP	SCIPL Patch for 18 In. Pipe	12	LF	\$	\$
24A	7-04 SP	SCIPL Patch for 24 In. Pipe	14	LF	\$	\$
25A	7-04 SP	SCIPL Patch for 44 In.	5	LF	\$	\$

**PROPOSAL - Continued**

		Pipe				
26A	7-04 SP	HDPE Pipe for Snap Together Jointed Storm Sewer Liner, 14 In. O.D.	146	LF	\$	\$
27A	7-04 SP	HDPE Pipe for Snap Together Jointed Storm Sewer Liner, 32 In. O.D.	143	LF	\$	\$
28A	7-04 SP	CCTV Inspection	4060	LF	\$	\$
29A	7-04 SP	Bypass Pumping	1	LS	\$	\$
30A	7-07 SP	Clean Existing Drainage Structure	1	LS	\$	\$
31A	7-05	Catch Basin Type 2 48 In. Diam.	2	EA	\$	\$
32A	7-05	Catch Basin Type 2 60 In. Diam.	1	EA	\$	\$
33A	7-05	Connect to Drainage Structure	8	EA	\$	\$
34A	7-20 SP	Grouting of Annular Spaces for 18-In. Diam. Host Pipe	1	LS	\$	\$
35A	7-20 SP	Grouting of Annular Spaces for 36-In. Diam. Host Pipe	1	LS	\$	\$
36A	8-01	Silt Fence	95	LF	\$	\$
37A	8-01 SP	Erosion/Water Pollution Control	1	LS	\$	\$
38A	8-01 SP	Inlet Protection	17	EA	\$	\$
39A	8-02 SP	Property Restoration	1	FA	\$ 30,000	\$ 30,000.00
40A	8-04	Cement Conc Vertical Curb and Gutter	50	LF	\$	\$
41A	8-04SP	Cement Conc Rolled Curb and Gutter	20	LF	\$	\$

Subtotal (Base Bid): .....\$ \_\_\_\_\_

TOTAL CONSTRUCTION COST (BASE BID): .....\$ \_\_\_\_\_

**Notes:**

- A bid must be received on all items.**
- Sales tax to be included in the various bid items.**



**PROPOSAL - Continued**

**BIDDER'S INFORMATION**

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

Contact Person for this Project: \_\_\_\_\_

E-mail: \_\_\_\_\_

**WORK COMPLETED BY CONTRACTOR**

List the Work and the dollar amount thereof that the Contractor will complete with its forces, if awarded the contract.

<b>Work to be Performed</b>	<b>Dollar Amount</b>

**PROPOSAL - Continued**

**PROPOSED SUBCONTRACTORS** (Per RCW 39.30.060)

For Proposals exceeding one million dollars, indicate who (either the Contractor submitting this bid or a subcontractor) will be completing the work for each of the three categories listed below. Information shall include their Washington State Department of Licensing Contractor's Registration No. This information shall be provided with the Proposal or within one hour after the published Proposal submittal time in accordance with RCW 39.30.060.

<b>Work to be Performed</b>	<b>Subcontractor or Prime (Name and Registration Number)</b>

**PROPOSAL - Continued**

**ADDENDA RECEIVED**

Addendum No.	Date Received	Name of Recipient

**NOTE: Bidder shall acknowledge receipt of all addenda. Bidder is responsible for verifying the actual number of addenda issued prior to submitting a Proposal.**

Subject to any extensions of the Contract time granted under the Contract, the undersigned agrees to physically complete the Work required under this contract within 65 working days (the Physical Completion Date) from when Contract Time begins.

The undersigned is, and will remain in, full compliance with all Washington State administrative agency requirements including, but not limited to registration requirements of Washington State Department of Labor & Industries for contractors, including but not limited to requirements for bond, proof of insurance and annual registration fee. The undersigned's Washington State:

Dept. of Labor and Industries Workman's Compensation Account No. is \_\_\_\_\_;  
 Dept. of Licensing Contractor's Registration No. is \_\_\_\_\_;  
 Unified Business Identifier Number is \_\_\_\_\_;  
 Excise Tax Registration Number is \_\_\_\_\_; and  
 Employment Security Account Number is \_\_\_\_\_.

The undersigned has reviewed all insurance requirements contained in the Contract and has verified the availability of and the undersigned's eligibility for all required insurance. The undersigned verifies that the cost for all required insurance has been included in this Proposal.

In relation to claims related in whole or in part to workplace injuries to employees, the undersigned waives any immunity granted under the State Industrial Insurance Law, RCW Title 51. This waiver has been specially negotiated by the parties, which is acknowledged by the undersigned in signing this Proposal.

By signing the proposal, the undersigned declares, under penalty of perjury under the laws of the State of Washington, that the following statements are true and correct:

1. That the undersigned person(s) or entity(ies) has(have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this Proposal is submitted.
2. The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (**May 1, 2019**), that the bidder is not a "willful" violator,

**PROPOSAL - Continued**

as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

The undersigned agrees that the Contracting Agency is authorized to obtain information from all references included herein

Sincerely,

\_\_\_\_\_ Date

By: \_\_\_\_\_  
Print Name, Title Location Executed (City, State)

\_\_\_\_\_ Print Company Name

Amount of Proposal deposit: \$ \_\_\_\_\_ Check No. \_\_\_\_\_,

or Proposal bond in the amount of \$ \_\_\_\_\_

\_\_\_\_\_, issued through \_\_\_\_\_  
Name of Bank/Bonding Company

located at \_\_\_\_\_  
Mailing Address

\_\_\_\_\_ Telephone Number of Bank/Bonding Company

Bidder \_\_\_\_\_

Signature of Authorized Official \_\_\_\_\_

Date \_\_\_\_\_

**PROPOSAL BOND**

KNOW ALL MEN BY THESE PRESENTS, That we \_\_\_\_\_

\_\_\_\_\_ of \_\_\_\_\_ as principal, and the \_\_\_\_\_

\_\_\_\_\_ a corporation duly organized under the laws of the state of \_\_\_\_\_, \_\_\_\_\_ and authorized to do business in the State of Washington, as surety, are held and firmly bound unto the **CITY OF MILL CREEK** in the full and penal sum of five percent of the total amount of the bid proposal of said principal for the work hereinafter described, for the payment of which, well and truly to be made, we bind our heirs, executors, administrators and assigns, and successors and assigns, firmly by these presents.

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

**SURFACE WATER AGING INFRASTRUCTURE  
(2019 GRADE F PIPE REPAIRS)**

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

NOW, THEREFORE, If the said proposal bid by said principal be accepted, and the contract be awarded to said principal, and if said principal shall duly make and enter into and execute said Contract and shall furnish bond as required by the **CITY OF MILL CREEK** within a period of 10 days from and after said award, exclusive of the day of such award, then this obligation shall be null and void, otherwise it shall remain and be in full force and effect.

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

\_\_\_\_\_  
\_\_\_\_\_  
(Principal)

\_\_\_\_\_  
(Surety)

\_\_\_\_\_  
(Attorney-in-fact)

PART 2  
Agreement and Bonds

**CONTRACT**

THIS AGREEMENT is entered into by and between the **City of Mill Creek** (hereinafter called the Contracting Agency) and \_\_\_\_\_ (hereinafter called the Contractor).

The Contracting Agency and the Contractor agree as follows:

**ARTICLE 1. WORK.**

Work includes the improvement of stormwater infrastructure, particularly large diameter storm pipes and miscellaneous items as further shown, described, and indicated in the Contract Documents.

**ARTICLE 2. CONTRACT TIME.**

The Contractor shall physically complete the Work within 65 working days (the Physical Completion Date).

**ARTICLE 3. LIQUIDATED DAMAGES.**

The Contracting Agency and the Contractor recognize that time is of the essence and that the Contracting Agency will suffer financial loss if the Work is not completed within the time, plus any extensions thereof, allowed in accordance with the Contract. They also recognize the inconvenience, expense, and difficulties involved in a legal proceeding to prove the actual loss suffered by the Contracting Agency if the Work is not completed within the time allowed in the Contract. Accordingly, instead of requiring any such proof, the Contracting Agency and the Contractor agree that as liquidated damages for delay, and not as a penalty, the Contractor shall pay the Contracting Agency in accordance with Section 1-08.9 of the Standard Specifications for each working day beyond the Physical Completion Date that the Contractor achieves physical completion of the Work.

**ARTICLE 4. CONTRACT PRICE.**

The Contracting Agency shall pay the Contractor the amount(s) set forth in the Proposal (in United States dollars) for completion of the Work in accordance with the Contract.

AGREEMENT – Continued

**ARTICLE 5. CONTRACT.**

The Contract, which comprises the entire agreement between the Contracting Agency and the Contractor concerning the Work, consists of the following:

- This Agreement;
- The Call for Bids;
- The Contractor’s Proposal including the bid, bid schedule(s), information required of bidder, Proposal bond, and all required certificates and affidavits;
- The Performance Bond and the Public Works Payment Bond;
- The Contract Provisions, dated April 2019, including the 2018 WSDOT Standard Specification as referenced;
- The Plans (or drawings) consisting of 22 sheets, as listed in the index on sheet 1 (Drawing CV1) of the Plans;
- Addenda numbers \_\_\_\_\_, inclusive; and
- Change Orders issued after the effective date of this Agreement.

There are no Contract Documents other than those listed in this Article 5. The Contract may be amended only in writing by Change Order as provided in the Contract.

**ARTICLE 6: MISCELLANEOUS.**

For purpose of defending any work place injury claims by employees of the Contractor and Subcontractors, the Contractor waives any immunity granted under the State Industrial Insurance Law, RCW Title 51. This waiver has been specifically negotiated between the parties and is hereby acknowledged by the Contractor.  
\_\_\_\_\_(Contractor’s initials)

The Contractor shall not assign any rights under or interests in the Contract, including but not limited to rights to payment, without the prior written consent of the Contracting Agency. Unless specifically stated in a written consent to an assignment, no assignment will release or discharge the Contractor-assignor from any duty or responsibility under the Contract.

The Contract is binding upon the Contracting Agency and the Contractor, and their respective partners, successors, assigns and legal representatives.



AGREEMENT – Continued

IN WITNESS WHEREOF, Contracting Agency and Contractor have caused this Agreement to be executed the day and year indicated below.

**CITY OF MILL CREEK**

**CONTRACTOR**

By \_\_\_\_\_

License No. \_\_\_\_\_

Date \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Attest \_\_\_\_\_

Name and Address for giving notices (print)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**PERFORMANCE BOND  
to City of Mill Creek, WA**

Bond No. \_\_\_\_\_

The **City of Mill Creek**, Washington, has awarded to \_\_\_\_\_ (Principal), a contract for the construction of the project designated as **Surface Water Aging Infrastructure (2019 Grade F Repairs Project, Project No. 19-SW-01, in Mill Creek, Washington (Contract)**, and said Principal is required to furnish a bond for performance of all obligations under the Contract.

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

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

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

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

PRINCIPAL

SURETY

\_\_\_\_\_  
Principal Signature Date

\_\_\_\_\_  
Surety Signature Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Approved as to form:

\_\_\_\_\_  
City Attorney, City of Mill Creek, Washington Date



PART 3  
Special Provisions

1                                   **INTRODUCTION TO THE SPECIAL PROVISIONS**

2  
3    (*August 14, 2013 APWA GSP*)  
4

5    The work on this project shall be accomplished in accordance with the *Standard*  
6    *Specifications for Road, Bridge and Municipal Construction*, 2018 edition, as  
7    issued by the Washington State Department of Transportation (WSDOT) and the  
8    American Public Works Association (APWA), Washington State Chapter  
9    (hereafter “Standard Specifications”). The Standard Specifications, as modified  
10   or supplemented by the Amendments to the Standard Specifications and these  
11   Special Provisions, all of which are made a part of the Contract Documents, shall  
12   govern all of the Work.  
13

14   These Special Provisions are made up of both General Special Provisions  
15   (GSPs) from various sources, which may have project-specific fill-ins; and  
16   project-specific Special Provisions. Each Provision either supplements, modifies,  
17   or replaces the comparable Standard Specification, or is a new Provision. The  
18   deletion, amendment, alteration, or addition to any subsection or portion of the  
19   Standard Specifications is meant to pertain only to that particular portion of the  
20   section, and in no way should it be interpreted that the balance of the section  
21   does not apply.  
22

23   The project-specific Special Provisions are not labeled as such. The GSPs are  
24   labeled under the headers of each GSP, with the effective date of the GSP and  
25   its source. For example:

- 26  
27            (*March 8, 2013 APWA GSP*)  
28            (*April 1, 2013 WSDOT GSP*)  
29            (*February 2, 2018 MC GSP*)  
30

31   Also incorporated into the Contract Documents by reference are:

- 32  
33            •    *Manual on Uniform Traffic Control Devices for Streets and*  
34                *Highways*, currently adopted edition, with Washington State  
35                modifications, if any  
36            •    *Standard Plans for Road, Bridge and Municipal Construction,*  
37                WSDOT/APWA, current edition  
38

39   Contractor shall obtain copies of these publications, at Contractor’s own  
40   expense.

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01



SPECIAL PROVISIONS

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**DIVISION 1  
GENERAL REQUIREMENTS**

**DESCRIPTION OF WORK**  
*(March 13, 1995 WSDOT GSP)*

This Contract provides for the repair of damaged and/or substandard stormwater infrastructure, particularly large diameter storm pipes, through the installation of sectional cast-in-place liners, pipe slip-lining, partial storm system reconstruction by open-cut methods, and other work all in accordance with the attached Contract Plans, these Special Provisions and the Standard Specifications.

**1-01 DEFINITIONS AND TERMS**

**1-01.3 Definitions**  
*(January 4, 2016 APWA GSP)*

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

**Dates**

***Bid Opening Date***

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

***Award Date***

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

***Contract Execution Date***

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

***Notice to Proceed Date***

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

***Substantial Completion Date***

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any remaining traffic disruptions will be rare and brief, and only minor incidental work, replacement of temporary substitute

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01

SPECIAL PROVISIONS - Continued

1 facilities, plant establishment periods, or correction or repair remains for  
2 the Physical Completion of the total Contract.

3  
4 **Physical Completion Date**

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

8  
9 **Completion Date**

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

14  
15 **Final Acceptance Date**

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

17  
18 Supplement this Section with the following:

19  
20 All references in the Standard Specifications, Amendments, or WSDOT  
21 General Special Provisions, to the terms "Department of Transportation",  
22 "Washington State Transportation Commission", "Commission", "Secretary  
23 of Transportation", "Secretary", "Headquarters", and "State Treasurer"  
24 shall be revised to read "Contracting Agency".

25  
26 All references to the terms "State" or "state" shall be revised to read  
27 "Contracting Agency" unless the reference is to an administrative agency  
28 of the State of Washington, a State statute or regulation, or the context  
29 reasonably indicates otherwise.

30  
31 All references to "State Materials Laboratory" shall be revised to read  
32 "Contracting Agency designated location".

33  
34 All references to "final contract voucher certification" shall be interpreted to  
35 mean the Contracting Agency form(s) by which final payment is  
36 authorized, and final completion and acceptance granted.

37  
38 **Additive**

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

42

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01

SPECIAL PROVISIONS - Continued

1           **Alternate**  
2           One of two or more units of work or groups of bid items, identified  
3           separately in the Bid Proposal, from which the Contracting Agency may  
4           make a choice between different methods or material of construction for  
5           performing the same work.

6  
7           **Business Day**  
8           A business day is any day from Monday through Friday except holidays as  
9           listed in Section 1-08.5.

10  
11          **Contract Bond**  
12          The definition in the Standard Specifications for “Contract Bond” applies to  
13          whatever bond form(s) are required by the Contract Documents, which  
14          may be a combination of a Payment Bond and a Performance Bond.

15  
16          **Contract Documents**  
17          See definition for “Contract”.

18  
19          **Contract Time**  
20          The period of time established by the terms and conditions of the Contract  
21          within which the Work must be physically completed.

22  
23          **Notice of Award**  
24          The written notice from the Contracting Agency to the successful Bidder  
25          signifying the Contracting Agency’s acceptance of the Bid Proposal.

26  
27          **Notice to Proceed**  
28          The written notice from the Contracting Agency or Engineer to the  
29          Contractor authorizing and directing the Contractor to proceed with the  
30          Work and establishing the date on which the Contract time begins.

31  
32          **Traffic**  
33          Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists,  
34          wheelchairs, and equestrian traffic.

35  
36          **1-02 BID PROCEDURES AND CONDITIONS**

37  
38          **1-02.1 Prequalification of Bidders**

39  
40          Delete this Section and replace it with the following:

41  
42                  **1-02.1 Qualifications of Bidder**  
43                  *(January 24, 2011 APWA GSP)*

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01

SPECIAL PROVISIONS - Continued

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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.

Add the following new section:

**1-02.1(1) Supplemental Qualifications Criteria**  
*(February 2, 2018 MC GSP)*

In addition, the Contracting Agency has established Contracting Agency-specific and/or project-specific supplemental criteria, in accordance with RCW 39.04.350(3), for determining Bidder responsibility, including the basis for evaluation and the deadline for appealing a determination that a Bidder is not responsible. These criteria are outlined in Section 1-02.14 of these Special Provisions. The two (2) lowest bidders shall complete and sign the Supplemental Bidder Responsibility Criteria forms contained in Appendix A of these Specifications and submit to the Contracting Agency and submit by the deadline noted on the forms. The information provided on these forms shall be reviewed by the City to evaluate and determine bidder responsibility with regards to the supplemental bid criteria.

**1-02.2 Plans and Specifications**  
*(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")	2	Furnished automatically upon award.
Contract Provisions	2	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	3	Furnished only upon request.

City of Mill Creek  
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SPECIAL PROVISIONS - Continued

1 Additional plans and Contract Provisions may be obtained by the  
2 Contractor from the source stated in the Call for Bids, at the Contractor's  
3 own expense.  
4

5 **1-02.4 Examination of Plans, Specifications, and Site of Work**

6  
7 **1-02.4(1) General**  
8 *(August 15, 2016 APWA GSP Option B)*  
9

10 The first sentence of the last paragraph is revised to read:  
11

12 Any prospective Bidder desiring an explanation or interpretation of the Bid  
13 Documents, shall request the explanation or interpretation in writing by  
14 close of business one (1) business day preceding the bid opening to allow  
15 a written reply to reach all prospective Bidders before the submission of  
16 their Bids.  
17

18 **1-02.5 Proposal Forms**  
19 *(July 31, 2017 APWA GSP)*  
20

21 Delete this Section and replace it with the following:  
22

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

36 The Contracting Agency reserves the right to arrange the proposal forms  
37 with alternates and additives, if such be to the advantage of the  
38 Contracting Agency. The bidder shall bid on all alternates and additives set  
39 forth in the Proposal Form unless otherwise specified.  
40

41 **1-02.6 Preparation of Proposal**  
42 *(February 2, 2018, MC GSP)*  
43

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01

SPECIAL PROVISIONS - Continued

1 Supplement the second paragraph with the following:  
2

- 3 4. If a minimum bid amount has been established for any item, the  
4 unit or lump sum price must equal or exceed the minimum amount  
5 stated.  
6 5. Any correction to a bid made by interlineation, alteration, or  
7 erasure, shall be initialed by the signer of the bid.  
8

9 Delete the fourth paragraph and replace it with the following:  
10

11 The Bidder shall submit with the Bid a completed Underutilized  
12 Disadvantaged Business Enterprise (UDBE) Utilization Certification, when  
13 required by the Special Provisions. For each and every UDBE firm listed  
14 on the Bidder's completed Underutilized Disadvantaged Business  
15 Enterprise Utilization Certification, the Bidder shall submit written  
16 confirmation from that UDBE firm that the UDBE is in agreement with the  
17 UDBE participation commitment that the Bidder has made in the Bidder's  
18 completed Underutilized Disadvantaged Business Enterprise Utilization  
19 Certification. WSDOT Form 422-031U (Underutilized Disadvantaged  
20 Business Enterprise Written Confirmation Document) is to be used for this  
21 purpose. Bidder must submit good faith effort documentation with the  
22 Underutilized Disadvantaged Business Enterprise Utilization Certification  
23 only in the event the bidder's efforts to solicit sufficient UDBE participation  
24 have been unsuccessful. Directions for delivery of the Underutilized  
25 Disadvantaged Business Enterprise Written Confirmation Documents  
26 and Underutilized Disadvantaged Business Enterprise Good Faith Effort  
27 documentation are included in Sections 1-02.9  
28

29 Delete the last paragraph, and replace it with the following:  
30

31 The Bidder shall certify compliance with Contractor Certification Wage  
32 Law. The certification is included in the Proposal form.  
33

34 The Bidder shall make no stipulation on the Bid Form, nor qualify the bid  
35 in any manner.  
36

37 A bid by a corporation shall be executed in the corporate name, by the  
38 president or a vice president (or other corporate officer accompanied by  
39 evidence of authority to sign).  
40

41 A bid by a partnership shall be executed in the partnership name, and  
42 signed by a partner. A copy of the partnership agreement shall be



SPECIAL PROVISIONS - Continued

1 submitted with the Bid Form if any UDBE requirements are to be satisfied  
2 through such an agreement.

3  
4 A bid by a joint venture shall be executed in the joint venture name and  
5 signed by a member of the joint venture. A copy of the joint venture  
6 agreement shall be submitted with the Bid Form if any UDBE  
7 requirements are to be satisfied through such an agreement.

8  
9 **1-02.7 Bid Deposit**  
10 *(March 8, 2013 APWA GSP)*

11  
12 Supplement this section with the following:

13  
14 Bid bonds (also identified as the "Proposal Bond") shall contain the  
15 following:

- 16  
17 1. Contracting Agency-assigned number for the project;  
18  
19 2. Name of the project;  
20  
21 3. The Contracting Agency named as obligee;  
22  
23 4. The amount of the bid bond stated either as a dollar figure or as a  
24 percentage which represents five percent of the maximum bid  
25 amount that could be awarded;  
26  
27 5. Signature of the bidder's officer empowered to sign official  
28 statements. The signature of the person authorized to submit the  
29 bid should agree with the signature on the bond, and the title of the  
30 person must accompany the said signature;  
31  
32 6. The signature of the surety's officer empowered to sign the bond  
33 and the power of attorney.

34  
35 If so stated in the Contract Provisions, bidder must use the bond form  
36 included in the Contract Provisions.

37  
38 If so stated in the Contract Provisions, cash will not be accepted for a bid  
39 deposit.  
40

SPECIAL PROVISIONS - Continued

1 **1-02.9 Delivery of Proposal**  
2 *(February 2, 2018 MC GSP)*

3  
4 Delete this section and replace it with the following:

5  
6 Each Proposal shall be submitted in a sealed envelope, with the Project  
7 Name and Project Number as stated in the Call for Bids clearly marked on  
8 the outside of the envelope, or as otherwise required in the Bid  
9 Documents, to ensure proper handling and delivery.

10  
11 To be considered responsive on a FHWA-funded project, the Bidder may  
12 be required to submit the following items, as required by Section 1-02.6:

- 13  
14 • UDBE Written Confirmation Document from each UDBE firm listed  
15 on the Bidder's completed UDBE Utilization Certification (WSDOT  
16 272-056U);  
17 • Good Faith Effort (GFE) Documentation;  
18 • UDBE Broker Agreement;  
19 • UDBE Trucking Credit Form (WSDOT 272-058)

20  
21 These documents, if applicable, shall be received either with the Bid  
22 Proposal or as a Supplement to the Bid. The documents shall be received  
23 **no later than 24 hours** (not including Saturdays, Sundays and Holidays)  
24 after the time for delivery of the Bid Proposal.

25  
26 If submitted after the Bid Proposal is due, the document(s) must be  
27 submitted in a sealed envelope labeled the same as for the Proposal, with  
28 "Supplemental Information" added. All other information required to be  
29 submitted with the Bid Proposal must be submitted with the Bid Proposal  
30 itself, at the time stated in the Call for Bids.

31  
32 The Contracting Agency will not open or consider any Bid Proposal that is  
33 received after the time specified in the Call for Bids for receipt of Bid  
34 Proposals, or received in a location other than that specified in the Call for  
35 Bids. The Contracting Agency will not open or consider any  
36 "Supplemental Information" (UDBE confirmations, GFE documentation,  
37 UDBE Broker Agreement, UDBE Trucking Credit Form, or Certification of  
38 Compliance with Wage Payment Statutes) that is received after the time  
39 specified above, or received in a location other than that specified in the  
40 Call for Bids.

41  
42 **1-02.10 Withdrawing, Revising, or Supplementary Proposal**  
43 *(July 23, 2015 APWA GSP)*

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01

SPECIAL PROVISIONS - Continued

1  
2 Delete this Section and replace it with the following:  
3

4 After submitting a physical Bid Proposal to the Contracting Agency, the  
5 Bidder may withdraw, revise, or supplement it if:  
6

- 7 1. The Bidder submits a written request signed by an authorized  
8 person and physically delivers it to the place designated for receipt  
9 of Bid Proposals, and
- 10 2. The Contracting Agency receives the request before the time set for  
11 receipt of Bid Proposals, and
- 12 3. The revised or supplemented Bid Proposal (if any) is received by  
13 the Contracting Agency before the time set for receipt of Bid  
14 Proposals.  
15

16 If the Bidder's request to withdraw, revise, or supplement its Bid Proposal  
17 is received before the time set for receipt of Bid Proposals, the Contracting  
18 Agency will return the unopened Proposal package to the Bidder. The  
19 Bidder must then submit the revised or supplemented package in its  
20 entirety. If the Bidder does not submit a revised or supplemented  
21 package, then its bid shall be considered withdrawn.  
22

23 Late revised or supplemented Bid Proposals or late withdrawal requests  
24 will be date recorded by the Contracting Agency and returned unopened.  
25 Mailed, emailed, or faxed requests to withdraw, revise, or supplement a  
26 Bid Proposal are not acceptable.  
27

28 **1-02.13 Irregular Proposals**  
29 *(June 20, 2017 APWA GSP)*  
30

31 Delete this section and replace it with the following:  
32

- 33 1. A Proposal will be considered irregular and will be rejected if:  
34
  - 35 a. The Bidder is not prequalified when so required;
  - 36 b. The authorized Proposal form furnished by the Contracting  
37 Agency is not used or is altered;
  - 38 c. The completed Proposal form contains any unauthorized  
39 additions, deletions, alternate Bids, or conditions;
  - 40 d. The Bidder adds provisions reserving the right to reject or  
41 accept the award, or enter into the Contract;
  - 42 e. A price per unit cannot be determined from the Bid Proposal;
  - 43 f. The Proposal form is not properly executed;

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
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SPECIAL PROVISIONS - Continued

- 1 g. The Bidder fails to submit or properly complete a
- 2 Subcontractor list, if applicable, as required in Section 1-
- 3 02.6;
- 4 h. The Bidder fails to submit or properly complete an
- 5 Underutilized Disadvantaged Business Enterprise
- 6 Certification, if applicable, as required in Section 1-02.6;
- 7 i. The Bidder fails to submit written confirmation from each
- 8 UDBE firm listed on the Bidder's completed UDBE Utilization
- 9 Certification that they are in agreement with the bidder's
- 10 UDBE participation commitment, if applicable, as required in
- 11 Section 1-02.6, or if the written confirmation that is submitted
- 12 fails to meet the requirements of the Special Provisions;
- 13 j The Bidder fails to submit UDBE Good Faith Effort
- 14 documentation, if applicable, as required in Section 1-02.6,
- 15 or if the documentation that is submitted fails to demonstrate
- 16 that a Good Faith Effort to meet the Condition of Award was
- 17 made;
- 18 k. The Bid Proposal does not constitute a definite and
- 19 unqualified offer to meet the material terms of the Bid
- 20 invitation; or
- 21 l. More than one Proposal is submitted for the same project
- 22 from a Bidder under the same or different names.
- 23
- 24 2. A Proposal may be considered irregular and may be rejected if:
- 25
- 26 a. The Proposal does not include a unit price for every Bid
- 27 item;
- 28 b. Any of the unit prices are excessively unbalanced (either
- 29 above or below the amount of a reasonable Bid) to the
- 30 potential detriment of the Contracting Agency;
- 31 c. Receipt of Addenda is not acknowledged;
- 32 d. A member of a joint venture or partnership and the joint
- 33 venture or partnership submit Proposals for the same project
- 34 (in such an instance, both Bids may be rejected); or
- 35 e. If Proposal form entries are not made in ink.
- 36
- 37

**1-02.14 Disqualification of Bidders**

*(February 2, 2018 MC GSP)*

Delete this section and replace it with the following:

City of Mill Creek  
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SPECIAL PROVISIONS - Continued

1 A Bidder will be deemed not responsible if the Bidder does not meet the  
2 mandatory bidder responsibility criteria in RCW 39.04.350(1), as  
3 amended; or does not meet Supplemental Criteria 1 through 8 in this  
4 Section:

5  
6 The Contracting Agency will verify that the Bidder meets the mandatory  
7 bidder responsibility criteria in RCW 39.04.350(1), and Supplemental  
8 Criteria 1. Evidence that the Bidder meets Supplemental Criteria 2  
9 through 8 shall be provided by the Bidder as stated later in this Section.

10  
11 1. **Federal Debarment**

12  
13 A. Criterion: The Bidder shall not currently be debarred or  
14 suspended by the Federal government.

15  
16 B. Documentation: The Bidder shall not be listed as having an  
17 “active exclusion” on the U.S. government’s “System for  
18 Award Management” database (www.sam.gov).

19  
20 2. **Delinquent State Taxes**

21  
22 A. Criterion: The Bidder shall not owe delinquent taxes to the  
23 Washington State Department of Revenue without a  
24 payment plan approved by the Department of Revenue.

25  
26 B. Documentation: The Bidder shall, if and when required as  
27 detailed below, sign a statement (on a form to be provided by  
28 the Contracting Agency) that the Bidder does not owe  
29 delinquent taxes to the Department of Revenue. If the  
30 Bidder owes delinquent taxes, they must submit a written  
31 payment plan approved by the Department of Revenue, to  
32 the Contracting Agency by the deadline listed below.

33  
34 3. **Claims Against Retainage and Bonds**

35  
36 A. Criterion: The Bidder shall not have a record of excessive  
37 claims filed against the retainage or payment bonds for  
38 public works projects in the three years prior to the bid  
39 submittal date, that demonstrate a lack of effective  
40 management by the Bidder of making timely and appropriate  
41 payments to its subcontractors, suppliers, and workers,  
42 unless there are extenuating circumstances and such

SPECIAL PROVISIONS - Continued

1 circumstances are deemed acceptable to the Contracting  
2 Agency.

3  
4 B. Documentation: The Bidder shall, if and when required as  
5 detailed below, sign a statement (on a form to be provided by  
6 the Contracting Agency) that the Bidder has not had claims  
7 against claims against retainage and bonds in the three  
8 years prior to the bid submittal date. If the Bidder has had  
9 claims against retainage and bonds in the three years prior  
10 to the bid submittal date, they shall submit a list of the public  
11 works projects completed in the three years prior to the bid  
12 submittal date that have had claims against retainage and  
13 bonds and include for each project the following information:

- 14
- 15 • Name of project
- 16 • The owner and contact information for the owner;
- 17 • A list of claims filed against the retainage and/or
- 18 payment bond for any of the projects listed;
- 19 • A written explanation of the circumstances
- 20 surrounding each claim and the ultimate resolution of
- 21 the claim.
- 22

23 4. **Public Bidding Crime**

24  
25 A. Criterion: The Bidder and/or its owners shall not have been  
26 convicted of a crime involving bidding on a public works  
27 contract in the five years prior to the bid submittal date.

28  
29 B. Documentation: The Bidder, if and when required as  
30 detailed below, shall sign a statement (on a form to be  
31 provided by the Contracting Agency) that the Bidder and/or  
32 its owners have not been convicted of a crime involving  
33 bidding on a public works contract.

34  
35 5. **Termination for Cause / Termination for Default**

36  
37 A. Criterion: The Bidder shall not have had any public works  
38 contract terminated for cause or terminated for default by a  
39 government agency in the five years prior to the bid submittal  
40 date, unless there are extenuating circumstances and such  
41 circumstances are deemed acceptable to the Contracting  
42 Agency.

43

SPECIAL PROVISIONS - Continued

- 1                   B.    Documentation: The Bidder, if and when required as
- 2                                   detailed below, shall sign a statement (on a form to be
- 3                                   provided by the Contracting Agency) that the Bidder has not
- 4                                   had any public works contract terminated for cause or
- 5                                   terminated for default by a government agency in the five
- 6                                   years prior to the bid submittal date; or if Bidder was
- 7                                   terminated, describe the circumstances.
- 8
- 9                   6.    Lawsuits
- 10
- 11                   A.    Criterion: The Bidder shall not have lawsuits with judgments
- 12                                   entered against the Bidder in the five years prior to the bid
- 13                                   submittal date that demonstrate a pattern of failing to meet
- 14                                   the terms of contracts, unless there are extenuating
- 15                                   circumstances and such circumstances are deemed
- 16                                   acceptable to the Contracting Agency.
- 17
- 18                   B.    Documentation: The Bidder, if and when required as
- 19                                   detailed below, shall sign a statement (on a form to be
- 20                                   provided by the Contracting Agency) that the Bidder has not
- 21                                   had any lawsuits with judgments entered against the Bidder
- 22                                   in the five years prior to the bid submittal date that
- 23                                   demonstrate a pattern of failing to meet the terms of
- 24                                   contracts, or shall submit a list of all lawsuits with judgments
- 25                                   entered against the Bidder in the five years prior to the bid
- 26                                   submittal date, along with a written explanation of the
- 27                                   circumstances surrounding each such lawsuit. The
- 28                                   Contracting Agency shall evaluate these explanations to
- 29                                   determine whether the lawsuits demonstrate a pattern of
- 30                                   failing to meet of terms of construction related contracts.
- 31
- 32                   7.    Contract Time (Liquidated Damages)
- 33
- 34                   A.    Criterion: The Bidder shall not have had liquated damages
- 35                                   assessed on any projects it has completed five years prior to
- 36                                   the bid submittal date that demonstrate a pattern of failing to
- 37                                   meet contract time.
- 38
- 39                   B.    Documentation: The Bidder, if and when required as
- 40                                   detailed below, shall sign a statement (on a form to be
- 41                                   provided by the Contracting Agency) that the Bidder has not
- 42                                   had liquidated damages assessed on any projects it has
- 43                                   completed within the five years prior to the bid submittal

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SPECIAL PROVISIONS - Continued

1 date, or shall submit a list of Projects with assessed liquated  
2 damages along with Owner contact information, and number  
3 of days assessed liquated damages.  
4

5 **8. Experience and Capacity**

6  
7 A. Criterion: The Bidder shall have sufficient current capacity  
8 and experience to meet the requirements of this Project.  
9 The Bidder shall have successfully completed at least three  
10 projects, of a similar size and scope, during the five-year  
11 period immediately preceding the bid submittal deadline for  
12 this project.  
13

14 B. Documentation: The Bidder shall, if and when required as  
15 detailed below, on a form to be provided by the Contracting  
16 Agency, provide the Bidder's gross dollar amount of work  
17 currently under contract, the Bidder's gross dollar amount of  
18 contracts currently not completed, five major pieces of  
19 equipment anticipated to be on the project and whether the  
20 equipment is leased or owned, number of years the  
21 contractor has been in business, number of superintendents  
22 and their years of experience on staff, superintendent  
23 assigned to this project and their number of years of  
24 experience, and three project references of similar size and  
25 scope during the five year period immediately preceding the  
26 bid submittal deadline for this project. The Contracting  
27 Agency may check owner references for the previous  
28 projects and may evaluate the owner's assessment of the  
29 Bidder performance.  
30

31 C. SCIPL Contractor Requirements: The SCIPL work on this  
32 project is considered specialized work and requires specific  
33 licensing, certification and experience for the installer of  
34 SCIPL repair work. The contractor shall carefully examine  
35 the Contractor Licensing, Certification and Qualifications  
36 Requirements outlined in Specification Sections 7-21.3(1)A  
37 and 7-21.3(1)B as it pertains to this work.  
38  
39

40 As evidence that the Bidder meets Supplemental Responsibility Criteria 2-  
41 8 stated above, the apparent, and second apparent, low Bidders must  
42 submit to the Contracting Agency by 12:00 P.M. (noon) of the second  
43 business day following the bid submittal deadline, a written statement

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1 verifying that the Bidder meets Supplemental Criteria 2 through 8 together  
2 with supporting documentation (sufficient in the sole judgment of the  
3 Contracting Agency) demonstrating compliance with Supplemental  
4 Responsibility Criteria 2 through 8. Forms for submitting written  
5 statements are included in Appendix A of these Specifications. Bidders that  
6 are unresponsive in submitting supplemental responsibility criteria  
7 documentation may have bids rejected, and/or found to be non-  
8 responsive, at the City's sole discretion.  
9

10  
11 The Contracting Agency reserves the right to request further  
12 documentation as needed from the low bidder and documentation from  
13 other Bidders as well to assess Bidder responsibility and compliance with  
14 all bidder responsibility criteria. The Contracting Agency also reserves the  
15 right to obtain information from third-parties and independent sources of  
16 information concerning a Bidder's compliance with the mandatory and  
17 supplemental criteria, and to use that information in their evaluation. The  
18 Contracting Agency may consider mitigating factors in determining  
19 whether the Bidder complies with the requirements of the Supplemental  
20 Criteria.  
21

22 The basis for evaluation of Bidder compliance with these mandatory and  
23 Supplemental Criteria shall include any documents or facts obtained by  
24 Contracting Agency (whether from the Bidder or third parties) including but  
25 not limited to: (i) financial, historical, or operational data from the Bidder;  
26 (ii) information obtained directly by the Contracting Agency from others for  
27 whom the Bidder has worked, or other public agencies or private  
28 enterprises; and (iii) any additional information obtained by the Contracting  
29 Agency which is believed to be relevant to the matter.  
30

31 If the Contracting Agency determines the Bidder does not meet the bidder  
32 responsibility criteria above and is therefore not a responsible Bidder, the  
33 Contracting Agency shall notify the Bidder in writing, with the reasons for  
34 its determination. If the Bidder disagrees with this determination, it may  
35 appeal the determination within two (2) business days of the Contracting  
36 Agency's determination by presenting its appeal and any additional  
37 information to the Contracting Agency. The Contracting Agency will  
38 consider the appeal and any additional information before issuing its final  
39 determination. If the final determination affirms that the Bidder is not  
40 responsible, the Contracting Agency will not execute a contract with any  
41 other Bidder until at least two business days after the Bidder determined  
42 to be not responsible has received the Contracting Agency's final  
43 determination.

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SPECIAL PROVISIONS - Continued

1  
2 Request to Change Supplemental Bidder Responsibility Criteria Prior To  
3 Bid: Bidders with concerns about the relevancy or restrictiveness of the  
4 Supplemental Bidder Responsibility Criteria may make or submit requests  
5 to the Contracting Agency to modify the criteria. Such requests shall be in  
6 writing, describe the nature of the concerns, and propose specific  
7 modifications to the criteria. Bidders shall submit such requests to the  
8 Contracting Agency no later than five (5) business days prior to the bid  
9 submittal deadline and address the request to the Project Engineer or  
10 such other person designated by the Contracting Agency in the Bid  
11 Documents.  
12

13 **1-02.15 Pre-Award Information**  
14 *(August 14, 2013 APWA GSP)*  
15

16 Delete this Section and replace it with the following:  
17

18 Before awarding any Contract, the Contracting Agency may require one or  
19 more of these items or actions of the apparent lowest responsible bidder:  
20

- 21 1. A complete statement of the origin, composition, and  
22 manufacture of any or all materials to be used,  
23
- 24 2. Samples of these materials for quality and fitness tests,  
25
- 26 3. A progress schedule (in a form the Contracting Agency  
27 requires) showing the order of and time required for the  
28 various phases of the work,  
29
- 30 4. A breakdown of costs assigned to any bid item,  
31
- 32 5. Attendance at a conference with the Engineer or  
33 representatives of the Engineer,  
34
- 35 6. Obtain, and furnish a copy of, a business license to do  
36 business in the city or county where the work is located,  
37
- 38 7. Any other information or action taken that is deemed  
39 necessary to ensure that the Bidder is the lowest responsible  
40 bidder.  
41

42 **1-03 AWARD AND EXECUTION OF CONTRACT**  
43

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1 **1-03.1 Consideration of Bids**  
2 *(January 23, 2006 APWA GSP)*

3  
4 Revise the first paragraph to read:

5  
6 After opening and reading proposals, the Contracting Agency will check  
7 them for correctness of extensions of the prices per unit and the total  
8 price. If a discrepancy exists between the price per unit and the extended  
9 amount of any bid item, the price per unit will control. If a minimum bid  
10 amount has been established for any item and the bidder's unit or lump  
11 sum price is less than the minimum specified amount, the Contracting  
12 Agency will unilaterally revise the unit or lump sum price, to the minimum  
13 specified amount and recalculate the extension. The total of extensions,  
14 corrected where necessary, including sales taxes where applicable and  
15 such additives and/or alternates as selected by the Contracting Agency,  
16 will be used by the Contracting Agency for award purposes and to fix the  
17 Awarded Contract Price amount and the amount of the contract bond.  
18  
19  
20

21 **1-03.3 Execution of Contract**  
22 *(February 2, 2018 MC GSP)*

23  
24 Delete this Section and replace it with the following:

25  
26 Within 10 calendar days after the Award date, the successful Bidder shall  
27 return the signed Contracting Agency-prepared Contract, an insurance  
28 certification as required by Section 1-07.18, and satisfactory bonds as  
29 required by law and Section 1-03.4. Before execution of the Contract by  
30 the Contracting Agency, the successful Bidder shall provide any pre-  
31 Award information the Contracting Agency may require under  
32 Section 1-02.15.  
33

34 Until the Contracting Agency executes a Contract, no Proposal shall bind  
35 the Contracting Agency, nor shall any work begin within the project limits  
36 or within Contracting Agency-furnished sites. The Contractor shall bear all  
37 risks for any work begun outside such areas and for any materials ordered  
38 before the Contract is executed by the Contracting Agency.  
39

40 A written Notice to Proceed will be issued after the Contract has been  
41 executed by the Contractor and the Contracting Agency, and the  
42 performance and labor and material payment bonds, other required  
43 certificates and documents and insurance certificates are approved by the

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1 Contracting Agency or, where applicable, by State or Federal agencies  
2 responsible for funding any portion of the project.

3  
4 **1-03.4 Contract Bond**  
5 *(July 23, 2015 APWA GSP)*

6  
7 Delete the first paragraph and replace it with the following:

8  
9 The successful bidder shall provide executed payment and performance  
10 bond(s) for the full contract amount. The bond may be a combined  
11 payment and performance bond; or be separate payment and  
12 performance bonds. In the case of separate payment and performance  
13 bonds, each shall be for the full contract amount. The bond(s) shall:

- 14  
15 1. Be on Contracting Agency-furnished form(s);
- 16  
17 2. Be signed by an approved surety (or sureties) that:
  - 18  
19 a. Is registered with the Washington State Insurance  
20 Commissioner, and
  - 21  
22 b. Appears on the current Authorized Insurance List in the  
23 State of Washington published by the Office of the Insurance  
24 Commissioner,
- 25  
26 3. Guarantee that the Contractor will perform and comply with all  
27 obligations, duties, and conditions under the Contract, including but  
28 not limited to the duty and obligation to indemnify, defend, and  
29 protect the Contracting Agency against all losses and claims  
30 related directly or indirectly from any failure:
  - 31  
32 a. Of the Contractor (or any of the employees, subcontractors,  
33 or lower tier subcontractors of the Contractor) to faithfully  
34 perform and comply with all contract obligations, conditions,  
35 and duties, or
  - 36  
37 b. Of the Contractor (or the subcontractors or lower tier  
38 subcontractors of the Contractor) to pay all laborers,  
39 mechanics, subcontractors, lower tier subcontractors,  
40 material person, or any other person who provides supplies  
41 or provisions for carrying out the work.

42  
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- 1           4.     Be conditioned upon the payment of taxes, increases, and  
2                     penalties incurred on the project under titles 50, 51, and 82 RCW;  
3                     and  
4
- 5           5.     Be accompanied by a power of attorney for the Surety's officer  
6                     empowered to sign the bond; and  
7
- 8           6.     Be signed by an officer of the Contractor empowered to sign official  
9                     statements (sole proprietor or partner). If the Contractor is a  
10                    corporation, the bond(s) must be signed by the president or vice  
11                    president, unless accompanied by written proof of the authority of  
12                    the individual signing the bond(s) to bind the corporation (i.e.,  
13                    corporate resolution, power of attorney, or a letter to such effect  
14                    signed by the president or vice president).  
15

**1-03.7 Judicial Review**  
*(July 23, 2015 APWA GSP)*

Revise this section to read:

Any decision made by the Contracting Agency regarding the Award and execution of the Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington Law. Such review, if any, shall be timely filed 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 36.01.05 shall control venue and jurisdiction.

**1-04 SCOPE OF WORK**

**1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda**  
*(March 13, 2012 APWA GSP)*

Revise the second paragraph to read:

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

- 1.     Addenda,
- 2.     Proposal Form,

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SPECIAL PROVISIONS - Continued

- 1           3.     Special Provisions,
- 2           4.     Contract Plans,
- 3           5.     Amendments to the Standard Specifications,
- 4           6.     Standard Specifications, and
- 5           7.     WSDOT Standard Plans for Road, Bridge, and Municipal
- 6                 Construction.

**1-04.4 Changes**

**1-04.4(1) Minor Changes**

Section 1-04.4(1), including title, is supplemented to read as follows:

**1-04.4(1) Unexpected Site Changes**

Payments or credits for changes amounting to \$30,000 or less may be made under the Bid item "Unexpected Site Changes". At the discretion of the Contracting Agency, this procedure for Unexpected Site Changes may be used in lieu of the more formal procedure as outlined in Section 1-04.4, Changes.

The Contractor will be provided a copy of the completed order for Unexpected Site 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.

**1-04.6 Variation in Estimated Quantities**

*(July 23, 2015 APWA GSP, Option B)*

Revise the first paragraph to read:

Payment to the Contractor will be made only for the actual quantities of Work performed and accepted in conformance with the Contract. When the accepted quantity of Work performed under a unit item varies from the original Proposal quantity, payment will be at the unit Contract price for all Work unless the total accepted quantity of any Contract item, adjusted to exclude added or deleted amounts included in change orders accepted by both parties, increases or decreases by more than 25 percent from the original

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1        Proposal quantity, and if the total extended bid price for that item at time of  
2        award is equal to or greater than 10 percent of the total contract price at time  
3        of award. In that case, payment for contract work may be adjusted as  
4        described herein.

5  
6        **1-04.9 Use of Buildings or Structures**  
7        *(February 2, 2018 MC GSP)*

8  
9        This Section is supplemented with the following:

10  
11        **1-04.9(1) Construction Staging and/or Personnel Parking**

12  
13        The Contractor shall be responsible for providing a Construction Staging  
14        and Personnel Parking Area in a safe condition and orderly manner  
15        throughout the duration of the Project. Prior to any construction activity,  
16        the Contractor shall provide written notification; informing the Engineer  
17        and all employees, Contractors and Subcontractors who intend to arrive at  
18        this Project with vehicles, equipment or supplies; of the location, purpose,  
19        and restrictions that apply to the Construction Staging and Personnel  
20        Parking Area.

21  
22        No Construction Staging and/or Personnel Parking Area will be provided  
23        by the Contracting Agency. It is the Contractor's responsibility to locate  
24        and arrange for the use of property in accordance with this section and  
25        the right-of-way requirements of section 1-07.24.

26  
27        The purpose of the Construction Staging and/or Personnel Parking Area  
28        for this project is to provide all Contractors, Subcontractors, and personnel  
29        associated with this Project a safe and orderly location to store equipment,  
30        tools, and supplies, and for parking construction or personal vehicles.  
31        There is a limited amount of available parking in and around the Project  
32        area. Do not use private parking space around this Project site to park  
33        construction or personal vehicles without the expressed written approval  
34        of the owner of the property. Such approval is to be provided to the  
35        Engineer.

36  
37        The Contractor must restrict all parking and storage activities to approved  
38        Construction Staging and Personnel Parking Area(s) for this Project.

39  
40        All costs associated with providing, maintaining, permitting, and operating  
41        the Construction Staging and Personnel Parking Area(s) for this Project  
42        shall be considered incidental to and included in the unit and lump sum bid  
43        prices.

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**1-05 CONTROL OF WORK**

**1-05.4 Conformity With and Deviation from Plans and Stakes**  
*(February 2, 2018 MC GSP Option B)*

This Section is supplemented with the following:

***Contractor Surveying – Roadway***

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

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

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

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

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

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

SPECIAL PROVISIONS - Continued

- 1           1.     Verify the primary horizontal and vertical control furnished by the  
2                     Contracting Agency, and expand into secondary control by adding  
3                     stakes and hubs as well as additional survey control needed for the  
4                     project. Provide descriptions of secondary control to the  
5                     Contracting Agency. The description shall include coordinates and  
6                     elevations of all secondary control points.  
7
- 8           2.     Establish, the centerlines of all alignments, by placing hubs, stakes,  
9                     or marks on centerline or on offsets to centerline at all curve points  
10                    (PCs, PTs, and PIs) and at points on the alignments spaced no  
11                    further than 50 feet.  
12
- 13          3.     Establish clearing limits, placing stakes at all angle points and at  
14                     intermediate points not more than 50 feet apart. The clearing and  
15                     grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet  
16                     beyond the top of a cut unless otherwise shown in the Plans.  
17
- 18          4.     Establish grading limits, placing slope stakes at centerline  
19                     increments not more than 50 feet apart. Establish offset reference  
20                     to all slope stakes. If Global Positioning Satellite (GPS) Machine  
21                     Controls are used to provide grade control, then slope stakes may  
22                     be omitted at the discretion of the Contractor  
23
- 24          5.     Establish the horizontal and vertical location of all sanitary sewer,  
25                     storm, and water structures features, placing offset stakes to all  
26                     sanitary sewer, storm, and water structures. An offset line will be  
27                     staked, for the horizontal sanitary and storm pipe alignment as  
28                     follows: one stake at 25-foot and one stake at 100-foot station, as  
29                     measured upstream from structures. Water mains will be staked  
30                     horizontally at tees, angle points and at approximate 200-foot  
31                     intervals.  
32
- 33          6.     Establish roadbed and surfacing elevations by placing stakes at the  
34                     top of subgrade and at the top of each course of surfacing.  
35                     Subgrade and surfacing stakes shall be set at horizontal intervals  
36                     not greater than 50 feet in tangent sections, 25 feet in curve  
37                     sections with a radius less than 300 feet, and at 10-foot intervals in  
38                     intersection radii with a radius less than 10 feet. Transversely,  
39                     stakes shall be placed at all locations where the roadway slope  
40                     changes and at additional points such that the transverse spacing  
41                     of stakes is not more than 12 feet. If GPS Machine Controls are  
42                     used to provide grade control, then roadbed and surfacing stakes  
43                     may be omitted at the discretion of the Contractor.

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- 1
- 2           7.     Establish intermediate elevation benchmarks as needed to check
- 3                 work throughout the project.
- 4
- 5           8.     Provide references for paving pins at 25-foot intervals or provide
- 6                 simultaneous surveying to establish location and elevation of
- 7                 paving pins as they are being placed.
- 8
- 9           9.     For all other types of construction included in this provision,
- 10                (including but not limited to channelization and pavement marking,
- 11                illumination and signals, guardrails and barriers, and signing)
- 12                provide staking and layout as necessary to adequately locate,
- 13                construct, and check the specific construction activity.
- 14
- 15          10.    Contractor shall determine if changes are needed to the profiles or
- 16                roadway sections shown in the Contract Plans in order to achieve
- 17                proper smoothness and drainage where matching into existing
- 18                features, such as a smooth transition from new pavement to
- 19                existing pavement. The Contractor shall submit these changes to
- 20                the Project Engineer for review and approval 10 days prior to the
- 21                beginning of work.

22  
23           The Contractor shall provide the Contracting Agency copies of any  
24           calculations and staking data when requested by the Engineer.

25  
26           To facilitate the establishment of these lines and elevations, the  
27           Contracting Agency will provide the Contractor with primary survey control  
28           information consisting of descriptions of two primary control points used  
29           for the horizontal and vertical control, and descriptions of two additional  
30           primary control points for every additional three miles of project length.  
31           Primary control points will be described by reference to the project  
32           alignment and the coordinate system and elevation datum utilized by the  
33           project. In addition, the Contracting Agency will supply horizontal  
34           coordinates for the beginning and ending points and for each Point of  
35           Intersection (PI) on each alignment included in the project.

36  
37           The Contractor shall ensure a surveying accuracy within the following  
38           tolerances:

	<u>Vertical</u>	<u>Horizontal</u>
39		
40		
41           Slope stakes	±0.10 feet	±0.10 feet
42           Subgrade grade stakes set		
43                 0.04 feet below grade	±0.01 feet	±0.5 feet

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1			(parallel to alignment)
2			±0.1 feet
3			(normal to alignment)
4			
5	Stationing on roadway	N/A	±0.1 feet
6	Alignment on roadway	N/A	±0.04 feet
7	Surfacing grade stakes	±0.01 feet	±0.5 feet
8			(parallel to alignment)
9			±0.1 feet
10			(normal to alignment)
11			
12	Roadway paving pins for		
13	surfacing or paving	±0.01 feet	±0.2 feet
14			(parallel to alignment)
15			±0.1 feet
16			(normal to alignment)

17

18 The Contracting Agency may spot-check the Contractor's surveying.

19 These spot-checks will not change the requirements for normal checking

20 by the Contractor.

21

22 When staking roadway alignment and stationing, the Contractor shall

23 perform independent checks from different secondary control to ensure

24 that the points staked are within the specified survey accuracy tolerances.

25

26 The Contractor shall calculate coordinates for the alignment. The

27 Contracting Agency will verify these coordinates prior to issuing approval

28 to the Contractor for commencing with the work. The Contracting Agency

29 will require up to seven calendar days from the date the data is received.

30

31 Contract work to be performed using contractor-provided stakes shall not

32 begin until the stakes are approved by the Contracting Agency. Such

33 approval shall not relieve the Contractor of responsibility for the accuracy

34 of the stakes.

35

36 Stakes shall be marked in accordance with Standard Plan A10.10. When

37 stakes are needed that are not described in the Plans, then those stakes

38 shall be marked, at no additional cost to the Contracting Agency as

39 ordered by the Engineer.

40

41 **Payment**

42

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SPECIAL PROVISIONS - Continued

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

3  
4 "Roadway Surveying," lump sum.

5  
6 The lump sum contract price for "Roadway Surveying" shall be full pay for  
7 all labor, equipment, materials, and supervision utilized to perform the  
8 Work specified, including any resurveying, checking, correction of errors,  
9 replacement of missing or damaged stakes, and coordination efforts.

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

Supplement this Section with the following:

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

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

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

SPECIAL PROVISIONS - Continued

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

4  
5 The rights exercised under the provisions of this section shall not diminish  
6 the Contracting Agency's right to pursue any other avenue for additional  
7 remedy or damages with respect to the Contractor's failure to perform the  
8 work as required.  
9

10 **1-05.8 Coordination with City Events (New Section)**

11 The Contractor shall coordinate work and schedule work activities with the  
12 City to avoid the work conflicting with planned City events. A list of City  
13 events planned in 2019, titled "2009 Community Events" is included in  
14 Appendix C for reference.

15 Prior to the preconstruction meeting, the contractor shall review the  
16 contract schedule and events list to determine if the dates and locations of  
17 planned City events have a potential to conflict with the work. The  
18 Contractor shall discuss any potential conflicts with the City at the  
19 Preconstruction Meeting and request any additional information from the  
20 City to assess exact locations, facility requirements, event space needs,  
21 parking and access requirements, and applicable event timing and  
22 sequencing. The Contractor shall adjust the project schedule to avoid  
23 working in locations of planned City events as they occur to the extent  
24 feasible.

25 Where it is determined that work occurs in a location where multiple  
26 events occur, and/or where avoiding these events completely may be  
27 infeasible, the Contractor will coordinate the work closely with the City to  
28 either develop a work plan that mitigates the conflicts with the events, and  
29 that provides/includes a contractor response plan, or negotiate a  
30 suspension of work so that the work can be completed at the convenience  
31 of the City. In any case, the contractor shall not begin work in the area of a  
32 planned City event without prior City approval.

33 All costs for Coordination with City Events shall be considered incidental  
34 to the contract and included in the various project bid items.  
35

36  
37 **1-05.11 Final Inspection**

38  
39 Delete this section and replace it with the following:

40  
41 **1-05.11 Final Inspections and Operational Testing**

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SPECIAL PROVISIONS - Continued

1            *(October 1, 2005 APWA GSP)*  
2

3            **1-05.11(1) Substantial Completion Date**  
4

5            When the Contractor considers the work to be substantially complete, the  
6            Contractor shall so notify the Engineer and request the Engineer establish  
7            the Substantial Completion Date. The Contractor's request shall list the  
8            specific items of work that remain to be completed in order to reach  
9            physical completion. The Engineer will schedule an inspection of the work  
10           with the Contractor to determine the status of completion. The Engineer  
11           may also establish the Substantial Completion Date unilaterally.  
12

13           If, after this inspection, the Engineer concurs with the Contractor that the  
14           work is substantially complete and ready for its intended use, the  
15           Engineer, by written notice to the Contractor, will set the Substantial  
16           Completion Date. If, after this inspection the Engineer does not consider  
17           the work substantially complete and ready for its intended use, the  
18           Engineer will, by written notice, so notify the Contractor giving the reasons  
19           therefor.  
20

21           Upon receipt of written notice concurring in or denying substantial  
22           completion, whichever is applicable, the Contractor shall pursue  
23           vigorously, diligently and without unauthorized interruption, the work  
24           necessary to reach Substantial and Physical Completion. The Contractor  
25           shall provide the Engineer with a revised schedule indicating when the  
26           Contractor expects to reach substantial and physical completion of the  
27           work.  
28

29           The above process shall be repeated until the Engineer establishes the  
30           Substantial Completion Date and the Contractor considers the work  
31           physically complete and ready for final inspection.  
32

33           **1-05.11(2) Final Inspection and Physical Completion Date**  
34

35           When the Contractor considers the work physically complete and ready for  
36           final inspection, the Contractor by written notice, shall request the  
37           Engineer to schedule a final inspection. The Engineer will set a date for  
38           final inspection. The Engineer and the Contractor will then make a final  
39           inspection and the Engineer will notify the Contractor in writing of all  
40           particulars in which the final inspection reveals the work incomplete or  
41           unacceptable. The Contractor shall immediately take such corrective  
42           measures as are necessary to remedy the listed deficiencies. Corrective  
43           work shall be pursued vigorously, diligently, and without interruption until

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1 physical completion of the listed deficiencies. This process will continue  
2 until the Engineer is satisfied the listed deficiencies have been corrected.

3  
4 If action to correct the listed deficiencies is not initiated within 7 days after  
5 receipt of the written notice listing the deficiencies, the Engineer may,  
6 upon written notice to the Contractor, take whatever steps are necessary  
7 to correct those deficiencies pursuant to Section 1-05.7.

8  
9 The Contractor will not be allowed an extension of contract time because  
10 of a delay in the performance of the work attributable to the exercise of the  
11 Engineer's right hereunder.

12  
13 Upon correction of all deficiencies, the Engineer will notify the Contractor  
14 and the Contracting Agency, in writing, of the date upon which the work  
15 was considered physically complete. That date shall constitute the  
16 Physical Completion Date of the contract, but shall not imply acceptance  
17 of the work or that all the obligations of the Contractor under the contract  
18 have been fulfilled.

19  
20 **1-05.11(3) Operational Testing**

21  
22 It is the intent of the Contracting Agency to have at the Physical  
23 Completion Date a complete and operable system. Therefore, when the  
24 work involves the installation of machinery or other mechanical equipment;  
25 street lighting, electrical distribution or signal systems; irrigation systems;  
26 buildings; or other similar work it may be desirable for the Engineer to  
27 have the Contractor operate and test the work for a period of time after  
28 final inspection but prior to the physical completion date. Whenever items  
29 of work are listed in the Contract Provisions for operational testing they  
30 shall be fully tested under operating conditions for the time period  
31 specified to ensure their acceptability prior to the Physical Completion  
32 Date. During and following the test period, the Contractor shall correct any  
33 items of workmanship, materials, or equipment which prove faulty, or that  
34 are not in first class operating condition. Equipment, electrical controls,  
35 meters, or other devices and equipment to be tested during this period  
36 shall be tested under the observation of the Engineer, so that the Engineer  
37 may determine their suitability for the purpose for which they were  
38 installed. The Physical Completion Date cannot be established until testing  
39 and corrections have been completed to the satisfaction of the Engineer.

40  
41 The costs for power, gas, labor, material, supplies, and everything else  
42 needed to successfully complete operational testing, shall be included in

SPECIAL PROVISIONS - Continued

1 the unit contract prices related to the system being tested, unless  
2 specifically set forth otherwise in the proposal.

3  
4 Operational and test periods, when required by the Engineer, shall not  
5 affect a manufacturer's guaranties or warranties furnished under the terms  
6 of the contract.

7  
8 Add the following new section:

9  
10 **1-05.12(1) 1-Year Guarantee Period**  
11 *(March 8, 2013 APWA GSP)*

12  
13 The Contractor shall return to the project and repair or replace all defects  
14 in workmanship and material discovered within 1 year after Final  
15 Acceptance of the Work. The Contractor shall start work to remedy any  
16 such defects within 7 calendar days of receiving Contracting Agency's  
17 written notice of a defect, and shall complete such work within the time  
18 stated in the Contracting Agency's notice. In case of an emergency,  
19 where damage may result from delay or where loss of services may result,  
20 such corrections may be made by the Contracting Agency's own forces or  
21 another contractor, in which case the cost of corrections shall be paid by  
22 the Contractor. In the event the Contractor does not accomplish  
23 corrections within the time specified, the work will be otherwise  
24 accomplished and the cost of same shall be paid by the Contractor.

25  
26 When corrections of defects are made, the Contractor shall then be  
27 responsible for correcting all defects in workmanship and materials in the  
28 corrected work for one year after acceptance of the corrections by  
29 Contracting Agency.

30  
31 This guarantee is supplemental to and does not limit or affect the  
32 requirements that the Contractor's work comply with the requirements of  
33 the Contract or any other legal rights or remedies of the Contracting  
34 Agency.

35  
36 **1-05.13 Superintendents, Labor and Equipment of Contractor**  
37 *(August 14, 2013 APWA GSP)*

38  
39 Delete the sixth and seventh paragraph of this Section.

40  
41 **1-05.14 Cooperation With Other Contractors**  
42 *(March 13, 1995 WSDOT GSP)*

43

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SPECIAL PROVISIONS - Continued

1 This Section is supplemented with the following:  
2

3 **Other Contracts or Other Work**

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

- 7       ▪ 2019 Street Pavement Marking; Exploration Park
- 8       ▪ 35<sup>th</sup> Ave. SE Phase 1 (Snohomish County);
- 9       ▪ Frontier Surface Water Repairs for the City of Mill Creek
- 10       ▪ Private Development Projects

11 The Contractor on this project shall provide reasonable access and  
12 accommodation for other projects through, or within, the project limits to  
13 accomplish work related to other public or private work by other  
14 Contractors.  
15

16 **1-05.15 Method of Serving Notices**

17 *(March 25, 2009 APWA GSP)*

18 Revise the second paragraph to read:  
19

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

29 Add the following new section:  
30

31 **1-05.16 Water and Power (New Section)**

32 *(October 1, 2005 APWA GSP)*  
33

34 The Contractor shall make necessary arrangements, and shall bear the  
35 costs for power and water necessary for the performance of the work,  
36 unless the Contract includes power and water as a pay item.  
37

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SPECIAL PROVISIONS - Continued

1 Add the following new section:  
2

3 **1-05.18 Record Drawings**  
4 *(March 8, 2013 APWA GSP)*  
5

6 The Contractor shall maintain one set of full-size plans for Record  
7 Drawings, updated with clear and accurate red-lined field revisions on a  
8 daily basis, and within 2 business days after receipt of information that a  
9 change in Work has occurred. The Contractor shall not conceal any work  
10 until the required information is recorded.  
11

12 This Record Drawing set shall be used for this purpose alone, shall be  
13 kept separate from other Plan sheets, and shall be clearly marked as  
14 Record Drawings. These Record Drawings shall be kept on site at the  
15 Contractor's field office, and shall be available for review by the  
16 Contracting Agency at all times. The Contractor shall bring the Record  
17 Drawings to each progress meeting for review.  
18

19 The preparation and upkeep of the Record Drawings is to be the assigned  
20 responsibility of a single, experienced, and qualified individual. The  
21 quality of the Record Drawings, in terms of accuracy, clarity, and  
22 completeness, is to be adequate to allow the Contracting Agency to  
23 modify the computer-aided drafting (CAD) Contract Drawings to produce a  
24 complete set of Record Drawings for the Contracting Agency without  
25 further investigative effort by the Contracting Agency.  
26

27 The Record Drawing markups shall document all changes in the Work,  
28 both concealed and visible. Items that must be shown on the markups  
29 include but are not limited to:  
30

- 31 • Actual dimensions, arrangement, and materials used when different  
32 than shown in the Plans.
- 33 • Changes made by Change Order or Field Order.
- 34 • Changes made by the Contractor.
- 35 • Accurate locations of storm sewer, sanitary sewer, water mains and  
36 other water appurtenances, structures, conduits, light standards,  
37 vaults, width of roadways, sidewalks, landscaping areas, building  
38 footprints, channelization and pavement markings, etc. Include  
39 pipe invert elevations, top of castings (manholes, inlets, etc.).  
40

41 If the Contract calls for the Contracting Agency to do all surveying and  
42 staking, the Contracting Agency will provide the elevations at the  
43 tolerances the Contracting Agency requires for the Record Drawings.

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SPECIAL PROVISIONS - Continued

1  
2 When the Contract calls for the Contractor to do the surveying/staking, the  
3 applicable tolerance limits include, but are not limited to the following:  
4

	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

5

	Vertical	Horizontal
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

6  
7 Making Entries on the Record Drawings:  
8

- 9
- Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:
  - 10 • Additions – Red
  - 11 • Deletions – Green
  - 12 • Comments – Blue
  - 13 • Dimensions – Graphite
  - 14 • Provide the applicable reference for all entries, such as the change order number, the request for information (RFI) number, or the approved shop drawing number.
  - 15 • Date all entries.
  - 16 • Clearly identify all items in the entry with notes similar to those in the Contract Drawings (such as pipe symbols, centerline elevations, materials, pipe joint abbreviations, etc.).

17  
18  
19  
20  
21  
22  
23 The Contractor shall certify on the Record Drawings that said drawings  
24 are an accurate depiction of built conditions, and in conformance with the  
25 requirements detailed above. The Contractor shall submit final Record  
26 Drawings to the Contracting Agency. Contracting Agency acceptance of  
27 the Record Drawings is one of the requirements for achieving Physical  
28 Completion.

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Payment will be made for the following bid item:

Record Drawings (Minimum Bid \$1000)	Lump Sum
---	----------

Payment for this item will be made on a prorated monthly basis for work completed in 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 prepared in conformance with these Special Provisions.

A minimum bid amount has been entered in the Bid Proposal for this item. The Contractor must bid at least that amount.

**1-06 CONTROL OF MATERIAL**

**1-06.6 Recycled Materials**  
*(January 4, 2016 APWA GSP)*

Delete this Section in its entirety.

**1-07 LEGAL RELATIONSHIPS AND RESPONSIBILITY TO THE PUBLIC**

**1-07.1 Laws to be Observed**  
*(October 1, 2005 APWA GSP)*

Supplement this section with the following:

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

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

The Contractor shall maintain at the project site office, or other well known place at the project site, all articles necessary for providing first aid to the injured. The Contractor shall establish, publish, and make known to all employees, procedures for ensuring immediate removal to a hospital, or

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1 doctor's care, persons, including employees, who may have been injured  
2 on the project site. Employees should not be permitted to work on the  
3 project site before the Contractor has established and made known  
4 procedures for removal of injured persons to a hospital or a doctor's care.  
5  
6 The Contractor shall have sole responsibility for the safety, efficiency, and  
7 adequacy of the Contractor's plant, appliances, and methods, and for any  
8 damage or injury resulting from their failure, or improper maintenance,  
9 use, or operation. The Contractor shall be solely and completely  
10 responsible for the conditions of the project site, including safety for all  
11 persons and property in the performance of the work. This requirement  
12 shall apply continuously, and not be limited to normal working hours. The  
13 required or implied duty of the Engineer to conduct construction review of  
14 the Contractor's performance does not, and shall not, be intended to  
15 include review and adequacy of the Contractor's safety measures in, on,  
16 or near the project site.  
17  
18

SPECIAL PROVISIONS - Continued

1 **Confined Space**  
2 *(April 3, 2006 WSDOT GSP)*

3  
4 This Section is supplemented with the following:

5  
6 Confined spaces are known to exist at the following locations:

7  
8 Large diameter pipes

9  
10 The Contractor shall be fully responsible for the safety and health of all  
11 on-site workers and compliant with Washington Administrative Code  
12 (WAC 296-809).

13  
14 The Contractor shall prepare and implement a confined space program for  
15 the work. No work shall be performed in or adjacent to the confined space  
16 until the Contractor has prepared and implemented the confined space  
17 program.

18  
19 All costs to prepare and implement the confined space program shall be  
20 included in the bid prices for the various items associated with the  
21 confined space work.

22  
23 **1-07.2 State Taxes**

24  
25 Delete this section, including its subsections, in its entirety and replace it with the  
26 following:

27  
28 **1-07.2 State Sales Tax**  
29 *(June 27, 2011 APWA GSP)*

30  
31 The Washington State Department of Revenue has issued special rules  
32 on the State sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to  
33 clarify those rules. The Contractor should contact the Washington State  
34 Department of Revenue for answers to questions in this area. The  
35 Contracting Agency will not adjust its payment if the Contractor bases a  
36 bid on a misunderstood tax liability.

37  
38 The Contractor shall include all Contractor-paid taxes in the unit bid prices  
39 or other contract amounts. In some cases, however, state retail sales tax  
40 will not be included. Section 1-07.2(2) describes this exception.

41  
42 The Contracting Agency will pay the retained percentage (or release the  
43 Contract Bond if a FHWA funded project) only if the Contractor has

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1 obtained from the Washington State Department of Revenue a certificate  
2 showing that all contract-related taxes have been paid (RCW 60.28.051).  
3 The Contracting Agency may deduct from its payments to the Contractor  
4 any amount the Contractor may owe the Washington State Department of  
5 Revenue, whether the amount owed relates to this contract or not. Any  
6 amount so deducted will be paid into the proper State fund.

7  
8 **1-07.2(1) State Sales Tax — Rule 171**  
9

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

21  
22 **1-07.2(2) State Sales Tax — Rule 170**  
23

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

36  
37 For work performed in such cases, the Contractor shall collect from the  
38 Contracting Agency, retail sales tax on the full contract price. The  
39 Contracting Agency will automatically add this sales tax to each payment  
40 to the Contractor. For this reason, the Contractor shall not include the  
41 retail sales tax in the unit bid item prices, or in any other contract amount  
42 subject to Rule 170, with the following exception.  
43

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SPECIAL PROVISIONS - Continued

1           Exception: The Contracting Agency will not add in sales tax for a payment  
2           the Contractor or a subcontractor makes on the purchase or rental of  
3           tools, machinery, equipment, or consumable supplies not integrated into  
4           the project. Such sales taxes shall be included in the unit bid item prices  
5           or in any other contract amount.  
6

7           **1-07.2(3) Services**  
8

9           The Contractor shall not collect retail sales tax from the Contracting  
10          Agency on any contract wholly for professional or other services (as  
11          defined in Washington State Department of Revenue Rules 138 and 244).  
12

13          **1-07.5 Environmental Regulations**  
14

15          This Section is supplemented with the following:  
16

17                 **Environmental Commitments**  
18                 *(September 20, 2010 WSDOT GSP)*

19                 The following Provisions summarize the requirements, in addition to those  
20                 required elsewhere in the Contract, imposed upon the Contracting Agency  
21                 by the various documents referenced in the Special Provision PERMITS  
22                 AND LICENSES. Throughout the work, the Contractor shall comply with  
23                 the following requirements:  
24

25  
26                 *(August 3, 2009)*

27                 The intentional bypass of stormwater from all or any portion of a  
28                 stormwater treatment system is prohibited without the approval of the  
29                 Engineer.  
30

31                 **Payment**  
32                 *(August 3, 2009 WSDOT GSP)*

33                 All costs to comply with this special provision for the environmental  
34                 commitments and requirements are incidental to the contract and are the  
35                 responsibility of the Contractor. The Contractor shall include all related  
36                 costs in the associated bid prices of the contract.  
37  
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43

SPECIAL PROVISIONS - Continued

1 **1-07.6 Permits and Licenses**

2

3 *(August 3, 2015 WSDOT GSP)*

4 This Section is supplemented with the following:

5

6 The Contractor shall be responsible for applying for, and obtaining the  
7 approval of, the following permits and licenses:

8 City of Mill Creek Business License

9 City of Mill Creek Right-of-Way Permit

10 Silver Lake Water District Hydrant Use Permit

11 Alderwood Water and Wastewater District Hydrant Use Permit

12

13 Application shall be made directly with the applicable agency. All costs  
14 associated with preparing permit applications, preparing and providing  
15 supporting submittals and/or documentation (such as traffic control plans),  
16 making any corrections/modifications needed to obtain approval, and  
17 payment of all associated fees and/or deposits shall be considered  
18 incidental to the work. Copies of all permits obtained by the contractor  
19 shall be submitted to the engineer. A copy of all required permits shall be  
20 kept onsite at all times.

21

22 If obtained prior to construction, copies of Temporary and/or Permanent  
23 Construction Easements (TCE's / Easements) will be included in Appendix  
24 D of these Specifications. The Contractor shall be responsible for meeting  
25 the terms of any restoration agreements or conditions noted in the  
26 TCE/Easement documents, or associated exhibits and attachments, as  
27 part of the Work. Restoration shall be completed as directed by, and to the  
28 satisfaction of, the Contracting Agency and/or Engineer.

29

30 If the City cannot secure TCE's prior to construction, then the City  
31 reserves the right to suspend the contract if needed (at no additional cost  
32 to the City) or re-arrange the sequence of work until TCE's are secured.

33

34 **1-07.7 Load Limits**

35 *(March 13, 1995 WSDOT GSP)*

36

37 This Section is supplemented with the following:

38

39 If the sources of materials provided by the Contractor necessitate hauling  
40 over roads other than Contracting Agency roads, the Contractor shall, at  
41 the Contractor's expense, make all arrangements for the use of the haul  
42 routes.

43

City of Mill Creek  
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SPECIAL PROVISIONS - Continued

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**1-07.17 Utilities and Similar Facilities**

This Section 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 known or suspected of having facilities within the project limits are supplied for the Contractor's convenience:

**Utility Contacts**

<b>Name</b>	<b>Number</b>
Silver Lake Water District, Sewer and Water – Rick Gilmore	(425) 337-3647
Comcast – Michael Fontenot	(425) 218-9719
Puget Sound Energy – Jeanne Coleman	(425) 424-6876
Snohomish County Public Utility District (PUD), Power Source – Richard Lothamer	(425)783-8453
Snohomish County Public Utility District (PUD), Street Lighting – Dave Lindemuth	(425) 783-8150
Frontier – Kim Swenstad	(425) 213-3496
City of Mill Creek, Supervising Engineer – Matthew Feeley	(425) 921-5745
City of Mill Creek – Police Department	(425) 337-1115
Snohomish County Fire District	(425) 486-1217 (360) 668-5357

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**1-07.17(3) Potholing Existing Utilities**

Section 1-07.17(3) is added as follows:

Limited information related to underground utilities are shown on the plans and other project documents. The project plans and documents shall not be relied upon for reference to, or location of, existing utilities (i.e. water, sewer, storm, power, gas, communications, etc.). The

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1 contractor shall obtain utility locates by both a private locate service, and  
2 by contacting One-Call, in advance of work. In addition, the contractor is  
3 also advised to obtain all available utility information such as GIS, utility  
4 maps, system maps, or other utility information needed to adequately  
5 inform all physical locate efforts. The Contractor shall be solely  
6 responsible for, and have the responsibility of due diligence in, collecting  
7 and obtaining the utility location information needed to inform and  
8 support utility locate efforts performed by the Contractor or their  
9 subcontractor(s).

10  
11 Once locates and utility information have been successfully acquired, the  
12 Contractor shall also perform potholing, as may be prudent and  
13 necessary, physically locate all utilities that may be in conflict with the  
14 work.

15 Any depiction of utility feature in the Plans shall not relieve the  
16 Contractor of the obligation to locate existing utilities in accordance with  
17 these Specifications.

18  
19 Prior to any Work requiring excavation, the Contractor shall forward a  
20 Pothole Plan to the Contracting Agency for review showing proposed  
21 exploration hole size and location to determine the vertical and  
22 horizontal position of existing utilities which may interfere with Work. The  
23 Contractor shall not begin potholing until the plan is approved by the  
24 Engineer. Following potholing and no less than 2 working days prior to  
25 excavation, the Contractor shall forward information regarding the  
26 location of existing utilities to the Contracting Agency for review, which  
27 shall include notification of whether or not there is a conflict. In the event  
28 of a conflict with the scheduled Work and existing utilities, the Contractor  
29 shall allow the Contracting Agency up to 5 working days, starting from  
30 the date the Engineer was notified, to confirm and appropriately address  
31 the conflict. If the Contracting Agency is notified of more than one conflict  
32 at any one time, an additional 5 working days of review will be allowed  
33 for each additional conflict. If a utility conflict is found during the  
34 performance of Work where a pothole or proper notification of the conflict  
35 was not made prior to the excavation, the Contracting Agency shall not  
36 be responsible for costs associated with removing or adjusting Work  
37 already completed following any necessary design revisions to avoid the  
38 conflict.

39  
40 Unless otherwise approved by the Engineer, pothole exploration holes in  
41 the Traveled Way shall be repaired in accordance with City of Mill Creek  
42 Development Standards and Standard Plans. Prior to removal of  
43 materials, pavement shall be saw cut a minimum of 4" in depth. In areas

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SPECIAL PROVISIONS - Continued

1 where concrete sidewalk or curb and gutter require removal to pothole,  
2 the Contractor shall remove existing improvements to the nearest  
3 dummy joint or expansion joint. Existing improvements shall be restored  
4 to the satisfaction of the Engineer.

5  
6 **Measurement**

7 Utility Potholing lump sum.

8  
9 **Payment**

10 "Utility Potholing", lump sum.

11 The lump sum Contract price for "Utility Potholing" shall constitute full  
12 compensation for all Work to obtain utility locate information and pothole  
13 existing utility locations that may interfere with the work, including  
14 Pothole Plan submittals, saw cutting, removal and disposal of materials  
15 to pothole utilities, and restoration of existing improvements.

16  
17 No compensation will be made for potholes performed by the Contractor  
18 but not shown on an approved Pothole Plan or otherwise approved by  
19 the Engineer in writing prior to potholing activities.

20  
21 Additional costs to adjust Work already performed as a result of design  
22 revisions to resolve utility conflicts shall be paid in accordance with  
23 Section 1-04.4 except as noted otherwise in these Specifications. No  
24 additional compensation will be allowed for "stand by", delay,  
25 mobilization of equipment, or extra Work costs of any kind incurred by  
26 the Contractor as a result of the utility conflicts during the time the  
27 Contracting Agency is allowed to review the conflict. If the Contracting  
28 Agency review exceeds the allowable review time, the Contractor may  
29 be compensated for stand-by or mobilization extra costs starting on the  
30 following day the allowable review time is completed.

31  
32 Verification if utilities are active or abandoned, protection of active  
33 utilities and abandoning/plugging utility conduits, except as provided for  
34 sewer and water utility pipes elsewhere in these Provisions, will be  
35 considered as included in other items of Work within the Contract  
36 documents, and no separate payment will be made.

37  
38 **1-07.18 Public Liability and Property Damage Insurance**

39  
40 Delete this section in its entirety, and replace it with the following:

41  
42 **1-07.18 Insurance**  
43 *(February 2, 2018 MC GSP)*

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SPECIAL PROVISIONS - Continued

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

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A-: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer’s financial condition.
- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor’s Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. All insurance coverage required by this section shall be written and provided by “occurrence-based” policy forms rather than by “claims made” forms.
- D. The Contractor’s Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency’s insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor’s insurance and shall not contribute with it.
- E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency
- G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days’ notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or

SPECIAL PROVISIONS - Continued

1 at the sole discretion of the Contracting Agency, offset against  
2 funds due the Contractor from the Contracting Agency.

3  
4 H. All costs for insurance shall be incidental to and included in the unit  
5 or lump sum prices of the Contract and no additional payment will  
6 be made.

7  
8 **1-07.18(2) Additional Insured**

9  
10 All insurance policies, with the exception of Workers Compensation, and  
11 of Professional Liability and Builder's Risk (if required by this Contract)  
12 shall name the following listed entities as additional insured(s) using the  
13 forms or endorsements required herein:

- 14  
15 • the Contracting Agency and its officers, elected officials,  
16 employees, agents, and volunteers  
17 • Perteet Inc.  
18 • 1-Alliance.

19  
20 The above-listed entities shall be additional insured(s) for the full available  
21 limits of liability maintained by the Contractor, irrespective of whether such  
22 limits maintained by the Contractor are greater than those required by this  
23 Contract, and irrespective of whether the Certificate of Insurance provided  
24 by the Contractor pursuant to 1-07.18(4) describes limits lower than those  
25 maintained by the Contractor.

26  
27 For Commercial General Liability insurance coverage, the required  
28 additional insured endorsements shall be at least as broad as ISO forms  
29 CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed  
30 operations.

31  
32 **1-07.18(3) Subcontractors**

33  
34 The Contractor shall cause each Subcontractor of every tier to provide  
35 insurance coverage that complies with all applicable requirements of the  
36 Contractor-provided insurance as set forth herein, except the Contractor  
37 shall have sole responsibility for determining the limits of coverage  
38 required to be obtained by Subcontractors.

39  
40 The Contractor shall ensure that all Subcontractors of every tier add all  
41 entities listed in 1-07.18(2) as additional insureds, and provide proof of  
42 such on the policies as required by that section as detailed in 1-07.18(2)



SPECIAL PROVISIONS - Continued

1 using an endorsement as least as broad as ISO CG 20 10 10 01 for  
2 ongoing operations and CG 20 37 10 01 for completed operations.

3  
4 Upon request by the Contracting Agency, the Contractor shall forward to  
5 the Contracting Agency evidence of insurance and copies of the additional  
6 insured endorsements of each Subcontractor of every tier as required in  
7 1-07.18(4) Verification of Coverage.

8  
9 **1-07.18(4) Verification of Coverage**

10  
11 The Contractor shall deliver to the Contracting Agency a Certificate(s) of  
12 Insurance and endorsements for each policy of insurance meeting the  
13 requirements set forth herein when the Contractor delivers the signed  
14 Contract for the work. Failure of Contracting Agency to demand such  
15 verification of coverage with these insurance requirements or failure of  
16 Contracting Agency to identify a deficiency from the insurance  
17 documentation provided shall not be construed as a waiver of Contractor's  
18 obligation to maintain such insurance.

19  
20 Verification of coverage shall include:

- 21  
22 1. An ACORD certificate or a form determined by the Contracting  
23 Agency to be equivalent.  
24 2. The Contractor shall obtain endorsement forms CG 20 10 10 01  
25 and CG 20 37 10 01 or the equivalent of each, naming the  
26 Contracting Agency and all other entities listed in 1-07.18(2) as  
27 Additional Insured(s) and showing the policy number. If the  
28 Contractor is unsuccessful in securing these endorsements after  
29 exerting commercially reasonable efforts, the Contractor shall  
30 obtain other endorsements providing equivalent protection to the  
31 Additional Insured. A statement of additional insured status on an  
32 ACORD Certificate of Insurance shall not satisfy this requirement.  
33 Commercially reasonable efforts shall be evidenced by a signed  
34 statement by the Contractor's insurance broker indicating that  
35 endorsement forms CG 20 10 10 10 and CG 20 37 10 01 are not  
36 available and the endorsements submitted provide equivalent  
37 protection to the Additional Insured.  
38 3. Any other amendatory endorsements to show the coverage  
39 required herein.  
40 4. A notation of coverage enhancements on the Certificate of  
41 Insurance shall not satisfy these requirements – actual  
42 endorsements must be submitted.  
43

SPECIAL PROVISIONS - Continued

1           Upon request by the Contracting Agency, the Contractor shall forward to  
2           the Contracting Agency a full and certified copy of the insurance policy(s).  
3           If Builders Risk insurance is required on this Project, a full and certified  
4           copy of that policy is required when the Contractor delivers the signed  
5           Contract for the work.

6

7

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

8

9           The insurance shall provide the minimum coverages and limits set forth  
10          below. Contractor's maintenance of insurance, its scope of coverage, and  
11          limits as required herein shall not be construed to limit the liability of the  
12          Contractor to the coverage provided by such insurance, or otherwise limit  
13          the Contracting Agency's recourse to any remedy available at law or in  
14          equity.

15

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

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          The Commercial General Liability insurance shall be endorsed to provide  
          a per project general aggregate limit, using ISO form CG 25 03 05 09 or  
          an equivalent endorsement.

38

39

40

41

42

          Contractor shall maintain Commercial General Liability Insurance arising  
          out of the Contractor's completed operations for at least three years  
          following Substantial Completion of the Work.

43

          Such policy must provide the following minimum limits:

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SPECIAL PROVISIONS - Continued

- 1
- 2           \$3,000,000   Each Occurrence
- 3           \$3,000,000   General Aggregate
- 4           \$3,000,000   Products & Completed Operations Aggregate
- 5           \$3,000,000   Personal & Advertising Injury each offence
- 6           \$3,000,000   Stop Gap/Employers' Liability each accident
- 7

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

8  
9  
10           Automobile Liability shall cover owned, non-owned, hired, and leased  
11           vehicles; and shall be written on a coverage form at least as broad as ISO  
12           form CA 00 01. If the work involves the transport of pollutants, the  
13           automobile liability policy shall include MCS 90 and CA 99 48  
14           endorsements.

15  
16           Such policy must provide the following minimum limit:

17  
18           \$1,000,000   Combined single limit each accident

19  
20           **1-07.18(5)C Workers' Compensation**

21  
22           The Contractor shall comply with Workers' Compensation coverage as  
23           required by the Industrial Insurance laws of the State of Washington.

24  
25

SPECIAL PROVISIONS - Continued

1           **1-07.18(5)D Excess or Umbrella Liability**  
2           (January 4, 2016 APWA GSP)

3  
4           The Contractor shall provide Excess or Umbrella Liability insurance with  
5           limits of not less than 2 million each occurrence and annual aggregate.  
6           This excess or umbrella liability coverage shall be excess over and as  
7           least as broad in coverage as the Contractor's Commercial General and  
8           Auto Liability insurance

9  
10          All entities listed under 1-07.18(2) of these Special Provisions shall be  
11          named as additional insureds on the Contractor's Excess or Umbrella  
12          Liability insurance policy.

13  
14          This requirement may be satisfied instead through the Contractor's  
15          primary Commercial General and Automobile Liability coverages, or any  
16          combination thereof that achieves the overall required limits of insurance.

17  
18  
19          **1-07.18(5)E Builders Risk**

20  
21          Contractor shall purchase and maintain Builder's Risk insurance covering  
22          interests of the Contracting Agency, the Contractor, and Subcontractors of  
23          every tier, as Named Insureds, in the Work. An Installation Floater instead  
24          of Builders Risk is acceptable for renovation projects. Builder's Risk  
25          insurance shall be on a special form policy, and shall insure against the  
26          perils of fire and extended coverage and physical loss or damage, theft,  
27          vandalism, malicious mischief and collapse; and flood and earthquake  
28          when shown below. The Builder's Risk insurance shall include coverage  
29          for temporary buildings, debris removal, and damage to materials in transit  
30          or stored off-site. Such insurance shall cover resulting "soft costs"  
31          including but not limited to design costs, licensing fees, architect's and  
32          engineer's fees, and costs due to delay in completion.

33  
34          Builder's Risk insurance shall be written in the amount of the completed  
35          value of the project, with no coinsurance provisions. Such policy must  
36          provide coverage and deductibles that comply with the following:

- 37  
38          **Coverage:**  
39          Total Cost of Project to be Insured: Contract Amount  
40          Soft Costs: 20% of Contract Amount  
41          Flood: Contract Amount  
42          Earthquake: Contract Amount

SPECIAL PROVISIONS - Continued

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**Deductibles not to exceed:**

- Flood: 2% of the Value at Time of Loss, subject to a \$250,000 Minimum
- Earthquake: 5% of the Value at Time of Loss, subject to a \$250,000 Minimum
- Earth Movement: 5% of the Value at Time of Loss, subject to a \$250,000 Minimum
- All Other Perils: \$50,000
- Soft Costs: \$50,000, with no more than 7-day waiting period

The Builders Risk insurance covering the work shall have maximum deductibles as listed above for each occurrence. The deductible(s) shall be the responsibility of the Contractor.

The Contractor shall provide the Contracting Agency with a full and certified copy of the insurance policy when the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage with these insurance requirements or failure of Contracting Agency to identify a deficiency from the insurance documentation provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

The Builders Risk insurance shall be maintained until final acceptance of the Work by the Contracting Agency.

The Contractor and the Contracting Agency waive all rights against each other and any of their Subcontractors of every tier, agents, and employees, officers, and officials, for damages caused by fire or other perils to the extent covered by Builder's Risk insurance or other property insurance applicable to the work. The policies shall provide such waivers by endorsement.

**1-07.23 Public Convenience and Safety**

**1-07.23(1) Construction Under Traffic**  
*(January 2, 2012 WSDOT GSP)*

This Section is supplemented with the following:

**Work Zone Clear Zone**

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside

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1 objects introduced by the Contractor's operations and does not  
2 apply to preexisting conditions or permanent Work. Those work  
3 operations that are actively in progress shall be in accordance with  
4 adopted and approved Traffic Control Plans, and other contract  
5 requirements.

6  
7 During nonworking hours equipment or materials shall not be within  
8 the WZCZ unless they are protected by permanent guardrail or  
9 temporary concrete barrier. The use of temporary concrete barrier  
10 shall be permitted only if the Engineer approves the installation and  
11 location.

12  
13 During actual hours of work, unless protected as described above,  
14 only materials absolutely necessary to construction shall be within  
15 the WZCZ and only construction vehicles absolutely necessary to  
16 construction shall be allowed within the WZCZ or allowed to stop or  
17 park on the shoulder of the roadway.

18  
19 The Contractor's nonessential vehicles and employees private  
20 vehicles shall not be permitted to park within the WZCZ at any time  
21 unless protected as described above.

22  
23 Deviation from the above requirements shall not occur unless the  
24 Contractor has requested the deviation in writing and the Engineer  
25 has provided written approval.

26  
27 Minimum WZCZ distances are measured from the edge of traveled  
28 way and will be determined as follows:

29

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

30 \*Or 2-feet beyond the outside edge of sidewalk

31

32

**Minimum Work Zone Clear Zone Distance**

33

34 This Section is supplemented with the following:  
35 (January 5, 2015 WSDOT GSP)

36

City of Mill Creek  
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SPECIAL PROVISIONS - Continued

1 Lane closures are subject to the following restrictions:  
2

3 One lane of traffic shall be maintained at all times. No full roadway  
4 closures shall be permitted.  
5

6 If the Engineer determines the permitted closure hours adversely affect  
7 traffic, the Engineer may adjust the hours accordingly. The Engineer will  
8 notify the Contractor in writing of any change in the closure hours.  
9

10 Lane closures are not allowed on any of the following:  
11

- 12 1. A holiday,  
13
- 14 2. A holiday weekend; holidays that occur on Friday, Saturday,  
15 Sunday or Monday are considered a holiday weekend. A holiday  
16 weekend includes Saturday, Sunday, and the holiday.  
17
- 18 3. After 6:00 p.m. on the day prior to a holiday or holiday weekend,  
19 and  
20
- 21 4. Before 7:00 a.m. on the day after the holiday or holiday weekend.  
22

23 **1-07.24 Rights of Way**  
24 *(July 23, 2015 APWA GSP)*  
25

26  
27 Delete this Section and replace it with the following:  
28

29 Street right-of-way lines and limits of easements are indicated in the Plans  
30 and/or easement exhibits. The Contractor's construction activities shall be  
31 confined within these limits, unless alternate arrangements for use of  
32 private property are made.  
33

34 Generally, the Contracting Agency will have obtained all necessary right-  
35 of-way acquisitions and easements, both temporary and permanent,  
36 necessary to carry out the work prior to bid opening. Exceptions to this are  
37 either noted in the Bid Documents or will be brought to the Contractor's  
38 attention by issued Addendum.  
39

40 Whenever any of the work is accomplished on or through property other  
41 than public right of way, the Contractor shall meet and fulfill all  
42 agreements, conditions, and obligations of any easement obtained by the  
43 Contracting Agency from the owner of the private property. Copies of

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SPECIAL PROVISIONS - Continued

1 easement agreements may be included in the Contract Provisions or will  
2 be made available to the Contractor as soon as practical upon being  
3 obtained by the Engineer.

4  
5 The Contractor shall not proceed with work in areas where right of way,  
6 easements or rights of entry have not been acquired until the Engineer  
7 certifies to the Contractor that the right of way or easement has been  
8 secured or that the right of entry has been received. If the Contractor is  
9 delayed due to acts of omission on the part of the Contracting Agency in  
10 obtaining easements, rights of entry or right of way, the Contractor will be  
11 entitled to an extension of time. In bidding this project, the Contractor  
12 agrees that such delay shall not be a breach of contract.

13  
14 Each property owner shall be given 48-hours' notice prior to entry by the  
15 Contractor. This includes entry onto easements and private property  
16 where private improvements must be adjusted.

17  
18 The Contractor shall be responsible for providing, without expense or  
19 liability to the Contracting Agency, any additional land and access thereto  
20 that the Contractor may desire for temporary construction facilities,  
21 storage and laydown of materials, contractor parking, equipment storage  
22 or other Contractor needs. However, before using private property,  
23 whether adjoining the work or not, the Contractor shall file with the  
24 Engineer written permission of the private property owner, and, upon  
25 vacating the premises, a written release from the property owner of each  
26 property disturbed or otherwise utilized by contractor forces in  
27 performance of work related to this contract. The statement shall be  
28 signed by the private property owner, or their legal agent acting on behalf  
29 of the affected property owner, stating that permission has been granted to  
30 use the property and all necessary permissions and/or permits have been  
31 obtained. In the case of a release, the statement shall confirm that the  
32 restoration of the property has been satisfactorily completed. In all cases,  
33 the statement shall include the parcel number, address, owner and/or  
34 agent name, and date of signature. Written releases must be filed with the  
35 Engineer before the Completion Date for the project will be established.

36  
37 All costs associated with obtaining property use rights, approvals,  
38 submittals, releases, providing, maintaining, permitting, and operating the  
39 Construction Staging and Personnel Parking Area(s) for this Project shall  
40 be considered incidental to and included in the unit and lump sum bid  
41 prices.

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SPECIAL PROVISIONS - Continued

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**1-08 PROSECUTION AND PROGRESS**

Add the following new section:

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

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

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

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

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

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

Add the following new section:

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

Except in the case of emergency or unless otherwise approved by the Engineer, the normal working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires

SPECIAL PROVISIONS - Continued

1 different than the normal working hours stated above, the request must be  
2 submitted in writing prior to the preconstruction conference, subject to the  
3 provisions below. The working hours for the Contract shall be established  
4 at or prior to the preconstruction conference.  
5

6 All working hours and days are also subject to local permit and ordinance  
7 conditions (such as noise ordinances).  
8

9 If the Contractor wishes to deviate from the established working hours, the  
10 Contractor shall submit a written request to the Engineer for consideration.  
11 This request shall state what hours are being requested, and why.  
12 Requests shall be submitted for review no later than 48 hours prior to the  
13 day(s) the Contractor is requesting to change the hours.  
14

15 If the Contracting Agency approves such a deviation, such approval may  
16 be subject to certain other conditions, which will be detailed in writing. For  
17 example:  
18

- 19 1. On non-Federal aid projects, requiring the Contractor to reimburse  
20 the Contracting Agency for the costs in excess of straight-time costs  
21 for Contracting Agency representatives who worked during such  
22 times. (The Engineer may require designated representatives to be  
23 present during the work. Representatives who may be deemed  
24 necessary by the Engineer include, but are not limited to: survey  
25 crews; personnel from the Contracting Agency's material testing  
26 lab; inspectors; and other Contracting Agency employees or third  
27 party consultants when, in the opinion of the Engineer, such work  
28 necessitates their presence.)  
29
- 30 2. Considering the work performed on Saturdays, Sundays, and  
31 holidays as working days with regard to the contract time.  
32
- 33 3. Considering multiple work shifts as multiple working days with  
34 respect to contract time even though the multiple shifts occur in a  
35 single 24-hour period.  
36
- 37 4. If a 4-10 work schedule is requested and approved the non working  
38 day for the week will be charged as a working day.  
39
- 40 5. If Davis Bacon wage rates apply to this Contract, all requirements  
41 must be met and recorded properly on certified payroll  
42

SPECIAL PROVISIONS - Continued

1 **1-08.1 Subcontracting**  
2 *(February 2, 2018 MC GSP)*

3  
4 The eighth and ninth paragraphs are revised to read:

5  
6 The Contractor shall comply with the requirements of RCW 39.04.250,  
7 39.76.011, 39.76.020, and 39.76.040, in particular regarding prompt  
8 payment to Subcontractors. Whenever the Contractor withholds payment  
9 to a Subcontractor for any reason including disputed amounts, the  
10 Contractor shall provide notice within 10 calendar days to the  
11 Subcontractor with a copy to the Contracting Agency identifying the  
12 reason for the withholding and a clear description of what the  
13 Subcontractor must do to have the withholding released. Retainage  
14 withheld by the Contractor prior to completion of the Subcontractors work  
15 is exempt from reporting as a payment withheld and is not included in the  
16 withheld amount. The Contracting Agency's copy of the notice to  
17 Subcontractor for deferred payments shall be submitted to the Engineer  
18 concurrently with notification to the Subcontractor.  
19

20 **1-08.3 Progress Schedule**

21  
22 **1-08.3(2) Progress Schedule Types**

23  
24 **1-08.3(2)A Type A Progress Schedule**  
25 *(March 13, 2012 APWA GSP)*

26  
27 Revise this section to read:

28  
29 The Contractor shall submit 4 ea. copies of a Type A Progress Schedule  
30 no later than at the preconstruction conference, or some other mutually  
31 agreed upon submittal time. The schedule may be a critical path method  
32 (CPM) schedule, bar chart, or other standard schedule format. Regardless  
33 of which format used, the schedule shall identify the critical path. The  
34 Engineer will evaluate the Type A Progress Schedule and approve or  
35 return the schedule for corrections within 15 calendar days of receiving the  
36 submittal.  
37

38 **1-08.3(2)D Weekly Look Ahead Schedule**  
39 *(February 2, 2018 MC GSP)*

40  
41 This Section is supplemented with the following:  
42

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SPECIAL PROVISIONS - Continued

1           The Contractor shall attend a weekly construction meeting with the  
2           Contracting Agency and/or with the Contracting Agency's representative.  
3           The meeting will include discussion of the weekly look ahead schedule,  
4           status of the Work performed that week as well as upcoming and  
5           outstanding Work, utility coordination, and traffic control, and force  
6           account Work. The Contractor's superintendent and/or foreman shall  
7           attend and participate in the weekly construction meeting.

8  
9           **1-08.4 Prosecution of Work**

10  
11          Delete this section and replace it with the following:

12  
13           **1-08.4 Notice to Proceed and Prosecution of Work**  
14           *(July 23, 2015 APWA GSP)*

15  
16           Notice to Proceed will be given after the contract has been executed and  
17           the contract bond and evidence of insurance have been approved and  
18           filed by the Contracting Agency. The Contractor shall not commence with  
19           the work until the Notice to Proceed has been given by the Engineer. The  
20           Contractor shall commence construction activities on the project site within  
21           ten days of the Notice to Proceed Date, unless otherwise approved in  
22           writing. The Contractor shall diligently pursue the work to the physical  
23           completion date within the time specified in the contract. Voluntary  
24           shutdown or slowing of operations by the Contractor shall not relieve the  
25           Contractor of the responsibility to complete the work within the time(s)  
26           specified in the contract.

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

37  
38          Section 1-08.4 is supplemented with the following:

39  
40           **ORDER OF WORK**

41           The sequence of Work described herein is meant to provide general direction  
42           in the prosecution of Work. The Contractor shall remain responsible for the  
43           details of performing the Work, and the limits of each portion of the Work.

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SPECIAL PROVISIONS - Continued

1 Variations from the following general Work sequence must be approved in  
2 writing by the Engineer.

- 3  
4 1. The work shall be prioritized by site in the following order:  
5 a. Site 1  
6 b. Site 5  
7 c. Site 6  
8 d. Site 7  
9 e. Site 8  
10 f. Site 12  
11 g. Site 13  
12 h. Site 16  
13 i. Site 18  
14 j. Site 19  
15 k. Site 20  
16 l. Site 10  
17 m. Site 9  
18 n. Site 14  
19 o. Site 11  
20 p. Site 15

21  
22 **1-08.5 Time for Completion**

23  
24 *(March 13, 1995 WSDOT GSP)*

25 This Section is supplemented with the following:

26  
27 This project shall be physically completed within 65 working days.

28  
29 *(February 2, 2018 MC GSP)*

30  
31 Delete this Section in its entirety and replace with the following:

32  
33 The Contractor shall complete all Contract Work within the number of  
34 “working days” stated in the Contract Provisions or as extended by the  
35 Engineer in accordance with Section 1-08.8. Every day will be counted as  
36 a “working day” unless it is a nonworking day or an Engineer determined  
37 unworkable day. A nonworking day is defined as a Saturday, a Sunday, a  
38 day on which the Contract specifically suspends Work, or one of these  
39 holidays: January 1, the third Monday of January, the third Monday of  
40 February, Memorial Day, July 4, Labor Day, November 11, Thanksgiving,  
41 the day after Thanksgiving, and Christmas Day. When any of these  
42 holidays fall on a Sunday, the following Monday shall be counted a  
43 nonworking day. When the holiday falls on a Saturday, the preceding

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SPECIAL PROVISIONS - Continued

1 Friday shall be counted a nonworking day. The days between December  
2 25 and January 1 will be classified as nonworking days, provided the  
3 Contractor actually suspends performance of the Work.

4  
5 Any unworkable day is defined as a half or whole day the Engineer  
6 declares to be unworkable because of weather or conditions caused by  
7 the weather that prevents satisfactory and timely performance of the  
8 Work. If the Contractor works, regardless of the weather, that day shall be  
9 counted as a working day. Other conditions beyond the control of the  
10 Contractor may qualify for an extension of time in accordance with Section  
11 1-08.8.

12  
13 The Contract time shall begin on the first working day following the 10<sup>th</sup>  
14 calendar day after the issuance of the written notice to proceed or the first  
15 day on which the Contractor begins to perform Work on the site,  
16 whichever first occurs. The Contract Provisions may specify another  
17 starting date for the Contract time, in which case time will begin on the  
18 starting date specified.

19  
20 Each working day shall be charged to the Contract as it occurs until the  
21 Work is physically complete. If requested by the Contractor in writing, the  
22 Engineer will provide the Contractor with a weekly statement that shows  
23 the number of working days: (1) charged to the Contract the week before;  
24 (2) specified for the substantial and physical completion of the Contract;  
25 and (3) remaining for the substantial and physical completion of the  
26 Contract. The statement will also show the nonworking days and any  
27 partial or whole days that the Engineer determines to be unworkable. If  
28 the Contractor disagrees with any statement issued by the Engineer, the  
29 Contractor shall submit a written protest within 10 calendar days after the  
30 date of the statement. The protest shall be sufficiently detailed to enable  
31 the Engineer to ascertain the basis for the dispute and the amount of time  
32 disputed. Any statement that is not protested by the Contractor as  
33 required in this Section shall be deemed as having been accepted. If the  
34 Contractor elects to work 10 hours a day for four days a week (a 4-10  
35 schedule), the fifth day of the week of that week will be charged as a  
36 working day if that day would be chargeable as a working day if the  
37 Contractor had not elected to utilize the 4-10 schedule.

38  
39 The Engineer will give the Contractor written notice of the Completion  
40 Date of the Contract after all of the Contractor's obligations under the  
41 Contract have been performed by the Contractor. The following events  
42 must occur before the Completion Date will be established:  
43

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SPECIAL PROVISIONS - Continued

- 1                   1.     The physical Work on the project must be complete; and
- 2
- 3                   2.     The Contractor must furnish all documentation required by
- 4                   the Contract and required by law, to allow the Contracting
- 5                   Agency to process final acceptance of the Contract. The
- 6                   following documents must be received by the Project
- 7                   Engineer prior to establishing a Completion Date:
- 8
- 9                   a.     Certified payrolls (per Section 1-07.9(5));
- 10
- 11                   b.     Material acceptance certification documents;
- 12
- 13                   c.     Final Contract voucher certification;
- 14
- 15                   d.     Property owner releases required by Section 1-07.24.
- 16
- 17                   e.     Affidavits of Wages Paid for the Contractor and all
- 18                   subcontractors must be submitted to the Contracting
- 19                   Agency.
- 20

21

22     **1-08.9 Liquidated Damages**  
23     *(August 14, 2013 APWA GSP)*

24

25     Revise the fourth paragraph to read:

26

27             When the Contract Work has progressed to Substantial Completion as

28             defined in the Contract, the Engineer may determine that the work is

29             Substantially Complete. The Engineer will notify the Contractor in writing

30             of the Substantial Completion Date. For overruns in Contract time

31             occurring after the date so established, the formula for liquidated damages

32             shown above will not apply. For overruns in Contract time occurring after

33             the Substantial Completion Date, liquidated damages shall be assessed

34             on the basis of direct engineering and related costs assignable to the

35             project until the actual Physical Completion Date of all the Contract Work.

36             The Contractor shall complete the remaining Work as promptly as

37             possible. Upon request by the Project Engineer, the Contractor shall

38             furnish a written schedule for completing the physical Work on the

39             Contract.

40

41     **1-09 MEASUREMENT AND PAYMENT**

42

43     **1-09.2 Weighing Equipment**

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SPECIAL PROVISIONS - Continued

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**1-09.2(1) General Requirements for Weighing Equipment**  
*(July 23, 2015 APWA GSP, Option 2)*

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, unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

**1-09.2(5) Measurement**  
*(May 2, 2017 APWA GSP)*

Revise the first paragraph to read:

- Scale Verification Checks** – At the Engineer's discretion, the Engineer may perform verification checks on the accuracy of each batch, hopper, or platform scale used in weighing contract items of Work.

**1-09.6 Force Account**  
*(October 10, 2008 APWA GSP)*

Supplement this Section with the following:

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.

**1-09.9 Payments**  
*(March 13, 2012 APWA GSP)*

Delete the first four paragraphs and replace them with the following:

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



SPECIAL PROVISIONS - Continued

1           The Contractor shall submit a breakdown of the cost of lump sum bid  
2 items at the Preconstruction Conference, to enable the Project Engineer to  
3 determine the Work performed on a monthly basis. A breakdown is not  
4 required for lump sum items that include a basis for incremental payments  
5 as part of the respective Specification. Absent a lump sum breakdown,  
6 the Project Engineer will make a determination based on information  
7 available. The Project Engineer's determination of the cost of work shall  
8 be final.

9  
10           Progress payments for completed work and material on hand will be  
11 based upon progress estimates prepared by the Engineer. A progress  
12 estimate cutoff date will be established at the preconstruction conference.

13  
14           The initial progress estimate will be made not later than 30 days after the  
15 Contractor commences the work, and successive progress estimates will  
16 be made every month thereafter until the Completion Date. Progress  
17 estimates made during progress of the work are tentative, and made only  
18 for the purpose of determining progress payments. The progress  
19 estimates are subject to change at any time prior to the calculation of the  
20 final payment.

21  
22           The value of the progress estimate will be the sum of the following:

- 23  
24           1.     Unit Price Items in the Bid Form — the approximate quantity of  
25 acceptable units of work completed multiplied by the unit price.  
26           2.     Lump Sum Items in the Bid Form — based on the approved  
27 Contractor's lump sum breakdown for that item, or absent such a  
28 breakdown, based on the Engineer's determination.  
29           3.     Materials on Hand — 100 percent of invoiced cost of material  
30 delivered to Job site or other storage area approved by the  
31 Engineer.  
32           4.     Change Orders — entitlement for approved extra cost or completed  
33 extra work as determined by the Engineer.

34  
35           Progress payments will be made in accordance with the progress estimate  
36 less:

- 37  
38           1.     Retainage per Section 1-09.9(1), on non FHWA-funded projects;  
39           2.     The amount of progress payments previously made; and  
40           3.     Funds withheld by the Contracting Agency for disbursement in  
41 accordance with the Contract Documents.

42

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1 Progress payments for work performed shall not be evidence of  
2 acceptable performance or an admission by the Contracting Agency that  
3 any work has been satisfactorily completed. The determination of  
4 payments under the contract will be final in accordance with Section  
5 1-05.1.

6

7 **1-09.11 Disputed Claims**

8

9 **1-09.11(3) Time Limitation and Jurisdiction**

10 *(July 23, 2015 APWA GSP)*

11

12 Revise this section to read:

13

14 For the convenience of the parties to the Contract it is mutually agreed by  
15 the parties that any claims or causes of action which the Contractor has  
16 against the Contracting Agency arising from the Contract shall be brought  
17 within 180 calendar days from the date of final acceptance (Section 1-  
18 05.12) of the Contract by the Contracting Agency; and it is further agreed  
19 that any such claims or causes of action shall be brought only in the  
20 Superior Court of the county where the Contracting Agency headquarters  
21 is located, provided that where an action is asserted against a county,  
22 RCW 36.01.05 shall control venue and jurisdiction. The parties  
23 understand and agree that the Contractor's failure to bring suit within the  
24 time period provided, shall be a complete bar to any such claims or  
25 causes of action. It is further mutually agreed by the parties that when any  
26 claims or causes of action which the Contractor asserts against the  
27 Contracting Agency arising from the Contract are filed with the Contracting  
28 Agency or initiated in court, the Contractor shall permit the Contracting  
29 Agency to have timely access to any records deemed necessary by the  
30 Contracting Agency to assist in evaluating the claims or action.

31

32 **1-09.13 Claims Resolution**

33

34 **1-09.13(3) Claims \$250,000 or Less**

35 *(October 1, 2005 APWA GSP)*

36

37 Delete this section and replace it with the following:

38

39 The Contractor and the Contracting Agency mutually agree that those  
40 claims that total \$250,000 or less, submitted in accordance with  
41 Section 1-09.11 and not resolved by nonbinding ADR processes, shall be  
42 resolved through litigation unless the parties mutually agree in writing to  
43 resolve the claim through binding arbitration.

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**1-10 TEMPORARY TRAFFIC CONTROL**

**1-10.2 Traffic Control Management**

**1-10.2(1) General**

This Section is supplemented with the following:

*(January 3, 2017 WSDOT GSP)*

Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the State of Washington. The Traffic Control Supervisor shall be certified by one of the following:

The Northwest Laborers-Employers Training Trust  
27055 Ohio Ave.  
Kingston, WA 98346  
(360) 297-3035

Evergreen Safety Council  
12545 135<sup>th</sup> Ave. NE  
Kirkland, WA 98034-8709  
1-800-521-0778

The American Traffic Safety Services Association  
15 Riverside Parkway, Suite 100  
Fredericksburg, Virginia 22406-1022  
Training Dept. Toll Free (877) 642-4637  
Phone: (540) 368-1701

**1-10.2(1)A Traffic Control Management**

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

A Traffic Control Supervisor shall be onsite for the duration and frequency needed to fulfill the duties of the TCS per Specification Section 1-10.2(1)A and shall be available, and able to respond within 10 minutes, when traffic control adjustments or revisions are needed.

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

SPECIAL PROVISIONS - Continued

1 correct any TCP discrepancies within 45 minutes of the notice. It is  
2 the responsibility of the Contractor to ensure that a Traffic Control  
3 Manager or Supervisor contact is available at all times during Work,  
4 or make known to the Engineer a delegated individual to contact  
5 should a TCP correction becomes necessary.  
6

7 If the Contractor proceeds with Work that impacts vehicular traffic or  
8 pedestrian access that is not covered by an approved TCP in  
9 accordance with Section 1-10.2(2), the Contractor shall stop Work  
10 immediately and return the Work area to a safe condition. Work shall  
11 not resume until a TCP is approved by the Engineer. All costs to  
12 provide temporary detours, repairs to the Work area and their  
13 subsequent removals as a result of the stoppage shall be borne by  
14 the Contractor.  
15

16 The Contractor shall take note of existing construction signage  
17 related to other nearby projects to ensure that the intent/message of  
18 proposed TCP signage on this project does not conflict with other  
19 existing signage/messaging.  
20

21 **1-10.2(2) Traffic Control Plans**

22 Section 1-10.2(2) is supplemented with the following:  
23

24 Submittal of a Contractor-prepared Traffic Control Plan (TCP) shall be  
25 required at the time of Right-of-Way (ROW) Permit application. The  
26 Contractor's TCP shall require review and approval by the City prior to  
27 ROW permit issuance. Applications to obtain ROW permits shall be  
28 made within 10 days after receiving Notice to Proceed. TCP submittal  
29 requirements shall be as required by the City at time of permit  
30 application. The Contractor shall prepare site-specific plans for each site  
31 included in the project.  
32

33 Examples of WSDOT standard traffic control plans have been made  
34 available for the contractor's reference in Appendix E of these  
35 Specifications. These standard plans are being provided to show a  
36 method of handling traffic. The contractor shall be solely responsible for  
37 submitting the individual, site-specific traffic control plans needed to  
38 obtain the ROW permit in accordance with the standard City permitting  
39 process. The costs for preparation of the TCP's and of obtaining the  
40 permit, including fees, shall be the contractor's responsibility and shall  
41 be included in the lump sum cost for Project Temporary Traffic Control.  
42

SPECIAL PROVISIONS - Continued

1 A TCP shall be submitted for each type of Work listed below. A revised or  
2 additional TCP shall be submitted for approval 10 days prior to each time  
3 an adjustment to a previously approved TCP becomes necessary.  
4

5 1) TCP (Construction Access) – Any construction activity that  
6 requires the Contractor to enter and exit the construction site  
7 using a public road. This Plan shall address routes for hauling and  
8 delivery of project materials to and from the project site, and  
9 designated entrances and exits for personnel or construction  
10 vehicles for normal daily use. This Plan shall be submitted 10  
11 days after Contract Award.

12  
13 2) TCP (Temporary Traffic Lane/Shoulder Closures) – Any activity  
14 requiring closures or adjustments to lanes or Shoulders; driveway  
15 or pedestrian access; or entire Roadway.

16  
17 3) TCP (Pedestrian Traffic Control) – Any Work that may impede or  
18 impact directly or indirectly any existing pedestrian route not  
19 related to 2) above.

20  
21 4) TCP (Work near state routes) – Any construction activity that may  
22 impact SR 527.

23  
24 The Contractor shall also submit for approval to the Engineer a Lane  
25 Closure/Detour Notice on a Contracting Agency provided form on the  
26 Wednesday preceding the week of the planned Work requiring the  
27 implementation of a TCP. The notice shall include planned closures or  
28 detours for the week period with the following information:  
29

- 30 1) Date of closure
- 31 2) Limits of closure
- 32 3) Type of Work
- 33 4) Start and end times of closure
- 34 5) Approved TCP number
- 35 6) Detour routes, as applicable
- 36 7) Other pertinent information describing the closure

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SPECIAL PROVISIONS - Continued

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**1-10.3(3) Traffic Control Devices**

**1-10.3(3)A Construction Signs**

Section 1-10.3(3)A is supplemented with the following:

Class B signs may remain longer than 3-days provided they do not impede pedestrian routes (unless designed to), conflict with vehicular traffic movements, or have a restricted view.

**END DIVISION 1**

SPECIAL PROVISIONS - Continued

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**DIVISION 2  
EARTHWORK**

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

**2-01.1 Description**

Section 2-01.1 is supplemented with the following:

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

Clearing and grubbing shall be done to the construction limits shown in the Plans and as directed by the Engineer.

This item shall include, but not be limited to, the removal of all trees, brush, fences, debris and other such material as described in Section 2-01 of the Standard Specifications which must be removed in order to construct the new facilities as shown in the Plans. The Contractor shall remove all plants within the area to be cleared that are not designated for preservation.

This work also includes protection of all trees, bushes, shrubs, landscaping or other objects and appurtenances as selected to remain. The Contractor shall not disturb, or damage existing plant material designated for preservation and shall contact the Engineer if there is any conflict between the Plans and field conditions. All trees to remain shall be protected to dripline by boxing, fencing or other preventative means or measures. When trenching occurs around trees to remain, the tree roots shall not be cut, but the trench shall be tunneled under or around the roots by careful hand-digging and without injury to the roots. All costs of protecting from damage those plants designated to be saved shall be incidental to the Bid item "Clearing and Grubbing."

If the Contractor removes or damages any existing plant or plants not designated for removal during the execution of the Work, such plant(s) shall be restored or replaced by the Contractor to a condition similar or equal to that existing before such damage or removal. All replacements shall be inspected and approved prior to planting. Planting procedures will be subject to approval. All replacements shall be guaranteed to survive in a healthy condition for a period of one (1) year after final acceptance.

Prior to clearing and grubbing operations, the Contractor shall flag all trees over 15 feet high or six-inch caliper or greater (measured six inches above ground line) that are to be removed. The Contractor shall notify the Engineer after flagging is completed and arrange a meeting prior to the removal of any existing

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SPECIAL PROVISIONS - Continued

1 trees on the project. At this meeting the Contractor and Engineer shall inspect  
2 those trees designated for removal and make any necessary changes.  
3

Where in the opinion of the Engineer, any trees abutting or adjacent to the limits  
of clearing and grubbing are damaged or will require removal, the Contractor  
shall remove such trees as incidental to and included in the Bid Item "Clearing  
and Grubbing". Trees identified for removal shall be completely removed,  
including the roots, unless the Engineer determines that complete removal is not  
necessary. In such cases, the trunk shall be cut at ground level and treated with  
an approved herbicide.

4  
5 The disposal of all material shall be the responsibility of the Contractor. Any  
6 salvageable material shall become the property of the Contractor.  
7

8 The Contractor shall notify all property owners a minimum of 5 days in advance  
9 of clearing, grubbing, and tree removal operations.  
10

11 **2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

12  
13 **2-02.3 Construction Requirements**

14  
15 ***2-02.3(2) Removal of Bridges, Box Culverts, and other Drainage***  
16 ***Structures***

17 Section 2-02.3(2) is supplemented with the following:

18  
19 **Remove Existing Pipe**

20 Where shown in the Plans or at other locations as determined by the  
21 Engineer, the Contractor shall remove sections and/or lengths of pipe in  
22 the locations and lengths specified and/or as otherwise needed to  
23 perform the work. All pipe to be removed shall be sawcut for removal  
24 with clean, vertical edges to allow for localized repair and so that  
25 couplers may be properly installed. The contractor shall employ  
26 precautionary measures to prevent damage and/or undermining of the  
27 remaining sections of drainage pipe to remain. All precautionary  
28 measures such as use of shoring, special equipment, hand digging,  
29 additional materials, etc. shall be considered incidental to the "Remove  
30 Existing Pipe" bid item. Where drainage pipe is shown for complete  
31 removal between structures, the drainage pipe shall be removed in its  
32 entirety.  
33

34 All materials from removal of drainage structures shall become the  
35 property of the Contractor and shall be disposed of at a contractor-  
36 provided disposal site outside the project limits. All work required for



SPECIAL PROVISIONS - Continued

1 removal of existing pipe, including sawcut and removal, shall be included  
 2 in the bid item "Remove Existing Pipe".  
 3

4 **2-02.3(3) Removal of Pavement, Sidewalks, Curbs and Gutters**

5 Section 2-02.3(3) is supplemented with the following:  
 6

7 **Removal of concrete curb, gutter and sidewalk**

8 The Contractor shall use a saw cut to delineate the curb, gutter, sidewalk,  
 9 and extruded curb to be removed from curb, gutter, sidewalk, and  
 10 extruded curb to remain. The Contractor shall take care to avoid  
 11 damaging adjacent curb, gutter, sidewalk, and extruded curb to remain.  
 12 Any damage caused to the curb, gutter, sidewalk, and extruded curb to  
 13 remain, as a result of the Contractor's operations, shall be repaired to the  
 14 satisfaction of the Engineer at no additional cost to the Contracting  
 15 Agency.  
 16

17 Where necessary to remove existing sidewalk, full panels shall be  
 18 removed unless otherwise directed by the Engineer. Concrete curbs shall  
 19 be removed to the nearest full depth expansion joint or full depth sawcut  
 20 location. Care shall be taken during removal to protect adjacent sidewalk  
 21 panels, concrete curbs, utilities and landscaping from damage.  
 22

23 Once removals have begun, the contractor will provide temporary  
 24 protective and restoration measures for the work zone until final  
 25 restoration is complete to the satisfaction of the City. The Contractor shall  
 26 assure that the duration of time between removal and final restoration has  
 27 been planned to minimize the length and duration of temporary patching  
 28 and restoration.  
 29

30 The average depth of existing improvements at the project site are as  
 31 shown in the following table.  
 32

33 Table 1

<b>Existing Improvement</b>	<b>Average depth</b>
Vertical curb height	12"
Vertical gutter pan thickness	6"
Rolled curb height	10"
Rolled gutter pan thickness	6.5"
Sidewalk thickness (typical)	4"
Sidewalk @ driveway locations	6"
Asphalt depth (AC wearing course + AC base course)	6"

34  
 35

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SPECIAL PROVISIONS - Continued

- 1           **Sawcutting**
- 2           All full-depth sawcuts shall be continuous and shall be made with saws
- 3           specifically equipped for the purpose. No skip-cutting or jack hammering
- 4           will be allowed unless specifically approved otherwise in writing by the
- 5           Engineer.
- 6           The contractor shall layout and/or field mark all pavement, sidewalk and
- 7           curb sawcut locations and obtain approval of the extents of removal from
- 8           the engineer prior to beginning the work. The contractor shall adjust
- 9           removal extents as directed by the engineer.
- 10
- 11          Sawcutting for utility trenching will be paid for one time for each side of the
- 12          trench. If the Contractor elects to make a second cut, or at the request of
- 13          the Engineer, in order to provide a smooth pavement edge for permanent
- 14          pavement patching, the second sawcut will not be paid for under the bid
- 15          item Sawcutting, and shall be considered incidental to other Work.
- 16
- 17          All sawcutting performed in the Contract shall provide for and include
- 18          removal and disposal of slurry created from water cooling/lubrication, by
- 19          sawcut vacuum or other means, in accordance with the Washington State
- 20          Department of Ecology regulations. Waste material (slurry) shall not be
- 21          allowed to enter drainage systems, ditches, or streams.
- 22
- 23          The Contractor shall be responsible for protecting the saw cut from
- 24          damage. If in the opinion of the Engineer the Contractor fails to
- 25          adequately protect the saw cut locations from damage, a new saw
- 26          cut shall be made, and all appropriate associated removals and
- 27          restorations made, at no additional cost to the Contracting Agency.
- 28
- 29          **Advance notification and coordination**
- 30          The contractor shall notify all property owners abutting the project site at
- 31          least one week in advance of any sawcutting of asphalt, curb, gutter or
- 32          sidewalk removals. Folding signs conforming to MUTCD standards shall
- 33          be posted notifying residents of parking restrictions and work dates.
- 34          Removals of abutting sidewalk and/or curb shall be coordinated so that
- 35          driveway access is maintained at all times. The work related to
- 36          notifications, signing and coordination shall be considered incidental to
- 37          other bid items.
- 38
- 39          **Curb and Gutter Removal**
- 40          Due to cross-sectional variations between vertical curb and gutter and
- 41          rolled curb and gutter, as can be seen in Table 1 above, removal of each
- 42          shall be included in two separate bid items titled "Removing Concrete
- 43          Curb and Gutter" and "Removing Rolled Curb and Gutter", respectively.

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SPECIAL PROVISIONS - Continued

1           The variances in cross-section shall be accounted for in Contractors unit  
2           price for each bid item.

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6

7   **2-02.5 Payment**

8   Section 2-02.5 is supplemented with the following:

9

10           “Remove Existing Pipe”, per linear foot.  
11           The unit Contract price per linear foot for “Remove Existing Pipe” shall be full  
12           compensation for performing the Work as specified, including cutting and  
13           disposal of the pipe.

14

15           “Removing Vertical Curb and Gutter”, per linear foot.  
16           The unit Contract price per linear foot for “Removing Vertical Curb and  
17           Gutter” shall be full compensation for performing the Work as specified,  
18           including disposal.

19

20           “Removing Rolled Curb and Gutter”, per linear foot.  
21           The unit Contract price per linear foot for “Removing Rolled Curb and Gutter”  
22           shall be full compensation for performing the Work as specified, including  
23           saw cutting and disposal.

24

25           “Sawcutting”, per linear foot.  
26           The unit Contract price per lineal foot “Sawcutting” shall be full compensation  
27           to perform the Work as specified, including saw cutting, vacuuming, layout  
28           and disposal.

29

30           “Removal of Structures and Obstructions”, lump sum.  
31           The unit Contract price per lump sum “Removal of Structures and  
32           Obstructions” shall be full compensation to perform the work specified,  
33           including pavement removal, sidewalk removal and all other work items  
34           associated with removal, demolition, and/or site preparation work not  
35           otherwise listed within section 2-02.

36

37

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39

**END DIVISION 2**

40

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SPECIAL PROVISIONS - Continued

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**DIVISION 5  
SURFACE TREATMENTS AND PAVEMENTS**

**5-04 Hot Mix Asphalt**  
(July 18, 2018 APWA GSP)

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

**5-04.1 Description**

This Work shall consist of providing and placing one or more layers of plant-mixed hot mix asphalt (HMA) on a prepared foundation or base in accordance with these Specifications and the lines, grades, thicknesses, and typical cross-sections shown in the Plans. The manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with these Specifications. WMA processes include organic additives, chemical additives, and foaming.

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

**5-04.2 Materials**

Materials shall meet the requirements of the following sections:

Asphalt Binder	9-02.1(4)
Cationic Emulsified Asphalt	9-02.1(6)
Anti-Stripping Additive	9-02.4
HMA Additive	9-02.5
Aggregates	9-03.8
Recycled Asphalt Pavement	9-03.8(3)B
Mineral Filler	9-03.8(5)
Recycled Material	9-03.21
Portland Cement	9-01
Sand	9-03.1(2)
(As noted in 5-04.3(5)C for crack sealing)	
Joint Sealant	9-04.2
Foam Backer Rod	9-04.2(3)A

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

SPECIAL PROVISIONS - Continued

1 The Contractor may choose to utilize recycled asphalt pavement (RAP) in the  
2 production of HMA. The RAP may be from pavements removed under the Contract,  
3 if any, or pavement material from an existing stockpile.

4  
5 The Contractor may use up to 20 percent RAP by total weight of HMA with no  
6 additional sampling or testing of the RAP. The RAP shall be sampled and tested at a  
7 frequency of one sample for every 1,000 tons produced and not less than ten  
8 samples per project. The asphalt content and gradation test data shall be reported to  
9 the Contracting Agency when submitting the mix design for approval on the QPL.  
10 The Contractor shall include the RAP as part of the mix design as defined in these  
11 Specifications.

12  
13 The grade of asphalt binder shall be as required by the Contract. Blending of asphalt  
14 binder from different sources is not permitted.

15  
16 The Contractor may only use warm mix asphalt (WMA) processes in the production  
17 of HMA with 20 percent or less RAP by total weight of HMA. The Contractor shall  
18 submit to the Engineer for approval the process that is proposed and how it will be  
19 used in the manufacture of HMA.

20  
21 Production of aggregates shall comply with the requirements of Section 3-01.  
22 Preparation of stockpile site, the stockpiling of aggregates, and the removal of  
23 aggregates from stockpiles shall comply with the requirements of Section 3-02.

24  
25 **5-04.2(1) How to Get an HMA Mix Design on the QPL**  
26 If the contractor wishes to submit a mix design for inclusion in the Qualified Products  
27 List (QPL), please follow the WSDOT process outlined in Standard Specification 5-  
28 04.2(1).

29  
30 **5-04.2(1)A Vacant**

31  
32 **5-04.2(2) Mix Design – Obtaining Project Approval**  
33 No paving shall begin prior to the approval of the mix design by the Engineer.

34  
35 **Nonstatistical** evaluation will be used for all HMA not designated as Commercial  
36 HMA in the contract documents.

37  
38 **Commercial** evaluation will be used for Commercial HMA and for other classes of  
39 HMA in the following applications: sidewalks, road approaches, ditches, slopes,  
40 paths, trails, gores, prelevel, and pavement repair. Other nonstructural applications  
41 of HMA accepted by commercial evaluation shall be as approved by the Project  
42 Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at  
43 the option of the Project Engineer. The Proposal quantity of HMA that is accepted by

SPECIAL PROVISIONS - Continued

1 commercial evaluation will be excluded from the quantities used in the determination  
2 of nonstatistical evaluation.

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

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

16  
17 The mix design shall be performed by a lab accredited by a national authority such  
18 as Laboratory Accreditation Bureau, L-A-B for Construction Materials Testing, The  
19 Construction Materials Engineering Council (CMEC's) ISO 17025 or AASHTO  
20 Accreditation Program (AAP) and shall supply evidence of participation in the  
21 AASHTO: resource proficiency sample program.

22  
23 Mix designs for HMA accepted by Nonstatistical evaluation shall;

- 24  
25
  - 26 • Have the aggregate structure and asphalt binder content determined in
  - 27 accordance with WSDOT Standard Operating Procedure 732 and meet the
  - 28 requirements of Sections 9-03.8(2), except that Hamburg testing for ruts and
  - 29 stripping are at the discretion of the Engineer, and 9-03.8(6).
  - 30 • Have anti-strip requirements, if any, for the proposed mix design determined
  - 31 in accordance with AASHTO T 283 or T 324, or based on historic anti-strip
  - 32 and aggregate source compatibility from previous WSDOT lab testing.

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

37  
38 Commercial Evaluation Approval of a mix design for "Commercial Evaluation" will be  
39 based on a review of the Contractor's submittal of WSDOT Form 350-042 (For  
40 commercial mixes, AASHTO T 324 evaluation is not required) or a Mix Design from  
41 the current WSDOT QPL or from one of the processes allowed by this section.  
42 Testing of the HMA by the Contracting Agency for mix design approval is not  
43 required.

44

SPECIAL PROVISIONS - Continued

1 For the Bid Item Commercial HMA, the Contractor shall select a class of HMA and  
 2 design level of Equivalent Single Axle Loads (ESAL's) appropriate for the required  
 3 use.  
 4

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

6 The Contractor may elect to use additives that reduce the optimum mixing  
 7 temperature or serve as a compaction aid for producing HMA. Additives include  
 8 organic additives, chemical additives and foaming processes. The use of Additives is  
 9 subject to the following:

- 11 • Do not use additives that reduce the mixing temperature more than allowed in  
 12 Section 5-04.3(6) in the production of mixtures.
- 13 • Before using additives, obtain the Engineer's approval using WSDOT Form  
 14 350-076 to describe the proposed additive and process.

16 **5-04.3 Construction Requirements**

18 **5-04.3(1) Weather Limitations**

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

22  
 23 Do not place HMA on any wet surface, or when the average surface temperatures  
 24 are less than those specified below, or when weather conditions otherwise prevent  
 25 the proper handling or finishing of the HMA.

27 **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

28  
 29 **5-04.3(2) Paving Under Traffic**

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

32  
 33 The Contractor shall keep intersections open to traffic at all times except when  
 34 paving the intersection or paving across the intersection. During such time, and

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1 provided that there has been an advance warning to the public, the intersection may  
2 be closed for the minimum time required to place and compact the mixture. In hot  
3 weather, the Engineer may require the application of water to the pavement to  
4 accelerate the finish rolling of the pavement and to shorten the time required before  
5 reopening to traffic.

6

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

9

10 During paving operations, temporary pavement markings shall be maintained  
11 throughout the project. Temporary pavement markings shall be installed on the  
12 Roadway prior to opening to traffic. Temporary pavement markings shall be in  
13 accordance with Section 8-23.

14

15 All costs in connection with performing the Work in accordance with these  
16 requirements, except the cost of temporary pavement markings, shall be included in  
17 the unit Contract prices for the various Bid items involved in the Contract.

18

19 **5-04.3(3) Equipment**

20

21 **5-04.3(3)A Mixing Plant**

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

23

24 1. **Equipment for Preparation of Asphalt Binder** – Tanks for the storage of  
25 asphalt binder shall be equipped to heat and hold the material at the required  
26 temperatures. The heating shall be accomplished by steam coils, electricity,  
27 or other approved means so that no flame shall be in contact with the storage  
28 tank. The circulating system for the asphalt binder shall be designed to  
29 ensure proper and continuous circulation during the operating period. A valve  
30 for the purpose of sampling the asphalt binder shall be placed in either the  
31 storage tank or in the supply line to the mixer.

32

33 2. **Thermometric Equipment** – An armored thermometer, capable of detecting  
34 temperature ranges expected in the HMA mix, shall be fixed in the asphalt  
35 binder feed line at a location near the charging valve at the mixer unit. The  
36 thermometer location shall be convenient and safe for access by Inspectors.  
37 The plant shall also be equipped with an approved dial-scale thermometer, a  
38 mercury actuated thermometer, an electric pyrometer, or another approved  
39 thermometric instrument placed at the discharge chute of the drier to  
40 automatically register or indicate the temperature of the heated aggregates.  
This device shall be in full view of the plant operator.

41

42 3. **Heating of Asphalt Binder** – The temperature of the asphalt binder shall not  
43 exceed the maximum recommended by the asphalt binder manufacturer nor  
44 shall it be below the minimum temperature required to maintain the asphalt  
binder in a homogeneous state. The asphalt binder shall be heated in a

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SPECIAL PROVISIONS - Continued

- 1 manner that will avoid local variations in heating. The heating method shall  
2 provide a continuous supply of asphalt binder to the mixer at a uniform  
3 average temperature with no individual variations exceeding 25°F. Also,  
4 when a WMA additive is included in the asphalt binder, the temperature of the  
5 asphalt binder shall not exceed the maximum recommended by the  
6 manufacturer of the WMA additive.
- 7 **4. Sampling and Testing of Mineral Materials** – The HMA plant shall be  
8 equipped with a mechanical sampler for the sampling of the mineral  
9 materials. The mechanical sampler shall meet the requirements of Section 1-  
10 05.6 for the crushing and screening operation. The Contractor shall provide  
11 for the setup and operation of the field testing facilities of the Contracting  
12 Agency as provided for in Section 3-01.2(2).
- 13 **5. Sampling HMA** – The HMA plant shall provide for sampling HMA by one of  
14 the following methods:
- 15 a. A mechanical sampling device attached to the HMA plant.
  - 16 b. Platforms or devices to enable sampling from the hauling vehicle  
17 without entering the hauling vehicle.

18  
19 **5-04.3(3)B Hauling Equipment**

20 Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall  
21 have a cover of canvas or other suitable material of sufficient size to protect the  
22 mixture from adverse weather. Whenever the weather conditions during the work  
23 shift include, or are forecast to include, precipitation or an air temperature less than  
24 45°F or when time from loading to unloading exceeds 30 minutes, the cover shall be  
25 securely attached to protect the HMA.

26  
27 The contractor shall provide an environmentally benign means to prevent the HMA  
28 mixture from adhering to the hauling equipment. Excess release agent shall be  
29 drained prior to filling hauling equipment with HMA. Petroleum derivatives or other  
30 coating material that contaminate or alter the characteristics of the HMA shall not be  
31 used. For live bed trucks, the conveyer shall be in operation during the process of  
32 applying the release agent.

33  
34 **5-04.3(3)C Pavers**

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

39  
40 The HMA paver shall be in good condition and shall have the most current  
41 equipment available from the manufacturer for the prevention of segregation of the  
42 HMA mixture installed, in good condition, and in working order. The equipment  
43 certification shall list the make, model, and year of the paver and any equipment that  
44 has been retrofitted.

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SPECIAL PROVISIONS - Continued

- 1
- 2       The screed shall be operated in accordance with the manufacturer's
- 3       recommendations and shall effectively produce a finished surface of the required
- 4       evenness and texture without tearing, shoving, segregating, or gouging the mixture.
- 5       A copy of the manufacturer's recommendations shall be provided upon request by
- 6       the Contracting Agency. Extensions will be allowed provided they produce the same
- 7       results, including ride, density, and surface texture as obtained by the primary
- 8       screed. Extensions without augers and an internally heated vibratory screed shall not
- 9       be used in the Traveled Way.
- 10
- 11       When specified in the Contract, reference lines for vertical control will be required.
- 12       Lines shall be placed on both outer edges of the Traveled Way of each Roadway.
- 13       Horizontal control utilizing the reference line will be permitted. The grade and slope
- 14       for intermediate lanes shall be controlled automatically from reference lines or by
- 15       means of a mat referencing device and a slope control device. When the finish of the
- 16       grade prepared for paving is superior to the established tolerances and when, in the
- 17       opinion of the Engineer, further improvement to the line, grade, cross-section, and
- 18       smoothness can best be achieved without the use of the reference line, a mat
- 19       referencing device may be substituted for the reference line. Substitution of the
- 20       device will be subject to the continued approval of the Engineer. A joint matcher may
- 21       be used subject to the approval of the Engineer. The reference line may be removed
- 22       after the completion of the first course of HMA when approved by the Engineer.
- 23       Whenever the Engineer determines that any of these methods are failing to provide
- 24       the necessary vertical control, the reference lines will be reinstalled by the
- 25       Contractor.
- 26
- 27       The Contractor shall furnish and install all pins, brackets, tensioning devices, wire,
- 28       and accessories necessary for satisfactory operation of the automatic control
- 29       equipment.
- 30
- 31       If the paving machine in use is not providing the required finish, the Engineer may
- 32       suspend Work as allowed by Section 1-08.6. Any cleaning or solvent type liquids
- 33       spilled on the pavement shall be thoroughly removed before paving proceeds.
- 34
- 35       **5-04.3(3)D   Material Transfer Device or Material Transfer Vehicle**
- 36       A Material Transfer Device/Vehicle (MTD/V) shall only be used with the Engineer's
- 37       approval, unless other-wise required by the contract.
- 38
- 39       Where an MTD/V is required by the contract, the Engineer may approve paving
- 40       without an MTD/V, at the request of the Contractor. The Engineer will determine if an
- 41       equitable adjustment in cost or time is due.
- 42
- 43       When used, the MTD/V shall mix the HMA after delivery by the hauling equipment
- 44       and prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to

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1 obtain a uniform temperature throughout the mixture. If a windrow elevator is used,  
2 the length of the windrow may be limited in urban areas or through intersections, at  
3 the discretion of the Engineer.

4

5 To be approved for use, an MTV:

6

- 7 1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.
- 8 2. Shall not be connected to the hauling vehicle or paver.
- 9 3. May accept HMA directly from the haul vehicle or pick up HMA from a  
10 windrow.
- 11 4. Shall mix the HMA after delivery by the hauling equipment and prior to  
12 placement into the paving machine.
- 13 5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout  
14 the mixture.

15

16 To be approved for use, an MTD:

17

- 18 1. Shall be positively connected to the paver.
- 19 2. May accept HMA directly from the haul vehicle or pick up HMA from a  
20 windrow.
- 21 3. Shall mix the HMA after delivery by the hauling equipment and prior to  
22 placement into the paving machine.
- 23 4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout  
24 the mixture.

25

26 **5-04.3(3)E Rollers**

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

37

38 **5-04.3(4) Preparation of Existing Paved Surfaces**

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

42

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

4  
5 Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may  
6 require the use of small steel wheel rollers, plate compactors, or pneumatic rollers to  
7 avoid bridging across preleveled areas by the compaction equipment. Equipment  
8 used for the compaction of preleveling HMA shall be approved by the Engineer.

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

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

29  
30 Equipment shall not operate on tacked surfaces until the tack has broken and cured.  
31 If the Contractor's operation damages the tack coat it shall be repaired prior to  
32 placement of the HMA.

33  
34 The tack coat shall be CSS-1, or CSS-1h emulsified asphalt. The CSS-1 and CSS-  
35 1h emulsified asphalt may be diluted once with water at a rate not to exceed one part  
36 water to one part emulsified asphalt. The tack coat shall have sufficient temperature  
37 such that it may be applied uniformly at the specified rate of application and shall not  
38 exceed the maximum temperature recommended by the emulsified  
39 asphalt manufacturer.

40  
41 **5-04.3(4)A Crack Sealing**

42  
43 **5-04.3(4)A1 General**

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1       When the Proposal includes a pay item for crack sealing, seal all cracks ¼ inch in  
2       width and greater.

3  
4       **Cleaning:** Ensure that cracks are thoroughly clean, dry and free of all loose and  
5       foreign material when filling with crack sealant material. Use a hot compressed air  
6       lance to dry and warm the pavement surfaces within the crack immediately prior to  
7       filling a crack with the sealant material. Do not overheat pavement. Do not use direct  
8       flame dryers. Routing cracks is not required.

9  
10       **Sand Slurry:** For cracks that are to be filled with sand slurry, thoroughly mix the  
11       components and pour the mixture into the cracks until full. Add additional CSS-1  
12       cationic emulsified asphalt to the sand slurry as needed for workability to ensure the  
13       mixture will completely fill the cracks. Strike off the sand slurry flush with the existing  
14       pavement surface and allow the mixture to cure. Top off cracks that were not  
15       completely filled with additional sand slurry. Do not place the HMA overlay until the  
16       slurry has fully cured.

17  
18       The sand slurry shall consist of approximately 20 percent CSS-1 emulsified asphalt,  
19       approximately 2 percent portland cement, water (if required), and the remainder  
20       clean Class 1 or 2 fine aggregate per section 9-03.1(2). The components shall be  
21       thoroughly mixed and then poured into the cracks and joints until full. The following  
22       day, any cracks or joints that are not completely filled shall be topped off with  
23       additional sand slurry. After the sand slurry is placed, the filler shall be struck off  
24       flush with the existing pavement surface and allowed to cure. The HMA overlay shall  
25       not be placed until the slurry has fully cured. The requirements of Section 1-06 will  
26       not apply to the portland cement and sand used in the sand slurry.

27  
28       In areas where HMA will be placed, use sand slurry to fill the cracks.

29  
30       In areas where HMA will not be placed, fill the cracks as follows:

- 31  
32           1. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.  
33           2. Cracks greater than 1 inch in width – fill with sand slurry.

34  
35       **Hot Poured Sealant:** For cracks that are to be filled with hot poured sealant, apply  
36       the material in accordance with these requirements and the manufacturer's  
37       recommendations. Furnish a Type 1 Working Drawing of the manufacturer's product  
38       information and recommendations to the Engineer prior to the start of work, including  
39       the manufacturer's recommended heating time and temperatures, allowable storage  
40       time and temperatures after initial heating, allowable reheating criteria, and  
41       application temperature range. Confine hot poured sealant material within the crack.  
42       Clean any overflow of sealant from the pavement surface. If, in the opinion of the  
43       Engineer, the Contractor's method of sealing the cracks with hot poured sealant

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1 results in an excessive amount of material on the pavement surface, stop and correct  
2 the operation to eliminate the excess material.

3  
4 **5-04.3(4)A2 Crack Sealing Areas Prior to Paving**

5 In areas where HMA will be placed, use sand slurry to fill the cracks.  
6

7 **5-04.3(4)A3 Crack Sealing Areas Not to be Paved**

8 In areas where HMA will not be placed, fill the cracks as follows:  
9

- 10 A. Cracks ¼ inch to 1 inch in width - fill with hot poured sealant.  
11 B. Cracks greater than 1 inch in width – fill with sand slurry.  
12

13 **5-04.3(4)B Vacant**  
14

15 **5-04.3(4)C Pavement Repair**

16 The Contractor shall excavate pavement repair areas and shall backfill these with  
17 HMA in accordance with the details shown in the Plans and as marked in the field.  
18 The Contractor shall conduct the excavation operations in a manner that will protect  
19 the pavement that is to remain. Pavement not designated to be removed that is  
20 damaged as a result of the Contractor's operations shall be repaired by the  
21 Contractor to the satisfaction of the Engineer at no cost to the Contracting Agency.  
22 The Contractor shall excavate only within one lane at a time unless approved  
23 otherwise by the Engineer. The Contractor shall not excavate more area than can be  
24 completely finished during the same shift, unless approved by the Engineer.  
25

26 Unless otherwise shown in the Plans or determined by the Engineer, excavate to a  
27 depth of 1.0 feet. The Engineer will make the final determination of the excavation  
28 depth required. The minimum width of any pavement repair area shall be 40 inches  
29 unless shown otherwise in the Plans. Before any excavation, the existing pavement  
30 shall be sawcut or shall be removed by a pavement grinder. Excavated materials will  
31 become the property of the Contractor and shall be disposed of in a Contractor-  
32 provided site off the Right of Way or used in accordance with Sections 2-02.3(3) or  
33 9-03.21.  
34

35 Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy  
36 application of tack coat shall be applied to all surfaces of existing pavement in the  
37 pavement repair area.  
38

39 Placement of the HMA backfill shall be accomplished in lifts not to exceed 0.35-foot  
40 compacted depth. Lifts that exceed 0.35-foot of compacted depth may be  
41 accomplished with the approval of the Engineer. Each lift shall be thoroughly  
42 compacted by a mechanical tamper or a roller.  
43

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1       **5-04.3(5) Producing/Stockpiling Aggregates and RAP**

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

8  
9       **5-04.3(5)A Vacant**

10

11       **5-04.3(6) Mixing**

12       After the required amount of mineral materials, asphalt binder, recycling agent and  
13       anti-stripping additives have been introduced into the mixer the HMA shall be mixed  
14       until complete and uniform coating of the particles and thorough distribution of the  
15       asphalt binder throughout the mineral materials is ensured.

16

17       When discharged, the temperature of the HMA shall not exceed the optimum mixing  
18       temperature by more than 25°F as shown on the reference mix design report or as  
19       approved by the Engineer. Also, when a WMA additive is included in the  
20       manufacture of HMA, the discharge temperature of the HMA shall not exceed the  
21       maximum recommended by the manufacturer of the WMA additive. A maximum  
22       water content of 2 percent in the mix, at discharge, will be allowed providing the  
23       water causes no problems with handling, stripping, or flushing. If the water in the  
24       HMA causes any of these problems, the moisture content shall be reduced as  
25       directed by the Engineer.

26

27       Storing or holding of the HMA in approved storage facilities will be permitted with  
28       approval of the Engineer, but in no event shall the HMA be held for more than 24  
29       hours. HMA held for more than 24 hours after mixing shall be rejected. Rejected  
30       HMA shall be disposed of by the Contractor at no expense to the Contracting  
31       Agency. The storage facility shall have an accessible device located at the top of the  
32       cone or about the third point. The device shall indicate the amount of material in  
33       storage. No HMA shall be accepted from the storage facility when the HMA in  
34       storage is below the top of the cone of the storage facility, except as the storage  
35       facility is being emptied at the end of the working shift.

36

37       Recycled asphalt pavement (RAP) utilized in the production of HMA shall be sized  
38       prior to entering the mixer so that a uniform and thoroughly mixed HMA is produced.  
39       If there is evidence of the recycled asphalt pavement not breaking down during the  
40       heating and mixing of the HMA, the Contractor shall immediately suspend the use of  
41       the RAP until changes have been approved by the Engineer. After the required  
42       amount of mineral materials, RAP, new asphalt binder and asphalt rejuvenator have  
43       been introduced into the mixer the HMA shall be mixed until complete and uniform

SPECIAL PROVISIONS - Continued

1 coating of the particles and thorough distribution of the asphalt binder throughout the  
2 mineral materials, and RAP is ensured.

3  
4 **5-04.3(7) Spreading and Finishing**

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

9

10 HMA Class 1"	0.35 feet
11 HMA Class ¾" and HMA Class ½"	
12 wearing course	0.30 feet
13 other courses	0.35 feet
14 HMA Class ⅜"	0.15 feet

15

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

19  
20 When more than one JMF is being utilized to produce HMA, the material produced  
21 for each JMF shall be placed by separate spreading and compacting equipment. The  
22 intermingling of HMA produced from more than one JMF is prohibited. Each strip of  
23 HMA placed during a work shift shall conform to a single JMF established for the  
24 class of HMA specified unless there is a need to make an adjustment in the JMF.

25  
26 **5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA**

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

31  
32 **5-04.3(9) HMA Mixture Acceptance**

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

35  
36 Nonstatistical evaluation will be used for the acceptance of HMA unless Commercial  
37 Evaluation is specified.

38  
39 Commercial evaluation will be used for Commercial HMA and for other classes of  
40 HMA in the following applications: sidewalks, road approaches, ditches, slopes,  
41 paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other  
42 nonstructural applications of HMA accepted by commercial evaluation shall be as

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1 approved by the Engineer. Sampling and testing of HMA accepted by commercial  
 2 evaluation will be at the option of the Engineer.

3  
 4 The mix design will be the initial JMF for the class of HMA. The Contractor may  
 5 request a change in the JMF. Any adjustments to the JMF will require the approval of  
 6 the Engineer and may be made in accordance with this section.

7  
 8 **HMA Tolerances and Adjustments**

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

12 For Asphalt Binder and Air Voids (Va), the acceptance limits are  
 13 determined by adding the tolerances below to the approved JMF values.  
 14 These values will also be the Upper Specification Limit (USL) and Lower  
 15 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

16 For Aggregates in the mixture:

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

Aggregate Percent Passing	Non-Statistical Evaluation	Commercial Evaluation
1", ¾", ½", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/-6%	+/- 8%
No. 8 Sieve	+/- 6%	+/-8%
No. 200 sieve	+/- 2.0%	+/- 3.0%

- 19 b. Second, adjust the preliminary upper and lower acceptance limits  
 20 determined from step (a) the minimum amount necessary so that none of  
 21 the aggregate properties are outside the control points in Section 9-  
 22 03.8(6). The resulting values will be the upper and lower acceptance limits  
 23 for aggregates, as well as the USL and LSL required in Section 1-  
 24 06.2(2)D2.

- 25 2. **Job Mix Formula Adjustments** – An adjustment to the aggregate gradation or  
 26 asphalt binder content of the JMF requires approval of the Engineer.

27 Adjustments to the JMF will only be considered if the change produces  
 28 material of equal or better quality and may require the development of a new  
 29 mix design if the adjustment exceeds the amounts listed below.

- 30 a. **Aggregates** –2 percent for the aggregate passing the 1½", 1", ¾", ½", ⅜",  
 31 and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and  
 32 0.5 percent for the aggregate passing the No. 200 sieve. The adjusted  
 33 JMF shall be within the range of the control points in Section 9-03.8(6).  
 34 b. **Asphalt Binder Content** – The Engineer may order or approve changes to  
 35 asphalt binder content. The maximum adjustment from the approved mix  
 36 design for the asphalt binder content shall be 0.3 percent

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

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

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

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

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

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A subplot shall be equal to one day's production or 800 tons, whichever is less except that the final subplot will be a minimum of 400 tons and may be increased to 1200 tons.

All of the test results obtained from the acceptance samples from a given lot shall be evaluated collectively. If the Contractor requests a change to the JMF that is approved, the material produced after the change will be evaluated on the basis of the new JMF for the remaining sublots in the current lot and for acceptance of subsequent lots. 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.

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

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

Samples for acceptance testing shall be obtained by the Contractor when ordered by the 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 for each class of HMA placed on a project. If used in a structural application, at least one of the three samples shall to be tested.

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

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

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

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

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

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

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

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

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

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

22  
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31

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

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

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

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

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

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

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

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

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

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.

SPECIAL PROVISIONS - Continued

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

3

4 **5-04.3(10) HMA Compaction Acceptance**

5 HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes,  
6 including lanes for intersections, ramps, truck climbing, weaving, and speed change,  
7 and having a specified compacted course thickness greater than 0.10-foot, shall be  
8 compacted to a specified level of relative density. The specified level of relative  
9 density shall be a Composite Pay Factor (CPF) of not less than 0.75 when evaluated  
10 in accordance with Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of  
11 the maximum density). The maximum density shall be determined by WSDOT FOP  
12 for AASHTO T 729. The specified level of density attained will be determined by the  
13 evaluation of the density of the pavement. The density of the pavement shall be  
14 determined in accordance with WSDOT FOP for WAQTC TM 8, except that gauge  
15 correlation will be at the discretion of the Engineer, when using the nuclear density  
16 gauge and WSDOT SOP 736 when using cores to determine density.

17

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

21

22 If the Contracting Agency uses a nuclear density gauge to determine density the test  
23 procedures FOP for WAQTC TM 8 and WSDOT SOP T 729 will be used on the day  
24 the mix is placed and prior to opening to traffic.

25

26 Roadway cores for density may be obtained by either the Contracting Agency or the  
27 Contractor in accordance with WSDOT SOP 734. The core diameter shall be 4-  
28 inches minimum, unless otherwise approved by the Engineer. Roadway cores will be  
29 tested by the Contracting Agency in accordance with WSDOT FOP for AASHTO T  
30 166.

31

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

36

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

40

41 HMA mixture accepted by commercial evaluation and HMA constructed under  
42 conditions other than those listed above shall be compacted on the basis of a test  
43 point evaluation of the compaction train. The test point evaluation shall be performed  
44 in accordance with instructions from the Engineer. The number of passes with an

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SPECIAL PROVISIONS - Continued

1 approved compaction train, required to attain the maximum test point density, shall  
2 be used on all subsequent paving.

3  
4 HMA for preleveling shall be thoroughly compacted. HMA that is used for preleveling  
5 wheel rutting shall be compacted with a pneumatic tire roller unless otherwise  
6 approved by the Engineer.

7  
8 **Test Results**

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

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

27  
28 **5-04.3(10)A HMA Compaction – General Compaction Requirements**

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

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

43  
44 **5-04.3(10)B HMA Compaction – Cyclic Density**

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

7

8 **5-04.3(10)C Vacant**

9

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

11

12 **5-04.3(10)D1 HMA Nonstatistical Compaction – Lots and Sublots**

13 HMA compaction which is accepted by nonstatistical evaluation will be based on  
14 acceptance testing performed by the Contracting Agency dividing the project into  
15 compaction lots.

16

17 A lot is represented by randomly selected samples of the same mix design that will  
18 be tested for acceptance. A lot is defined as the total quantity of material or work  
19 produced for each Job Mix Formula placed. Only one lot per JMF is expected. A  
20 subplot shall be equal to one day's production or 400 tons, whichever is less except  
21 that the final subplot will be a minimum of 200 tons and may be increased to 800 tons.  
22 Testing for compaction will be at the rate of 5 tests per subplot per WSDOT T 738.

23

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

28

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

35

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

39

40 **5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing**

41 The location of the HMA compaction acceptance tests will be randomly selected by  
42 the Engineer from within each subplot, with one test per subplot.

43

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1           **5-04.3(10)D3 HMA Nonstatistical Compaction – Price Adjustments**

2           For each compaction lot with one or two sublots, having all sublots attain a relative  
3           density that is 92 percent of the reference maximum density the HMA shall be  
4           accepted at the unit Contract price with no further evaluation. When a subplot does  
5           not attain a relative density that is 92 percent of the reference maximum density, the  
6           lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate  
7           CPF. The maximum CPF shall be 1.00, however, lots with a calculated CPF in  
8           excess of 1.00 will be used to offset lots with CPF values below 1.00 but greater than  
9           0.90. Lots with CPF lower than 0.90 will be evaluated for compliance per 5-04.3(11).  
10          Additional testing by either a nuclear moisture-density gauge or cores will be  
11          completed as required to provide a minimum of three tests for evaluation.

12

13          For compaction below the required 92% a Non-Conforming Compaction Factor  
14          (NCCF) will be determined. The NCCF equals the algebraic difference of CPF minus  
15          1.00 multiplied by 40 percent. The Compaction Price Adjustment will be calculated  
16          as the product of CPF, the quantity of HMA in the compaction control lot in tons, and  
17          the unit Contract price per ton of mix.

18

19           **5-04.3(11) Reject Work**

20

21           **5-04.3(11)A Reject Work General**

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

28

29           **5-04.3(11)B Rejection by Contractor**

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

33

34           **5-04.3(11)C Rejection Without Testing (Mixture or Compaction)**

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

38

39          No payment will be made for the rejected materials or the removal of the materials  
40          unless the Contractor requests that the rejected material be tested. If the Contractor  
41          elects to have the rejected material tested, a minimum of three representative  
42          samples will be obtained and tested. Acceptance of rejected material will be based  
43          on conformance with the nonstatistical acceptance Specification. If the CPF for the



SPECIAL PROVISIONS - Continued

1 rejected material is less than 0.75, no payment will be made for the rejected material;  
2 in addition, the cost of sampling and testing shall be borne by the Contractor. If the  
3 CPF is greater than or equal to 0.75, the cost of sampling and testing will be borne  
4 by the Contracting Agency. If the material is rejected before placement and the CPF  
5 is greater than or equal to 0.75, compensation for the rejected material will be at a  
6 CPF of 0.75. If rejection occurs after placement and the CPF is greater than or equal  
7 to 0.75, compensation for the rejected material will be at the calculated CPF with an  
8 addition of 25 percent of the unit Contract price added for the cost of removal and  
9 disposal.

10

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

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

18

19 **5-04.3(11)E Rejection - An Entire Sublot**

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

24

25 **5-04.3(11)F Rejection - A Lot in Progress**

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

29

- 30 1. When the Composite Pay Factor (CPF) of a lot in progress drops below 1.00  
31 and the Contractor is taking no corrective action, or  
32 2. When the Pay Factor (PF) for any constituent of a lot in progress drops below  
33 0.95 and the Contractor is taking no corrective action, or  
34 3. When either the PFi for any constituent or the CPF of a lot in progress is less  
35 than 0.75.

36

37 **5-04.3(11)G Rejection - An Entire Lot (Mixture or Compaction)**

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

39

40 **5-04.3(12) Joints**

41

42 **5-04.3(12)A HMA Joints**

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

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

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

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

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

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

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

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

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

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

SPECIAL PROVISIONS - Continued

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

5  
6 **5-04.3(12)B2 Paved Panel Joint Seal**

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

- 9  
10 1. Clean and seal the existing joint between concrete panels in accordance with  
11 Section 5-01.3(8) and the details shown in the Standard Plans.

12  
13 **5-04.3(13) Surface Smoothness**

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

20  
21 When deviations in excess of the above tolerances are found that result from a high  
22 place in the HMA, the pavement surface shall be corrected by one of the  
23 following methods:

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

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

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

39  
40 When utility appurtenances such as manhole covers and valve boxes are located in  
41 the traveled way, the utility appurtenances shall be adjusted to the finished grade  
42 prior to paving. This requirement may be waived when requested by the Contractor,  
43 at the discretion of the Engineer or when the adjustment details provided in the

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1 project plan or specifications call for utility appurtenance adjustments after the  
2 completion of paving.

3  
4 Utility appurtenance adjustment discussions will be included in the Pre-Paving  
5 planning (5-04.3(14)B3). Submit a written request to waive this requirement to the  
6 Engineer prior to the start of paving.

7  
8 **5-04.3(14) Planing (Milling) Bituminous Pavement**

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

12  
13 Locations of existing surfacing to be planed are as shown in the Drawings.

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

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

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

28  
29 Repair or replace any metal castings and other surface improvements damaged by  
30 planing, as determined by the Engineer.

31  
32 A tapered wedge cut must be planed longitudinally along curb lines sufficient to  
33 provide a minimum of 4 inches of curb reveal after placement and compaction of the  
34 final wearing course. The dimensions of the wedge must be as shown on the  
35 Drawings or as specified by the Engineer.

36  
37 A tapered wedge cut must also be made at transitions to adjoining pavement  
38 surfaces (meet lines) where butt joints are shown on the Drawings. Cut butt joints in  
39 a straight line with vertical faces 2 inches or more in height, producing a smooth  
40 transition to the existing adjoining pavement.

41

SPECIAL PROVISIONS - Continued

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

3  
4 The Engineer may direct additional depth planing. Before performing this additional  
5 depth planing, the Contractor must conduct a hidden metal in pavement detection  
6 survey as specified in Section 5-04.3(14)A.

7  
8 **5-04.3(14)A Pre-Planing Metal Detection Check**

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

12  
13 Should such metal be identified, promptly notify the Engineer.

14  
15 See Section 1-07.16(1) regarding the protection of survey monumentation that may  
16 be hidden in pavement.

17  
18 The Contractor is solely responsible for any damage to equipment resulting from the  
19 Contractor's failure to conduct a pre-planing metal detection survey, or from the  
20 Contractor's failure to notify the Engineer of any hidden metal that is detected.

21  
22 **5-04.3(14)B Paving and Planing Under Traffic**

23  
24 **5-04.3(14)B1 General**

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

28  
29 1. Intersections:

30 a. Keep intersections open to traffic at all times, except when paving or  
31 planing operations through an intersection requires closure. Such closure  
32 must be kept to the minimum time required to place and compact the HMA  
33 mixture, or plane as appropriate. For paving, schedule such closure to  
34 individual lanes or portions thereof that allows the traffic volumes and  
35 schedule of traffic volumes required in the approved traffic control plan.  
36 Schedule work so that adjacent intersections are not impacted at the same  
37 time and comply with the traffic control restrictions required by the Traffic  
38 Engineer. Each individual intersection closure or partial closure, must be  
39 addressed in the traffic control plan, which must be submitted to and  
40 accepted by the Engineer, see Section 1-10.2(2).

41 b. When planing or paving and related construction must occur in an  
42 intersection, consider scheduling and sequencing such work into quarters of

SPECIAL PROVISIONS - Continued

- 1 the intersection, or half or more of an intersection with side street detours.
- 2 Be prepared to sequence the work to individual lanes or portions thereof.
- 3 c. Should closure of the intersection in its entirety be necessary, and no
- 4 trolley service is impacted, keep such closure to the minimum time required
- 5 to place and compact the HMA mixture, plane, remove asphalt, tack coat,
- 6 and as needed.
- 7 d. Any work in an intersection requires advance warning in both signage and
- 8 a number of Working Days advance notice as determined by the Engineer,
- 9 to alert traffic and emergency services of the intersection closure or partial
- 10 closure.
- 11 e. Allow new compacted HMA asphalt to cool to ambient temperature before
- 12 any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until
- 13 approval has been obtained from the Engineer.
- 14 2. Temporary centerline marking, post-paving temporary marking, temporary
- 15 stop bars, and maintaining temporary pavement marking must comply with
- 16 Section 8-23.
- 17 3. Permanent pavement marking must comply with Section 8-22.
- 18

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

19 The Contractor must submit a separate planing plan and a separate paving plan to  
20 the Engineer at least 5 Working Days in advance of each operation's activity start  
21 date. These plans must show how the moving operation and traffic control are  
22 coordinated, as they will be discussed at the pre-planing briefing and pre-paving  
23 briefing. When requested by the Engineer, the Contractor must provide each  
24 operation's traffic control plan on 24 x 36 inch or larger size Shop Drawings with a  
25 scale showing both the area of operation and sufficient detail of traffic beyond the  
26 area of operation where detour traffic may be required. The scale on the Shop  
27 Drawings is 1 inch = 20 feet, which may be changed if the Engineer agrees sufficient  
28 detail is shown.  
29

30  
31 The planing operation and the paving operation include, but are not limited to, metal  
32 detection, removal of asphalt and temporary asphalt of any kind, tack coat and  
33 drying, staging of supply trucks, paving trains, rolling, scheduling, and as may be  
34 discussed at the briefing.  
35

36 When intersections will be partially or totally blocked, provide adequately sized and  
37 noticeable signage alerting traffic of closures to come, a minimum 2 Working Days in  
38 advance. The traffic control plan must show where police officers will be stationed  
39 when signalization is or may be, countermanded, and show areas where flaggers are  
40 proposed.  
41

42 At a minimum, the planing and the paving plan must include:  
43

SPECIAL PROVISIONS - Continued

- 1            1. A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing  
2            each day's traffic control as it relates to the specific requirements of that day's  
3            planing and paving. Briefly describe the sequencing of traffic control  
4            consistent with the proposed planing and paving sequence, and scheduling of  
5            placement of temporary pavement markings and channelizing devices after  
6            each day's planing, and paving.
- 7            2. A copy of each intersection's traffic control plan.
- 8            3. Haul routes from Supplier facilities, and locations of temporary parking and  
9            staging areas, including return routes. Describe the complete round trip as it  
10           relates to the sequencing of paving operations.
- 11           4. Names and locations of HMA Supplier facilities to be used.
- 12           5. List of all equipment to be used for paving.
- 13           6. List of personnel and associated job classification assigned to each piece of  
14           paving equipment.
- 15           7. Description (geometric or narrative) of the scheduled sequence of planing  
16           and of paving, and intended area of planing and of paving for each day's  
17           work, must include the directions of proposed planing and of proposed  
18           paving, sequence of adjacent lane paving, sequence of skipped lane paving,  
19           intersection planing and paving scheduling and sequencing, and proposed  
20           notifications and coordinations to be timely made. The plan must show HMA  
21           joints relative to the final pavement marking lane lines.
- 22           8. Names, job titles, and contact information for field, office, and plant  
23           supervisory personnel.
- 24           9. A copy of the approved Mix Designs.
- 25           10. Tonnage of HMA to be placed each day.
- 26           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, or as scheduled by the Engineer for future paving and planing operations to ensure the Contractor has adequately prepared for notifying and coordinating as required in the Contract, the Contractor must be prepared to discuss that day's operations as they relate to other entities and to public safety and convenience, including driveway and business access, garbage truck operations, Metro transit operations and working around energized overhead wires, school and nursing home and hospital and other accesses, other contractors who may be operating in the area, pedestrian and bicycle traffic, and 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 convenience and safety. Such discussion includes, but is not limited to:

1.            General for both Paving Plan and for Planing Plan:

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

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

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

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

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

**5-04.4 Measurement**

HMA Cl. \_\_\_ PG \_\_\_, HMA for \_\_\_ Cl. \_\_\_ PG \_\_\_, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the mixture. If the Contractor elects to remove and replace mix as allowed by Section 5-04.3(11), the material removed will not be measured.

Roadway cores will be measured per each for the number of cores taken.

Preparation of untreated roadway will be measured by the mile once along the centerline of the main line Roadway. No additional measurement will be made for ramps, Auxiliary Lanes, service roads, Frontage Roads, or Shoulders. Measurement will be to the nearest 0.01 mile.

Soil residual herbicide will be measured by the mile for the stated width to the nearest 0.01 mile or by the square yard, whichever is designated in the Proposal.

Pavement repair excavation will be measured by the square yard of surface marked prior to excavation.

Asphalt for prime coat will be measured by the ton in accordance with Section 1-09.2.

Prime coat aggregate will be measured by the cubic yard, truck measure, or by the ton, whichever is designated in the Proposal.

Asphalt for fog seal will be measured by the ton, as provided in Section 5-02.4.

Longitudinal joint seals between the HMA and cement concrete pavement will be measured by the linear foot along the line and slope of the completed joint seal.

Planing bituminous pavement will be measured by the square yard.

Temporary pavement marking will be measured by the linear foot as provided in Section 8-23.4.

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Water will be measured by the M gallon as provided in Section 2-07.4.

**5-04.5 Payment**

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

“HMA Cl. \_\_\_ PG \_\_\_”, per ton.

“HMA for Approach Cl. \_\_\_ PG \_\_\_”, per ton.

“HMA for Preleveling Cl. \_\_\_ PG \_\_\_”, per ton.

“HMA for Pavement Repair Cl. \_\_\_ PG \_\_\_”, per ton.

“Commercial HMA”, per ton.

The unit Contract price per ton for “HMA Cl. \_\_\_ PG \_\_\_”, “HMA for Approach Cl. \_\_\_ PG \_\_\_”, “HMA for Preleveling Cl. \_\_\_ PG \_\_\_”, “HMA for Pavement Repair Cl. \_\_\_ PG \_\_\_”, and “Commercial HMA” shall be full compensation for all costs, including anti-stripping additive, incurred to carry out the requirements of Section 5-04 except for those costs included in other items which are included in this Subsection and which are included in the Proposal.

“Preparation of Untreated Roadway”, per mile.

The unit Contract price per mile for “Preparation of Untreated Roadway” shall be full pay for all Work described under 5-04.3(4) , with the exception, however, that all costs involved in patching the Roadway prior to placement of HMA shall be included in the unit Contract price per ton for “HMA Cl. \_\_\_ PG \_\_\_” which was used for patching. If the Proposal does not include a Bid item for “Preparation of Untreated Roadway”, the Roadway shall be prepared as specified, but the Work shall be included in the Contract prices of the other items of Work.

“Preparation of Existing Paved Surfaces”, per mile.

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 involved in patching the Roadway prior to placement of HMA shall be included in the unit Contract price per ton for “HMA Cl. \_\_\_ PG \_\_\_” which was used for patching. If the Proposal does not include a Bid item for “Preparation of Untreated

SPECIAL PROVISIONS - Continued

- 1           Roadway”, the Roadway shall be prepared as specified, but the Work shall be  
2 included in the Contract prices of the other items of Work.  
3  
4           “Crack Sealing”, by force account.  
5  
6           “Crack Sealing” will be paid for by force account as specified in Section 1-09.6. For  
7 the purpose of providing a common Proposal for all Bidders, the Contracting Agency  
8 has entered an amount in the Proposal to become a part of the total Bid by the  
9 Contractor.  
10  
11          “Pavement Repair Excavation Incl. Haul”, per square yard.  
12  
13          The unit Contract price per square yard for “Pavement Repair Excavation Incl. Haul”  
14 shall be full payment for all costs incurred to perform the Work described in Section  
15 5-04.3(4) with the exception, however, that all costs involved in the placement of  
16 HMA shall be included in the unit Contract price per ton for “HMA for Pavement  
17 Repair Cl. \_\_\_ PG \_\_\_”, per ton.  
18  
19          “Asphalt for Prime Coat”, per ton.  
20  
21          The unit Contract price per ton for “Asphalt for Prime Coat” shall be full payment for  
22 all costs incurred to obtain, provide and install the material in accordance with  
23 Section 5-04.3(4).  
24  
25          “Prime Coat Agg.”, per cubic yard, or per ton.  
26  
27          The unit Contract price per cubic yard or per ton for “Prime Coat Agg.” shall be full  
28 pay for furnishing, loading, and hauling aggregate to the place of deposit and  
29 spreading the aggregate in the quantities required by the Engineer.  
30  
31          “Asphalt for Fog Seal”, per ton.  
32  
33          Payment for “Asphalt for Fog Seal” is described in Section 5-02.5.  
34  
35          “Longitudinal Joint Seal”, per linear foot.  
36  
37          The unit Contract price per linear foot for “Longitudinal Joint Seal” shall be full  
38 payment for all costs incurred to perform the Work described in Section 5-04.3(12).  
39  
40          “Planing Bituminous Pavement”, per square yard.  
41

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1 The unit Contract price per square yard for “Planing Bituminous Pavement” shall be  
2 full payment for all costs incurred to perform the Work described in Section 5-  
3 04.3(14).

4  
5 “Temporary Pavement Marking”, per linear foot.

6  
7 Payment for “Temporary Pavement Marking” is described in Section 8-23.5.

8  
9 “Water”, per M gallon.

10  
11 Payment for “Water” is described in Section 2-07.5.

12  
13 “Job Mix Compliance Price Adjustment”, by calculation.

14  
15 “Job Mix Compliance Price Adjustment” will be calculated and paid for as described  
16 in Section 5-04.3(9)C6.

17  
18 “Compaction Price Adjustment”, by calculation.

19  
20 “Compaction Price Adjustment” will be calculated and paid for as described in  
21 Section 5-04..3(10)D3.

22  
23 “Roadway Core”, per each.

24  
25 The Contractor’s costs for all other Work associated with the coring (e.g., traffic  
26 control) shall be incidental and included within the unit Bid price per each and no  
27 additional payments will be made.

28  
29 “Cyclic Density Price Adjustment”, by calculation.

30  
31 “Cyclic Density Price Adjustment” will be calculated and paid for as described in  
32 Section 5-04.3(10)B.

33  
34 **(January 2, 2018 WSDOT GSP)**  
35 **Asphalt Cost Price Adjustment**

36 The Contracting Agency will make an Asphalt Cost Price Adjustment, either a  
37 credit or a payment, for qualifying changes in the reference cost of asphalt  
38 binder. The adjustment will be applied to partial payments made according  
39 to Section 1-09.9 for the following Bid items when they are included in the  
40 Proposal:

41

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- 1           “HMA Cl. \_\_\_ PG \_\_\_”
- 2           “HMA for Approach Cl. \_\_\_ PG \_\_\_”
- 3           “HMA for Preleveling Cl. \_\_\_ PG \_\_\_”
- 4           “HMA for Pavement Repair Cl. \_\_\_ PG \_\_\_”
- 5           “Commercial HMA”

6

7           The adjustment is not a guarantee of full compensation for changes in the

8           cost of asphalt binder. The Contracting Agency does not guarantee that

9           asphalt binder will be available at the reference cost.

10

11           The Contracting Agency will establish the asphalt binder reference cost twice

12           each month and post the information on the Agency website at:

13

14           <http://www.wsdot.wa.gov/Business/Construction/EscalationClauses.htm>

15           The reference cost will be determined using posted prices furnished by

16           Poten & Partners, Inc. If the selected price source ceases to be available for

17           any reason, then the Contracting Agency will select a substitute price source

18           to establish the reference cost.

19

20           The base cost established for this Contract is the reference cost posted on

21           the Agency website with an effective date immediately preceding the Bid

22           Opening Date.

23

24           Adjustments will be based on the most current reference cost for Western

25           Washington or Eastern Washington as posted on the Agency website,

26           depending on where the Work is performed. For Work completed after all

27           authorized working days are used, the adjustment will be based on the

28           posted reference cost during which Contract time was exhausted. The

29           adjustment will be calculated as follows:

30

31           No adjustment will be made if the reference cost is within 5% of the base

32           cost.

33

34           If the reference cost is greater than or equal to 105% of the base cost, then

35           Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).

36

37           If the reference cost is less than or equal to 95% of the base cost, then

38           Adjustment = (Current Reference Cost – (0.95 x Base Cost)) x (Q x 0.056).

39

40           Where Q = total tons of all classes of HMA paid in the current month’s

41           progress payment.

42

43           “Asphalt Cost Price Adjustment”, by calculation.

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SPECIAL PROVISIONS - Continued

1  
2 "Asphalt Cost Price Adjustment" will be calculated and paid for as described  
3 in this Section. For the purpose of providing a common Proposal for all  
4 Bidders, the Contracting Agency has entered an amount in the Proposal to  
5 become a part of the total Bid by the Contractor.  
6

7  
8 **5-06 TEMPORARY PAVEMENT**

9 Section 5-06 is added as follows:  
10

11 **5-06.1 Description**

12 The Contractor may use temporary pavement (cold mix asphalt) to allow  
13 vehicular traffic to travel over the construction areas, and to construct the  
14 temporary wedge to existing driveways. Cold mix asphalt shall also be placed  
15 around trench plates or other devices used to cover construction activities in a  
16 manner that provides a smooth transition between the surfaces, as approved by  
17 the Engineer.  
18

19 **5-06.2 Materials**

20 Materials shall meet the requirements of Section 9-03.8.  
21

22 The composition of other components of the temporary asphalt pavement shall  
23 be determined by the Contractor to provide a product suitable for the intended  
24 application. The Contractor shall not use materials that are a safety or health  
25 hazard.  
26

27 Temporary pavement material that does not form a consolidated surface after  
28 compaction shall be considered unsuitable and be removed from the site.  
29 Unsuitable temporary pavement shall be disposed of off-site.  
30

31 **5-06.3 Construction Requirements**

32 The Roadway subsurface shall be prepared for the temporary pavement as  
33 defined in Section 2-06. Placement of temporary pavement over compacted  
34 Gravel Borrow or suitable native material backfill shall be allowed, in accordance  
35 with Specifications herein. Pavement areas greater than ten square feet shall be  
36 roller compacted to consolidate the temporary pavement. The completed  
37 pavement shall be free from ridges, ruts, bumps, depressions, objectionable  
38 marks, or other irregularities.  
39

40 The Contractor shall immediately repair, patch, or remove any temporary  
41 pavement that does not provide a flat transition between existing pavement  
42 areas.  
43

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1 All temporary asphalt pavement to the depth of the final paving shall be removed  
2 from the site by the end of the project and shall not be used as permanent  
3 asphalt pavement or its Subgrade material.

4

5 **5-06.5 Payment**

6 All cold mix asphalt used shall be incidental to other Bid items in the Contract.

7

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**END DIVISION 5**

City of Mill Creek  
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1-107

SPECIAL PROVISIONS - Continued

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

4  
5 **7-04 STORM SEWERS**

6  
7 **7-04.1 Description**

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

9 Section 7-04.1 is supplemented with the following:

10

11 This Work consists of furnishing and installing 14-inch and 32-inch high  
12 density polyethylene pipe (HDPE) liner pipe by lining existing storm sewers,  
13 grouting the annular space for 18-inch and 36-inch diameter host pipes, direct  
14 burying HDPE liner pipe, and bedding and backfilling the liner pipe, all in  
15 accordance with these Specifications and as detailed in the Plans.

16

17 **7-04.2 Materials**

18 **(\*\*\*\*\*)**

19 Section 7-04.2 is supplemented with the following:

20

21 HDPE pipe for storm sewer liner shall be solid wall, utilizing snap-together  
22 joints, installed in 5-foot and 20-foot lengths. The joints shall be rubber  
23 gasketed.

24

25 HDPE pipe for storm sewer liner diameter references are **outside** diameters  
26 (O.D.).

27

28 HDPE storm sewer liner pipe shall meet the material requirements of Section  
29 9-05.23.

30

31 **7-04.3 Construction Requirements**

32 **(\*\*\*\*\*)**

33 Section 7-04.3 is supplemented with the following:

34

35 Prior to installing liner pipe and grouting, the Contractor shall review the  
36 television inspections specified in section 7-04.3(1)G. For bidding assistance,  
37 videos of the television inspections ordered by the Contracting Agency  
38 between 2012 and 2018 have been made available in Appendix F.

39

40 The Contractor shall provide a slip-lining supervisor with experience on at  
41 least ten successful pipe slip-liners. The Contractor shall prepare a Work Plan  
42 and submit to the Engineer for review and approval at least ten working days  
43 before beginning slip-liner Work. Include the following in the Work Plan:

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- Provide the name of the slip-lining supervisor to be present during installation, and documented experience.
  - Identify and provide all materials, Specifications, and submittals.
  - Provide and submit pipe manufacturer's recommendations for grout mix to be used.
  - Provide a detailed plan on how the liner pipe will be stabilized within the existing host pipe to prevent vertical and lateral movement during grouting.
  - Provide grouting procedures to fill the annular space with grout materials, including grout injection locations, number, diameter, and length of grouting tubes and venting.
  - Detail quality control procedures to insure Work is performed to meet the Contract requirement insuring that the annular space is completely filled.

The Contractor shall supply and deliver the 14-inch and 32-inch HDPE storm sewer liner pipe and all required appurtenances to the project site. The stockpiling shall be arranged to cause a minimum of interference to pedestrians and stored outside the safety clear zone of vehicular traffic.

A Manufacturer's Certification of Compliance for the 14-inch and 32-inch HDPE storm sewer liner pipe shall be delivered with the pipe, and submitted to the Engineer at the time of delivery.

When handling the HDPE pipe, the Contractor shall take all precautions necessary to avoid damaging the pipe. Pipe with cuts greater than 10% of the wall thickness shall be rejected and replaced by the Contractor at no additional expense to the Contracting Agency.

Existing pipes shall be cleaned of all deleterious material. All deleterious materials removed from the existing pipes shall be disposed of in accordance with Section 2-03.3(7)C.

Installation of HDPE liner pipe into existing storm sewer pipe shall be in accordance with manufacturer's recommendations. The Contractor shall make arrangements for the manufacturer's slip lining representative to be on-site during the storm sewer slip lining and annular space grouting activities.

Slip lining Work shall be performed in dry weather. This Work can be performed with minor flows in the host pipe, as approved by the Engineer.

SPECIAL PROVISIONS - Continued

1       Blocking shall be placed between the 14-inch new liner pipe and the existing  
2       18-inch storm sewer pipe, and the 32-inch new liner pipe and the existing 36-  
3       inch storm sewer pipe to maintain the grade of the existing host pipe that the  
4       new pipe will be placed in, alignment, and to control floating of the liner pipe.  
5       Blocking shall be attached in accordance with the manufacturer's  
6       recommendations.

7  
8       Grout ports and vents shall be installed as required. Grout tubes, adaptors,  
9       and caps shall be installed in accordance with the manufacturer's  
10      recommendation, and shall be Schedule 40, 2" diameter PVC pipe.  
11      Grouting of the annular space between the 14" O.D. HDPE liner pipe and the  
12      existing 18" I.D. storm sewer, and the 32" O.D. HDPE liner pipe and the  
13      existing 36" I.D. storm sewer shall be in accordance with Section 7-20 of the  
14      Special Provisions.

15  
16      The Contractor shall provide one (1) section of HDPE pipe with a "nose cone"  
17      formed on one (1) end of the pipe for the initial section of snap-together liner  
18      pipe to be inserted into the existing storm sewer. The "nose cone" shall be  
19      formed in accordance with manufacturer's recommendations and meet the  
20      Specifications for HDPE pipe.

21  
22      Where shown in the Plans or as directed by the Engineer, the Contractor shall  
23      construct lay pits in order to install new HDPE pipe liner. Where the existing  
24      storm sewer pipe is removed, replacement of the host storm sewer will not be  
25      required. The segment of direct-bury liner pipe shall be bedded and  
26      backfilled in accordance with City of Mill Creek Standard Detail STM-10, or  
27      bedded with the grout used for filling the annular spaces, as determined by  
28      the Engineer based on the existing soil and pipe trench conditions. The  
29      Contractor shall restore lay pit areas in accordance with details shown in the  
30      Plans. When directed by the Engineer, the Contractor shall protect lay pit  
31      excavations with steel plates, at the Contractor's expense.

32  
33      For all sizes of pipe, after installation of the HDPE liner pipe, the storm sewer  
34      ends shall be sealed between the liner pipe and the existing storm sewer with  
35      a high-strength, non-shrink grout, in accordance with the HDPE pipe  
36      manufacturer's recommendations.

37  
38      Testing of the installed HDPE liner pipe for leaks shall be in accordance with  
39      the HDPE liner pipe manufacturer's recommendations.

40  
41      Following the pipe lining Work, the Contractor shall perform video inspections  
42      and provide the information to the Contracting Agency. The Contractor shall  
43      also provide data on new pipe slopes and inverts.

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**7-04.3(1)G CCTV Inspection**

New Section 7-04.3(1)G is added as follows:

**Description**

Closed-Circuit Television (CCTV) Inspection Work shall include submittal and approval of CCTV inspection examples, performance of a Pre-Installation CCTV inspection, performance of a Final CCTV Inspection and submittal of all associated records. All submitted examples, reports, and records shall be reviewed and approved by the Engineer for acceptance. Submittals shall be reviewed and approved one (1) week prior to scheduling all following CCTV activities or repair work. All CCTV activities shall be coordinated with the City and the Engineer so that they may have the opportunity to be present as CCTV activities occur.

Prior to performing CCTV inspections, the contractor will perform Cleaning of Existing Drainage Structures in accordance with Specification Section 7-07. After cleaning is completed, the Contractor will then perform a Pre-Installation CCTV inspection to verify that the system is clean and, at the same time, will review and confirm individual repair locations. The Pre-Installation CCTV information shall be submitted to, and reviewed by, the Engineer prior to performing site repairs.

In addition to the preliminary cleaning and Pre-Installation CCTV inspection, a Final CCTV inspection will be required to obtain final approval of the work. Before final acceptance, the City shall require all pipe repairs and system modifications to be inspected using a City-approved private inspection service or a licensed, certified liner installer at the time of installation. For lining repairs, the installation video may be used as the final televised inspection if it meets the criteria included in this specification. For installation videos not meeting these specifications, the Final CCTV shall be performed by a City-approved private inspection service after installation is completed at no additional cost to the City.

The contractor shall have all required cleaning, flushing, debris removal, root removal, pipe repairs (pipe replacement, banding, couplers, slip-lining, SCIPL, etc.), grouting, backfilling, and bedding completed prior to performing the final televised inspection. The inspection shall cover both pipe segments being repaired any newly installed pipe segments. New segments shall include all structures and finish work within the structure, when applicable.

**Television Inspection Submittals**

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SPECIAL PROVISIONS - Continued

1 A. Example CCTV Inspection

2 Prior to performing CCTV inspections, the Contractor, or their subcontractor,  
3 shall provide examples of prior CCTV inspection work for approval prior to the  
4 commencement of work. This sample shall include an inspection survey log, an  
5 inspection video and an equipment list. The CCTV inspection videos will be  
6 reviewed by the Engineer to determine if the quality of the video image, and the  
7 content of the inspection report is acceptable; and if defects were properly  
8 identified and documented on the Inspection report. No work shall commence  
9 prior to approval of sample video and report materials by the Engineer. The  
10 Contractor, or subcontractor, shall be responsible for any modifications and/or  
11 changes to equipment, software, inspection procedures, or inspection  
12 subcontractors needed to provide report materials of acceptable quality. Once  
13 accepted, the report material shall serve as the standard and/or template for all  
14 remaining work and all future submittals shall conform to an equivalent quality.  
15

16 B. CCTV Inspection Report

17 The inspection report shall include the following information:

- 18 I. Inspection Date  
19 II. Weather Condition  
20 III. Amount of precipitation in the five (5) days prior to inspection  
21 IV. Upstream and Downstream Structure Numbers (per Plans or GIS data)  
22 V. Street Name(s)  
23 VI. Flow Direction (Normal or Reverse)  
24 VII. Pipe Material and Size  
25 VIII. Location of defects (stationing from center of starting structure)  
26 IX. Description of defects (size, degree/position, and type)  
27

28 C. Inspection Video

29 The video file formatting for all CCTV Inspections submitted over the course of  
30 the project shall be .mpg format. Other file formats will only be accepted if  
31 otherwise approved by the Engineer. The Inspection Video shall contain the  
32 following information:

- 33 • Video playback shall show continuous display of date, upstream and  
34 downstream structure numbers, and distance (from center of structure).  
35 • Audio shall include verbal confirmation of date, upstream and downstream  
36 structure numbers, distance, pipe size, pipe material, flow direction, and  
37 description of defects.  
38 • The content of the video shall be clean and clear, and of sufficient quality  
39 to facilitate review.  
40

41 D. Video Inspection Tracking Log

- 42 • The Contractor shall maintain an updated log of all CCTV Inspection  
43 and Lining activities. As part of each submittal of Inspection Videos

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SPECIAL PROVISIONS - Continued

- 1 and associated Inspection Reports, the Contractor shall include an  
2 updated copy of the Video Inspection Tracking Log. The log will be  
3 either MS excel spreadsheet or pdf of a hard copy and will highlight the  
4 pipe segments included with the submittal and a condition status  
5 summary statement.
- 6 • A template of the Video Inspection Tracking Log will be provided to the  
7 Contractor in digital format (Microsoft Excel Spreadsheet or pdf) after  
8 contract award. The Contractor will obtain approval of the Engineer for  
9 the format and content of the Tracking Log in advance.

10

11 **Pre-Installation Inspection Video/Report Review**

12

13 Prior to submitting a Pre-Installation Inspection video and associated Inspection  
14 Report, the Contractor shall perform a quality assurance review of all information  
15 on the video and in the report for accuracy, completeness and for conformance  
16 with these specifications. The CCTV Inspection video for each pipe segment  
17 shall be viewed in its entirety to ensure accurate pipe defect/repair location and  
18 physical characteristics (size, type of damage, etc.) during the CCTV inspection,  
19 as well as to ensure the quality of the video. These same review procedures shall  
20 be followed for the Final CCTV inspection.

21

22 The Contractor's review shall be documented on both the Inspection Report and  
23 the Video Inspection Tracking Log.

24

25

26 If the Contractor should find rocks and sediments, grease, grout, or other debris  
27 that would otherwise prevent the installation of the liner, they shall halt the  
28 inspection and remove said obstructions prior to completing the CCTV  
29 inspection.

30

31 **Structure Referencing and Measurements**

32

33 Prior to inspection, the Contractor shall confirm with the Engineer the structure  
34 number referenced (manhole, catch basin, inlet, etc.) and the data/reference  
35 information to be used when referencing structure numbers (Plans, GIS data,  
36 sewer maps, etc.) during CCTV inspections. Linear measure references to be  
37 measured from the center of the beginning structure to the center of the next  
38 inline structure and include the direction of flow. The locations of damage/repair  
39 locations and all distinctive pipe conditions shall be referenced to the centerline  
40 of the beginning structure.

41

42 **Video Inspection Equipment**

43

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SPECIAL PROVISIONS - Continued

1 The Contractor shall inspect the interior walls of the pipe segments using a color  
2 CCTV camera with a lens capable or rotating 360 degrees to allow the  
3 Contractor to look at the entirety of the pipe damage/repair areas. The CCTV  
4 camera used will have Pan/Tilt/Zoom capability to allow for full viewing and  
5 documentation of all repair locations, pipe joints and other features. A one-inch  
6 reference ball, mounted to the camera, will be used. The camera will have an  
7 optimal lighting capability to clearly view all repair areas and have a viewing  
8 distance of at least 10' along the length of the pipe when advancing the camera  
9 through the pipe.

10

11 It is entirely the Contractor's responsibility to choose and provide the correct  
12 equipment and software which will produce CCTV inspections and reports that  
13 meet the minimum CCTV inspection standards of this specification. Should any  
14 of the CCTV inspection equipment become damaged or degraded during this  
15 project, such that it is not capable of producing the minimum standards, it shall  
16 be the Contractor's responsibility to repair or replace the affected equipment. No  
17 additional work days or payment will be granted for the repair or replacement of  
18 damaged or degraded equipment.

19

20 Should the camera get stuck in the pipe, the Contractor shall be responsible for  
21 all costs in extracting it. Costs related to difficulties encountered during internal  
22 video inspection are incidental to the contract, and claims will not be considered.

23

24 **Personnel**

25

26 Experienced personnel trained in video inspection, that have experience locating  
27 and identifying pipe installation defects, pipe damage, locating breaks, obstacles,  
28 size and type of debris, root intrusion, lateral/service connections and system  
29 finish work conditions by CCTV, shall perform the video inspection. Personnel  
30 performing inspection shall have a minimum of five (5) years of experience in  
31 video inspection and must be capable of providing adequate video inspection  
32 examples as required in this section.

33

34 **Video clarity**

35 In order to allow for an accurate analysis of the condition of the existing pipe, the  
36 entire surface of the pipe under inspection will need to be clearly visible. The  
37 Contractor shall be responsible for obtaining clear, unobstructed video footage  
38 that can be reviewed and assessed by the Contracting Agency and/or Engineer.  
39 If after cleaning, it is found that additional debris, obstructions or other conditions  
40 are present in the pipe that prevent clear visibility of video, additional cleaning or  
41 obstruction removal may be required.

42

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1-114

SPECIAL PROVISIONS - Continued

1 When the depth of sediment and/or debris in a pipe, which may be caused by  
2 existing defects such as sags, offsets, voids, etc., obstructs the ability of the  
3 Engineer to clearly view the pipe surface, the Contractor shall halt the inspection  
4 and attempt to clear the main using high-velocity jetting machines, or other non-  
5 destructive methods acceptable to the Engineer. Once the pipe section under  
6 inspection is clear the inspection may resume.  
7 If incoming flows are enough to obstruct the ability of the Engineer to clearly view  
8 the entire surface of the pipe under inspection, the Contractor shall take all  
9 necessary measures needed to isolate, and divert flows around, the pipe  
10 segment under inspection.

11  
12 The Contractor shall maintain a clean and clear lens for the duration of the CCTV  
13 inspection. Should the lens become soiled, fogged, or otherwise impaired to any  
14 degree that impedes the ability to clearly see the condition of the pipe, the  
15 Contractor shall halt the inspection and clean/clear the lens of any foreign matter  
16 impeding the visual inspection. No additional compensation will be made for re-  
17 inspections required by the Engineer due to soiled, fogged, or otherwise impaired  
18 camera lenses.

19  
20 The Contractor shall maintain sufficient light levels within the main to allow for  
21 visual inspection of the pipe walls for a minimum distance of three (3) feet in front  
22 of the camera lens for all 8" to 10" pipe, and four (4) feet for all pipe sizes 12" and  
23 up. Additionally, the Contractor shall make certain that the light levels are not so  
24 bright the visual inspection is hindered.

25  
26 **7-04.3(2) Bypass Pumping Systems**

27 Section 7-04.3(2) is a new section

28  
29 The Contractor shall provide a Bypass Pumping System(s) as needed to perform  
30 all storm drainage system repair work included within the scope of the project in  
31 accordance with the project Plans and Specifications. The design, installation  
32 and operation of the temporary pumping system shall be the Contractor's  
33 responsibility.

34  
35 Each repair location, or site, included in the project will require different Bypass  
36 Pumping Systems and configurations to isolate the storm drain pipe to be  
37 repaired. The location and availability of isolation points, discharge points,  
38 stormwater flows and equipment needed may vary depending on site conditions  
39 and shall be evaluated by the Contractor on a site-by-site basis. The Contractor  
40 shall furnish all materials, labor, equipment, power, maintenance, etc. to  
41 implement a Bypass Pumping System for the purpose of diverting the existing  
42 flow around the work area for the duration of the work at each repair location, or

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SPECIAL PROVISIONS - Continued

- 1 site. If the contractor shall notify the City in the event that a surcharged pipe  
2 cannot cleared by bypass pumping prior to performing televised inspection.  
3
- 4 Prior to performing the work, the Contractor shall prepare a comprehensive  
5 Bypass Pumping Plan and submit the plan to the City for review and approval.  
6 This comprehensive plan shall be submitted after bid award at the time of the  
7 preconstruction meeting. The Bypass Pumping Plan for this project will be  
8 comprised of the individual bypass pumping setups and arrangements for each  
9 repair location, or site, included in the project.  
10
- 11 The Contractor shall not proceed with storm system repair work until the Bypass  
12 Pumping Plan has been review and approved by the City. The Contractor is  
13 solely responsible for the completeness, accuracy and adequacy of the bypass  
14 pumping system plan submittals for each site. The City has the right to reject the  
15 bypass pumping plan, in whole or in part, at their sole discretion. Any delays or  
16 costs associated with incomplete, inadequate or unsuitable submittals, submittal  
17 rejection, and resubmittal shall be borne by the Contractor. Any revisions or  
18 modifications to the Bypass Pumping Plan shall also require review and  
19 approved by the City.  
20
- 21 The Bypass Pumping Plan shall detail all the Bypass Pumping Systems to be  
22 implemented at each individual repair location, or site. The site-specific details to  
23 be included are as follows:
- 24 • Plan showing location of pumps, intercept and discharge points, pipe  
25 routing and lengths.
  - 26 • Staging areas needed for pumps and any traffic control setups needed to  
27 assure safe traffic movement through project site.
  - 28 • Storm system plugging methods and types of plugs used.
  - 29 • Bypass pump size, capacity and power requirements;
  - 30 • Submit calculations of static lift, friction losses, and flow velocity (pump  
31 curves showing pump operating range shall be submitted);
  - 32 • Any pump controls used to automate pumping, such as floats, control  
33 systems,
  - 34 • Method of noise control for each pump and/or generator used. The bypass  
35 pumping system shall meet the requirements of all codes or regulatory  
36 requirements of the agencies having jurisdiction, including noise  
37 ordinances. The contractor shall use critically-silenced pumps and/or  
38 generators where needed to meet noise ordinances.
  - 39 • Number, size, length, material, location and installation layout for all  
40 suction and discharge piping, including hose protection measures used;
  - 41 • Downstream discharge plan and any needed discharge protection or  
42 containment measures needed to control flows;

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SPECIAL PROVISIONS - Continued

- 1       • Any temporary pipe supports, anchoring, thrust blocking or restraining
- 2       required;
- 3       • For trenched piping systems, show cross-section of installation including
- 4       suction and discharge pipe depth and cover, protective sleeving, backfill
- 5       material, plating, patching, or other protective equipment used for roadway
- 6       crossings;
- 7       • Schedule for maintenance and inspection of bypass pumping system,
- 8       including bypass pumping lines;
- 9       • Plan for securing the bypass pump system, if proposed to be left onsite
- 10      overnight, including all pumps and piping.

11  
12 If, during construction, the Engineer believes that any bypass pumping system is  
13 not adequately sized and a potential for overflow exists, the Contractor shall  
14 immediately halt pumping operations and open the storm system to receive  
15 flows. The Contractor shall then revise the individual sites bypass pumping plan  
16 and provide the equipment needed to handle the flows encountered before work  
17 proceeds. All costs and schedule impacts due to inadequate, malfunctioning or  
18 unmaintained bypass pumping systems shall be paid by the Contractor.

19  
20 The Contractor shall have adequate standby equipment available and ready for  
21 immediate operation and use in the event of an emergency or breakdown. One  
22 standby pump of equal size shall be staged near the flow bypassing locations,  
23 ready for use in the event of primary pump failure. The Contractors bypass  
24 pumping operations shall include all precautionary or safety measures needed to  
25 assure the protection of surface waters, wetlands and other natural resources.  
26 The contractor shall be solely responsible for any damages, fines, mitigation  
27 work, cleanup, and restoration needed resulting from bypass pumping operations  
28 that result in uncontrolled discharge, leaks, erosion, sedimentation, flooding or  
29 other impacts to adjacent properties. The Contractor shall insure that the bypass  
30 pumping system is maintained, and a responsible operator shall always be on  
31 site when pumps are operating.

32  
33 **7-04.4 Measurement**

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

35 Section 7-04.4 is supplemented with the following:

36  
37       Excavation for lay pits will be measured by the cubic yard of Structure  
38       Excavation Class B Incl. Haul, in accordance with Section 2-09 of the  
39       Standard Specifications.

40  
41       CCTV Inspection shall be measured by the linear foot from center of structure  
42       to center of structure along the pipe segment being inspected.

43

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SPECIAL PROVISIONS - Continued

1 No specific measurement will apply to Pre-Installation CCTV inspections.

2

3 No specific unit of measurement shall apply to the lump sum item "Bypass  
4 Pumping Systems"

5

6 **7-04.5 Payment**

7 **(\*\*\*\*\*)**

8 Section 7-04.5 is supplemented with the following:

9

10 "HDPE Pipe for Snap Together Jointed Storm Sewer Liner, 14 In. O.D.", per linear  
11 foot

12

13 "HDPE Pipe for Snap Together Jointed Storm Sewer Liner, 32 In. O.D.", per linear  
14 foot

15

16 The unit Contract price per linear foot for "HDPE Pipe for Snap Together  
17 Jointed Storm Sewer Liner, 14 In. O.D." and "HDPE Pipe for Snap Together  
18 Jointed Storm Sewer Liner, 32 In. O.D." shall be full pay to perform the Work  
19 as specified including all costs associated with furnishing and installing storm  
20 sewer pipe, storm sewer hole filling, gravel backfill for pipe zone bedding,  
21 blocking installation, HDPE nose cone use, installation of HDPE liner pipe,  
22 placement of non-shrink grout for sealing at pipe ends and leak testing.

23

24 Lay pit excavation will be paid by the cubic yard for "Structure Excavation  
25 Class B Incl. Haul" and shall be in accordance with Section 2-09.5 of the  
26 Standard Specifications and these Special Provisions, including removal and  
27 disposal of excavated materials and existing storm sewer pipe in the lay pits,  
28 and steel plate protection of the lay pit excavations.

29

30 Lay pit restoration will be paid by the square yard for "HMA for Pavement  
31 Repair Cl. ½ In. PG 58H-22". All costs associated with furnishing and  
32 installing controlled density fill, bedding, and backfill material within the pipe  
33 zone in the installation of the HDPE storm sewer liner pipe within the lay pit  
34 area shall be **included** in the unit Contract price for the size of HDPE storm  
35 sewer liner pipe installed, in accordance with Section 2-09.3(1)E and City of  
36 Mill Creek Standard Detail STM-10.

37

38 "Corrugated Polyethylene Storm Sewer Pipe \_\_\_ In. Diam.", per linear foot.

39

40 The unit Contract price per linear foot for storm sewer pipe of any kind and  
41 size specified shall be full pay for all labor, tools, materials, and equipment  
42 necessary to provide and install the item complete including bedding and  
43 backfill materials; compaction; and cleaning (flushing) and testing the pipe.

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SPECIAL PROVISIONS - Continued

1  
2        “CCTV Inspection”, per linear foot  
3        The unit contract price per linear foot of “CCTV Inspection” shall be full pay  
4        for all labor, materials, equipment and other incidental costs required to  
5        provide the Pre-Installation CCTV Inspection, Final CCTV Inspection, and all  
6        related supporting submittals and documentation required as it relates to the  
7        storm repairs and storm system modifications included in the contract. All  
8        costs related to incidental televised inspection, re-inspection, submittal  
9        preparation, reviews and approvals, coordination, or other work related to  
10       correction of deficiencies in submittals or equipment conditions and any work  
11       related to correction of deficiencies shall be considered incidental to the  
12       work. Payment shall occur after CCTV submittals have been reviewed and  
13       approved by the Engineer.

14  
15  
16        “Bypass Pumping Systems”, Lump Sum.  
17        The lump sum contract price for “Bypass Pumping Systems” shall be full pay  
18        for labor, materials, equipment and all other related costs associated with the  
19        installation, operation, maintenance, protection, safety measures and  
20        removal of bypass pumping systems, and other related storm flow  
21        management work, needed manage pipe system flows and fully isolate the  
22        existing storm drainage system as needed to perform the repairs identified in  
23        the plans. This work also includes the preparation of, and approval process  
24        for, a comprehensive Bypass Pumping Plan that includes site-by-site bypass  
25        pumping submittal information as noted in these specifications.

26  
27  
28        **7-07    CLEANING OF EXISTING DRAINAGE STRUCTURES**

29  
30        **7-07.1 Description**

31  
32        This section is supplemented as follows:  
33        Prior to conducting any CCTV inspection, the Contractor shall clean the storm  
34        main segment whereby the word “clean” in this specification is defined as the  
35        removal of all accumulations including sludge, dirt, sand, rocks, asphalt,  
36        concrete, grout, grease, roots, organic material, and any other solid or semisolid  
37        material existing in the pipe with 100% debris removal. It will be the Contractor’s  
38        responsibility to make as many cleaning passes as necessary to meet the above  
39        definition of “clean”.

40  
41        The Contractor is required to remove all roots within the storm sewer pipe as a  
42        part of the cleaning operations. It shall be noted by the contractor that there are  
43        locations where root removal will be required. This work shall also include

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SPECIAL PROVISIONS - Continued

1 removal of roots, root balls and other blockages caused by organic material  
2 located within the storm pipes as identified on the plans.

3  
4 **7-07.3 Construction Requirements**

5  
6 This section is supplemented as follows:  
7 Prior to beginning the cleaning and CCTV work, the temporary bypass pumping  
8 system must be installed, tested, and made operational.

9  
10 Cleaning equipment shall be capable of removing dirt, grease, rocks, sand, roots,  
11 and other materials and obstructions from the sewer lines. Selection of  
12 equipment shall be based on field conditions such as access to structures,  
13 quantity of debris, size of pipe, condition of pipe, and pipe lining activities.  
14 During sewer cleaning operations, precautions shall be taken by the Contractor  
15 in the use of cleaning equipment to avoid damage to the pipe. Any damage of  
16 the pipe resulting from the Contractor's cleaning operations, regardless of the  
17 existing condition of the pipe, shall be the responsibility of the Contractor.  
18 When cleaning the existing storm system, the downstream system shall be  
19 protected. Sludge, dirt, sand, rocks, grease, roots, or any other solids or  
20 semisolid material resulting from the cleaning operation shall be removed at the  
21 downstream manhole of the section being cleaned. The Contractor shall take the  
22 necessary precautions to assure that materials are not passed from manhole  
23 section to manhole section. Any construction debris which enters the existing  
24 downstream system, shall be removed by the contractor at his expense, and to  
25 the satisfaction of the Engineer. If needed to protect the downstream system, a  
26 trap or screen shall be used.

27  
28 Prior to the commencement cleaning work, the Contractor shall be responsible  
29 for coordinating disposal of all materials and solids removed from the storm pipe  
30 during the cleaning operation at an approved off-site location. The Contractor  
31 shall submit the name, address, and telephone number of the off-site disposal  
32 location. Trucks hauling waste from the site shall be watertight so that no leakage  
33 or spillage will occur. Waste removed from a storm pipe or structure shall not be  
34 spilled or dumped onto the ground surface, streets, structures or storm drains.

35  
36 Special attention shall be used during the cleaning operation to assure removal  
37 of roots from the pipe joints and penetrations. Procedures may include the use of  
38 mechanical equipment such as rodding machines, root cutters, porcupines, and  
39 high-velocity hydro-jet cleaners.

40  
41 Prior to cleaning pipes or structures, the Contractor shall review the television  
42 inspections specified in section 7-04.3(1)G. For bidding assistance, videos of the

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SPECIAL PROVISIONS - Continued

1 television inspections ordered by the Contracting Agency between 2012 and  
2 2018 have been made available in Appendix F.

3  
4

5 **7-07.5 Payment**

6  
7

8 This section is supplemented as follows:  
9 Root removal shall be considered incidental to the Bid Item "Cleaning Existing  
10 Drainage Structure", lump sum. No separate payment will be made for root  
11 removal.

12

13 **7-08 GENERAL PIPE INSTALLATIONS**

14

15 **7-08.3 Construction Requirements**

16

17 **7-08.3(1) Excavation and Preparation of Trench**

18

19 **7-08.3(1)D Trench Dewatering**

20

21 Section 7-08.3(1)D is added as follows:

22

23 This Section specifies the definition, responsibilities, and execution for  
24 dewatering associated with trench excavation for pipes, manholes, catch basins,  
25 cleanouts, side sewers and other buried utility Work. Trench dewatering  
26 measures shall be implemented by the Contractor where necessary or directed  
27 by the Engineer and shall include the design, furnishing, installation, operation,  
28 maintenance, monitoring, reporting, and removal of dewatering systems to  
29 achieve proper completion of all Work performed under this Contract. The  
30 Contractor shall prevent the flow of surface water runoff into the trench  
31 excavation. Control of surface water associated with grading and paving Work  
32 and other erosion control measures, shall be in accordance with Division 8.

33

34 Maintain groundwater level at or below the bottom of the excavation in all Work  
35 areas during excavation, foundation preparation, pipe and Structure installation  
36 and backfilling. Trench dewatering shall sufficiently control groundwater so that  
37 softening of the bottom of excavations, or the formation of "quick" conditions or  
38 "boils" during excavation, is prevented. The use of gravel or non-moisture  
39 sensitive trench backfill in areas that groundwater is encountered, is required. If  
40 foundation soils are disturbed or oversaturated by water, the Contractor shall  
41 over excavate and replace the affected areas with suitable fill at no additional  
42 cost to the Contracting Agency. Upon completion of dewatering operations, the  
normal water table shall be restored to its natural level in such a manner as to  
not disturb the pipe, its foundation, and Structures. It shall be the sole

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1 responsibility of the Contractor to control the rate and effect of the dewatering in  
2 such a manner as to avoid all objectionable settlement and subsidence.

3  
4 Discharge flow from trench dewatering shall be directed to the storm sewer  
5 system unless otherwise directed by the Engineer. Groundwater shall be  
6 controlled by trench dewatering systems shall be designed and operated so as to  
7 minimize turbidity of the discharged flow and to prevent removal of the natural  
8 soils or imported fill.

9  
10 Soils data for use in planning the dewatering system is not available. Any  
11 investigative Work required for designing the dewatering system shall be at the  
12 Contractor's own expense. Trench dewatering systems shall be planned and  
13 implemented using accepted and professional methods of design and  
14 engineering consistent with the best modern practice. Trench dewatering  
15 systems shall be comprised of gravel-lined sumps, dewatering pump(s), together  
16 with piping and conveyance components necessary for complete and reliable  
17 function. Dewatering wells, well-points, injection wells, infiltration trenches etc.  
18 are not anticipated to be necessary for this project and are not permitted for use.

19  
20 Before operations begin, the Contractor shall have available on the site of Work  
21 sufficient pumping equipment and/or other machinery to assure that the  
22 operation of the trench dewatering system can be continuously maintained.  
23 Power services (electrical, hydraulic, gas, diesel etc.) used for dewatering pumps  
24 shall be supplied by the Contractor. The Contractor shall be prepared to  
25 maintain the dewatering system such that it is in continuous operation without  
26 any interruptions. If required by the Contracting Agency, the system shall have  
27 24-hour supervision and follow-up by personnel; skilled in the operation,  
28 maintenance, and replacement of system components. The Contractor shall be  
29 responsible for, and shall repair without cost to the Contracting Agency, any  
30 damage to Work in place, and the excavation, including damage to the trench  
31 bottom due to "boiling" and removal of material and pumping out of the  
32 excavated area that may result from negligence, inadequate or improper  
33 installation, maintenance and operation of the dewatering system, and any  
34 mechanical or electrical failure of the dewatering system.

35  
36 **7-08.4 Vacant**

37  
38 **7-08.5 Payment**

39 Payment will be made for the following Bid items when included in the Proposal:

40  
41 "Trench Dewatering", lump sum. The lump sum Contract price for "Trench  
42 Dewatering" shall be full compensation to perform the Work as specified.

43  
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1    **7-20    GROUTING OF ANNULAR SPACES**

*New*

2  
3    Section 7-20 is added as follows:

4  
5    **7-20.1    Description**

6    This Work consists of placing grout in the annular space between the exterior of  
7    the 14" O.D. and 32" O.D. HDPE liner pipes and the interior of the 18" I.D. and  
8    36" I.D. host pipes, after installation of the liner pipe, in accordance with the  
9    Plans, and these Specifications.

10

11   **7-20.2    Materials**

12    Grout shall be a "low density flowable fill" type mixture composed of cement,  
13    sand, water, and fly ash if available. The grout mix design shall meet the  
14    requirements of Special Provisions Section 9-20.3(5), "Grout for Annular Space  
15    Applications".

16

17   **7-20.3    Construction Requirements**

18

19   **7-20.3(1) Placing Grout in Annular Spaces – General**

20

21    A detailed installation plan showing how the liner pipe will be held in position  
22    within the host pipe shall be submitted to the Engineer for approval prior to  
23    proceeding with the grouting. Grouting shall not proceed until the installation plan  
24    is approved.

25

26    The annular void shall be grouted solid by injecting grout through grout tubes in  
27    accordance with the manufacturer's recommendations. The annular void shall be  
28    completely grout filled without deflecting the insertion pipe greater than 1.0  
29    percent.

30

31    An open ended, high point tap or equivalent vent must be provided and  
32    monitored at the bulkhead opposite to the point of grouting.

33

34    The Contractor shall provide end seals at the open points of each run of pipe to  
35    be grouted.

36

37    Grouting of the annular space shall be done in such a manner as to prevent  
38    damage or collapse of the storm sewer liner pipe. Pressure on the annular void  
39    shall not exceed two (2) PSI to avoid damage to the liner pipe. Regardless of the  
40    pressure, the Contractor shall be solely responsible for any damage or distortion  
41    to the HDPE liner pipe due to the grouting process. The Contractor shall repair  
42    or replace damaged or distorted liner pipe at no additional expense to the  
43    Contracting Agency.

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**7-20.3(2) Sampling and Testing**

Samples of grout will be obtained in accordance with ASTM C495[f], *Standard Test Method for Compressive Strength of Lightweight Insulating Concrete*. One set of four (4) standard cylinders will be cast for each batch. Special handling and sampling procedures will be followed if indicated by the grout manufacturer. The samples shall meet the design compressive strength of the grout in accordance with the grout manufacturer. Samples will be tested in accordance with ASTM C495. Sampling and testing will be provided by the Local Agency.

**7-20.3(3) Cleanup and Restoration**

Upon acceptance of the grout installation Work and testing, the Contractor shall clean-up and restore the project area affected by the grouting operations as approved by the Engineer.

**7-20.4 Vacant**

**7-20.5 Payment**

Payment will be for the following Bid item when included in the Proposal:

“Grouting of Annular Spaces for 18 In. Diam. Host Pipe”, lump sum

“Grouting of Annular Spaces for 36 In. Diam. Host Pipe”, lump sum

Grout placed in excess of the storm sewer/liner length designated by the Engineer will not be paid.

The lump sum Contract item "Grouting of Annular Spaces for \_\_\_ In. Diam. Host Pipe" shall be full payment for the Work as specified, including grout port and vent installation, grout tube, cap, and adaptor installation, mobilization.

**7-21 SECTIONAL CURED IN PLACE LINER (SCIPL) (NEW SECTION)**

**7-21.1 Description**

This work shall consist of the rehabilitation of storm pipelines by the installation of a Sectional Cured-In-Place Liner (hereafter referred to as SCIPL) at specified locations within the City's existing storm drainage system. The rehabilitation of pipelines utilizing SCIPL generally consist of the installation of resin-impregnated, flexible, textile tube into an existing host pipe by means of air or water inversion and inflation. The tube is pressed against the pipe using air or water pressure

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SPECIAL PROVISIONS - Continued

1 and held in place until the thermoset resins have cured. When cured, the  
2 sectional liner shall extend over a predetermined length of the host pipe as a  
3 single, continuous, tight-fitting, corrosion-resistant, section of cured-in-place pipe  
4 within the host pipe. This section of CIPP is a hardened resin-fabric pipe with  
5 sufficient structural properties to replace the use and function of the host pipe.  
6 A typical installation will be a spot repair, of varying length, at the sites and  
7 locations identified in the plans and pre-bid videos. These locations are to be  
8 verified and reviewed by the contractor in the field during a Pre-Installation CCTV  
9 inspection. The Contractor shall coordinate the cleaning and Pre-Installation  
10 inspection of the storm system, with SCIPL product installers, when applicable.  
11

12 This specification references standards from the American Society for Testing  
13 and Materials (ASTM). The latest edition of the following standards shall apply to  
14 this section, and are made part of this section by reference:

- 15 • ASTM F2599 (Standard Practice for The Sectional Repair of Damaged  
16 Pipe by Means of An Inverted Cured-in-Place Liner)
- 17 • ASTM F1216 (Practice for Rehabilitation of Existing Pipelines and  
18 Conduits by Inversion and Curing of a Resin-Impregnated Tube)
- 19 • ASTM D5813 (Specification for Cured-in-Place Thermosetting Resin  
20 Sewer Piping Systems)
- 21 • ASTM D790 (Test Methods for Flexural Properties of Un-Reinforced  
22 Plastics and Electrical Insulating Materials)
- 23 • ASTM D2990 (Tensile, Compressive, and Flexural Creep and Creep-  
24 Rupture of Plastics)
- 25 • ASTM D3681 (Test Method for Chemical Resistance of "Fiberglass"  
26 (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe in a Deflected  
27 Condition

28  
29 In the case of conflicting requirements between these specifications and these  
30 referenced documents, this specification will govern. Requirements outlined in  
31 the referenced ASTM standards shall supplement these specifications.  
32

33 **7-21.2 Materials**

34 7-21.2 (1) SCIPL Tubing Material

35 The textile tube material shall consist of one or more layers of absorbent needle  
36 punched felt, circular knit fiberglass, or similar textile materials that meet the  
37 requirements of ASTM F1216 and the requirements and test methods of ASTM  
38 D5813. The liner tube shall be constructed to withstand installation pressures,  
39 have sufficient strength to bridge missing pipe or repair areas, stretch to fit  
40 irregular pipe sections, and be capable of conforming to offset joints, bells and  
41 disfigured pipe sections. Liner tubing material used shall be fabricated to a size

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1 that, when installed, will tightly fit the internal circumference and length of the  
2 host pipe being repaired. Allowance shall be made for circumferential and  
3 longitudinal stretching during the installation process.

4  
5 Liner tube thickness shall be designed based on the engineering formulas listed  
6 in ASTM F1216, Appendix X1, Section X1.1.2. The design for the liner shall  
7 assume no bonding to the original host pipe. The minimum design factor of  
8 safety shall be 2 or higher.

9  
10 The tube shall be manufactured with a translucent bladder have hydrophilic  
11 neoprene rubber O-rings and compressible transitional material at both ends of  
12 the tube ASTM F2559.

13 **7-21.2(2) Resin Material**

14 The resin system shall be corrosion resistant polyester, vinyl ester, epoxy resin,  
15 or silicate and catalyst system when cured within the SCIPL tubing material  
16 creates a composite that meets the requirements and physical properties of  
17 ASTM F1216 and ASTM D5813. The resin shall be compatible with the liner  
18 fabric, host pipe materials and other rehabilitation systems it may contact. Resin  
19 material types used may be either ambient temperature or heat cured products.

20 **7-21.2(3) Physical Properties of Liner Tube/Resin System**

21 The composite material of the liner/resin system shall, upon installation within the  
22 host pipe, have physical properties that meet the Flexural Strength, Tensile  
23 Strength and both the Short- and Long-Term Flexural Modulus criteria of ASTM  
24 D790 and shall meet the 10,000-hour test in accordance ASTM D5813, Section  
25 8.2.2. After installation, the SCIPL liner tube/resin system shall meet chemical  
26 resistance requirements of ASTM D543. Diametric shrinking during the curing  
27 process shall meet the requirements of ASTM D 5813, Section 6.3.1 or better.  
28 The SCIPL Liner Tube/Resin system shall be expected to meet or exceed the  
29 minimum structural properties shown in Table 1, ASTM F1216.

30 **7-21.3 Construction Requirements**

31  
32 Prior to SCIPL repairs, the Contractor shall review the television inspections  
33 specified in section 7-04.3(1)G. For bidding assistance, videos of the television  
34 inspections ordered by the Contracting Agency between 2012 and 2018 have  
35 been made available in Appendix F.

36  
37 **7-21.3(1) SCIPL Contractor (Product Installer) Requirements**

38 **7-21.3 (1)A Licensing and Certification**

39 A. The Contractor or subcontractor installing the SCIPL shall have a current  
40 license agreement with the product Manufacturer.

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1 B. Individuals installing the SCIPL shall be certified by the product  
2 Manufacturer.

3 C. Lining installation shall be in accordance with the requirements of the  
4 product Manufacturer and as directed by their Technical Representative.  
5 This includes the correction of defective work.

6 **7-21.3(1)B Contractor Qualifications**

7 The Contractor installing SCIPL shall be able to meet the financial, insurance and  
8 bonding requirements of the contract and be able to provide satisfactory  
9 evidence of experience and qualifications to the Owner. The contractor shall  
10 have at least five (5) years active and ongoing commercial SCIPL and/or CIPP  
11 installation experience. In addition, the contractor shall provide examples of, and  
12 references for, at least at least three (3) successful SCIPL pipe repair installation  
13 projects within the past five (5) years. The contractor shall be a licensed and  
14 certified installer of the SCIPL liner/resin system to be installed.

15 The Manufacturer and Lining Contractor shall meet the minimum qualifications  
16 specified herein. If the Contractor does not have personnel meeting the  
17 qualifications required on site during work, the Owner may stop work until such  
18 time as the Contractor does provide personnel with the required qualifications.  
19 The work stoppage will not be added to the end of the contract time. If the  
20 Contractor cannot provide qualified personnel, the Owner may terminate the  
21 contract and contact the bonding company for completion of the work bid.

22 **7-21.3(1)C Contractor Submittals**

23 As part of this work, the contractor shall prepare, submit and receive approval of  
24 submittal information and project documentation related to SCIPL activities prior  
25 to beginning the work. All items requiring approval shall be submitted to the  
26 Engineer at least 15 working days prior to beginning SCIPL activities at the site,  
27 unless otherwise approved by the Engineer. The information to be submitted  
28 shall include the following:

29 A. SCIPL Lining Plan to include the following:

- 30 1. Work sequence organized by Pipeline Section with installation  
31 schedule.
- 32 2. Anticipated cleaning and preparation requirements.
- 33 3. Locations of all repairs with disposition for each.
- 34 4. Confirmation of liner length.
- 35 5. Test section preparation and testing/inspection procedures

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SPECIAL PROVISIONS - Continued

- 1 B. Installer SCIPL certification and licensing. This shall be submitted with  
2 supplemental bid criteria within two (2) business days of bid opening.
- 3 C. Product information for liner and resin materials.
- 4 D. Name of supplier(s) for tube liner and resin.
- 5 E. Manufacturer's certification that the liner materials and SCIPL system  
6 comply with the ASTM standards referenced herein.
- 7 F. Manufacturer's product data sheets for factory wet out procedures and  
8 calculations showing quantity of resin and catalyst used for each length of  
9 liner, at or prior to time of installation.
- 10 G. Manufacturer's certification that all Manufacturer's wet out  
11 recommendations have been followed (i.e. "wet-out sheets") on all lengths  
12 of SCIPL which have factory wet out, at or prior to time of installation.
- 13 H. Manufacturer's recommendations for storage procedures and temperature  
14 control, handling and inserting the liner, curing details, and any applicable  
15 minimum equipment requirements for proper installation.
- 16 I. Manufacturer's recommendations and procedures for minimum and  
17 maximum pressures, temperatures, and time durations to be used during  
18 liner inversion, curing, and relief of pressure after cure, as is applicable.
- 19 J. Information related to Contractor's equipment to be used for installation.
- 20 K. Pipe sizing and Tube liner design calculations, for each size of pipe  
21 showing how the liner to be used was selected.
- 22 L. Certification from the manufacturer's onsite representative that the  
23 installation meets all manufacturer requirements for warranty.
- 24 M. SCIPL field samples from previous field installations of the same resin  
25 system and tube materials as proposed for the actual installation. Field  
26 sampling procedure shall be in accordance with ASTM F1216 or ASTM  
27 F1743 and in accordance with ASTM D5813.
- 28 N. Material Safety Data Sheets for resins, hardeners, catalysts, solvents, and  
29 all other compounds or chemicals to be used on the job site.
- 30 O. Bypass Pumping Plan (see section 7-04.3(2) of these specifications)
- 31 P. Permits or written authorization to use fire hydrants for water to be used in  
32 the installation process.

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SPECIAL PROVISIONS - Continued

1 **7-21.3(1)D Quality Assurance**

2 A. The Contractor shall coordinate work with the Manufacturer and plan for  
3 the Manufacturer to provide the following to the Owner:

4 1. Certification that the Contractor's installation methods meet the  
5 requirements of the manufacturer.

6 2. List of inspection items that should be observed and recorded.  
7 Inspection items include pre-installation activities, product  
8 identification, installation procedures, equipment operations, and post-  
9 installation activities.

10 3. Review all post-installation CCTV tapes of the installed liner. Following  
11 this review the Manufacturer's representative shall provide certification  
12 to the Engineer ensuring that the Contractor's installation meets the  
13 Manufacturer requirements and will not void the warranty.

14 B. Pipeline rehabilitation products submitted for approval must provide third-  
15 party test results performed by an independent lab supporting the long-  
16 term performance, structural strength and corrosion resistance of the  
17 product. No product shall be approved without independent third-party  
18 testing verification. Minimum required third party test results to be  
19 submitted shall be per ASTM D5813 10,000-hour test and ASTM D3681  
20 using a 10,000-hour test period.

21 C. The finished SCIPL shall be continuous over the entire length of the repair  
22 area and shall be free from visual defects such as foreign inclusions, dry  
23 spots, pinholes, and delamination.

24 **7-21.3(1)E Warranty**

25 A. The Contractor shall warrant each storm pipe repair section lined with the  
26 specified product against defects in materials, surface preparation, lining  
27 application, and workmanship for a period of twenty-four (24) months from  
28 the date of Final Acceptance of the project. The Contractor shall, within  
29 one month of written notice, repair defects in materials or workmanship  
30 that may develop during said 24-month period. Defects shall be defined  
31 as visible leakage of groundwater, delamination, or separation from the  
32 host pipe as is visible from the Final CCTV inspection, as performed in  
33 accordance with Section 7-04.3(1)H of these specifications. The  
34 Contractor shall also repair any damage to the storm system, buildings,  
35 houses, environment, or other improvements and/or work caused by  
36 failure of the lining system at the sole expense of Contractor. Repairs shall

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1 also include removal of the failed liner and re-lining, where feasible or  
2 excavation and repair and/or replacement of the section of pipe where the  
3 defect was located.

4 **7-21.3(2) Preparation**

5 The Contractor shall make all necessary provisions to ensure physical and  
6 structural conditions of host pipe are suitable for installation and warranty of the  
7 liner. The Contractor shall verify the lengths in the field prior to ordering and prior  
8 to impregnation of the tube/bladder with resin, to ensure that the tube will have  
9 enough length to extend the entire length of the repair. The Contractor shall also  
10 measure the inside diameter of the existing pipes in the field prior to ordering  
11 liner so that the liner can be installed in a tight-fitted condition.

12 **7-21.3(3) Flow Management**

13 It shall be the Contractor's responsibility to maintain operation of the existing  
14 storm systems throughout the duration of the project without flooding or  
15 backwatering of the upstream storm system. The Contractor shall divert all flows  
16 around each segment of the pipe designated for repair by bypass pumping in  
17 accordance with Section 7-04.3(2) of these specifications. The Contractor shall  
18 also be responsible for managing flow from any existing lateral or illicit  
19 connections and act to minimize flows if required.

20 **7-21.3(4) Cleaning**

21 The host pipe shall be cleaned in accordance with Section 7-07 of these  
22 specifications, "Cleaning of Existing Drainage Structures", and per any additional  
23 SCIPL Manufacturer's requirements. The existing host pipe shall be cleaned,  
24 and debris removed that will interfere with the installation of the SCIPL, just prior  
25 to insertion of the liner. There shall not be any significant rain events between the  
26 final cleaning pass and the installation of the SCIPL.

27 After the cleaning is complete, a final camera pass shall be made to verify the  
28 cleanliness of the line. After complete cleaning has been confirmed, the  
29 contractor shall record the "Pre-Installation CCTV" per Specification Section 7-  
30 04.3(1)H, "CCTV Inspection". All stormwater flows shall be prevented, whether  
31 blocked or bypassed, from entering the main segment under inspection. All  
32 standing water shall be removed from the main during video inspection to provide  
33 the Contractor with a completely unobstructed view of the host pipe. Prior to  
34 insertion of the liner, the storm main must be accepted as "clean" by the  
35 Contractor, with this determination confirmed by the Engineer based on a review  
36 of the Pre-Installation CCTV.

37 **7-21.3(5) Manholes**

38 Protect all manholes to withstand forces generated by the equipment while  
39 installing the liner, when applicable.

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1    **7-21.3(6) Resin Impregnation**

2    The tube contained within the translucent bladder (bladder/liner assembly) shall  
3    be vacuum-impregnated with resin under controlled conditions and in accordance  
4    with ASTM F1216 and shall have a uniform thickness and excess resin  
5    distribution that, when compressed at installation pressures, will either meet or  
6    exceed the design thickness after cure. The quantity of resin used for the fabric  
7    tube impregnation shall be enough to fill the voids in the in the fabric tube  
8    material with additional allowances for polymerization shrinkage and for resin  
9    loss through cracks, joints, and irregularities in the host pipe wall.

10   The person in charge of the "wet-out" process shall complete and sign a "wet-  
11   out" sheet (see Section 7-21.3(1)C, item G) for each liner to be delivered to the  
12   site. The certified "wet-out" sheet shall include, but is not limited to, "wet-out"  
13   date, resin identification, fabric tube length, diameter, and thickness. The  
14   Contractor must submit to the Engineer the signed "wet-out" sheet for each liner  
15   delivered to the site.

16   **7-21.3(7) Liner Installation**

17   The bladder/liner assembly shall be installed using a launcher. Once moved to  
18   the beginning of the damaged pipe section, the installer shall be pressurized to  
19   invert the liner and inflate the bladder to hold the liner firmly against the host  
20   pipe. When fully inverted, the liner shall extend a minimum of 18" beyond the  
21   damaged section of the host pipe being repaired. The hydrophilic O-rings shall  
22   be positioned between the liner and the host pipe. Liner installation shall follow  
23   Manufacturer's recommended installation process for the repair and meet the  
24   requirements of ASTM F2599.

25   The installation method used shall include CCTV of the placement and curing  
26   processes. The CCTV shall include a quality inspection of the liner installation  
27   after curing is completed. A copy of the installation process CCTV shall be  
28   provided to the Engineer prior to final acceptance of the SCIPL repair.

29   **7-21.3(8) Water**

30   The Contractor will plan for permitting and authorized use of fire hydrants with  
31   the applicable water purveyor(s) for use in cleaning, lining, or other construction  
32   activities required for this project. Prior to construction activities, it shall be the  
33   Contractor's responsibility to contact the purveyor to identify which hydrants will  
34   be available for use and the requirements for use. The Contractor shall obtain all  
35   proper authorizations, and pay all associated fees, rental or use charges that  
36   may apply. This may include obtaining a hydrant permit, hydrant meter deposit,  
37   meter usage fees, water use charges, or other similar costs. A copy of any permit  
38   or receipts of fees/deposits paid shall be provided to the Engineer upon request.  
39   All costs associated with authorized water or hydrant use shall be considered  
40   incidental to other project work.

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1 **7-21.3(9) Curing**

2 **7-21.3(9)A Air or Heat Curing**

3 After placement of the liner is completed, pressure shall be maintained  
4 throughout the curing process, holding the liner securely to the wall of the host  
5 pipe. Curing shall be done without pressure interruption by adding air or an  
6 air/steam mixture for the proper duration of time in accordance with the resin  
7 manufacturer's instructions.

8 The liner is either cured at ambient temperatures or by a suitable heat source  
9 (based on the resin used). The heating equipment shall be capable of delivering  
10 an air/steam mixture for heating into the bladder/liner assembly to uniformly raise  
11 the temperature of the assembly above that needed to cure the resin. The  
12 Contractor shall provide the necessary standby equipment to maintain the heat  
13 source supply.

14 The curing of the SCIPL shall consider the ground conditions (soil type, thermal  
15 conductivity, moisture level, etc.), the resin being used, and the material of the  
16 host pipe. The temperature and pressure of the installation shall be logged  
17 throughout the curing and cool down cycles. When the heat source is removed  
18 and the temperature of the SCIPL reaches 100 degrees F or less, the process  
19 shall be considered complete. For ambient cured methods, a coupon (resin  
20 sample) suspended in the manhole may be used to determine the proper curing  
21 time.

22 **7-21.3(9)C Finished Pipe Liner**

23 The finished lining shall be continuous over the entire length of an installation run  
24 and be free of visual defects such as foreign inclusions, dry spots, pinholes,  
25 wrinkles, and de-lamination. The lining shall be impervious and free of any  
26 leakage from the pipe to the surrounding ground or from the ground to inside the  
27 lined pipe.

28 Any defect, which will or could affect the structural integrity, strength, capacity, or  
29 future maintenance of the installed liners, shall be repaired at the Contractor's  
30 expense, in a manner approved by the Engineer.

31 **7-21.3(10) Testing**

32 The physical properties of the installed SCIPL liner shall be verified through  
33 material and field testing.

34 All materials testing shall be performed at the Contractor's expense and by an  
35 independent third-party laboratory. The Contractor shall submit the name and  
36 contact information for the third-party laboratory prior to submitting any samples  
37 for testing. The testing shall be in accordance with applicable ASTM test  
38 methods to confirm compliance with the specified requirements.

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1    **7-21.3(10)A Material Testing**

2    The contractor will provide the Engineer a sample or test section of SCIPL for  
3    testing. The sample shall be prepared in the same material as the host pipe in  
4    accordance with the SCIPL manufacturer's recommendations. The minimum  
5    length of the sample must be able to produce at least 5 specimens for testing per  
6    ASTM D790 and D543. The sample shall be tested for flexural strength and  
7    flexural modulus in accordance with the requirements of ASTM D790. Chemical  
8    resistance testing shall be in accordance with ASTM D543.

9    Wall thickness of samples shall be measured at determined as described in  
10   ASTM F1743, Section 8.1.6. The minimum wall thickness at any point shall not  
11   be less than 87.5% percent of the design thickness.

12   **7-21.4 Measurement**

13   Measurement for payment of SCIPL bid items shall be per lineal foot of the repair  
14   sleeve installed in the host pipe, prior to installation.

15   **7-21.5 Payment**

16   SCIPL for 18" Pipe, per linear foot

17   The unit contract price for SCIPL for 18" Pipe per lineal foot shall be considered  
18   full compensation for all labor, materials, equipment, testing and tools necessary  
19   or incidental to furnish and install the sectional cured-in-place-pipe liner repair for  
20   18" pipe complete in place in accordance with the Plans and Specifications  
21   including all submittals, CCTV inspection, water required for the work and  
22   associated testing requirements.

23   SCIPL for 24" Pipe

24   The unit contract price for SCIPL for 24" Pipe per lineal foot shall be considered  
25   full compensation for all labor, materials, equipment, testing and tools necessary  
26   or incidental to furnish and install the sectional cured-in-place-pipe liner repair for  
27   24" pipe complete in place in accordance with the Plans and Specifications  
28   including all submittals, CCTV inspection, water required for the work and  
29   associated testing requirements.

30   SCIPL for 44" Pipe

31   The unit contract price for SCIPL for 44" Pipe per lineal foot shall be considered  
32   full compensation for all labor, materials, equipment, testing and tools necessary  
33   or incidental to furnish and install the sectional cured-in-place-pipe liner repair for  
34   44" pipe complete in place in accordance with the Plans and Specifications  
35   including all submittals, CCTV inspection, water required for the work and  
36   associated testing requirements.

37   For the purpose of estimating progress payments, the work covered by this item  
38   will be broken down as follows.

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SPECIAL PROVISIONS - Continued

1	Completed SCIPL installation:	80%
2	Receipt of CCTV inspection (liner installation):	10%
3	Receipt of material testing results:	10%
4		
5		
6		

**END DIVISION 7**

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**DIVISION 8  
MISCELLANEOUS CONSTRUCTION**

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

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

Section 8-01.3(9)D is supplemented with the following:

Only inlet devices with large overflow bypass openings are approved for below grate protection. The Inspector may require removal of inlet protection during large storm events to prevent flooding.

**8-01.5 Payment**

Section 8-01.5 is supplemented with the following:

“Erosion/Water Pollution Control”, lump sum.  
“Erosion/Water Pollution Control” shall also be full compensation for all costs incurred to the contractor necessary for the adoption, modification, approval, and implementation of the TESC Plans and associated Best Management Practices (BMP’s), for the ongoing maintenance, replacement and removal of BMP’s for the duration of the project, to manage the coverage, inspection, maintenance and/or reporting requirements of the stormwater general permit, and to meet the requirements of Section 8-01 of the Standard Specifications. All erosion control measures, work and materials are included in “Erosion/Water Pollution Control”, except as otherwise noted in the Contract Documents.

**8-02 ROADSIDE RESTORATION**

**8-02.3 Construction Requirements**

**8-02.3(17) Property Restoration**

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. sod 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

SPECIAL PROVISIONS - Continued

1 areas; seeding, fertilizing, and mulching; irrigation system repair and/or  
2 restoration, etc.).

3  
4 If the items used for the restoration have pay items in the Contract, they  
5 will be paid under those items.

6  
7 If restoration of adjacent property requires use of materials that have no  
8 pay items, payment will be by force account under the item" Property  
9 Restoration".

10

11 **8-04 CURBS, GUTTERS, AND SPILLWAYS**

12

13 **8-04.3 Construction Requirements**

14

15 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

16

17 Replace the fourth paragraph of Section 8-04.3(1) in its entirety with  
18 following:

19

20 Expansion and contraction joints in curb or curb and gutter (both rolled  
21 and vertical) shall be located and installed in accordance with City of Mill  
22 Creek standard plan STR-2 and shall be coordinated to correspond in joint  
23 locations with STR-3, STR-6 through STR-11, or as otherwise directed by  
24 the engineer. Prior to installing curb, curb and gutter and/or sidewalk, the  
25 contractor shall schedule and coordinate a field/site meeting with the  
26 Engineer to review joint locations prior to placement. This meeting shall be  
27 scheduled with the Engineer, Contractor and any applicable  
28 Subcontractor(s) no later than five (5) working days in advance of  
29 scheduled work. Expansion joints shall also be located at the beginning  
30 and end of curb returns and cold joints with existing curbs and gutters  
31 where present. All expansion joints shall be full-depth, 3/8" pre-molded  
32 joint material that is factory cut to the shape of the curb. When curb or  
33 curb and gutter are placed adjacent to Portland cement concrete  
34 pavement, a 3/8" thick, 6" deep pre-molded joint filler shall be installed  
35 between the two vertical surfaces to prevent cracking. When noted on the  
36 City of Mill Creek standard plan(s), the Contractor shall install the catch  
37 basin gutter pan at drainage structures, and/or catch basins, abutting the  
38 curb and gutter.

39

40 **8-04.5 Payment**

41

42 Section 8-01.5 is supplemented with the following:

43

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SPECIAL PROVISIONS - Continued

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

3

4 "Cement Concrete Rolled Curb and Gutter", per linear foot.

5 "Cement Concrete Rolled Curb and Gutter" shall be considered full  
6 compensation for all costs incurred to the contractor for the installation of rolled  
7 curb and gutter as shown on the Plans, and in accordance with City of Mill Creek  
8 standard plan STR-2, or as otherwise specified by the Engineer.

9

10 "Cement Concrete Vertical Curb and Gutter", per linear foot.

11 "Cement Concrete Vertical Curb and Gutter" shall be considered full  
12 compensation for all costs incurred to the contractor for the installation of vertical  
13 curb and gutter as shown on the Plans, and in accordance with City of Mill Creek  
14 standard plan STR-2, or as otherwise specified by the Engineer.

15

16

**END DIVISION 8**

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01

1-137

PART 4

Amendments to the Standard Specifications

AMENDMENTS TO THE STANDARD SPECIFICATIONS

1 **INTRODUCTION**

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

5  
6 **AMENDMENTS TO THE STANDARD SPECIFICATIONS**

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

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

16  
17 **Section 1-01, Definitions and Terms**  
18 **August 6, 2018**

19 **1-01.3 Definitions**

20 The following new term and definition is inserted before the definition for  
21 “Shoulder”:

22  
23 **Sensitive Area** – Natural features, which may be previously altered by  
24 human activity, that are present on or adjacent to the project location and  
25 protected, managed, or regulated by local, tribal, state, or federal agencies.

26  
27 The following new term and definition is inserted after the definition for “Working  
28 Drawings”:

29  
30 **WSDOT Form** – Forms developed and maintained by WSDOT that are  
31 required or available for use on a project. These forms can be downloaded  
32 from the forms catalogue at:

33  
34 <http://wsdot.wa.gov/forms/pdfForms.html>

35  
36 **Section 1-02, Bid Procedures and Conditions**  
37 **October 30, 2018**

38 **1-02.4(1) General**

39 This section is supplemented with the following:

40

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Prospective Bidders are advised that the Contracting Agency may include a  
2 partially completed Washington State Department of Ecology (Ecology)  
3 Transfer of Coverage (Ecology Form ECY 020-87a) for the Construction  
4 Stormwater General Permit (CSWGP) as part of the Bid Documents. When  
5 the Contracting Agency requires the transfer of coverage of the CSWGP to  
6 the Contractor, an informational copy of the Transfer of Coverage and the  
7 associated CSWGP will be included in the appendices. As a condition of  
8 Section 1-03.3, the Contractor is required to complete sections I, III, and VIII  
9 of the Transfer of Coverage and return the form to the Contracting Agency.

10  
11 The Contracting Agency is responsible for compliance with the CSWGP until  
12 the end of day that the Contract is executed. Beginning on the day after the  
13 Contract is executed, the Contractor shall assume complete legal  
14 responsibility for compliance with the CSWGP and full implementation of all  
15 conditions of the CSWGP as they apply to the Contract Work.

16  
17 **1-02.5 Proposal Forms**

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

19  
20 At the request of a Bidder, the Contracting Agency will provide a physical  
21 Proposal Form for any project on which the Bidder is eligible to Bid.

22  
23 **1-02.6 Preparation of Proposal**

24 Item number 1 of the second paragraph is revised to read:

25  
26 1. A unit price for each item (omitting digits more than two places to the  
27 right of the decimal point),

28  
29 In the third sentence of the fourth paragraph, "WSDOT Form 422-031" is revised  
30 to read "WSDOT Form 422-031U".

31  
32 The following new paragraph is inserted before the last paragraph:

33  
34 The Bidder shall submit with their Bid a completed Contractor Certification  
35 Wage Law Compliance form (WSDOT Form 272-009). Failure to return this  
36 certification as part of the Bid Proposal package will make this Bid  
37 Nonresponsive and ineligible for Award. A Contractor Certification of Wage  
38 Law Compliance form is included in the Proposal Forms.

39  
40



AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 1-03, Award and Execution of Contract**  
2 **January 2, 2018**

3 **1-03.3 Execution of Contract**

4 The first paragraph is revised to read:

5  
6 Within 20 calendar days after the Award date, the successful Bidder shall  
7 return the signed Contracting Agency-prepared Contract, an insurance  
8 certification as required by Section 1-07.18, a satisfactory bond as required  
9 by law and Section 1-03.4, the Transfer of Coverage form for the  
10 Construction Stormwater General Permit with sections I, III, and VIII  
11 completed when provided, and shall be registered as a contractor in the state  
12 of Washington.  
13

14 **1-03.5 Failure to Execute Contract**

15 The first sentence is revised to read:

16  
17 Failure to return the insurance certification and bond with the signed Contract  
18 as required in Section 1-03.3, or failure to provide Disadvantaged, Minority or  
19 Women's Business Enterprise information if required in the Contract, or  
20 failure or refusal to sign the Contract, or failure to register as a contractor in  
21 the state of Washington, or failure to return the completed Transfer of  
22 Coverage for the Construction Stormwater General Permit to the Contracting  
23 Agency when provided shall result in forfeiture of the proposal bond or  
24 deposit of this Bidder.  
25

26 **Section 1-05, Control of Work**  
27 **August 6, 2018**

28 **1-05.5 Vacant**

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

30  
31 **1-05.5 Tolerances**  
32 Geometrical tolerances shall be measured from the points, lines, and  
33 surfaces defined in Contract documents.  
34

35 A plus (+) tolerance increases the amount or dimension to which it applies, or  
36 raises a deviation from level. A minus (-) tolerance decreases the amount or  
37 dimension to which it applies, or lowers a deviation from level. Where only  
38 one signed tolerance is specified (+ or -), there is no specified tolerance in  
39 the opposing direction.  
40

41 Tolerances shall not be cumulative. The most restrictive tolerance shall  
42 control.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1  
2 Tolerances shall not extend the Work beyond the Right of Way or other legal  
3 boundaries identified in the Contract documents. If application of tolerances  
4 causes the extension of the Work beyond the Right of Way or legal  
5 boundaries, the tolerance shall be reduced for that specific instance.  
6

7 Tolerances shall not violate other Contract requirements. If application of  
8 tolerances causes the Work to violate other Contract requirements, the  
9 tolerance shall be reduced for that specific instance. If application of  
10 tolerances causes conflicts with other components or aspects of the Work,  
11 the tolerance shall be reduced for that specific instance.  
12

13 **1-05.9 Equipment**

14 The following new paragraph is inserted before the first paragraph:  
15

16 Prior to mobilizing equipment on site, the Contractor shall thoroughly remove  
17 all loose dirt and vegetative debris from drive mechanisms, wheels, tires,  
18 tracks, buckets and undercarriage. The Engineer will reject equipment from  
19 the site until it returns clean.  
20

21 This section is supplemented with the following:  
22

23 Upon completion of the Work, the Contractor shall completely remove all  
24 loose dirt and vegetative debris from equipment before removing it from the  
25 job site.  
26

27 **Section 1-06, Control of Material**  
28 **January 7, 2019**

29 **1-06.1(3) Aggregate Source Approval (ASA) Database**

30 This section is supplemented with the following:  
31

32 Regardless of status of the source, whether listed or not listed in the ASA  
33 database the source owner may be asked to provide testing results for  
34 toxicity in accordance with Section 9-03.21(1).  
35

36 **1-06.2(2)D Quality Level Analysis**

37 This section is supplemented with the following new subsection:  
38

39 **1-06.2(2)D5 Quality Level Calculation – HMA Compaction**

40 The procedures for determining the quality level and pay factor for HMA  
41 compaction are as follows:  
42

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1            1. Determine the arithmetic mean,  $X_m$ , for compaction of the lot:  
2

3            
$$X_m = \frac{\sum x}{n}$$

4  
5            Where:

6             $x$  = individual compaction test values for each subplot in the lot.

7             $\sum x$  = summation of individual compaction test values

8             $n$  = total number test values  
9

10           2. Compute the sample standard deviation, "S", for each constituent:  
11

12           
$$S = \left[ \frac{n\sum x^2 - (\sum x)^2}{n(n-1)} \right]^{\frac{1}{2}}$$

13  
14           Where:

15            $\sum x^2$  = summation of the squares of individual compaction test  
16           values

17            $(\sum x)^2$  = summation of the individual compaction test values squared  
18

19           3. Compute the lower quality index ( $Q_L$ ):  
20

21           
$$Q_L = \frac{X_m - LSL}{S}$$

22  
23           Where:

24           LSL = 92.0  
25

26           4. Determine  $P_L$  (the percent within the lower Specification limit which  
27           corresponds to a given  $Q_L$ ) from Table 1. For negative values of  $Q_L$ ,  
28            $P_L$  is equal to 100 minus the table  $P_L$ . If the value of  $Q_L$  does not  
29           correspond exactly to a figure in the table, use the next higher value.  
30

31           5. Determine the quality level (the total percent within Specification  
32           limits):  
33

34           Quality Level =  $P_L$   
35

36           6. Using the quality level from step 5, determine the composite pay  
37           factor (CPF) from Table 2.  
38

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           7. If the CPF determined from step 6 is 1.00 or greater: use that CPF  
2           for the compaction lot; however, the maximum HMA compaction  
3           CPF using an LSL = 92.0 shall be 1.05.

4  
5           8. If the CPF from step 6 is not 1.00 or greater: repeat steps 3 through  
6           6 using an LSL = 91.5. The value thus determined shall be the HMA  
7           compaction CPF for that lot; however, the maximum HMA  
8           compaction CPF using an LSL = 91.5 shall be 1.00.

9  
10       **1-06.2(2)D1 Quality Level Analysis**

11       The following new sentence is inserted after the first sentence:

12  
13           The quality level calculations for HMA compaction are completed using the  
14           formulas in Section 1-06.2(2)D5.

15  
16       **1-06.2(2)D4 Quality Level Calculation**

17       The first paragraph (excluding the numbered list) is revised to read:

18  
19           The procedures for determining the quality level and pay factors for a  
20           material, other than HMA compaction, are as follows:

21  
22       **1-06.6 Recycled Materials**

23       The first three sentences of the second paragraph are revised to read:

24  
25           The Contractor shall submit a Recycled Material Utilization Plan on WSDOT  
26           Form 350-075A within 30 calendar days after the Contract is executed. The  
27           plan shall provide the Contractor's anticipated usage of recycled concrete  
28           aggregates for meeting the requirements of these Specifications. The  
29           quantity of recycled concrete aggregate will be provided in tons and as a  
30           percentage of the Plan quantity for eligible material listed in Section 9-  
31           03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled  
32           Material.

33  
34       The last paragraph is revised to read:

35  
36           Within 30 calendar days after Physical Completion, the Contractor shall  
37           report the quantity of recycled concrete aggregates that were utilized in the  
38           construction of the project for each eligible item listed in Section 9-03.21(1)E.  
39           The Contractor's report shall be provided on WSDOT Form 350-075A,  
40           Recycled Materials Reporting.

41  
42       **1-06.6(1)A General**

43       Item 1(a) in the second paragraph is revised to read:

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1
- 2 a. The estimated costs for the Work for each material with 25 percent
- 3 recycled concrete aggregate. The cost estimate shall include for each
- 4 material a documented price quote from the supplier with the lowest total
- 5 cost for the Work.
- 6

7 **Section 1-07, Legal Relations and Responsibilities to the Public**  
8 **August 6, 2018**

9 **1-07.5 Environmental Regulations**

10 This section is supplemented with the following new subsections:

11

12 **1-07.5(5) U.S. Army Corps of Engineers**

13 When temporary fills are permitted, the Contractor shall remove fills in their  
14 entirety and the affected areas returned to pre-construction elevations.

15

16 If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the  
17 Special Provisions, the Contractor shall retain a copy of the permit or the  
18 verification letter (in the case of a Nationwide Permit) on the worksite for the  
19 life of the Contract. The Contractor shall provide copies of the permit or  
20 verification letter to all subcontractors involved with the authorized work prior  
21 to their commencement of any work in waters of the U.S.

22

23 **1-07.5(6) U.S. Fish/Wildlife Services and National Marine Fisheries**  
24 **Service**

25 The Contracting Agency will provide fish exclusion and handling services if  
26 the Work dictates. However, if the Contractor discovers any fish stranded by  
27 the project and a Contracting Agency biologist is not available, they shall  
28 immediately release the fish into a flowing stream or open water.

29

30 **1-07.5(1) General**

31 The first sentence is deleted and replaced with the following:

32

33 No Work shall occur within areas under the jurisdiction of resource agencies  
34 unless authorized in the Contract.

35

36 The third paragraph is deleted.

37

38 **1-07.5(2) State Department of Fish and Wildlife**

39 This section is revised to read:

40

41 In doing the Work, the Contractor shall:

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1           1. Not degrade water in a way that would harm fish, wildlife, or their  
2            habitat.
- 3
- 4           2. Not place materials below or remove them from the ordinary high  
5            water line except as may be specified in the Contract.
- 6
- 7           3. Not allow equipment to enter waters of the State except as specified  
8            in the Contract.
- 9
- 10          4. Revegetate in accordance with the Plans, unless the Special  
11          Provisions permit otherwise.
- 12
- 13          5. Prevent any fish-threatening silt buildup on the bed or bottom of any  
14          body of water.
- 15
- 16          6. Ensure continuous stream flow downstream of the Work area.
- 17
- 18          7. Dispose of any project debris by removal, burning, or placement  
19          above high-water flows.
- 20
- 21          8. Immediately notify the Engineer and stop all work causing impacts, if  
22          at any time, as a result of project activities, fish are observed in  
23          distress or a fish kill occurs.
- 24

25           If the Work in (1) through (3) above differs little from what the Contract  
26           requires, the Contracting Agency will measure and pay for it at unit Contract  
27           prices. But if Contract items do not cover those areas, the Contracting  
28           Agency will pay pursuant to Section 1-09.4. Work in (4) through (8) above  
29           shall be incidental to Contract pay items.

30  
31           **1-07.5(3) State Department of Ecology**

32           This section is revised to read:

33  
34           In doing the Work, the Contractor shall:

- 35
- 36           1. Comply with Washington State Water Quality Standards.
- 37
- 38           2. Perform Work in such a manner that all materials and substances  
39           not specifically identified in the Contract documents to be placed in  
40           the water do not enter waters of the State, including wetlands. These  
41           include, but are not limited to, petroleum products, hydraulic fluid,  
42           fresh concrete, concrete wastewater, process wastewater, slurry  
43           materials and waste from shaft drilling, sediments, sediment-laden

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 water, chemicals, paint, solvents, or other toxic or deleterious  
2 materials.  
3  
4 3. Use equipment that is free of external petroleum-based products.  
5  
6 4. Remove accumulations of soil and debris from drive mechanisms  
7 (wheels, tracks, tires) and undercarriage of equipment prior to using  
8 equipment below the ordinary high water line.  
9  
10 5. Clean loose dirt and debris from all materials placed below the  
11 ordinary high water line. No materials shall be placed below the  
12 ordinary high water line without the Engineer's concurrence.  
13  
14 6. When a violation of the Construction Stormwater General Permit  
15 (CSWGP) occurs, immediately notify the Engineer and fill out  
16 WSDOT Form 422-011, Contractor ECAP Report, and submit the  
17 form to the Engineer within 48 hours of the violation.  
18  
19 7. Once Physical Completion has been given, prepare a Notice of  
20 Termination (Ecology Form ECY 020-87) and submit the Notice of  
21 Termination electronically to the Engineer in a PDF format a  
22 minimum of 7 calendar days prior to submitting the Notice of  
23 Termination to Ecology.  
24  
25 8. Transfer the CSWGP coverage to the Contracting Agency when  
26 Physical Completion has been given and the Engineer has  
27 determined that the project site is not stabilized from erosion.  
28  
29 9. Submit copies of all correspondence with Ecology electronically to  
30 the Engineer in a PDF format within four calendar days.  
31

**1-07.5(4) Air Quality**

This section is revised to read:

The Contractor shall comply with all regional clean air authority and/or State Department of Ecology rules and regulations.

The air quality permit process may include additional State Environment Policy Act (SEPA) requirements. Contractors shall contact the appropriate regional air pollution control authority well in advance of beginning Work.

When the Work includes demolition or renovation of any existing facility or structure that contains Asbestos Containing Material (ACM) and/or

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Presumed Asbestos-Containing Material (PACM), the Contractor shall  
2 comply with the National Emission Standards for Hazardous Air Pollutants  
3 (NESHAP).  
4

5 Any requirements included in Federal and State regulations regarding air  
6 quality that applies to the “owner or operator” shall be the responsibility of the  
7 Contractor.  
8

9 **1-07.7(1) General**

10 The first sentence of the third paragraph is revised to read:  
11

12 When the Contractor moves equipment or materials on or over Structures,  
13 culverts or pipes, the Contractor may operate equipment with only the load-  
14 limit restrictions in Section 1-07.7(2).  
15

16 The first sentence of the last paragraph is revised to read:  
17

18 Unit prices shall cover all costs for operating over Structures, culverts and  
19 pipes.  
20

21 **1-07.9(1) General**

22 The last sentence of the sixth paragraph is revised to read:  
23

24 Generally, the Contractor initiates the request by preparing standard form  
25 1444 Request for Authorization of Additional Classification and Rate,  
26 available at <https://www.dol.gov/whd/recovery/dbsurvey/conformance.htm>,  
27 and submitting it to the Engineer for further action.  
28

29 **1-07.9(2) Posting Notices**

30 The second sentence of the first paragraph (up until the colon) is revised to read:  
31

32 The Contractor shall ensure the most current edition of the following are  
33 posted:  
34

35 In items 1 through 10, the revision dates are deleted.  
36

37 **1-07.11(2) Contractual Requirements**

38 In this section, “creed” is revised to read “religion”.  
39

40 Item numbers 1 through 9 are revised to read 2 through 10, respectively.  
41

42 After the preceding Amendment is applied, the following new item number 1 is  
43 inserted:

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1  
2  
3 1. The Contractor shall maintain a Work site that is free of harassment,  
4 humiliation, fear, hostility and intimidation at all times. Behaviors that  
5 violate this requirement include but are not limited to:  
6  
7 a. Persistent conduct that is offensive and unwelcome.  
8  
9 b. Conduct that is considered to be hazing.  
10  
11 c. Jokes about race, gender, or sexuality that are offensive.  
12  
13 d. Unwelcome, unwanted, rude or offensive conduct or advances of a  
14 sexual nature which interferes with a person's ability to perform their  
15 job or creates an intimidating, hostile, or offensive work environment.  
16  
17 e. Language or conduct that is offensive, threatening, intimidating or  
18 hostile based on race, gender, or sexual orientation.  
19  
20 f. Repeating rumors about individuals in the Work Site that are  
21 considered to be harassing or harmful to the individual's reputation.

22 **1-07.11(5) Sanctions**

23 This section is supplemented with the following:

24  
25 Immediately upon the Engineer's request, the Contractor shall remove from  
26 the Work site any employee engaging in behaviors that promote harassment,  
27 humiliation, fear or intimidation including but not limited to those described in  
28 these specifications.  
29

30 **1-07.11(6) Incorporation of Provisions**

31 The first sentence is revised to read:

32  
33 The Contractor shall include the provisions of Section 1-07.11(2) Contractual  
34 Requirements (1) through (5) and the Section 1-07.11(5) Sanctions in every  
35 subcontract including procurement of materials and leases of equipment.  
36

37 **1-07.15(1) Spill Prevention, Control, and Countermeasures Plan**

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

39  
40 An SPCC Plan template and guidance information is available at  
41 <http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous->  
42 [materials/spill-prevent-report.](http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-)  
43

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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

2 Item number 1 is supplemented with the following new sentence:

3

4 This policy shall be kept in force from the execution date of the Contract until  
5 the Physical Completion Date.

6

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

8 **January 7, 2019**

9 **1-08.1 Subcontracting**

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

11

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

20

21 The following new paragraph is inserted after the seventh paragraph:

22

23 The Contractor shall not use businesses (material suppliers, vendors,  
24 subcontractors, etc.) with federal purchasing exclusions. Businesses with  
25 exclusions are identified using the System for Award Management web page  
26 at [www.SAM.gov](http://www.SAM.gov).

27

28 **1-08.5 Time for Completion**

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

30

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

37

38 **1-08.7 Maintenance During Suspension**

39 The fifth paragraph is revised to read:

40

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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

4  
5           **Section 1-09, Measurement and Payment**  
6           **August 6, 2018**

7           **1-09.2(1) General Requirements for Weighing Equipment**

8           The last paragraph is supplemented with the following:  
9

10           When requested by the Engineer, the Contractor's representative shall  
11           collect the tickets throughout the day and provide them to the Engineer's  
12           designated receiver, not later than the end of shift, for reconciliation. Tickets  
13           for loads not verified as delivered will receive no pay.

14  
15           **1-09.2(2) Specific Requirements for Batching Scales**

16           The last sentence of the first paragraph is revised to read:  
17

18           Batching scales used for concrete or hot mix asphalt shall not be used for  
19           batching other materials.  
20

21           **1-09.10 Payment for Surplus Processed Materials**

22           The following sentence is inserted after the first sentence of the second  
23           paragraph:  
24

25           For Hot Mix Asphalt, the Plan quantity and quantity used will be adjusted for  
26           the quantity of Asphalt and quantity of RAP or other materials incorporated  
27           into the mix.  
28

29           **Section 2-02, Removal of Structures and Obstructions**  
30           **April 2, 2018**

31           **2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters**

32           In item number 3 of the first paragraph, the second sentence is revised to read:  
33

34           For concrete pavement removal, a second vertical full depth relief saw cut  
35           offset 12 to 18 inches from and parallel to the initial saw cut is also required,  
36           unless the Engineer allows otherwise.  
37

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 2-09, Structure Excavation**  
2 **April 2, 2018**

3 **2-09.2 Materials**

4 In the first paragraph, the references to “Portland Cement” and “Aggregates for  
5 Portland Cement Concrete” are revised to read:

- 6  
7 Cement 9-01  
8 Fine Aggregate for Concrete 9-03.1(2)  
9

10 **2-09.3(3)D Shoring and Cofferdams**

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

12  
13 Structural shoring and cofferdams shall be designed for conditions stated in  
14 this Section using methods shown in Division I Section 5 of the AASHTO  
15 *Standard Specifications for Highway Bridges* Seventeenth Edition – 2002 for  
16 allowable stress design, or the AASHTO *LRFD Bridge Design Specifications*  
17 for load and resistance factor design.  
18

19 **Section 3-01, Production from Quarry and Pit Sites**  
20 **April 2, 2018**

21 **3-01.1 Description**

22 The first paragraph is revised to read:

23  
24 This Work shall consist of manufacturing and producing crushed and  
25 screened aggregates including pit run aggregates of the kind, quality, and  
26 grading specified for use in the construction of concrete, hot mix asphalt,  
27 crushed surfacing, maintenance rock, ballast, gravel base, gravel backfill,  
28 gravel borrow, riprap, and bituminous surface treatments of all descriptions.  
29

30 **Section 4-04, Ballast and Crushed Surfacing**  
31 **April 2, 2018**

32 **4-04.3(5) Shaping and Compaction**

33 This section is supplemented with the following new paragraph:

34  
35 When using 100% Recycled Concrete Aggregate, the Contractor may submit  
36 a written request to use a test point evaluation for compaction acceptance  
37 testing in lieu of compacting to 95% of the standard density as determined by  
38 the requirements of Section 2-03.3(14)D. The test point evaluation shall be  
39 performed in accordance with SOP 738.  
40

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 5-01, Cement Concrete Pavement Rehabilitation**  
2 **January 7, 2019**

3 **5-01.2 Materials**

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

5  
6 Concrete Patching Material, Grout, and Mortar 9-20.1  
7

8 **5-01.3(1)A1 Concrete Patching Materials**

9 In this section, each reference to “9-20” is revised to read “9-20.1”.

10

11 **5-01.3(4) Replace Cement Concrete Panel**

12 This section’s content is deleted and replaced with the following new  
13 subsections:

14

15 **5-01.3(4)A General**

16 Curing, cold weather work, concrete pavement construction in adjacent lines,  
17 and protection of pavement shall meet the requirements of Section 5-  
18 05.3(13) through Section 5-05.3(15). The Contractor, at no cost to the  
19 Contracting Agency, shall repair any damage to existing pavement caused by  
20 the Contractor’s operations.

21

22 **5-01.3(4)B Sawing and Dimensional Requirements**

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

36

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

39

40 **5-01.3(4)C Dowel Bars and Tie Bars**

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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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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.

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

23  
24  
25  
26  
27  
28  
29

Dowel bars and tie bars shall be placed according to the Standard Plan when multiple panels are placed. Panels shall be cast separately from the bridge approach slab.

Dowel bars to be drilled into existing concrete or at a new transverse contraction joint shall have a parting compound, such as curing compound,

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 grease, or other Engineer accepted equal, applied to them prior to  
2 placement.

3  
4 Clean the drilled holes in accordance with the epoxy or grout manufacturer's  
5 instructions. Holes shall be clean and dry at the time of placing the epoxy, or  
6 grout and tie bars. Completely fill the void between the tie bar and the outer  
7 limits of the drilled hole with epoxy or grout. Use retention rings to prevent  
8 leakage of the epoxy or grout and support the tie bar to prevent movement  
9 until the epoxy or grout has cured the minimum time recommended by the  
10 manufacturer.

11  
12 **5-01.3(4)D Foundation Preparation**

13 The Contractor shall smooth the surfacing below the removed panel and  
14 compact it to the satisfaction of the Engineer. Crushed surfacing base  
15 course, or hot mix asphalt may be needed to bring the surfacing to grade  
16 prior to placing the new concrete.

17  
18 If the material under the removed panel is uncompactable and the Engineer  
19 requires it, the Contractor shall excavate the Subgrade 2 feet, place a soil  
20 stabilization construction geotextile meeting the requirements of Section 9-  
21 33, and backfill with crushed surfacing base course. This Work may include:

- 22  
23 1. Furnishing and hauling crushed surfacing base course to the project  
24 site.  
25  
26 2. Excavating uncompactable material.  
27  
28 3. Furnishing and placing a soil stabilization construction geotextile.  
29  
30 4. Backfilling and compacting crushed surfacing base course.  
31  
32 5. Removing, hauling and restocking any unused crushed surfacing  
33 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  
39 smooth surface.

40  
41 Final finish texturing shall meet the requirements of Section 5-05.3(11).  
42

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 In areas where the Plans do not require grinding, the surface smoothness  
2 will be measured with a 10-foot straightedge by the Engineer in accordance  
3 with Section 5-05.3(12). If the replacement panel is located in an area that  
4 will be ground as part of concrete pavement grinding in accordance with  
5 Section 5-01.3(9), the surface smoothness shall be measured, by the  
6 Contractor, in conjunction with the smoothness measurement done in  
7 accordance with Section 5-01.3(10).

8  
9 **5-01.3(4)F Joints**

10 All transverse and longitudinal joints shall be sawed and sealed in  
11 accordance with Section 5-05.3(8). The Contractor may use a hand pushed  
12 single blade saw for sawing joints.

13  
14 **5-01.3(4)G Cracked Panels**

15 Replacement panels that crack shall be repaired as specified in Section 5-  
16 05.3(22) at no cost to the Contracting Agency. When repairing replacement  
17 panels that have cracked, epoxy-coated dowel bars meeting the  
18 requirements of Section 9-07.5(1) may be substituted for the corrosion  
19 resistant dowel bars specified.

20  
21 **5-01.3(4)H Opening to Traffic**

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

23  
24 **5-01.3(5) Partial Depth Spall Repair**

25 The second sentence of the third paragraph is revised to read:

26 All sandblasting residue shall be removed.

27  
28  
29 **5-01.3(7) Sealing Existing Concrete Random Cracks**

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

31 Immediately prior to sealing, the cracks shall be clean.

32  
33  
34 **5-01.3(8) Sealing Existing Longitudinal and Transverse Joint**

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

36 Immediately prior to sealing, the cracks shall be clean.

37  
38  
39 **5-01.3(10) Pavement Smoothness**

40 This section is revised to read:

41 Pavement surface smoothness for cement concrete pavement grinding on  
42 this project will include International Roughness Index (IRI) testing. Ride  
43

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 quality will be evaluated using the Mean Roughness Index (MRI) calculated  
 2 by averaging the IRI data for the left and right wheel path within the section.  
 3

4 **Smoothness Testing Equipment and Operator Certification**

5 Use an inertial profiler and operator that meet the requirements of Section 5-  
 6 05.3(3)E.  
 7

8 **Surface Smoothness**

9 Operate the inertial profiler in accordance with AASHTO R 57. Collect two  
 10 longitudinal traces, one in each wheel path. Collect the control profile at  
 11 locations designated in Table 2 prior to any pavement rehabilitation Work on  
 12 the areas to be tested. Collect an acceptance profile at locations designated  
 13 in Table 2 after completion of all cement concrete pavement grinding on the  
 14 project. Profiles shall be collected in a continuous pass including areas  
 15 excluded from pay adjustments. Provide notice to the Engineer a minimum of  
 16 seven calendar days prior to testing.  
 17

<b>Table 2</b>	
<b>Locations Requiring MRI Testing</b>	
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

18  
 19 Within 30 calendar days after the Contractor's testing, the Engineer may  
 20 perform verification testing. If the verification testing shows a difference in  
 21 MRI greater than the 10 percent, the following resolution process will be  
 22 followed:  
 23

- 24 1. The profiles, equipment and procedures will be evaluated to  
 25 determine the cause of the difference.  
 26

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1           2. If the cause of the discrepancy cannot be resolved the pavement  
 2           shall be retested with both profilers at a mutually agreed time. The  
 3           two profilers will test the section within 30 minutes of each other. If  
 4           the retest shows a difference in MRI equal or greater than the  
 5           percentages shown in Table 2 of AASHTO R 54 the Engineer's test  
 6           results will be used for pavement smoothness acceptance.  
 7

8           The Contractor shall evaluate profiles for acceptance or corrective action  
 9           using the current version of ProVAL and provide the results including the  
 10          profile data in unfiltered electronic Engineering Research Division (ERD) file  
 11          format to the Engineer within 3 calendar days of completing each days profile  
 12          testing. If the profile data files are created using an export option in the  
 13          manufacturer's software where filter settings can be specified, use the filter  
 14          settings that were used to create data files for certification.  
 15

16          Analyze the entire profile. Exclude areas listed in Table 3.  
 17

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

18  
 19          Report the MRI results in inches per mile for each 0.01-mile section and  
 20          each 0.10-mile section. Do not truncate 0.10-mile sections for areas  
 21          excluded from MRI acceptance requirements. MRI requirements will not  
 22          apply to 0.10-mile sections with more than three 0.01 mile-sections excluded.  
 23          MRI requirements for the individual 0.01-mile sections shall still apply. The  
 24          Engineer will verify the analysis.  
 25

26          The MRI for each 0.10 mile of ground lane will comply with the following:  
 27

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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

>130 inches/mile	0.6 x Control Profile MRI
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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.

Surface smoothness of travel lanes including areas subject to MRI testing 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 smoothness perpendicular to the centerline will be measured with a 10-foot straightedge within the lanes. There shall be not vertical elevation difference of more than a 1/4 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.

**5-01.5 Payment**

This section is supplemented with the following:

“Grinding Smoothness Compliance Adjustment”, by calculation.  
Grinding Smoothness Compliance Adjustments will be based on the requirements in Section 5-01.3(10) and the following calculations:

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           A smoothness compliance adjustment will be calculated in the sum of  
2           minus \$100 for each and every section of single traffic lane 0.01 mile in  
3           length and \$1,000 for each and every section of single traffic lane 0.10  
4           mile in length that does not meet the requirements in Section 5-01.3(10)  
5           after corrective Work.  
6

7           **Section 5-04, Hot Mix Asphalt**  
8           **January 7, 2019**

9           **5-04.1 Description**

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

11

12           The manufacture of HMA may include additives or processes that reduce the  
13           optimum mixing temperature (Warm Mix Asphalt) or serve as a compaction  
14           aid in accordance with these Specifications.  
15

16           **5-04.2 Materials**

17          The reference to “Warm Mix Asphalt Additive” is revised to read “HMA Additive”.

18

19           **5-04.2(1) How to Get an HMA Mix Design on the QPL**

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

21

- 22           • Do not include HMA additives that reduce the optimum mixing  
23           temperature or serve as a compaction aid when developing a mix design  
24           or submitting a mix design for QPL evaluation. The use of HMA additives  
25           is not part of the process for obtaining approval for listing a mix design  
26           on the QPL. Refer to Section 5-04.2(2)B.  
27

28          In the table, “WSDOT Standard Practice QC-8” is revised to read “WSDOT  
29          Standard Practice QC-8 located in the WSDOT Materials Manual M 46-01”.

30

31           **5-04.2(1)C Mix Design Resubmittal for QPL Approval**

32          Item number 3 of the first paragraph is revised to read:

33

- 34           3. Changes in modifiers used in the asphalt binder.  
35

36           **5-04.2(2)B Using Warm Mix Asphalt Processes**

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

38

39           **5-04.2(2)B Using HMA Additives**

40          The Contractor may, at the Contractor’s discretion, elect to use additives that  
41          reduce the optimum mixing temperature or serve as a compaction aid for

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 producing HMA. Additives include organic additives, chemical additives and  
2 foaming processes. The use of Additives is subject to the following:

- 3  
4 • Do not use additives that reduce the mixing temperature in  
5 accordance with Section 5-04.3(6) in the production of High  
6 RAP/Any RAS mixtures.  
7  
8 • Before using additives, obtain the Engineer's approval using  
9 WSDOT Form 350-076 to describe the proposed additive and  
10 process.

11  
12 **5-04.3(3)A Mixing Plant**

13 In item number 5 of the first paragraph, "WSDOT T 168" is revised to read "FOP  
14 for AASHTO T 168".

15  
16 **5-04.3(4) Preparation of Existing Paved Surfaces**

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

18  
19 Unless otherwise allowed by the Engineer, use cationic emulsified asphalt  
20 CSS-1, CSS-1h, or Performance Graded (PG) asphalt for tack coat.

21  
22 **5-04.3(6) Mixing**

23 The first paragraph is revised to read:

24  
25 The asphalt supplier shall introduce recycling agent and anti-stripping  
26 additive, in the amount designated on the QPL for the mix design, into the  
27 asphalt binder prior to shipment to the asphalt mixing plant.

28  
29 The seventh paragraph is revised to read:

30  
31 Upon discharge from the mixer, ensure that the temperature of the HMA  
32 does not exceed the optimum mixing temperature shown on the accepted  
33 Mix Design Report by more than 25°F, or as allowed by the Engineer. When  
34 an additive is included in the manufacture of HMA, do not heat the additive  
35 (at any stage of production including in binder storage tanks) to a  
36 temperature higher than the maximum recommended by the manufacturer of  
37 the additive.

38  
39 **5-04.3(7) Spreading and Finishing**

40 The last row of the table is revised to read:

41

$\frac{3}{8}$ inch	0.25 feet	0.30 feet
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42

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA**

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

3

4 The Contracting Agency’s combined aggregate bulk specific gravity (Gsb)  
 5 blend as shown on the HMA Mix Design will be used for VMA calculations  
 6 until the Contractor submits a written request for a Gsb test. The new Gsb  
 7 will be used in the VMA calculations for HMA from the date the Engineer  
 8 receives the written request for a Gsb retest. The Contractor may request  
 9 aggregate specific gravity (Gsb) testing be performed by the Contracting  
 10 Agency twice per project. The Gsb blend of the combined stockpiles will be  
 11 used to calculate voids in mineral aggregate (VMA) of any HMA produced  
 12 after the new Gsb is determined.

13

14 **5-04.3(9)A1 Test Section – When Required, When to Stop**

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

16

VMA	Minimum PFi of 0.95 based on the criteria in Section 5-04.3(9)B4 <sup>2</sup>	None <sup>4</sup>
-----	---	-------------------

17

18 **5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section**

19 In Table 9a, the test property “Gradation, Asphalt Binder, and V<sub>a</sub>” is revised to  
 20 read “Gradation, Asphalt Binder, VMA, and V<sub>a</sub>”

21

22 In Table 9a, the first column of the third row is revised to read:

23

Aggregates: Sand Equivalent Uncompacted Void Content Fracture
--

24

25 **5-04.3(9)B3 Mixture Statistical Evaluation – Acceptance Testing**

26 In Table 11, “V<sub>a</sub>” is revised to read “VMA and V<sub>a</sub>”

27

28 **5-04.3(9)B5 Mixture Statistical Evaluation – Composite Pay Factors (CPF)**

29 The following new row is inserted above the last row in Table 12:

30

Voids in Mineral Aggregate (VMA)	2
----------------------------------	---

31

32 **5-04.3(9)B7 Mixture Statistical Evaluation – Retests**

33 The second to last sentence is revised to read:

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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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 subplot sample test results.

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

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

- For a compaction lot in progress with a compaction CPF less than 0.75 using an LSL = 91.5, a new compaction lot will begin at the Contractor’s request after the 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**

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**

In the first paragraph, “WSDOT FOP for AASHTO T 355” is revised to read “FOP for AASHTO T 355”.

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).

The last two paragraphs are revised to read:

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

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

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 Where
- 2 CPA = Compaction Price Adjustment for the compaction lot (\$)
- 3 CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)
- 4 Q = Quantity in the compaction lot (tons)
- 5 UP = Unit price of the HMA in the compaction lot (\$/ton)
- 6

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

8 The first sentence is revised to read:

9

10 For a compaction subplot that has been tested with a nuclear density gauge  
11 that did not meet the minimum of 91.5 percent of the theoretical maximum  
12 density in a compaction lot with a CPF below 1.00 and thus subject to a price  
13 reduction or rejection, the Contractor may request that a core, taken at the  
14 same location as the nuclear density test, be used for determination of the  
15 relative density of the compaction subplot.

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

18 The second to last paragraph is revised to read:

19

20 When concrete pavement is to be placed on HMA, the surface tolerance of  
21 the HMA shall be such that no surface elevation lies above the Plan grade  
22 minus the specified Plan depth of concrete pavement. Prior to placing the  
23 concrete pavement, bring any such irregularities to the required tolerance by  
24 grinding or other means allowed by the Engineer.

**5-04.5 Payment**

27 The paragraph following the Bid item “Crack Sealing-LF”, per linear foot is  
28 revised to read:

29

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

**Section 5-05, Cement Concrete Pavement  
January 7, 2019**

**5-05.1 Description**

37 In the first paragraph, “portland cement concrete” is revised to read “cement  
38 concrete”.

**5-05.2 Materials**

41 In the first paragraph, the reference to “Portland Cement” is revised to read:

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           Cement                   9-01

2

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

5

6   **5-05.3(1) Concrete Mix Design for Paving**

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

8

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

10

11   **5-05.3(3)E Smoothness Testing Equipment**

12   This section is revised to read:

13

14           Inertial profilers shall meet all requirements of AASHTO M 328 and be  
15           certified in accordance with AASHTO R 56 within the preceding 12 months.

16

17           The inertial profiler operator shall be certified as required by AASHTO R 56  
18           within three years preceding profile measurement.

19

20           Equipment or operator certification by other states or a profiler certification  
21           facility will be accepted provided the certification meets the requirements of  
22           AASHTO R 56. Documentation verifying certification by another state shall  
23           be submitted to the Engineer a minimum of 14 calendar days prior to profile  
24           measurement. Equipment certification documentation shall include the  
25           information required by part 8.5 and 8.6 of AASHTO R 56. Operator  
26           documentation shall include a statement from the certifying state that  
27           indicates the operator is certified to operate the inertial profiler to be used on  
28           the project. The decision whether another state's certification meets the  
29           requirements of AASHTO R 56 shall be vested entirely in the Engineer.

30

31   **5-05.3(4) Measuring and Batching Materials**

32   Item number 2 is revised to read:

33

34           2. **Batching Materials** – On all projects requiring more than 2,500 cubic  
35           yards of concrete for paving, the batching plant shall be equipped to  
36           proportion aggregates and cement by weight by means of automatic and  
37           interlocked proportioning devices of accepted type.

38

39   **5-05.3(4)A Acceptance of Portland Cement Concrete Pavement**

40   This section's title is revised to read:

41

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           **Acceptance of Portland Cement or Blended Hydraulic Cement Concrete**  
2           **Pavement**

3  
4           The first sentence is revised to read:

5  
6           Acceptance of portland cement or blended hydraulic cement concrete  
7           pavement shall be as provided under statistical or nonstatistical acceptance.  
8

9           **5-05.3(7) Placing, Spreading, and Compacting Concrete**

10          This section's content is deleted.

11

12           **5-05.3(10) Tie Bars and Corrosion Resistant Dowel Bars**

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

14

15           The tie bar holes shall be clean before grouting.

16

17           **5-05.3(12) Surface Smoothness**

18          This section is revised to read:

19

20           Pavement surface smoothness for this project will include International  
21           Roughness Index (IRI) testing. The Contractor shall perform IRI testing on  
22           each through lane, climbing lane, and passing lane, greater than 0.25 mile in  
23           length and these lanes will be subject to incentive/disincentive adjustments.  
24           Ride quality will be evaluated using the Mean Roughness Index (MRI)  
25           calculated by averaging the IRI data for the left and right wheel path within  
26           the section.

27

28           Ramps, shoulders and tapers will not be included in MRI testing for  
29           pavement smoothness and will not be subject to incentive adjustments. All  
30           Work is subject to parallel and transverse 10-foot straightedge requirements,  
31           corrective work and disincentive adjustments.

32

33           Operate the inertial profiler in accordance with AASHTO R 57. Collect two  
34           longitudinal traces, one in each wheel path. Collect profile data after  
35           completion of all concrete paving on the project in a continuous pass  
36           including areas excluded from pay adjustments. Provide notice to the  
37           Engineer a minimum of seven calendar days prior to testing.

38

39           Within 30 calendar days after the Contractor's testing, the Engineer may  
40           perform verification testing. If the verification testing shows a difference in  
41           MRI greater than the percentages shown in Table 2 of AASHTO R 54 the  
42           following resolution process will be followed:

43

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1           1. The profiles, equipment and procedures will be evaluated to
- 2           determine the cause of the difference.
- 3
- 4           2. If the cause of the discrepancy cannot be resolved the pavement
- 5           shall be retested with both profilers at a mutually agreed time. The
- 6           two profilers will test the section within 30 minutes of each other. If
- 7           the retest shows a difference in MRI equal or greater than the
- 8           percentages shown in Table 2 of AASHTO R 54 the Engineer's test
- 9           results will be used to establish pay adjustments.

10

11           Surface smoothness of travel lanes not subject to MRI testing will be

12           measured with a 10-foot straightedge no later than 5:00 p.m. of the day

13           following the placing of the concrete. The completed surface of the wearing

14           course shall not vary more than 1/8 inch from the lower edge of a 10-foot

15           straightedge placed on the surface parallel to the centerline.

16

17           Smoothness perpendicular to the centerline will be measured with a 10-foot

18           straightedge across all lanes with the same cross slope, including shoulders

19           when composed of cement concrete pavement. The overlapping 10-foot

20           straightedge measurement shall be discontinued at a point 6 inches from the

21           most extreme outside edge of the finished cement concrete pavement. The

22           completed surface of the wearing course shall not vary more than 1/4 inch

23           from the lower edge of a 10-foot straightedge placed on the surface

24           perpendicular to the centerline. Any deviations in excess of the above

25           tolerances shall be corrected.

26

27           The Contractor shall evaluate profiles for acceptance, incentive payments,

28           disincentive payments, or corrective action using the current version of

29           ProVAL and provide the results including the profile data in unfiltered

30           electronic Engineering Research Division (ERD) file format to the Engineer

31           within 2 calendar days of completing testing each section of pavement. If the

32           profile data files are created using an export option in the manufacturer's

33           software where filter settings can be specified, use the filter settings that

34           were used to create data files for certification. Analyze the entire profile.

35           Exclude any areas specifically identified in the Contract. Exclude from the

36           analysis the first 100 feet after the start of the paving operations and last 100

37           feet prior to the end of the paving operation, the first 100 feet on either side

38           of bridge Structures and bridge approach slab. Report the MRI results in

39           inches per mile for each 52.8 foot section and horizontal distance

40           measurements in project stationing to the nearest foot. Include pay

41           adjustments in the results. The Engineer will verify the analysis.

42

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Corrective work for pavement smoothness may be taken by the Contractor  
2 prior to MRI testing. After completion of the MRI testing the Contractor shall  
3 measure the smoothness of each 52.8-foot section with an MRI greater than  
4 125 inches per mile with a 10-foot straightedge within 14 calendar days or as  
5 allowed by the Engineer. The Contractor shall identify all locations that  
6 require corrective work and provide the straight edge measurements at each  
7 location that exceeds the allowable limit to the Engineer. If all measurements  
8 in a 52.8-foot section comply with smoothness requirements, the Contractor  
9 shall provide the maximum measurement to the Engineer and a statement  
10 that corrective work is not required. Unless allowed by the Engineer,  
11 corrective work shall be taken by the Contractor for pavement identified by  
12 the Contractor or Engineer that does not meet the following requirements:  
13

- 14 1. The completed surface shall be of uniform texture, smooth, uniform  
15 as to crown and grade, and free from defects of all kinds.  
16
- 17 2. The completed surface shall not vary more than  $\frac{1}{8}$  inch from the  
18 lower edge of a 10-foot straightedge placed on the surface parallel  
19 to the centerline.  
20
- 21 3. The completed surface shall vary not more than  $\frac{1}{4}$  inch in 10 feet  
22 from the rate of transverse slope shown in the Plans.  
23

24 All corrective work shall be completed at no additional expense, including  
25 traffic control, to the Contracting Agency. Corrective work shall not begin until  
26 the concrete has reached its design strength unless allowed by the Engineer.  
27 Pavement shall be repaired by one or more of the following methods:  
28

- 29 1. Diamond grinding; repairs shall not reduce pavement thickness by  
30 more than  $\frac{1}{4}$  inch less than the thickness shown in the Plans. When  
31 required by the Engineer, the Contractor shall verify the thickness of  
32 the concrete pavement by coring. Thickness reduction due to  
33 corrective work will not be included in thickness measurements for  
34 calculating the Thickness Deficiency in Section 5-05.5(1)A.  
35
- 36 2. Removal and replacement of the cement concrete pavement.  
37
- 38 3. By other method allowed by the Engineer.  
39

40 For repairs following MRI testing the repaired area shall be checked by the  
41 Contractor with a 10-foot straightedge to ensure it no longer requires  
42 corrective work. With concurrence of the Engineer an inertial profiler may be  
43 used in place of the 10-foot straight edge.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1  
2 If correction of the roadway as listed above either will not or does not  
3 produce satisfactory results as to smoothness or serviceability the Engineer  
4 may accept the completed pavement and a credit will be calculated in  
5 accordance with Section 5-05.5. The credit will be in addition to the price  
6 adjustment for MRI. Under these circumstances, the decision whether to  
7 accept the completed pavement or to require corrective work as described  
8 above shall be vested entirely in the Engineer.  
9

10 **5-05.3(22) Repair of Defective Pavement Slabs**

11 The last sentence of the fourth paragraph is revised to read:

12  
13 All sandblasting residue shall be removed.  
14

15 **5-05.4 Measurement**

16 Item number 3 of the second paragraph is revised to read:

17  
18 3. The depth shall be determined in accordance with Section 5-05.5(1). The  
19 depth utilized to calculate the volume shall not exceed the Plan depth  
20 plus 0.04 feet.  
21

22 The third paragraph is revised to read:

23  
24 The volume of cement concrete pavement in each thickness lot shall equal  
25 the measured length × width × thickness measurement.  
26

27 The last paragraph is revised to read:

28  
29 The calculation for cement concrete compliance adjustment is the volume of  
30 concrete represented by the CPF and the Thickness deficiency adjustment.  
31

32 **5-05.5 Payment**

33 The paragraph following the Bid item "Cement Conc. Pavement", per cubic yard  
34 is supplemented with the following:

35  
36 All costs associated with performing the magnetic pulse induction thickness  
37 testing shall be included in the unit Contract price per cubic yard for "Cement  
38 Conc. Pavement".  
39

40 The Bid item "Ride Smoothness Compliance Adjustment", by calculation, and the  
41 paragraph following this bid item are revised to read:

42  
43 "Ride Smoothness Compliance Adjustment", by calculation.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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Smoothness Compliance Adjustments will be based on the requirements in Section 5-05.3(12) and the following calculations:

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.
  - 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.
  - b. 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.
2. In 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.

**Price Adjustment Schedule**

MRI for each 528 ft. section	Pay Adjustment 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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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
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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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

86	-880
87	-960
88	-1040
89	-1120
90	-1200
91	-1280
92	-1360
93	-1440
94	-1520
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

1

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 The bid item "Portland Cement Concrete Compliance Adjustment", by calculation,  
 2 and the paragraph following this bid item are revised to read:

3  
 4 "Cement Concrete Compliance Adjustment", by calculation.

5  
 6 Payment for "Cement Concrete Compliance Adjustment" will be calculated by  
 7 multiplying the unit Contract price for the cement concrete pavement, times  
 8 the volume for adjustment, times the percent of adjustment determined from  
 9 the calculated CPF and the Deficiency Adjustment listed in Section 5-  
 10 05.5(1)A.

11  
 12 **5-05.5(1) Pavement Thickness**

13 This section is revised to read:

14  
 15 Cement concrete pavement shall be constructed in accordance with the  
 16 thickness requirements in the Plans and Specifications. Tolerances allowed  
 17 for Subgrade construction and other provisions, which may affect thickness,  
 18 shall not be construed to modify such thickness requirements.

19  
 20 Thickness measurements in each lane paved shall comply with the following:

21

<b>Thickness Testing of Cement Concrete Pavement</b>	
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 <sup>1</sup>
Measurement method	AASHTO T 359
Thickness measurement performed by	Contractor, in the presence of the Engineer <sup>2</sup>
<sup>1</sup> 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. <sup>2</sup> The Contractor shall provide all equipment and materials needed to perform the testing.	

22

23 Thickness measurements shall be rounded to the nearest 0.01 foot.

24

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

28

**Table 2**

City of Mill Creek  
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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

<b>Thickness Deficiency</b>	
0.04' < Thickness Deficiency ≤ 0.06'	10
0.06' < Thickness deficiency ≤ 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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The price reduction shall be computed by multiplying the percent price reduction in Table 2 by the unit Contract price by the volume of pavement represented by the thickness test lot.

Additional cores may be taken by the Contractor to determine the limits of an area that has a thickness deficiency greater than 0.04 feet. Cores shall be taken at the approximate center of the panel. Only the panels within the limits of the deficiency area as determined by the cores will be subject to a price reduction or corrective action. The cores shall be taken in the presence of the Engineer and delivered to the Engineer for 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 the Contractor.

**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**

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

This section, including title, is revised to read:

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

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

This section is supplemented with the following new subsections:

**6-01.16 Repair of Defective Work**

**6-01.16(1) General**

When using repair procedures that are described elsewhere in the Contract Documents, the Working Drawing submittal requirements of this Section shall not apply to those repairs unless noted otherwise.

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Repair procedures for defective Work shall be submitted as Type 2  
2 Working Drawings. Type 2E Working Drawings shall be submitted when  
3 required by the Engineer. As an alternative to submitting Type 2 or 2E  
4 Working Drawings, defective Work within the limits of applicability of a  
5 pre-approved repair procedure may be repaired using that procedure.  
6 Repairs using a pre-approved repair procedure shall be submitted as a  
7 Type 1 Working Drawing.

8  
9 Pre-approved repair procedures shall consist of the following:

- 10
- 11 • The procedures listed in Section 6-01.16(2)
- 12
- 13 • For precast concrete, repair procedures in the annual plant
- 14 approval process documents that have been approved for use
- 15 by the Contracting Agency.
- 16

17 All Working Drawings for repair procedures shall include:

- 18
- 19 • A description of the defective Work including location, extent and
- 20 pictures
- 21
- 22 • Materials to be used in the repair. Repairs using manufactured
- 23 products shall include written manufacturer recommendations
- 24 for intended uses of the product, surface preparation, mixing,
- 25 aggregate extension (if applicable), ambient and surface
- 26 temperature limits, placement methods, finishing and curing.
- 27
- 28 • Construction procedures
- 29
- 30 • Plan details of the area to be repaired
- 31
- 32 • Calculations for Type 2E Working Drawings
- 33

34 Material manufacturer's instructions and recommendations shall  
35 supersede any conflicting requirements in pre-approved repair  
36 procedures.

37  
38 The Engineer shall be notified prior to performing any repair procedure  
39 and shall be given an opportunity to inspect the repair work being  
40 performed.

41

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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**6-01.16(2) Pre-Approved Repair Procedures**  
**6-01.16(2)A Concrete Spalls and Poor Consolidation (Rock Pockets, Honeycombs, Voids, etc.)**

This repair shall be limited to the following areas:

- 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
- Areas that are not underwater
- Areas that are not on precast barrier, except for the bottom 4 inches (but not to exceed 1 inch above blockouts)
- Areas that do not affect structural adequacy as determined by the Engineer.

The repair procedure is as follows:

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  $\frac{3}{4}$  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.
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  $\frac{3}{4}$  inch, but shall be reduced if necessary

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 to avoid damaging any reinforcement. For repairs on vertical  
2 surfaces, the top edge shall slope up toward the front at a 1-  
3 vertical-to-3-horizontal slope.  
4
- 5 3. Remove concrete within the repair area to a depth at least  
6 matching the cut depth at the edges. Large variations in the  
7 depth of removal within short distances shall be avoided.  
8 Roughen the concrete surface. The concrete surface should  
9 be roughened to at least Concrete Surface Profile (CSP) 5  
10 in accordance with ICRI Guideline No. 310.2R, unless a  
11 different CSP is recommended by the patching material  
12 manufacturer.  
13
- 14 4. Inspect the concrete repair surface for delaminations,  
15 debonding, microcracking and voids using hammer tapping  
16 or a chain drag. Remove any additional loose or unsound  
17 concrete in accordance with steps 1 through 3.  
18
- 19 5. Select a patching material in accordance with Section 9-  
20 20.2 that is appropriate for the repair location and thickness.  
21 The concrete patching material shall be pumpable or self-  
22 consolidating as required for the type of placement that suits  
23 the repair. The patching material shall have a minimum  
24 compressive strength at least equal to the specified  
25 compressive strength of the concrete.  
26
- 27 6. Prepare the concrete surface and reinforcing steel in  
28 accordance with the patching material manufacturer's  
29 recommendations. At a minimum, clean the concrete  
30 surfaces (including perimeter edges) and reinforcing steel  
31 using oil-free abrasive blasting or high-pressure (minimum  
32 5,000 psi) water blasting. All dirt, dust, loose particles, rust,  
33 laitance, oil, film, microcracked/bruised concrete or foreign  
34 material of any sort shall be removed. Damage to the epoxy  
35 coating on steel reinforcing bars shall be repaired in  
36 accordance with Section 6-02.3(24)H.  
37
- 38 7. Construct forms if necessary, such as for patching vertical or  
39 overhead surfaces or where patching extends to the edge or  
40 corner of a placement.  
41
- 42 8. When recommended by the patching material manufacturer,  
43 saturate the concrete in the repair area and remove any free

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 water at the concrete surface to obtain a saturated surface  
2 dry (SSD) substrate. When recommended by the patching  
3 material manufacturer, apply a primer, scrub coat or bonding  
4 agent to the existing surfaces. Epoxy bonding agents, if  
5 used, shall be Type II or Type V in accordance with Section  
6 9-26.1.  
7  
8 9. Place and consolidate the patching material in accordance  
9 with the manufacturer's recommendations. Work the  
10 material firmly into all surfaces of the repair area with  
11 sufficient pressure to achieve proper bond to the concrete.  
12  
13 10. The patching material shall be textured, cured and finished  
14 in accordance with the patching material manufacturer's  
15 recommendations and/or the requirements for the repaired  
16 component. Protect the newly placed patch from vibration in  
17 accordance with Section 6-02.3(6)D.  
18  
19 11. When the completed repair does not match the existing  
20 concrete color and will be visible to the public, a sand and  
21 cement mixture that is color matched to the existing  
22 concrete shall be rubbed, brushed, or applied to the surface  
23 of the patching material and the concrete.  
24

**6-01.10 Utilities Supported by or Attached to Bridges**

25 In the third paragraph, "Federal Standard 595" is revised to read "SAE AMS  
26 Standard 595".  
27

**6-01.12 Final Cleanup**

28 The second sentence of the first paragraph is revised to read:  
29

30 Structure decks shall be clean.  
31

32 The second paragraph is deleted.  
33

**Section 6-02, Concrete Structures**  
34  
35  
36  
37 **January 7, 2019**

**6-02.1 Description**

38 The first sentence is revised to read:  
39  
40

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1 This Work consists of the construction of all Structures (and their parts) made  
2 of portland cement or blended hydraulic cement concrete with or without  
3 reinforcement, including bridge approach slabs.

4

5 **6-02.2 Materials**

6 In the first paragraph, the references to “Portland Cement” and “Aggregates for  
7 Portland Cement Concrete” are revised to read:

8

9 Cement 9-01  
10 Aggregates for Concrete 9-03.1

11

12 **6-02.3(2) Proportioning Materials**

13 The second paragraph is revised to read:

14

15 Unless otherwise specified, the Contractor shall use Type I or II portland  
16 cement or blended hydraulic cement in all concrete as defined in Section 9-  
17 01.2(1).

18

19 **6-02.3(2)A Contractor Mix Design**

20 The last sentence of the last paragraph is revised to read:

21

22 For all other concrete, air content shall be a minimum of 4.5 percent and a  
23 maximum of 7.5 percent for all concrete placed above the finished ground  
24 line unless noted otherwise.

25

26 **6-02.3(2)A1 Contractor Mix Design for Concrete Class 4000D**

27 Item number 5 of the first paragraph is deleted.

28

29 Item number 6 of the first paragraph (after the preceding Amendment is applied)  
30 is renumbered to 5.

31

32 **6-02.3(2)B Commercial Concrete**

33 The second paragraph is revised to read:

34

35 Where concrete Class 3000 is specified for items such as, culvert headwalls,  
36 plugging culverts, concrete pipe collars, pipe anchors, monument cases,  
37 Type PPB, PS, I, FB and RM signal standards, pedestals, cabinet bases,  
38 guardrail anchors, fence post footings, sidewalks, concrete curbs, curbs and  
39 gutters, and gutters, the Contractor may use commercial concrete. If  
40 commercial concrete is used for sidewalks, concrete curbs, curbs and  
41 gutters, and gutters, it shall have a minimum cementitious material content of  
42 564 pounds per cubic yard of concrete, shall be air entrained, and the  
43 tolerances of Section 6-02.3(5)C shall apply.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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**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, semi-automatic, or automatic plant as described in Section 6-02.3(4)A.

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

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

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

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

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.

**6-02.3(6)A1 Hot Weather Protection**

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.

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.

**6-02.3(7) Vacant**

This section, including title, is revised to read:

**6-02.3(7) Tolerances**

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



AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1
- 2 Horizontal deviation of roadway crown points, cross-slope break points, and
- 3 curb, barrier or railing edges from alignment or work line:  $\pm 1.0$  inch
- 4
- 5 Deviation from plane:  $\pm 0.5$  inch in 10 feet
- 6
- 7 Deviation from plane for roadway surfaces:  $\pm 0.25$  inch in 10 feet
- 8
- 9 Deviation from plumb or specified batter:  $\pm 0.5$  inch in 10 feet, but not to
- 10 exceed a total of  $\pm 1.5$  inches
- 11
- 12 Vertical deviation from profile grade for roadway surfaces:  $\pm 1$  inch
- 13
- 14 Vertical deviation of top surfaces (except roadway surfaces):  $\pm 0.75$  inch
- 15
- 16 Thickness of bridge decks and other structural slabs not at grade:  $\pm 0.25$  inch
- 17
- 18 Length, width and thickness of elements such as columns, beams,
- 19 crossbeams, diaphragms, corbels, piers, abutments and walls, including
- 20 dimensions to construction joints in initial placements:  $+0.5$  inch,  $-0.25$  inch
- 21
- 22 Length, width and thickness of spread footing foundations:  $+2$  inches,  $-0.5$
- 23 inch
- 24
- 25 Horizontal location of the as-placed edge of spread footing foundations: The
- 26 greater of  $\pm 2\%$  of the horizontal dimension of the foundation perpendicular to
- 27 the edge and  $\pm 0.5$  inch. However, the tolerance shall not exceed  $\pm 2$  inches.
- 28
- 29 Location of opening, insert or embedded item at concrete surface:  $\pm 0.5$  inch
- 30
- 31 Cross-sectional dimensions of opening:  $\pm 0.5$  inch
- 32
- 33 Bridge deck, bridge approach slab, and bridge traffic barrier expansion joint
- 34 gaps with a specified temperature range, measured at a stable temperature:
- 35  $\pm 0.25$  inch
- 36
- 37 Horizontal deviation of centerline of bearing pad, oak block or other bearing
- 38 assembly:  $\pm 0.125$  inch
- 39
- 40 Horizontal deviation of centerline of supported element from centerline of
- 41 bearing pad, oak block or other bearing assembly  $\pm 0.25$  inch
- 42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Vertical deviation of top of bearing pad, oak block or other bearing assembly:  
2 ±0.125 inch

3  
4 **6-02.3(10)C Finishing Equipment**

5 The first paragraph is revised to read:

6  
7 The finishing machine shall be self-propelled and be capable of forward and  
8 reverse movement under positive control. The finishing machine shall be  
9 equipped with augers and a rotating cylindrical single or double drum screed.  
10 The finishing machine shall have the necessary adjustments to produce the  
11 required cross section, line, and grade. The finishing machine shall be  
12 capable of raising the screeds, augers, and any other parts of the finishing  
13 mechanical operation to clear the screeded surface, and returning to the  
14 specified grade under positive control. Unless otherwise allowed by the  
15 Engineer, a finishing machine manufacturer technical representative shall be  
16 on site to assist the first use of the machine on the Contract.

17  
18 The first sentence of the second paragraph is revised to read:

19  
20 For bridge deck widening of 20 feet or less, and for bridge approach slabs, or  
21 where jobsite conditions do not allow the use of the conventional  
22 configuration finishing machines, or modified conventional machines as  
23 described above; the Contractor may submit a Type 2 Working Drawing  
24 proposing the use of a hand-operated motorized power screed such as a  
25 "Texas" or "Bunyan" screed.

26  
27 **6-02.3(10)D4 Monitoring Bridge Deck Concrete Temperature After**  
28 **Placement**

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

30  
31 **6-02.3(10)D4 Vacant**

32  
33 **6-02.3(10)D5 Bridge Deck Concrete Finishing and Texturing**

34 In the third subparagraph of the first paragraph, the last sentence is revised to  
35 read:

36  
37 The Contractor shall texture the bridge deck surface to within 3-inches  
38 minimum and 24-inches maximum of the edge of concrete at expansion  
39 joints, within 1-foot minimum and 2-feet maximum of the curb line, and within  
40 3-inches minimum and 9-inches maximum of the perimeter of bridge drain  
41 assemblies.

42

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **6-02.3(10)F Bridge Approach Slab Orientation and Anchors**

2 The second to last paragraph is revised to read:

3

4 The compression seal shall be a 2½ inch wide gland and shall conform to  
5 Section 9-04.1(4).

6

7 The last paragraph is deleted.

8

9 **6-02.3(13)A Strip Seal Expansion Joint System**

10 In item number 3 of the third paragraph, "Federal Standard 595" is revised to  
11 read "SAE AMS Standard 595".

12

13 **6-02.3(13)B Compression Seal Expansion Joint System**

14 The first paragraph is revised to read:

15

16 Compression seal glands shall conform to Section 9-04.1(4) and be sized as  
17 shown in the Plans.

18

19 **6-02.3(14)C Pigmented Sealer for Concrete Surfaces**

20 This section is supplemented with the following new paragraph:

21

22 Pigmented Sealer Materials shall be a product listed in the current WSDOT  
23 Qualified Products List (QPL). If the pigmented sealer material is not listed in  
24 the current WSDOT QPL, a sample shall be submitted to the State Materials  
25 Laboratory in Tumwater for evaluation and acceptance in accordance with  
26 Section 9-08.3.

27

28 **6-02.3(20) Grout for Anchor Bolts and Bridge Bearings**

29 The second, third and fourth paragraphs are revised to read:

30

31 Grout shall be a workable mix with a viscosity that is suitable for the intended  
32 application. Grout shall not be placed outside of the manufacturer  
33 recommended range of thickness. The Contractor shall receive concurrence  
34 from the Engineer before using the grout.

35

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

39

40 Before placing grout, the substrate on which it is to be placed shall be  
41 prepared as recommended by the manufacturer to ensure proper bonding.  
42 The grout shall be cured as recommended by the manufacturer. The grout

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           may be loaded when a minimum of 4,000 psi compressive strength is  
2           attained.

3  
4           The fifth paragraph is deleted.

5  
6           **6-02.3(23) Opening to Traffic**

7           This section is supplemented with the following new paragraph:

8  
9           After curing bridge approach slabs in accordance with Section 6-02.3(11),  
10          the  
11          bridge approach slabs may be opened to traffic when a minimum  
12          compressive strength  
13          of 2,500 psi is achieved.

14  
15          **6-02.3(24)C Placing and Fastening**

16          This section is revised to read:

17  
18          The Contractor shall position reinforcing steel as the Plans require and shall  
19          ensure that the steel is set within specified tolerances. Adjustments to  
20          reinforcing details outside of specified tolerances to avoid interferences and  
21          for other purposes are acceptable when approved by the Engineer.

22  
23          When spacing between bars is 1 foot or more, they shall be tied at all  
24          intersections. When spacing is less than 1 foot, every other intersection shall  
25          be tied. If the Plans require bundled bars, they shall be tied together with  
26          wires at least every 6 feet. All epoxy-coated bars in the top mat of the bridge  
27          deck shall be tied at all intersections, however they may be tied at alternate  
28          intersections when spacing is less than 1 foot in each direction and they are  
29          supported by continuous supports meeting all other requirements of supports  
30          for epoxy-coated bars. Other epoxy-coated bars shall also be tied at all  
31          intersections, but shall be tied at alternate intersections when spacing is less  
32          than 1 foot in each direction. Wire used for tying epoxy-coated reinforcing  
33          steel shall be plastic coated. **Tack welding is not permitted on reinforcing**  
34          **steel.**

35  
36          Abrupt bends in the steel are permitted only when one steel member bends  
37          around another. Vertical stirrups shall pass around main reinforcement or be  
38          firmly attached to it.

39  
40          For slip-formed concrete, the reinforcing steel bars shall be tied at all  
41          intersections and cross braced to keep the cage from moving during  
42          concrete placement. Cross bracing shall be with additional reinforcing steel.  
43          Cross bracing shall be placed both longitudinally and transversely.

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

Precast concrete supports (or other accepted devices) shall be used to maintain the concrete coverage required by the Plans. The precast concrete supports shall:

1. Have a bearing surface measuring not greater than 2 inches in either dimension, and
2. Have a compressive strength equal to or greater than that of the concrete in which they are embedded.

In slabs, each precast concrete support shall have either: (1) a grooved top that will hold the reinforcing bar in place, or (2) an embedded wire that protrudes and is tied to the reinforcing steel. If this wire is used around epoxy-coated bars, it shall be coated with plastic.

Precast concrete supports may be accepted based on a Manufacturer's Certificate of Compliance.

In lieu of precast concrete supports, the Contractor may use metal or all-plastic supports to hold uncoated bars. Any surface of a metal support that will not be covered by at least 1/2 inch of concrete shall be one of the following:

1. Hot-dip galvanized after fabrication in keeping with AASHTO M232 Class D;
2. Coated with plastic firmly bonded to the metal. This plastic shall be at least 3/32 inch thick where it touches the form and shall not react chemically with the concrete when tested in the State Materials Laboratory. The plastic shall not shatter or crack at or above -5°F and shall not deform enough to expose the metal at or below 200°F; or

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           3. Stainless steel that meet the requirements of ASTM A493, Type 302.  
2           Stainless steel chair supports are not required to be galvanized or  
3           plastic coated.  
4

5           In lieu of precast concrete supports, epoxy-coated reinforcing bars may be  
6           supported by one of the following:  
7

- 8           1. Metal supports coated entirely with a dielectric material such as  
9           epoxy or plastic,  
10  
11          2. Other epoxy-coated reinforcing bars, or  
12  
13          3. All-plastic supports.  
14

15          Damaged coatings on metal bar supports shall be repaired prior to placing  
16          concrete.  
17

18          All-plastic supports shall be lightweight, non-porous, and chemically inert in  
19          concrete. All-plastic supports shall have rounded seatings, shall not deform  
20          under load during normal temperatures, and shall not shatter or crack under  
21          impact loading in cold weather. All-plastic supports shall be placed at  
22          spacings greater than 1 foot along the bar and shall have at least 25 percent  
23          of their gross place area perforated to compensate for the difference in the  
24          coefficient of thermal expansion between plastic and concrete. The shape  
25          and configuration of all-plastic supports shall permit complete concrete  
26          consolidation in and around the support.  
27

28          A “mat” is two adjacent and perpendicular layers of reinforcing steel. In  
29          bridge decks, top and bottom mats shall be supported adequately enough to  
30          hold both in their proper positions. If bar supports directly support, or are  
31          directly supported on No. 4 bars, they shall be spaced at not more than 3-  
32          foot intervals (or not more than 4-foot intervals for bars No. 5 and larger).  
33          Wire ties to girder stirrups shall not be considered as supports. To provide a  
34          rigid mat, the Contractor shall add other supports and tie wires to the top mat  
35          as needed.  
36

37          Unless noted otherwise, the minimum concrete cover for main reinforcing  
38          bars shall be:  
39

40                 3 inches to a concrete surface deposited against earth without  
41                 intervening forms.  
42



AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Concrete cover measured perpendicular to concrete surface (except for  
2 the top surface of bridge decks, bridge approach slabs and other  
3 roadway surfaces): ±0.25 inch  
4

5 Concrete cover measured perpendicular to concrete surface for the top  
6 surface of bridge decks, bridge approach slabs and other roadway  
7 surfaces: +0.25 inch, -0 inch  
8

9 Before placing any concrete, the Contractor shall:

- 10
- 11 1. Clean all mortar from reinforcement, and
  - 12
  - 13 2. Obtain the Engineer's permission to place concrete after the  
14 Engineer has inspected the placement of the reinforcing steel. (Any  
15 concrete placed without the Engineer's permission shall be rejected  
16 and removed.)  
17

18 **6-02.3(25)H Finishing**

19 The last paragraph is revised to read:  
20

21 The Contractor may repair defects in prestressed concrete girders in  
22 accordance with Section 6-01.16.  
23

24 **6-02.3(25)I Fabrication Tolerances**

25 Item number 12 of the first paragraph is revised to read:  
26

27 12. Stirrup Projection from Top of Girder:

28 Wide flange thin deck and slab girders: ± ½ inch  
29

30 All other girders: ± ¾ inch  
31  
32

33 **6-02.3(27) Concrete for Precast Units**

34 The last sentence of the first paragraph is revised to read:  
35

36 Type III portland cement or blended hydraulic cement is permitted to be used  
37 in precast concrete units.  
38

39 **6-02.3(28)B Casting**

40 In the second paragraph, the reference to Section 6-02.3(25)B is revised to read  
41 Section 6-02.3(25)C.  
42



AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1    **6-02.3(28)D Contractors Control Strength**
- 2    In the first paragraph, “WSDOT FOP for AASHTO T 23” is revised to read “FOP
- 3    for AASHTO T 23”.
- 4
- 5    **6-02.3(28)E Finishing**
- 6    This section is supplemented with the following:
- 7
- 8        The Contractor may repair defects in precast panels in accordance with
- 9        Section 6-01.16.
- 10
- 11   **Section 6-03, Steel Structures**
- 12   **January 7, 2019**
- 13    **6-03.2 Materials**
- 14    In the first paragraph, the material reference for Paints is revised to read:
- 15
- 16        Paints and Related Materials        9-08
- 17
- 18    **6-03.3(25)A3 Ultrasonic Inspection**
- 19    The first paragraph (up until the colon) is revised to read:
- 20
- 21        Complete penetration groove welds on plates 5/16 inch and thicker in the
- 22        following welded assemblies or Structures shall be 100 percent ultrasonically
- 23        inspected:
- 24
- 25    **6-03.3(33) Bolted Connections**
- 26    The first paragraph is supplemented with the following:
- 27
- 28        After final tightening of the fastener components, the threads of the bolts
- 29        shall at a minimum be flush with the end of the nut.
- 30
- 31    The following is inserted after the third sentence of the fourth paragraph:
- 32
- 33        When galvanized bolts are specified, tension-control galvanized bolts are not
- 34        permitted.
- 35
- 36    **Section 6-05, Piling**
- 37    **January 2, 2018**
- 38    **6-05.3(9)A Pile Driving Equipment Approval**
- 39    The fourth sentence of the second paragraph is revised to read:
- 40

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 For prestressed concrete piles, the allowable driving stress in kips per  
2 square inch shall be  $0.095 \cdot \sqrt{f'_c}$  plus prestress in tension, and  $0.85f'_c$  minus  
3 prestress in compression, where  $f'_c$  is the concrete compressive strength in  
4 kips per square inch.

5  
6 **Section 6-07, Painting**  
7 **January 7, 2019**

8 **6-07.1 Description**  
9 The first sentence is revised to read:

10  
11 This work consists of containment, surface preparation, shielding adjacent  
12 areas from work, testing and disposing of debris, furnishing and applying  
13 paint, and cleaning up after painting is completed.

14  
15 **6-07.2 Materials**  
16 The material reference for Paint is revised to read:

17  
18 Paint and Related Materials 9-08

19  
20 **6-07.3(1)A Work Force Qualifications for Shop Application of Paint**

21 This section is supplemented with the following new sentence:

22  
23 The work force may be accepted based on the approved facility.

24  
25 **6-07.3(1)B Work Force Qualifications for Field Application of Paint**

26 The first two paragraphs are revised to read:

27  
28 The Contractor preparing the surface and applying the paint shall be certified  
29 under SSPC-QP 1 or NACE International Institute Contractor Accreditation  
30 Program (NIICAP) AS 1.

31  
32 The Contractor removing and otherwise disturbing existing paint containing  
33 lead and other hazardous materials shall be certified under SSPC-QP 2,  
34 Category A or NIICAP AS 2.

35  
36 The third paragraph (up until the colon) is revised to read:

37  
38 In lieu of the above SSPC or NIICAP certifications, the Contractor performing  
39 the specified work shall complete both of the following actions:

40  
41 Item number 2 of the third paragraph is revised to read:

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1           2. The Contractor's quality control inspector(s) for the project shall be  
2           NACE-certified CIP Level 3 or SSPC Protective Coating Inspector (PCI)  
3           Level 3.  
4

5           **6-07.3(2) Submittals**

6           The first paragraph is supplemented with the following:  
7

- 8           Each component of the plan shall identify the specification section it  
9           represents.  
10

11           **6-07.3(2)B Contractor's Quality Control Program Submittal Component**

12           The numbered list in the first paragraph is revised to read:  
13

- 14           1. Description of the inspection procedures, tools, techniques and the  
15           acceptance criteria for all phases of work.  
16  
17           2. Procedure for implementation of corrective action for non-conformance  
18           work.  
19  
20           3. The paint system manufacturer's recommended methods of preventing  
21           defects.  
22  
23           4. The Contractor's frequency of quality control inspection for each phase  
24           of work.  
25  
26           5. Example of each completed form(s) of the daily quality control report  
27           used to document the inspection work and tests performed by the  
28           Contractor's quality control personnel.  
29

30           **6-07.3(2)C Paint System Manufacturer and Paint System Information**  
31           **Submittal Component**

32           Item number 1 is revised to read:  
33

- 34           1. Product data sheets and Safety Data Sheets (SDS) on the paint  
35           materials, paint preparation, and paint application, as specified by the  
36           paint manufacturer, including:  
37  
38           a. All application instructions, including the mixing and thinning  
39           directions.  
40  
41           b. Recommended spray nozzles and pressures.  
42  
43           c. Minimum and maximum drying time between coats.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1
- 2 d. Restrictions on temperature and humidity.
- 3
- 4 e. Repair procedures for shop and field applied coatings.
- 5
- 6 f. Maximum dry film thickness for each coat.
- 7
- 8 g. Minimum wet film thickness for each coat to achieve the specified
- 9 minimum dry film thickness.
- 10

**6-07.3(2)D Hazardous Waste Containment, Collection, Testing, and Disposal Submittal Component**

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

The hazardous waste containment, collection, testing, and disposal shall meet all Federal and State requirements, and the submittal component of the painting plan shall include the following:

**6-07.3(2)E Cleaning and Surface Preparation Submittal Component**

Item 1(b) of the first paragraph is revised to read::

- b. Type, manufacturer, and brand of abrasive blast material and all associated additives, including Safety Data Sheets (SDS).

**6-07.3(3)B Quality Control and Quality Assurance for Field Application of Paint**

The last sentence of the first paragraph (excluding the numbered list) is revised to read:

The Contractor's quality control operations shall include a minimum monitoring and documenting the following for each working day:

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

- 1. Environmental conditions for painting in accordance with ASTM E 337.

Item number 4 in the fourth paragraph is revised to read:

- 4. Pictorial of surface preparation guides in accordance with SSPC-VIS 1, 3, 4, and 5.

Item number 5 in the fourth paragraph is revised to read:

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           5. Surface profile by Keanne-Tator comparator in accordance with ASTM D  
2           4417 and SSPC PA17.

3  
4           **6-07.3(4) Paint System Manufacturer’s Technical Representative**

5           This section is revised to read:

6  
7           The paint system manufacturer’s representative shall be present at the  
8           jobsite for the pre-painting conference and for the first day of paint  
9           application, and shall be available to the Contractor and Contracting Agency  
10          for consultation for the full project duration.

11  
12          **6-07.3(5) Pre-Painting Conference**

13          The second paragraph is revised to read:

14  
15          If the Contractor’s key personnel change between any work operations, an  
16          additional conference shall be held if requested by the Engineer.

17  
18          **6-07.3(6)A Paint Containers**

19          In item number 2 of the first paragraph, “Federal Standard 595” is revised to read  
20          “SAE AMS Standard 595”.

21  
22          **6-07.3(6)B Paint Storage**

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

24  
25          2. The Contractor shall monitor and document daily the paint material  
26          storage facility with a high-low recording thermometer device.

27  
28          **6-07.3(7) Paint Sampling and Testing**

29          The first two paragraphs are revised to read:

30  
31          The Contractor shall provide the Engineer 1 quart of each paint representing  
32          each lot. Samples shall be accompanied with a Safety Data Sheet.

33  
34          If the quantity of paint required for each component of the paint system for  
35          the entire project is 20 gallons or less, then the paint system components will  
36          be accepted as specified in Section 9-08.1(7).

37  
38          **6-07.3(8)A Paint Film Thickness Measurement Gages**

39          The first paragraph is revised to read:

40  
41          Paint dry film thickness measurements shall be performed with either a Type  
42          1 pull-off gage or a Type 2 electronic gage as specified in SSPC Paint

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Application Specification No. 2, Procedure for Determining Conformance to  
2 Dry Coating Thickness Requirements.

3  
4 **6-07.3(9) Painting New Steel Structures**

5 The last sentence of the second paragraph is revised to read:

6  
7 Welded shear connectors are not required to painted.

8  
9 The last paragraph is revised to read:

10  
11 Temporary attachments or supports for scaffolding, containment or forms  
12 shall not damage the paint system.

13  
14 **6-07.3(9)A Paint System**

15 The first paragraph is revised to read:

16  
17 The paint system applied to new steel surfaces shall consist of the following:

18  
19 Option 1 (component based paint system):

20  
21 Primer Coat – Inorganic Zinc Rich 9-08.1(2)C  
22 Intermediate Coat – Moisture Cured Polyurethane 9-08.1(2)G  
23 Intermediate Stripe Coat – Moisture Cured Polyurethane 9-  
24 08.1(2)G  
25 Top Coat – Moisture Cured Polyurethane 9-08.1(2)H

26  
27 Option 2 (performance based paint system):

28  
29 Primer Coat – Inorganic Zinc Rich 9-08.1(2)M  
30 Intermediate Coat – Epoxy 9-08.1(2)M  
31 Intermediate Stripe Coat – Epoxy 9-08.1(2)M  
32 Top Coat – Polyurethane 9-08.1(2)M

33  
34 The following new paragraph is inserted after the first paragraph:

35  
36 Paints and related materials shall be products listed in the current WSDOT  
37 Qualified Products List (QPL). Component based paint systems shall be  
38 listed on the QPL in the applicable sections of Section 9-08. Performance  
39 based systems shall be listed on the current Northeast Protective Coatings  
40 Committee (NEPCOAT) Qualified Products List “A” as listed on the WSDOT  
41 QPL in Section 9-08.1(2)M. If the paint and related materials for the  
42 component based system is not listed in the current WSDOT QPL, a sample

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 shall be submitted to the State Materials Laboratory in Tumwater for  
2 evaluation and acceptance in accordance with Section 9-08.

3

4 **6-07.3(9)C Mixing and Thinning Paint**

5 This section is revised to read:

6

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

16

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

26

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

34

35 When recommended by the manufacturer, the Contractor shall constantly  
36 agitate paint during application by use of paint pots equipped with  
37 mechanical agitators.

38

39 The Contractor shall strain all paint after mixing to remove undesirable  
40 matter, but without removing the pigment or metallic powder.

41

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Paint shall be stored and mixed in a secure, contained location to eliminate  
2 the potential for spills into State waters and onto the ground and highway  
3 surfaces.  
4

5 **6-07.3(9)D Coating Thickness**

6 This section is revised to read:  
7

8 Dry film thickness shall be measured in accordance with SSPC Paint  
9 Application Specification No. 2, *Procedure for Determining Conformance to*  
10 *Dry Coating Thickness Requirements*.  
11

12 The minimum dry film thickness of the primer coat shall not be less than 2.5  
13 mils.  
14

15 The minimum dry film thickness of each coat (combination of intermediate  
16 and intermediate stripe, and top) shall be not less than 3.0 mils.  
17

18 The dry film thickness of each coat shall not be thicker than the paint  
19 manufacturer's recommended maximum thickness.  
20

21 The minimum wet film thickness of each coat shall be specified by the paint  
22 manufacturer to achieve the minimum dry film thickness.  
23

24 Film thickness, wet and dry, will be measured by gages conforming to  
25 Section 6-07.3(8)A.  
26

27 Wet measurements will be taken immediately after the paint is applied in  
28 accordance with ASTM D4414. Dry measurements will be taken after the  
29 coating is dry and hard in accordance with SSPC Paint Application  
30 Specification No. 2.  
31

32 Each painter shall be equipped with wet film thickness gages and shall be  
33 responsible for performing frequent checks of the paint film thickness  
34 throughout application.  
35

36 Coating thickness measurements may be made by the Engineer after the  
37 application of each coat and before the application of the succeeding coat. In  
38 addition, the Engineer may inspect for uniform and complete coverage and  
39 appearance. One hundred percent of all thickness measurements shall meet  
40 or exceed the minimum wet film thickness. In areas where wet film thickness  
41 measurements are impractical, dry film thickness measurements may be  
42 made. If a question arises about an individual coat's thickness or coverage, it  
43 may be verified by the use of a Tooke gage in accordance with ASTM D4138.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1  
2 If the specified number of coats does not produce a combined dry film  
3 thickness of at least the sum of the thicknesses required per coat, if an  
4 individual coat does not meet the minimum thickness, or if visual inspection  
5 shows incomplete coverage, the coating system will be rejected and the  
6 Contractor shall discontinue painting and surface preparation operations and  
7 shall submit a Type 2 Working Drawing of the repair proposal. The repair  
8 proposal shall include documentation demonstrating the cause of the less-  
9 than-minimum thickness, along with physical test results, as necessary, and  
10 modifications to Work methods to prevent similar results. The Contractor  
11 shall not resume painting or surface preparation operations until receiving  
12 the Engineer's acceptance of the completed repair.  
13

14 **6-07.3(9)E Surface Temperature Requirements Prior to Application of Paint**

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

16  
17 **6-07.3(9)E Environmental Condition Requirements Prior to Application**  
18 **of Paint**

19 Paint shall be applied only during periods when:

- 20  
21 1. Air and steel temperatures are in accordance with the paint  
22 manufacturer's recommendations but in no case less than 35°F nor  
23 greater than 115°F.  
24  
25 2. Steel surface temperature is a minimum of 5°F above the dew point.  
26  
27 3. Steel surface is not wet.  
28  
29 4. Relative humidity is within the manufacturer's recommended range.  
30  
31 5. The anticipated ambient temperature will remain above 35°F or the  
32 manufacturer's minimum temperature, whichever is greater, during  
33 the paint drying and curing period.  
34

35 Application will not be allowed if conditions are not favorable for proper  
36 application and performance of the paint.  
37

38 Paint shall not be applied when weather conditions are unfavorable to proper  
39 curing. If a paint system manufacturer's recommendations allow for  
40 application of a paint under environmental conditions other than those  
41 specified, the Contractor shall submit a Type 2 Working Drawing consisting  
42 of a letter from the paint manufacturer specifying the environmental  
43 conditions under which the paint can be applied. Application of paint under

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 environmental conditions other than those specified in this section will not be  
2 allowed without the Engineer's concurrence.

3  
4  
5 **6-07.3(9)F Shop Surface Cleaning and Preparation**

6 The last sentence is revised to read:

7  
8 The entire steel surface to be painted, including surfaces specified in Section  
9 6-07.3(9)G to receive a mist coat of primer, shall be cleaned to a near white  
10 condition in accordance with SSPC-SP 10, *Near-white Metal Blast Cleaning*,  
11 and shall be in this condition immediately prior to paint application.

12  
13 **6-07.3(9)G Application of Shop Primer Coat**

14 The first paragraph is supplemented with the following:

15  
16 Repairs of the shop primer coat shall be prepared in accordance with the  
17 painting plan. Shop primer coat repair paint shall be selected from the  
18 approved component based or performance based paint system in  
19 accordance with Section 6-07.3(10)H.

20  
21 **6-07.3(9)H Containment for Field Coating**

22 This section is revised to read:

23  
24 The Contractor shall use a containment system in accordance with Section  
25 6-07.3(10)A for surface preparation and prime coating of all uncoated areas  
26 remaining, including bolts, nuts, washers, and splice plates.

27  
28 During painting operations of the intermediate, stripe and top coats the  
29 Contractor shall furnish, install, and maintain drip tarps below the areas to be  
30 painted to contain all spilled paint, buckets, brushes, and other deleterious  
31 material, and prevent such materials from reaching the environment below or  
32 adjacent to the structure being painted. Drip tarps shall be absorbent  
33 material and hung to minimize puddling. The Contractor shall evaluate the  
34 project-specific conditions to determine the specific type and extent of  
35 containment needed to control the paint emissions and shall submit a  
36 containment plan in accordance with Section 6-07.3(2).

37  
38 **6-07.3(9)I Application of Field Coatings**

39 This section is revised to read:

40  
41 An on-site supervisor shall be present for each work shift at the bridge site.

42

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1        Upon completion of erection Work, all uncoated or damaged areas  
2        remaining, including bolts, nuts, washers, and splice plates, shall be  
3        prepared in accordance with Section 6-07.3(9)F, followed by a field primer  
4        coat of a zinc-rich primer and final coats of paint selected from the approved  
5        component or performance based paint system in accordance with Section  
6        6-07.3(10)H. . The intermediate, intermediate stripe, and top coats shall be  
7        applied in accordance with the manufacturer’s written recommendations.

8  
9        Upon completion of erection Work, welds for steel column jackets may be  
10       prepared in accordance with SSPC-SP 15, Commercial Grade Power Tool  
11       Cleaning.

12  
13       The minimum drying time between coats shall be as shown in the product  
14       data sheets, but not less than 12 hours. The Contractor shall determine  
15       whether the paint has cured sufficiently for proper application of succeeding  
16       coats.

17  
18       The maximum time between intermediate and top coats shall be in  
19       accordance with the manufacturer’s written recommendations. If the  
20       maximum time between coats is exceeded, all newly coated surfaces shall  
21       be prepared to SSPC-SP 7, *Brush-off Blast Cleaning*, and shall be repainted  
22       with the same paint that was cleaned, at no additional cost to the Contracting  
23       Agency.

24  
25       Each coat shall be applied in a uniform layer, completely covering the  
26       preceding coat. The Contractor shall correct runs, sags, skips, or other  
27       deficiencies before application of succeeding coats. Such corrective work  
28       may require re-cleaning, application of additional paint, or other means as  
29       determined by the Engineer, at no additional cost to the Contracting Agency.

30  
31       Dry film thickness measurements will be made in accordance with Section 6-  
32       07.3(9)D.

33  
34       All paint damage that occurs shall be repaired in accordance with the  
35       manufacturer’s written recommendations. On bare areas or areas of  
36       insufficient primer thickness, the repair shall include field-applied zinc-rich  
37       primer and the final coats of paint selected from the approved component or  
38       performance based paint system in accordance with Section 6-07.3(10)H.  
39       On areas where the primer is at least equal to the minimum required dry film  
40       thickness, the repair shall include the application of the final two coats of the  
41       paint system. All paint repair operations shall be performed by the Contractor  
42       at no additional cost or time to the Contracting Agency.

43

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **6-07.3(10)A Containment**

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

3

4 Emissions shall be assessed by Visible Emission Observations (Method A) in  
5 SSPC Technology Update No. 7, *Conducting Ambient Air, Soil, and Water*  
6 *Sampling of Surface Preparation and Paint Disturbance Activities*, Section  
7 6.2 and shall be limited to the Level A Acceptance Criteria Option Level 0  
8 Emissions standard.

9

10 **6-07.3(10)D Surface Preparation Prior to Overcoat Painting**

11 The first paragraph is revised to read:

12

13 The Contractor shall remove any visible oil, grease, and road tar in  
14 accordance with SSPC-SP 1, *Solvent Cleaning*.

15

16 The second paragraph is revised to read:

17

18 Following any preparation by SSPC-SP1, all steel surfaces to be painted  
19 shall be prepared in accordance with SSPC-SP 7, *Brush-off Blast Cleaning*.  
20 Surfaces inaccessible to brush-off blast shall be prepared in accordance with  
21 SSPC-SP 3, *Power Tool Cleaning*, as allowed by the Engineer.

22

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

24

25 Following brush-off blast cleaning, the Contractor shall perform spot abrasive  
26 blast cleaning in accordance with SSPC-SP 6, *Commercial Blast Cleaning*.

27

28 The second to last sentence of the third paragraph is revised to read:

29

30 For small areas, as allowed by the Engineer, the Contractor may substitute  
31 cleaning in accordance with SSPC-SP 15, *Commercial Grade Power Tool*  
32 *Cleaning*.

33

34 **6-07.3(10)G Treatment of Pack and Rust Gaps**

35 The second paragraph is revised to read:

36

37 Pack rust forming a gap between steel surfaces of  $\frac{1}{16}$  to  $\frac{1}{4}$  inch shall be  
38 cleaned to a depth of at least one half of the gap width. The gaps shall be  
39 cleaned and prepared in accordance with SSPC-SP6. The cleaned gap shall  
40 be treated with rust penetrating sealer, prime coated, and then caulked to  
41 form a watertight seal along the top edge and the two sides of the steel  
42 pieces involved, using the rust penetrating sealer and caulk as accepted by

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 the Engineer. The bottom edge or lowest edge of the steel pieces involved  
2 shall not be caulked.

3  
4 The third paragraph is supplemented with the following:

5  
6 Caulk shall be a single-component urethane sealant conforming to Section 9-  
7 08.7.

8  
9 The fifth paragraph is revised to read:

10  
11 At locations where gaps between steel surfaces exceed ¼ inch, the  
12 Contractor shall clean and prepare the gap in accordance SSPC-SP6, apply  
13 the rust penetrating sealer, apply the prime coat, and then fill the gap with  
14 foam backer rod material as accepted by the Engineer. The foam backer rod  
15 material shall be of sufficient diameter to fill the crevice or gap. The  
16 Contractor shall apply caulk over the foam backer rod material to form a  
17 watertight seal.

18  
19 This section is supplemented with the following new paragraph:

20  
21 Caulk and backer rod, if needed, shall be placed prior to applying the top  
22 coat. The Contractor, with the concurrence of the Engineer, may apply the  
23 rust penetrating sealer after application of the prime coat provided the primer  
24 is removed in the areas to be sealed. The areas to be sealed shall be re-  
25 cleaned and re-prepared in accordance with SSPC-SP6.

26  
27 **6-07.3(10)H Paint System**

28 The first paragraph is revised to read:

29  
30 The paint system applied to existing steel surfaces shall consist of the  
31 following five-coat system:

32  
33 Option 1 (component based system):

- 34  
35 Primer Coat – Zinc-filled Moisture Cured Polyurethane 9-08.1(2)F  
36 Primer Stripe Coat - Moisture Cured Polyurethane 9-08.1(2)F  
37 Intermediate Coat - Moisture Cured Polyurethane 9-08.1(2)G  
38 Intermediate Stripe Coat - Moisture Cured Polyurethane 9-  
39 08.1(2)G  
40 Top Coat - Moisture Cured Polyurethane 9-08.1(2)H

41  
42 Option 2 (performance based system):

43

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1	Primer Coat – Zinc-rich Epoxy	9-08.1(2)N
2	Primer Stripe Coat – Epoxy	9-08.1(2)N
3	Intermediate Coat – Epoxy	9-08.1(2)N
4	Intermediate Stripe Coat – Epoxy	9-08.1(2)N
5	Top Coat – Polyurethane	9-08.1(2)N

6  
7 The following new paragraph is inserted after the first paragraph:

8  
9 Paints and related materials shall be a product listed in the current WSDOT  
10 Qualified Products List (QPL). Component based paint systems shall be  
11 listed on the QPL in the applicable sections of Section 9-08. Performance  
12 based systems shall be listed on the current Northeast Protective Coatings  
13 Committee (NEPCOAT) Qualified Products List “B” as listed on the WSDOT  
14 QPL in Section 9-08.1(2)N. If the paint and related material for the  
15 component based system is not listed in the current WSDOT QPL, a sample  
16 shall be submitted to the State Materials Laboratory in Tumwater for  
17 evaluation and acceptance in accordance with Section 9-08.

18  
19 **6-07.3(10)J Mixing and Thinning Paint**

20 This section is revised to read:

21  
22 Mixing and thinning paint shall be in accordance with Section 6-07.3(9)C.

23  
24 **6-07.3(10)K Coating Thickness**

25 This section is revised to read:

26  
27 Coating thickness shall be in accordance with Section 6-07.3(9)D except the  
28 minimum dry film thickness of each coat (combination of primer and primer  
29 stripe, combination of intermediate and intermediate stripe, and top) shall not  
30 be less than 3.0 mils.

31  
32 **6-07.3(10)L Environmental Condition Requirements Prior to Application of  
33 Paint**

34 This section is revised to read:

35  
36 Environmental conditions shall be in accordance with Section 6-07.3(9)E.

37  
38 **6-07.3(10)M Steel Surface Condition Requirements Prior to Application of  
39 Paint**

40 The third paragraph is revised to read:

41  
42 Edges of existing paint shall be feathered in accordance with SSPC-PA 1,  
43 *Shop, Field, and Maintenance Coating of Metals*, Note 15.20.

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

The third sentence is revised to read:

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

**6-07.3(10)O Applying Field Coatings**

The second to last paragraph is revised to read:

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 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.

**6-07.3(10)P Field Coating Repair**

The second sentence is revised to read:

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.

**6-07.3(11)A Painting of Galvanized Surfaces**

This section is revised to read:

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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 minimum adhesion. A minimum of 3 successful tests shall be performed on  
2 the galvanized surface prepared and painted using the same methods and  
3 materials to be used on the galvanized bolts, nuts and washers in the field.  
4

5 **6-07.3(11)A2 Paint Coat Materials**

6 This section is revised to read:

7  
8 The Contractor shall paint the dry surface as follows:  
9

- 10 1. The first coat over a galvanized surface shall be an epoxy polyamide  
11 conforming to Section 9-08.1(2)E . In the case of galvanized bolts  
12 used for replacement of deteriorated existing rivets and for small  
13 surface areas less than or equal to one square foot, an intermediate  
14 moisture cured polyurethane conforming to Section 9-08.1(2)G may  
15 be used as a first coat. In both cases the first coat shall be  
16 compatible with galvanizing and as recommended by the top coat  
17 manufacturer.  
18
- 19 2. The second coat shall be a top coat moisture cured aliphatic  
20 polyurethane conforming to Section 9-08.1(2)H or a top coat  
21 polyurethane conforming to Section 6-07.3(10)H Option 2  
22 NEPCOAT performance based paint specification compatible with  
23 the first coat as recommended by the manufacturer.  
24

25 Each coat shall be dry before the next coat is applied. All coats applied in the  
26 shop shall be dried hard before shipment.  
27

28 **6-07.3(11)B Powder Coating of Galvanized Surfaces**

29 This section is revised to read:

30  
31 Powder coating of galvanized surfaces shall consist of the following coats:  
32

- 33 1. The first coat shall be an epoxy powder primer coat conforming to  
34 Section 9-08.2.  
35
- 36 2. The second coat shall be a polyester finish coat conforming to  
37 Section 9-08.2.  
38

39 **6-07.3(11)B3 Galvanized Surface Cleaning and Preparation**

40 The first three paragraphs are revised to read:  
41

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1 Galvanized surfaces receiving the powder coating shall be cleaned and  
2 prepared for coating in accordance with ASTM D 7803, and the project-  
3 specific powder coating plan.  
4

5 Assemblies conforming to the ASTM D 7803 definition for newly galvanized  
6 steel shall receive surface smoothing and surface cleaning in accordance  
7 with ASTM D 7803, Section 5, and surface preparation in accordance with  
8 ASTM D 7803, Section 5.1.3.  
9

10 Assemblies conforming to the ASTM D 7803 definition for partially weathered  
11 galvanized steel shall be checked and prepared in accordance with ASTM D  
12 7803, Section 6, before then receiving surface smoothing and surface  
13 cleaning in accordance with ASTM D 7803, Section 5, and surface  
14 preparation in accordance with ASTM D 7803, Section 5.1.3.  
15

16 The fourth paragraph (up until the colon) is revised to read:  
17

18 Assemblies conforming to the ASTM D 7803 definition for weathered  
19 galvanized steel shall be prepared in accordance with ASTM D 7803, Section  
20 7 before then receiving surface smoothing and surface cleaning in  
21 accordance with ASTM D 7803, Section 5, and surface preparation in  
22 accordance with ASTM D 7803, Section 5.3 except as follows:  
23

24 **6-07.3(11)B5 Testing**

25 Item number 4 in the first paragraph is revised to read:  
26

- 27 4. Adhesion testing in accordance with ASTM D 4541 for 600 psi minimum  
28 adhesion for the complete two-component system.  
29

30 The second sentence of the fourth paragraph is revised to read:  
31

32 Rejected assemblies shall be repaired or recoated by the Contractor, at no  
33 additional expense to the Contracting Agency, in accordance with the powder  
34 coating manufacturer's recommendation as detailed in the project-specific  
35 powder coating plan, until the assemblies satisfy the acceptance testing  
36 requirements.  
37

38 **6-07.3(12) Painting Ferry Terminal Structures**

39 This section is revised to read:  
40

41 Painting of ferry terminal Structures shall be in accordance with Section 6-  
42 07.3 as supplemented below.  
43

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 This section is supplemented with the following new subsections:  
2

3 **6-07.3(12)A Painting New Steel Ferry Terminal Structures**

4 Painting of new steel Structures shall be in accordance with Section 6-  
5 07.3(9) except that all coatings (primer, intermediate, intermediate stripe, and  
6 top) shall be applied in the shop with the following exceptions:  
7

- 8 1. Steel surfaces to be field welded.
- 9
- 10 2. Steel surfaces to be greased.
- 11
- 12 3. The length of piles designated in the Plans not requiring painting.
- 13

14 The minimum drying time between coats shall be as shown in the product  
15 data sheets, but not less than 12 hours. The Contractor shall determine  
16 whether the paint has cured sufficiently for proper application of succeeding  
17 coats.  
18

19 **6-07.3(12)A1 Paint Systems**

20 Paint systems for Structural Steel, which includes vehicle transfer spans  
21 and towers, pedestrian overhead loading structures and towers, upland  
22 structural steel and other elements as designated in the Special  
23 Provisions shall be as specified in Section 6-07.3(9)A.  
24

25 Paint systems for Piling, Landing Aids and Life Ladders shall be as  
26 specified in the Special Provisions.  
27

28 **6-07.3(12)A2 Paint Color**

29 Paint colors shall be as specified in the Special Provisions.  
30

31 **6-07.3(12)A3 Coating Thickness**

32 Coating thicknesses shall be as specified in the Special Provisions.  
33

34 **6-07.3(12)A4 Application of Field Coatings**

35 An on-site supervisor shall be present for each work shift at the project  
36 site.  
37

38 Upon completion of erection Work, all uncoated or damaged areas  
39 remaining, including bolts, nuts, washers, splice plates, and field welds  
40 shall be prepared in accordance with SSPC-SP 1, Solvent Cleaning,  
41 followed by SSPC-SP 11, *Power Tool Cleaning to Bare Metal*. Surface  
42 preparation shall be measured according to SSPC-VIS 3. SSPC-SP 11  
43 shall be performed for a minimum distance of 1 inch from the uncoated

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 or damaged area. In addition, intact shop-applied coating surrounding  
2 the area shall be abraded or sanded for a distance of 6 inches out from  
3 the properly prepared clean/bare metal areas to provide adequate  
4 roughness for application of field coatings. All sanding dust and  
5 contamination shall be removed prior to application of field coatings.  
6

7 Field applied paint for Structural Steel shall conform to Section 6-  
8 07.3(10)H, as applicable. Field applied paint for Piling, Landing Aids and  
9 Life Ladders shall be as specified in the Special Provisions.  
10

11 For areas above the tidal zone, the minimum drying time between coats  
12 shall be as shown in the product data sheets, but not less than 12 hours.  
13 For areas within the tidal zone, the minimum drying time between coats  
14 shall be as recommended by the paint system manufacturer. The  
15 Contractor shall determine whether the paint has cured sufficiently for  
16 proper application of succeeding coats.  
17

18 The maximum time between intermediate and top coats shall be in  
19 accordance with the manufacturer's written recommendations. If the  
20 maximum time between coats is exceeded, all newly coated surfaces  
21 shall be prepared to SSPC-SP 3, *Power Tool Cleaning*, and shall be  
22 repainted with the same paint that was cleaned, at no additional cost to  
23 the Contracting Agency.  
24

25 Each coat shall be applied in a uniform layer, completely covering the  
26 preceding coat. The Contractor shall correct runs, sags, skips, or other  
27 deficiencies before application of succeeding coats. Such corrective  
28 work may require re-cleaning, application of additional paint, or other  
29 means as determined by the Engineer, at no additional cost to the  
30 Contracting Agency.  
31

32 Surface preparation for underwater locations shall consist of removing all  
33 dirt, oil, grease, loose paint, loose rust, and marine growth from the area  
34 that is to be repaired. The sound paint surrounding the damaged area  
35 shall be roughened to meet the requirements of the manufacturer. Paint  
36 for underwater applications shall be as specified in the Special  
37 Provisions and shall be applied in accordance with the manufacturer's  
38 recommendations.  
39

**6-07.3(12)B Painting Existing Steel Ferry Terminal Structures**

40 Painting of existing steel structures shall be in accordance with Section 6-  
41 07.3(10) as supplemented by the following.  
42  
43

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**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.

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:

1. Galvanized and stainless steel surfaces not previously painted,
2. Non-skid surfaces,
3. Unpainted intentionally greased surfaces,
4. Equipment labels, identification plates, tags, etc.,
5. Fire and emergency containers or boxes,
6. Mechanical hardware such as hoist sheaves, hydraulic cylinders, gear boxes, wire rope, etc.

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.

The Contractor shall shut off the power prior to working around electrical equipment. The Contractor shall follow the lock-out/tag-out safety provisions of the WAC 296-803 and all other applicable safety standards.

**6-07.3(12)B2 Surface Preparation**

For applications above high water and within the tidal zone, surface preparation for overcoat painting shall be in accordance with SSPC-SP 1, *Solvent Cleaning*, followed by SSPC-SP 3, *Power Tool Cleaning*. Use of wire brushes is not allowed. 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 to clean bare steel in accordance with SSPC-SP 15, *Commercial Grade Power Tool Cleaning*. Surface preparation shall be measured according to SSPC-VIS 3. SSPC-SP 15 shall be performed for a minimum distance of 1 inch from the area exhibiting failure or visible corrosion. In addition, intact shop-applied coating surrounding the repair area shall be abraded or

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 sanded for a distance of 6 inches out from the properly prepared  
2 clean/bare metal areas to provide adequate roughness for application of  
3 repair coatings. All sanding dust and contamination shall be removed  
4 prior to application of repair coatings. Surface preparation for full paint  
5 removal shall be in accordance with Section 6-07.3(10)E except SSPC-  
6 SP 11 will be permitted as detailed in the Contractor's painting plan and  
7 as allowed by the Engineer.

8  
9 Surface preparation for underwater locations shall consist of removing all  
10 dirt, oil, grease, loose paint, loose rust, and marine growth from the area  
11 that is to be repaired. The sound paint surrounding the damaged area  
12 shall be roughened as required by the coating manufacturer.

13  
14 Removed marine growth may be released to state waters provided the  
15 marine growth is not mixed with contaminants (paint, oil, rust, etc.) and it  
16 shall not accumulate on the sea bed. All marine growth containing  
17 contaminants shall be collected for proper disposal.

18  
19 Surface preparation for the underside of bridge decks (consisting of  
20 either a steel grid system of main bars or tees and a light gauge metal  
21 form, in-filled with concrete or a corrugated light gauge metal form,  
22 infilled with concrete) shall be in accordance with SSPC-SP 2, *Hand Tool  
23 Cleaning* or SSPC-SP 3, *Power Tool Cleaning* with the intent of not  
24 causing further damage to the light gauge metal form. Following removal  
25 of any pack rust and corroded sections from the underside of the bridge  
26 deck, cleaning and flushing to remove salts and prior to applying the  
27 primer coat, the Contractor shall seal the entire underside of the deck  
28 system with rust-penetrating sealer. Damage to galvanized metal forms  
29 and/or grids shall be repaired in accordance with ASTM A 780, with the  
30 preferred method of repair using paints containing zinc dust.

31  
32 **6-07.3(12)B3 Paint Systems**

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

37  
38 Paint systems for Piling, Landing Aids, Life Ladders, underside of vehicle  
39 transfer span bridge decks, non-skid surface treated areas, and anti-  
40 graffiti coatings shall be as specified in the Special Provisions.

41  
42 **6-07.3(12)B4 Paint Color**

43 Paint colors shall be as specified in the Special Provisions.

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**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.

**6-07.3(14)B Reference Standards**

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

SSPC CS 23.00	Specification for the Application of Thermal Spray Coatings (Metallizing) of Aluminum, Zinc, and Their Alloys and Composites for the Corrosion Protection of Steel
---------------	--

**Section 6-08, Bituminous Surfacing on Structure Decks  
January 7, 2019**

**6-08.3(7)A Concrete Deck Preparation**

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

The Contractor, with the Engineer, shall inspect the exposed concrete deck to establish the extent of bridge deck repair in accordance with Section 6-09.3(6).

**6-08.3(8)A Structure Deck Preparation**

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

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Prior to applying the primer or sheet membrane, all dust and loose material  
2 shall be removed from the Structure Deck.

3  
4 6-09.AP6

5 **Section 6-09, Modified Concrete Overlays**  
6 **January 7, 2019**

7 **6-09.3 Construction Requirements**

8 This section is supplemented with the following new subsection:  
9

10 **6-09.3(15) Sealing and Texturing Concrete Overlay**

11 After the requirements for checking for bond have been met, all joints and  
12 visible cracks shall be filled and sealed with a high molecular weight  
13 methacrylate resin (HMWM). Cracks 1/16 inch and greater in width shall  
14 receive two applications of HMWM. Immediately following the application of  
15 HMWM, the wetted surface shall be coated with sand for abrasive finish.

16  
17 After all cracks have been filled and sealed and the HMWM resin has cured,  
18 the concrete overlay surface shall receive a longitudinally sawn texture in  
19 accordance with Section 6-02.3(10)D5.

20  
21 Traffic shall not be permitted on the finished concrete until it has reached a  
22 minimum compressive strength of 3,000 psi as verified by rebound number  
23 determined in accordance with ASTM C805 and the longitudinally sawn  
24 texture is completed.

25  
26 **6-09.3(1)B Rotary Milling Machines**

27 This section is revised to read:  
28

29 Rotary milling machines used to remove an upper layer of existing concrete  
30 overlay, when present, shall have a maximum operating weight of 50,000  
31 pounds and conform to Section 6-08.3(5)B.

32  
33 **6-09.3(1)C Hydro-Demolition Machines**

34 The first sentence of this section is revised to read:  
35

36 Hydro-demolition machines shall consist of filtering and pumping units  
37 operating in conjunction with a remote-controlled robotic device, using high-  
38 velocity water jets to remove sound concrete to the nominal scarification  
39 depth shown in the Plans with a single pass of the machine, and with the  
40 simultaneous removal of deteriorated concrete.

41

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **6-09.3(1)D Shot Blasting Machines**

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

3

4 **6-09.3(1)D Vacant**

5

6 **6-09.3(1)E Air Compressor**

7 This section is revised to read:

8

9 Air compressors shall be equipped with oil traps to eliminate oil from being  
10 blown onto the bridge deck.

11

12 **6-09.3(1)J Finishing Machine**

13 This section is revised to read:

14

15 The finishing machine shall meet the requirements of Section 6-02.3(10) and  
16 the following requirements:

17

18 The finishing machine shall be equipped with augers, followed by an  
19 oscillating, vibrating screed, vibrating roller tamper, or a vibrating pan,  
20 followed by a rotating cylindrical double drum screed. The vibrating  
21 screed, roller tamper or pan shall be of sufficient length and width to  
22 properly consolidate the mixture. The vibrating frequency of the vibrating  
23 screed, roller tamper or pan shall be variable with positive control.

24

25 **6-09.3(2) Submittals**

26 Item number 1 and 2 are revised to read:

27

28 1. A Type 1 Working Drawing consisting of catalog cuts and operating  
29 parameters of the hydro-demolition machine selected by the Contractor  
30 for use in this project to scarify concrete surfaces.

31

32 2. A Type 1 Working Drawing consisting of catalog cuts, operating  
33 parameters, axle loads, and axle spacing of the rotary milling machine (if  
34 used to remove an upper layer of existing concrete overlay when  
35 present).

36

37 The first sentence of item number 3 is revised to read:

38

39 A Type 2 Working Drawing of the Runoff Water Disposal Plan.

40

41 **6-09.3(5)A General**

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

43

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1 All areas of the deck that are inaccessible to the selected scarifying machine  
2 shall be scarified to remove the concrete surface matrix to a maximum  
3 nominal scarification depth shown in the Plans by a method acceptable to  
4 the Engineer.

5  
6 This section is supplemented with the following:

7  
8 Concrete process water generated by scarifying concrete surface and  
9 removing existing concrete overlay operations shall be contained, collected,  
10 and disposed of in accordance with Section 5-01.3(11) and Section 6-  
11 09.3(5)C, and the Section 6-09.3(2) Runoff Water Disposal Plan.

12  
13 **6-09.3(5)B Testing of Hydro-Demolition and Shot Blasting Machines**

14 This section's title is revised to read:

15  
16 **Testing of Hydro-Demolition Machines**

17  
18 The second paragraph is revised to read:

19  
20 In the "sound" area of concrete, the equipment shall be programmed to  
21 remove concrete to the nominal scarification depth shown in the Plans with a  
22 single pass of the machine.

23  
24 **6-09.3(5)D Shot Blasting**

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

26  
27 **6-09.3(5)D Vacant**

28  
29 **6-09.3(5)E Rotomilling**

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

31  
32 **6-09.3(5)E Removing Existing Concrete Overlay Layer by Rotomilling**

33 When the Contractor elects to remove the upper layer of existing concrete  
34 overlay, when present, by rotomilling prior to final scarifying, the entire  
35 concrete surface of the bridge deck shall be milled to remove the surface  
36 matrix to the depth specified in the Plans with a tolerance as specified in  
37 Section 6-08.3(5)B. The operating parameters of the rotary milling machine  
38 shall be monitored in order to prevent the unnecessary removal of concrete  
39 below the specified removal depth.

40  
41 **6-09.3(6) Further Deck Preparation**

42 The first paragraph is revised to read::

43

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1           Once the lane or strip being overlaid has been cleaned of debris from  
2           scarifying, the Contractor, with the Engineer, shall perform a visual inspection  
3           of the scarified surface. The Contractor shall mark those areas of the existing  
4           bridge deck that are authorized by the Engineer for further deck preparation  
5           by the Contractor.

6  
7           Item number 4 of the second paragraph is deleted.

8  
9           The first sentence of the third paragraph is deleted.

10  
11           **6-09.3(6)A Equipment for Further Deck Preparation**

12           This section is revised to read:

13  
14           Further deck preparation shall be performed using either power driven hand  
15           tools conforming to Section 6-09.3(1)A, or hydro-demolition machines  
16           conforming to Section 6-09.3(1)C.

17  
18           **6-09.3(6)B Deck Repair Preparation**

19           The second paragraph is deleted.

20  
21           The last sentence of the second paragraph (after the preceding Amendment is  
22           applied) is revised to read:

23  
24           In no case shall the depth of a sawn vertical cut exceed  $\frac{3}{4}$  inch or to the top  
25           of the top steel reinforcing bars, whichever is less.

26  
27           The first sentence of the third to last paragraph is revised to read:

28  
29           Where existing steel reinforcing bars inside deck repair areas show  
30           deterioration greater than 20-percent section loss, the Contractor shall  
31           furnish and place steel reinforcing bars alongside the deteriorated bars in  
32           accordance with the details shown in the Standard Plans.

33  
34           The last paragraph is deleted.

35  
36           **6-09.3(7) Surface Preparation for Concrete Overlay**

37           The first seven paragraphs are deleted and replaced with the following:

38  
39           Following the completion of any required further deck preparation the entire  
40           lane or strip being overlaid shall be cleaned to be free from oil and grease,  
41           rust and other foreign material that may still be present. These materials  
42           shall be removed by detergent-cleaning or other method accepted by the  
43           Engineer followed by sandblasting.

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1  
2 After detergent cleaning and sandblasting is completed, the entire lane or  
3 strip being overlaid shall be cleaned in final preparation for placing concrete.  
4

5 Hand tool chipping, sandblasting and cleaning in areas adjacent to a lane or  
6 strip being cleaned in final preparation for placing concrete shall be  
7 discontinued when final preparation is begun. Scarifying and hand tool  
8 chipping shall remain suspended until the concrete has been placed and the  
9 requirement for curing time has been satisfied. Sandblasting and cleaning  
10 shall remain suspended for the first 24 hours of curing time after the  
11 completion of concrete placing.  
12

13 Scarification, and removal of the upper layer of concrete overlay when  
14 present, may proceed during the final cleaning and overlay placement  
15 phases of the Work on adjacent portions of the Structure so long as the  
16 scarification and concrete overlay removal operations are confined to areas  
17 which are a minimum of 100 feet away from the defined limits of the final  
18 cleaning or overlay placement in progress. If the scarification and concrete  
19 overlay removal impedes or interferes in any way with the final cleaning or  
20 overlay placement as determined by the Engineer, the scarification and  
21 concrete overlay removal Work shall be terminated immediately and the  
22 scarification and concrete overlay removal equipment removed sufficiently  
23 away from the area being prepared or overlaid to eliminate the conflict. If the  
24 grade is such that water and contaminants from the scarification and  
25 concrete overlay removal operation will flow into the area being prepared or  
26 overlaid, the scarification and concrete overlay removal operation shall be  
27 terminated and shall remain suspended for the first 24 hours of curing time  
28 after the completion of concrete placement.  
29

30 **6-09.3(11) Placing Concrete Overlay**

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

32  
33 Concrete shall not be placed when the temperature of the concrete surface is  
34 less than 45°F or greater than 75°F, and wind velocity at the construction site  
35 is in excess of 10 mph.  
36

37 **6-09.3(12) Finishing Concrete Overlay**

38 The third paragraph is deleted.

39  
40 The last paragraph is deleted.  
41

42 **6-09.3(13) Curing Concrete Overlay**

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

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1  
2 As the finishing operation progresses, the concrete shall be immediately  
3 covered with a single layer of clean, new or used, wet burlap.

4  
5 The last sentence of the second paragraph is deleted.

6  
7 The following two new paragraphs are inserted after the second paragraph:

8  
9 As an alternative to the application of burlap and fog spraying described  
10 above, the Contractor may propose a curing system using proprietary curing  
11 blankets specifically manufactured for bridge deck curing. The Contractor  
12 shall submit a Type 2 Working Drawing consisting of details of the proprietary  
13 curing blanket system, including product literature and details of how the  
14 system is to be installed and maintained.

15  
16 The wet curing regimen as described shall remain in place for a minimum of  
17 42-hours.

18  
19 The last paragraph is deleted.

20  
21 **6-09.3(14) Checking for Bond**

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

23  
24 After the requirements for curing have been met, the entire overlaid surface  
25 shall be sounded by the Contractor, in a manner accepted by and in the  
26 presence of the Engineer, to ensure total bond of the concrete to the bridge  
27 deck.

28  
29 The last sentence of the first paragraph is deleted.

30  
31 The second paragraph is deleted.

32  
33 6-10.AP6

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

35 **August 6, 2018**

36 **6-10.2 Materials**

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

38  
39 Cement 9-01

40  
41 **6-10.3(6) Placing Concrete Barrier**

42 The first two sentences of the first paragraph are revised to read:

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1  
2       Precast concrete barriers Type 2, Type 4, Type F, precast single slope  
3 barrier, and transitions shall rest on a paved foundation shaped to a uniform  
4 grade and section. The foundation surface for precast concrete barriers Type  
5 2, Type 4, Type F, precast single slope barrier, and transitions shall meet this  
6 test for uniformity: When a 10-foot straightedge is placed on the surface  
7 parallel to the centerline for the barrier, the surface shall not vary more than  
8 ¼ inch from the lower edge of the straightedge.  
9

10   **Section 6-11, Reinforced Concrete Walls**  
11   **April 2, 2018**

12   **6-11.2 Materials**

13   In the first paragraph, the reference to “Aggregates for Portland Cement  
14 Concrete” is revised to read:

15  
16       Aggregates for Concrete   9-03.1  
17

18   **Section 6-12, Noise Barrier Walls**  
19   **August 6, 2018**

20   **6-12.2 Materials**

21   In the first paragraph, the reference to “Aggregates for Portland Cement  
22 Concrete” is revised to read:

23  
24       Aggregates for Concrete   9-03.1  
25

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

27  
28       Noise Barrier Wall Access Door    9-06.17  
29

30   **6-12.3(9) Access Doors and Concrete Landing Pads**

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

32  
33       All frame and door surfaces, except stainless steel surfaces, shall be painted  
34 in accordance with Section 6-07.3(9). Primer shall be applied to all non-  
35 stainless steel surfaces. All primer coated exposed metal surfaces shall be  
36 field painted with the remaining Section 6-07.3(9)A paint system coats. The  
37 top coat, when dry, shall match the color specified in the Plans or Special  
38 Provisions.  
39

40   This section is supplemented with the following:  
41

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Access door deadbolt locks shall be capable of accepting a Best CX series  
2 core. The Contractor shall furnish and install a spring-loaded construction  
3 core lock with each lock. The Engineer will furnish the permanent Best CX  
4 series core for the Contractor to install at the conclusion of the project.  
5

6  
7 **Section 6-13, Structural Earth Walls**  
8 **August 6, 2018**

9 **6-13.2 Materials**

10 In the first paragraph, the reference to “Aggregates for Portland Cement  
11 Concrete” is revised to read:

12  
13 Aggregates for Concrete 9-03.1  
14

15 **6-13.3(4) Precast Concrete Facing Panel and Concrete Block Fabrication**

16 Item number 1 of the sixth paragraph is revised to read:

17  
18 1. Vertical dimensions shall be  $\pm \frac{1}{16}$  inch of the Plan dimension, and the  
19 rear height shall not exceed the front height.  
20

21 Item number 3 of the sixth paragraph is revised to read:

22  
23 3. All other dimensions shall be  $\pm \frac{1}{4}$  inch of the Plan dimension.  
24

25 **Section 6-14, Geosynthetic Retaining Walls**  
26 **April 2, 2018**

27 **6-14.2 Materials**

28 In the first paragraph, the references to “Portland Cement” and “Aggregates for  
29 Portland Cement Concrete” are revised to read:

30  
31 Cement 9-01  
32 Aggregates for Concrete 9-03.1  
33

34 **Section 6-15, Soil Nail Walls**  
35 **January 7, 2019**

36 **6-15.3(7) Shotcrete Facing**

37 The last paragraph is supplemented with the following:

38  
39 After final tightening of the nut, the threads of the soil nail shall at a minimum  
40 be flush with the end of the nut.  
41

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 6-16, Soldier Pile and Soldier Pile Tieback Walls**  
2 **April 2, 2018**

3 **6-16.2 Materials**

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

6  
7       Aggregates for Concrete 9-03.1  
8

9 **Section 6-18, Shotcrete Facing**  
10 **January 2, 2018**

11 **6-18.3(3) Testing**

12 In the last sentence of the first paragraph, "AASHTO T 24" is revised to read  
13 "ASTM C1604".  
14

15 **6-18.3(3)B Production Testing**

16 In the last sentence, "AASHTO T 24" is revised to read "ASTM C1604".  
17

18 **6-18.3(4) Qualifications of Contractor's Personnel**

19 In the last sentence of the second paragraph, "AASHTO T 24" is revised to read  
20 "ASTM C1604".  
21

22 **Section 6-19, Shafts**  
23 **January 7, 2019**

24 **6-19.2 Materials**

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

27  
28       Cement 9-01  
29       Aggregates for Concrete 9-03.1  
30

31 **6-19.3(1)A Shaft Construction Tolerances**

32 The last paragraph is supplemented with the following:  
33

34       The elevation of the top of the reinforcing cage for drilled shafts shall be  
35       within +6 inches and -3 inches from the elevation shown in the Plans.  
36

37 **6-19.3(2)D Nondestructive QA Testing Organization and Personnel**

38 Item number 4 in the first paragraph is revised to read:  
39

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           4. Personnel preparing test reports shall be a Professional Engineer,  
2           licensed under Title 18 RCW, State of Washington, and shall seal the  
3           report in accordance with WAC 196-23-020.  
4

5           **6-19.3(3)C Conduct of Shaft Casing Installation and Removal and Shaft**  
6           **Excavation Operations**

7           The first paragraph is supplemented with the following:  
8

9           In no case shall shaft excavation and casing placement extend below the  
10          bottom of shaft excavation as shown in the Plans.  
11

12          **6-19.3(6)E Thermal Wire and Thermal Access Point (TAPS)**

13          The third sentence of the third paragraph is revised to read:  
14

15          The thermal wire shall extend from the bottom of the reinforcement cage to  
16          the top of the shaft, with a minimum of 5-feet of slack wire provided above  
17          the top of shaft.  
18

19          The following new sentence is inserted after the third sentence of the third  
20          paragraph:  
21

22          All thermal wires in a shaft shall be equal lengths.  
23

24          **6-19.3(9)D Nondestructive QA Testing Results Submittal**

25          The last sentence of the first paragraph is revised to read:  
26

27          Results shall be a Type 2E Working Drawing presented in a written report.  
28

29          **Section 7-02, Culverts**

30          **April 2, 2018**

31          **7-02.2 Materials**

32          In the first paragraph, the references to "Portland Cement" and "Aggregates for  
33          Portland Cement Concrete" are revised to read:  
34

35                  Cement                                   9-01  
36                  Aggregates for Concrete   9-03.1  
37

38          **7-02.3(6)A4 Excavation and Bedding Preparation**

39          The first sentence of the third paragraph is revised to read:  
40

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 The bedding course shall be a 6-inch minimum thickness layer of culvert  
2 bedding material, defined as granular material either conforming to Section  
3 9-03.12(3) or to AASHTO Grading No. 57 as specified in Section 9-03.1(4)C.

4  
5 **Section 7-05, Manholes, Inlets, Catch Basins, and Drywells**  
6 **August 6, 2018**

7 **7-05.3 Construction Requirements**

8 The fourth sentence of the third paragraph is deleted.

9  
10 **Section 7-08, General Pipe Installation Requirements**  
11 **April 2, 2018**

12 **7-08.3(3) Backfilling**

13 The fifth sentence of the fourth paragraph is revised to read:

14  
15 All compaction shall be in accordance with the Compaction Control Test of  
16 Section 2-03.3(14)D except in the case that 100% Recycled Concrete  
17 Aggregate is used.

18  
19 The following new sentences are inserted after the fifth sentence of the fourth  
20 paragraph:

21  
22 When 100% Recycled Concrete Aggregate is used, the Contractor may  
23 submit a written request to use a test point evaluation for compaction  
24 acceptance. Test Point evaluation shall be performed in accordance with  
25 SOP 738.

26  
27 **Section 8-01, Erosion Control and Water Pollution Control**  
28 **April 2, 2018**

29 **8-01.1 Description**

30 This section is revised to read:

31  
32 This Work consists of furnishing, installing, maintaining, removing and  
33 disposing of best management practices (BMPs), as defined in the  
34 Washington Administrative Code (WAC) 173-201A, to manage erosion and  
35 water quality in accordance with these Specifications and as shown in the  
36 Plans or as designated by the Engineer.

37  
38 The Contracting Agency may have a National Pollution Discharge Elimination  
39 System Construction Stormwater General Permit (CSWGP) as identified in  
40 the Contract Special Provisions. The Contracting Agency may or may not  
41 transfer coverage of the CSWGP to the Contractor when a CSWGP has

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           been obtained. The Contracting Agency may not have a CSWGP for the  
2           project but may have another water quality related permit as identified in the  
3           Contract Special Provisions or the Contracting Agency may not have water  
4           quality related permits but the project is subject to applicable laws for the  
5           Work. Section 8-01 covers all of these conditions.

6

7           **8-01.2 Materials**

8           The first paragraph is revised to read:

9

10           Materials shall meet the requirements of the following sections:

11

12           Corrugated Polyethylene Drain Pipe   9-05.1(6)

13           Quarry Spalls                                   9-13

14           Erosion Control and Roadside Planting 9-14

15           Construction Geotextile                   9-33

16

17           **8-01.3(1) General**

18           This section is revised to read:

19

20           Adaptive management shall be employed throughout the duration of the  
21           project for the implementation of erosion and water pollution control permit  
22           requirements for the current condition of the project site. The adaptive  
23           management includes the selection and utilization of BMPs, scheduling of  
24           activities, prohibiting unacceptable practices, implementing maintenance  
25           procedures, and other managerial practices that when used singularly or in  
26           combination, prevent or reduce the release of pollutants to waters of the  
27           State. The adaptive management shall use the means and methods  
28           identified in this section and means and methods identified in the  
29           Washington State Department of Transportation's Temporary Erosion and  
30           Sediment Control Manual or the Washington State Department of Ecology's  
31           Stormwater Management Manuals for construction stormwater.

32

33           The Contractor shall install a high visibility fence along the site preservation  
34           lines shown in the Plans or as instructed by the Engineer.

35

36           Throughout the life of the project, the Contractor shall preserve and protect  
37           the delineated preservation area, acting immediately to repair or restore any  
38           fencing damaged or removed.

39

40           All discharges to surface waters shall comply with surface water quality  
41           standards as defined in Washington Administrative Code (WAC) Chapter  
42           173-201A. All discharges to the ground shall comply with groundwater quality  
43           standards WAC Chapter 173-200.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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The Contractor shall comply with the CSWGP when the project is covered by the CSWGP. Temporary Work, at a minimum, shall include the implementation of:

1. Sediment control measures prior to ground disturbing activities to ensure all discharges from construction areas receive treatment prior to discharging from the site.
2. Flow control measures to prevent erosive flows from developing.
3. Water management strategies and pollution prevention measures to prevent contamination of waters that will be discharged to surface waters or the ground.
4. Erosion control measures to stabilize erodible earth not being worked.
5. Maintenance of BMPs to ensure continued compliant performance.
6. Immediate corrective action if evidence suggests construction activity is not in compliance. Evidence includes sampling data, olfactory or visual evidence such as the presence of suspended sediment, turbidity, discoloration, or oil sheen in discharges.

To the degree possible, the Contractor shall coordinate this temporary Work with permanent drainage and erosion control Work the Contract requires.

Clearing, grubbing, excavation, borrow, or fill within the Right of Way shall never expose more erodible earth than as listed below:

<b>Western Washington (West of the Cascade Mountain Crest)</b>		<b>Eastern Washington (East of the Cascade Mountain Crest)</b>	
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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 The Engineer may increase or decrease the limits based on project  
 2 conditions.  
 3  
 4 Erodible earth is defined as any surface where soils, grindings, or other  
 5 materials may be capable of being displaced and transported by rain, wind,  
 6 or surface water runoff.  
 7  
 8 Erodible earth not being worked, whether at final grade or not, shall be  
 9 covered within the specified time period (see the table below), using BMPs  
 10 for erosion control.  
 11

<b>Western Washington (West of the Cascade Mountain Crest)</b>		<b>Eastern Washington (East of the Cascade Mountain Crest)</b>	
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

12  
 13 When applicable, the Contractor shall be responsible for all Work required for  
 14 compliance with the CSWGP including annual permit fees.  
 15  
 16 If the Engineer, under Section 1-08.6, orders the Work suspended, the  
 17 Contractor shall continue to comply with this division during the suspension.  
 18  
 19 Nothing in this Section shall relieve the Contractor from complying with other  
 20 Contract requirements.  
 21

22 **8-01.3(1)A Submittals**  
 23 This section's content is deleted.

24  
 25 This section is supplemented with the following new subsection:

26  
 27 **8-01.3(1)A1 Temporary Erosion and Sediment Control**  
 28 A Temporary Erosion and Sediment Control (TESC) plan consists of a  
 29 narrative section and plan sheets that meets the Washington State  
 30 Department of Ecology's Stormwater Pollution Prevention Plan (SWPPP)  
 31 requirement in the CSWGP. Abbreviated TESC plans are not required to  
 32 include plan sheets and are used on small projects that disturb soil and have  
 33 the potential to discharge but are not covered by the CSWGP. The contract  
 34 uses the term "TESC plan" to describe both TESC plans and abbreviated

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 TESC plans. When the Contracting Agency has developed a TESC plan for a  
2 Contract, the narrative is included in the appendix to the Special Provisions  
3 and the TESC plan sheets, when required, are included in the Contract  
4 Plans. The Contracting Agency TESC plan will not include off-site areas used  
5 to directly support construction activity.  
6

7 The Contractor shall either adopt the TESC Plan in the Contract or develop a  
8 new TESC Plan. If the Contractor adopts the Contracting Agency TESC Plan,  
9 the Contractor shall modify the TESC Plan to meet the Contractor's  
10 schedule, method of construction, and to include off-site areas that will be  
11 used to directly support construction activity such as equipment staging  
12 yards, material storage areas, or borrow areas. Contractor TESC Plans shall  
13 include all high visibility fence delineation shown on the Contracting Agency  
14 Contract Plans. All TESC Plans shall meet the requirements of the current  
15 edition of the WSDOT Temporary Erosion and Sediment Control Manual M  
16 3109 and be adaptively managed as needed throughout construction based  
17 on site inspections and discharge samples to maintain compliance with the  
18 CSWGP. The Contractor shall develop a schedule for implementation of the  
19 TESC work and incorporate it into the Contractor's progress schedule.  
20

21 The Contractor shall submit their TESC Plan (either the adopted plan or new  
22 plan) and implementation schedule as Type 2 Working Drawings. At the  
23 request of the Engineer, updated TESC Plans shall be submitted as Type 1  
24 Working Drawings.  
25

26 **8-01.3(1)B Erosion and Sediment Control (ESC) Lead**

27 This section is revised to read:

28  
29 The Contractor shall identify the ESC Lead at the preconstruction  
30 discussions and in the TESC Plan. The ESC Lead shall have, for the life of  
31 the Contract, a current Certificate of Training in Construction Site Erosion  
32 and Sediment Control from a course approved by the Washington State  
33 Department of Ecology. The ESC Lead must be onsite or on call at all times  
34 throughout construction. The ESC Lead shall be listed on the Emergency  
35 Contact List required under Section 1-05.13(1).  
36

37 The ESC Lead shall implement the TESC Plan. Implementation shall include,  
38 but is not limited to:

- 39  
40 1. Installing, adaptively managing, and maintaining temporary erosion  
41 and sediment control BMPs to assure continued performance of  
42 their intended function. Damaged or inadequate BMPs shall be  
43 corrected immediately.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1
- 2           2. Updating the TESC Plan to reflect current field conditions.
- 3
- 4           3. Discharge sampling and submitting Discharge Monitoring Reports
- 5           (DMRs) to the Washington State Department of Ecology in
- 6           accordance with the CSWGP.
- 7
- 8           4. Develop and maintain the Site Log Book as defined in the CSWGP.
- 9           When the Site Log Book or portion thereof is electronically
- 10           developed, the electronic documentation must be accessible onsite.
- 11           As a part of the Site Log Book, the Contractor shall develop and
- 12           maintain a tracking table to show that identified TESC compliance
- 13           issues are fully resolved within 10 calendar days. The table shall
- 14           include the date an issue was identified, a description of how it was
- 15           resolved, and the date the issue was fully resolved.
- 16

17           The ESC Lead shall also inspect all areas disturbed by construction  
18           activities, all on-site erosion and sediment control BMPs, and all stormwater  
19           discharge points at least once every calendar week and within 24-hours of  
20           runoff events in which stormwater discharges from the site. Inspections of  
21           temporarily stabilized, inactive sites may be reduced to once every calendar  
22           month. The Washington State Department of Ecology's Erosion and  
23           Sediment Control Site Inspection Form, located at  
24           [https://ecology.wa.gov/Regulations-Permits/Permits-](https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit)  
25           [certifications/Stormwater-general-permits/Construction-stormwater-permit,](https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit)  
26           shall be completed for each inspection and a copy shall be submitted to the  
27           Engineer no later than the end of the next working day following the  
28           inspection.

29

30 **8-01.3(1)C Water Management**

31 This section is supplemented with the following new subsections:

32

33 **8-01.3(1)C5 Water Management for In-Water Work Below Ordinary High**  
34 **Water Mark (OHWM)**

35 Work over surface waters of the state (defined in WAC 173-201A-010) or  
36 below the OHWM (defined in RCW 90.58.030) must comply with water  
37 quality standards for surface waters of the state of Washington.

38

39 **8-01.3(1)C6 Environmentally Acceptable Hydraulic Fluid**

40 All equipment containing hydraulic fluid that extends from a bridge deck over  
41 surface waters of the state or below the OHWM, shall be equipped with an  
42 environmentally acceptable hydraulic fluid. The fluid shall meet specific  
43 requirements for biodegradability, aquatic toxicity, and bioaccumulation in

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1 accordance with the United States Environmental Protection Agency (EPA)  
2 publication EPA800-R-11-002. Acceptance shall be in accordance with  
3 Section 1-06.3, Manufacturer's Certification of Compliance.

4  
5 The designation of environmentally acceptable hydraulic fluid does not mean  
6 fluid spills are acceptable. The Contractor shall respond to spills to land or  
7 water in accordance with the Contract.

8  
9 **8-01.3(1)C7 Turbidity Curtain**

10 All Work for the turbidity curtain shall be in accordance with the  
11 manufacturer's recommendations for the site conditions. Removal  
12 procedures shall be developed and used to minimize silt release and  
13 disturbance of silt. The Contractor shall submit a Type 2 Working Drawing,  
14 detailing product information, installation and removal procedures, equipment  
15 and workforce needs, maintenance plans, and emergency  
16 repair/replacement plans.

17  
18 Turbidity curtain materials, installation, and maintenance shall be sufficient to  
19 comply with water quality standards.

20  
21 The Contractor shall notify the Engineer 10 days in advance of removing the  
22 turbidity curtain. All components of the turbidity curtain shall be removed from  
23 the project.

24  
25 **8-01.3(1)C1 Disposal of Dewatering Water**

26 This section is revised to read:

27  
28 When uncontaminated groundwater is encountered in an excavation on a  
29 project it may be infiltrated within vegetated areas of the right of way not  
30 designated as Sensitive Areas or incorporated into an existing stormwater  
31 conveyance system at a rate that will not cause erosion or flooding in any  
32 receiving surface water.

33  
34 Alternatively, the Contractor may pursue independent disposal and treatment  
35 alternatives that do not use the stormwater conveyance system provided it is  
36 in compliance with the applicable WACs and permits.

37  
38 **8-01.3(1)C2 Process Wastewater**

39 This section is revised to read:

40  
41 Wastewater generated on-site as a byproduct of a construction process shall  
42 not be discharged to surface waters of the State. Some sources of process  
43 wastewater may be infiltrated in accordance with the CSWGP with

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 concurrence from the Engineer. Some sources of process wastewater may  
2 be disposed via independent disposal and treatment alternatives in  
3 compliance with the applicable WACs and permits.

4

5 **8-01.3(1)C3 Shaft Drilling Slurry Wastewater**

6 This section is revised to read:

7

8 Wastewater generated on-site during shaft drilling activity shall be managed  
9 and disposed of in accordance with the requirements below. No shaft drilling  
10 slurry wastewater shall be discharged to surface waters of the State. Neither  
11 the sediment nor liquid portions of the shaft drilling slurry wastewater shall be  
12 contaminated, as detectable by visible or olfactory indication (e.g., chemical  
13 sheen or smell).

14

15 1. Water-only shaft drilling slurry or water slurry with accepted  
16 flocculants may be infiltrated on-site. Flocculants used shall meet  
17 the requirements of Section 9-14.5(1) or shall be chitosan products  
18 listed as General Use Level Designation (GULD) on the Washington  
19 State Department of Ecology's stormwater treatment technologies  
20 webpage for construction treatment. Infiltration is permitted if the  
21 following requirements are met:

22

23 a. Wastewater shall have a pH of 6.5 – 8.5 prior to discharge.

24

25 b. The amount of flocculant added to the slurry shall be kept to the  
26 minimum needed to adequately settle out solids. The flocculant  
27 shall be thoroughly mixed into the slurry.

28

29 c. The slurry removed from the shaft shall be contained in a leak  
30 proof cell or tank for a minimum of 3 hours.

31

32 d. The infiltration rate shall be reduced if needed to prevent  
33 wastewater from leaving the infiltration location. The infiltration  
34 site shall be monitored regularly during infiltration activity. All  
35 wastewater discharged to the ground shall fully infiltrate and  
36 discharges shall stop before the end of each work day.

37

38 e. Drilling spoils and settled sediments remaining in the  
39 containment cell or tank shall be disposed of in accordance with  
40 Section 6-19.3(4)F.

41

42 f. Infiltration locations shall be in upland areas at least 150 feet  
43 away from surface waters, wells, on-site sewage systems,



AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 aquifer sensitive recharge areas, sole source aquifers, well head  
2 protection areas, and shall be marked on the plan sheets before  
3 the infiltration activity begins.  
4  
5 g. Prior to infiltration, the Contractor shall submit a Shaft Drilling  
6 Slurry Wastewater Management and Infiltration Plan as a Type 2  
7 Working Drawing. This Plan shall be kept on-site, adapted if  
8 needed to meet the construction requirements, and updated to  
9 reflect what is being done in the field. The Working Drawing  
10 shall include, at a minimum, the following information:  
11  
12 i. Plan sheet showing the proposed infiltration location and all  
13 surface waters, wells, on-site sewage systems, aquifer-  
14 sensitive recharge areas, sole source aquifers, and well-  
15 head protection areas within 150 feet.  
16  
17 ii. The proposed elevation of soil surface receiving the  
18 wastewater for infiltration and the anticipated phreatic  
19 surface (i.e., saturated soil).  
20  
21 iii. The source of the water used to produce the slurry.  
22  
23 iv. The estimated total volume of wastewater to be infiltrated.  
24  
25 v. The accepted flocculant to be used (if any).  
26  
27 vi. The controls or methods used to prevent surface  
28 wastewater runoff from leaving the infiltration location.  
29  
30 vii. The strategy for removing slurry wastewater from the shaft  
31 and containing the slurry wastewater once it has been  
32 removed from the shaft.  
33  
34 viii. The strategy for monitoring infiltration activity and adapting  
35 methods to ensure compliance.  
36  
37 ix. A contingency plan that can be implemented immediately if  
38 it becomes evident that the controls in place or methods  
39 being used are not adequate.  
40  
41 x. The strategy for cleaning up the infiltration location after the  
42 infiltration activity is done. Cleanup shall include stabilizing  
43 any loose sediment on the surface within the infiltration area

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1 generated as a byproduct of suspended solids in the  
2 infiltrated wastewater or soil disturbance associated with  
3 BMP placement and removal.  
4

5 2. Shaft drilling mineral slurry, synthetic slurry, or slurry with polymer  
6 additives not allowed for infiltration shall be contained and disposed  
7 of by the Contractor at an accepted disposal facility in accordance  
8 with Section 2-03.3(7)C. Spoils that have come into contact with  
9 mineral slurry shall be disposed of in accordance with Section 6-  
10 19.3(4)F.  
11

12 **8-01.3(1)C4 Management of Off-Site Water**

13 This section is revised to read:

14  
15 Prior to clearing and grubbing, the Contractor shall intercept all sources of  
16 off-site surface water and overland flow that will run-on to the project. Off-site  
17 surface water run-on shall be diverted through or around the project in a way  
18 that does not introduce construction related pollution. It shall be diverted to  
19 its preconstruction discharge location in a manner that does not increase  
20 preconstruction flow rate and velocity and protects contiguous properties and  
21 waterways from erosion. The Contractor shall submit a Type 2 Working  
22 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 Whether permanent or temporary, ponds shall be constructed before  
28 beginning other grading and excavation Work in the area that drains into that  
29 pond. Detention/retention ponds may be constructed concurrently with  
30 grading and excavation when allowed by the Engineer. Temporary  
31 conveyances shall be installed concurrently with grading in accordance with  
32 the TESC Plan so that newly graded areas drain to the pond as they are  
33 exposed.  
34

35 **8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch**

36 In the table, the second column heading is revised to read:

37  
38 **Eastern Washington<sup>1</sup>**  
39 **(East of the Cascade Mountain Crest)**  
40

41 Footnote 1 in the table is revised to read:  
42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Seeding may be allowed outside these dates when allowed or directed by  
2 the Engineer.

3  
4 **8-01.3(5) Plastic Covering**

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

6  
7 **Erosion Control** – Plastic coverings used to temporarily cover stockpiled  
8 materials, slopes or bare soils shall be installed and maintained in a way that  
9 prevents water from intruding under the plastic and prevents the plastic cover  
10 from being damaged by wind.

11  
12 **8-01.3(7) Stabilized Construction Entrance**

13 The first paragraph is revised to read:

14  
15 Temporary stabilized construction entrance shall be constructed in  
16 accordance with the *Standard Plans*, prior to construction vehicles entering  
17 the roadway from locations that generate sediment track out on the roadway.  
18 Material used for stabilized construction entrance shall be free of extraneous  
19 materials that may cause or contribute to track out.

20  
21 **8-01.3(8) Street Cleaning**

22 This section is revised to read:

23  
24 Self-propelled pickup street sweepers shall be used to remove and collect  
25 dirt and other debris from the Roadway. The street sweeper shall effectively  
26 collect these materials and prevent them from being washed or blown off the  
27 Roadway or into waters of the State. Street sweepers shall not generate  
28 fugitive dust and shall be designed and operated in compliance with  
29 applicable air quality standards. Material collected by the street sweeper  
30 shall be disposed of in accordance with Section 2-03.3(7)C.

31  
32 When allowed by the Engineer, power broom sweepers may be used in non-  
33 environmentally sensitive areas. The broom sweeper shall sweep dirt and  
34 other debris from the roadway into the work area. The swept material shall  
35 be prevented from entering or washing into waters of the State.

36  
37 Street washing with water will require the concurrence of the Engineer.

38  
39 **8-01.3(12) Compost Socks**

40 The first two sentences of the first paragraph are revised to read:

41  
42 Compost socks are used to disperse flow and sediment. Compost socks  
43 shall be installed as soon as construction will allow but before flow conditions

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 create erosive flows or discharges from the site. Compost socks shall be  
2 installed prior to any mulching or compost placement.

3  
4 **8-01.3(13) Temporary Curb**

5 The second to last sentence of the second paragraph is revised to read:

6  
7 Temporary curbs shall be a minimum of 4 inches in height.

8  
9 **8-01.3(14) Temporary Pipe Slope Drain**

10 The third and fourth paragraphs are revised to read:

11  
12 The pipe fittings shall be water tight and the pipe secured to the slope with  
13 metal posts, wood stakes, sand bags, or as allowed by the Engineer.

14  
15 The water shall be discharged to a stabilized conveyance, sediment trap,  
16 stormwater pond, rock splash pad, or vegetated strip, in a manner to prevent  
17 erosion and maintain water quality compliance.

18  
19 The last paragraph is deleted.

20  
21 **8-01.3(15) Maintenance**

22 This section is revised to read:

23  
24 Erosion and sediment control BMPs shall be maintained or adaptively  
25 managed as required by the CSWGP until the Engineer determines they are  
26 no longer needed. When deficiencies in functional performance are  
27 identified, the deficiencies shall be rectified immediately.

28  
29 The BMPs shall be inspected on the schedule outlined in Section 8-01.3(1)B  
30 for damage and sediment deposits. Damage to or undercutting of BMPs shall  
31 be repaired immediately.

32  
33 In areas where the Contractor's activities have compromised the erosion  
34 control functions of the existing grasses, the Contractor shall oversee at no  
35 additional cost to the Contracting Agency.

36  
37 The quarry spalls of construction entrances shall be refreshed, replaced, or  
38 screened to maintain voids between the spalls for collecting mud and dirt.

39  
40 Unless otherwise specified, when the depth of accumulated sediment and  
41 debris reaches approximately  $\frac{1}{3}$  the height of the BMP the deposits shall be  
42 removed. Debris or contaminated sediment shall be disposed of in

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 accordance with Section 2-03.3(7)C. Clean sediments may be stabilized on-  
2 site using BMPs as allowed by the Engineer.

3  
4 **8-01.3(16) Removal**

5 This section is revised to read:

6  
7 The Contractor shall remove all temporary BMPs, all associated hardware  
8 and associated accumulated sediment deposition from the project limits prior  
9 to Physical Completion unless otherwise allowed by the Engineer. When the  
10 temporary BMP materials are made of natural plant fibers unaltered by  
11 synthetic materials the Engineer may allow leaving the BMP in place.

12  
13 The Contractor shall remove BMPs and associated hardware in a way that  
14 minimizes soil disturbance. The Contractor shall permanently stabilize all  
15 bare and disturbed soil after removal of BMPs. If the installation and use of  
16 the erosion control BMPs have compacted or otherwise rendered the soil  
17 inhospitable to plant growth, such as construction entrances, the Contractor  
18 shall take measures to rehabilitate the soil to facilitate plant growth. This may  
19 include, but is not limited to, ripping the soil, incorporating soil amendments,  
20 or seeding with the specified seed.

21  
22 At the request of the Contractor and at the sole discretion of the Engineer the  
23 CSWGP may be transferred back to the Contracting Agency. Approval of the  
24 Transfer of Coverage request will require the following:

- 25
- 26 1. All other Work required for Contract Completion has been  
27 completed.
  - 28
  - 29 2. All Work required for compliance with the CSWGP has been  
30 completed to the maximum extent possible. This includes removal  
31 of BMPs that are no longer needed and the site has undergone all  
32 Stabilization identified for meeting the requirements of Final  
33 Stabilization in the CSWGP.
  - 34
  - 35 3. An Equitable Adjustment change order for the cost of Work that has  
36 not been completed by the Contractor.
  - 37
  - 38 4. Submittal of the Washington State Department of Ecology Transfer  
39 of Coverage form (Ecology form ECY 020-87a) to the Engineer.
  - 40

41 If the Engineer approves the transfer of coverage back to the Contracting  
42 Agency, the requirement in Section 1-07.5(3) for the Contractor's submittal of

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 the Notice of Termination form to the Washington State Department of  
2 Ecology will not apply.

3  
4 **8-01.4 Measurement**

5 This section's content is deleted and replaced with the following new  
6 subsections:

7  
8 **8-01.4(1) Lump Sum Bid for Project (No Unit Items)**

9 When the Bid Proposal contains the item "Erosion Control and Water  
10 Pollution Prevention" there will be no measurement of unit or force account  
11 items for Work defined in Section 8-01 except as described in Sections 8-  
12 01.4(3) and 8-01.4(4). Also, except as described in Section 8-01.4(3), all of  
13 Sections 8-01.4(2) and 8-01.5(2) are deleted.

14  
15 **8-01.4(2) Item Bids**

16 When the Proposal does not contain the items "Erosion Control and Water  
17 Pollution Prevention", Section 8-01.4(1) and 8-01.5(1) are deleted and the  
18 Bid Proposal will contain some or all of the following items measured as  
19 noted.

20  
21 ESC lead will be measured per day for each day that an inspection is  
22 made and a report is filed.

23  
24 Biodegradable erosion control blanket and plastic covering will be  
25 measured by the square yard along the ground slope line of surface area  
26 covered and accepted.

27  
28 Turbidity curtains will be measured by the linear foot along the ground  
29 line of the installed curtain.

30  
31 Check dams will be measured per linear foot one time only along the  
32 ground line of the completed check dam. No additional measurement will  
33 be made for check dams that are required to be rehabilitated or replaced  
34 due to wear.

35  
36 Stabilized construction entrances will be measured by the square yard  
37 by ground slope measurement for each entrance constructed.

38  
39 Tire wash facilities will be measured per each for each tire wash  
40 installed.

41  
42 Street cleaning will be measured by the hour for the actual time spent  
43 cleaning pavement, refilling with water, dumping and transport to and

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 from cleaning locations within the project limits, as authorized by the
- 2 Engineer. Time to mobilize the equipment to or from the project limits on
- 3 which street cleaning is required will not be measured.
- 4
- 5 Inlet protections will be measured per each for each initial installation at
- 6 a drainage structure.
- 7
- 8 Silt fence, gravel filter, compost berms, and wood chip berms will be
- 9 measured by the linear foot along the ground line of the completed
- 10 barrier.
- 11
- 12 Wattles and compost socks will be measured by the linear foot.
- 13
- 14 Temporary curbs will be measured by the linear foot along the ground
- 15 line of the completed installation.
- 16
- 17 Temporary pipe slope drains will be measured by the linear foot along
- 18 the flow line of the pipe.
- 19
- 20 Coir logs will be measured by the linear foot along the ground line of the
- 21 completed installation.
- 22
- 23 Outlet protections will be measured per each initial installation at an
- 24 outlet location.
- 25
- 26 Tackifiers will be measure by the acre by ground slope measurement.
- 27
- 28 **8-01.4(3) Reinstating Unit Items with Lump Sum Erosion Control and**
- 29 **Water Pollution Prevention**
- 30 The Contract Provisions may establish the project as lump sum, in
- 31 accordance with Section 8-01.4(1) and also include one or more of the items
- 32 included above in Section 8-01.4(2). When that occurs, the corresponding
- 33 measurement provision in Section 8-01.4(2) is not deleted and the Work
- 34 under that item will be measured as specified.
- 35
- 36 **8-01.4(4) Items not included with Lump Sum Erosion Control and Water**
- 37 **Pollution Prevention**
- 38 Compost blanket will be measured by the square yard by ground slope
- 39 surface area covered and accepted.
- 40
- 41 Mulching will be measured by the acre by ground slope surface area covered
- 42 and accepted.
- 43

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Seeding, fertilizing, liming, mulching, and mowing, will be measured by the  
2 acre by ground slope measurement.

3  
4 Seeding and fertilizing by hand will be measured by the square yard by  
5 ground slope measurement. No adjustment in area size will be made for the  
6 vegetation free zone around each plant.

7  
8 Fencing will be measured by the linear foot along the ground line of the  
9 completed fence.

10

11 **8-01.5 Payment**

12 This section's content is deleted and replaced with the following new  
13 subsections:

14

15 **8-01.5(1) Lump Sum Bid for Project (No Unit Items)**

16 Payment will be made for the following Bid item when it is included in the  
17 Proposal:

18

19 "Erosion Control and Water Pollution Prevention", lump sum.

20

21 The lump sum Contract price for "Erosion Control and Water Pollution  
22 Prevention" shall be full pay to perform the Work as described in Section  
23 8-01 except for costs compensated by Bid Proposal items inserted  
24 through Contract Provisions as described in Section 8-01.4(2). Progress  
25 payments for the lump sum item "Erosion Control and Water Pollution  
26 Prevention" will be made as follows:

27

28 1. The Contracting Agency will pay 15 percent of the bid amount  
29 for the initial set up for the item. Initial set up includes the  
30 following:

31

32 a. Acceptance of the TESC Plan provided by the Contracting  
33 Agency or submittal of a new TESC Plan,

34

35 b. Submittal of a schedule for the installation of the BMPs, and

36

37 c. Identifying water quality sampling locations.

38

39 2. 70 percent of the bid amount will be paid in accordance with  
40 Section 1-09.9.

41

42 3. Once the project is physically complete and copies of the all  
43 reports submitted to the Washington State Department of

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 Ecology have been submitted to the Engineer, and, if applicable,
- 2 transference of the CSWGP back to the Contracting Agency is
- 3 complete, the remaining 15 percent of the bid amount shall be
- 4 paid in accordance with Section 1-09.9.
- 5
- 6 **8-01.5(2) Item Bids**
- 7 "ESC Lead", per day.
- 8
- 9 "Turbidity Curtain", per linear foot.
- 10
- 11 "Biodegradable Erosion Control Blanket", per square yard.
- 12
- 13 "Plastic Covering", per square yard.
- 14
- 15 "Check Dam", per linear foot.
- 16
- 17 "Inlet Protection", per each.
- 18
- 19 "Gravel Filter Berm", per linear foot.
- 20
- 21 "Stabilized Construction Entrance", per square yard.
- 22
- 23 "Street Cleaning", per hour.
- 24
- 25 "Silt Fence", per linear foot.
- 26
- 27 "Wood Chip Berm", per linear foot.
- 28
- 29 "Compost Berm", per linear foot.
- 30
- 31 "Wattle", per linear foot.
- 32
- 33 "Compost Sock", per linear foot.
- 34
- 35 "Coir Log", per linear foot.
- 36
- 37 "Temporary Curb", per linear foot.
- 38
- 39 "Temporary Pipe Slope Drain", per linear foot.
- 40
- 41 "Temporary Seeding", per acre.
- 42
- 43 "Outlet Protection", per each.

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“Tackifier”, per acre.

“Erosion/Water Pollution Control”, by force account as provided in Section 1-09.6.

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.

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.

**8-01.5(3) Reinstating Unit Items with Lump Sum Erosion Control and Water Pollution Prevention**

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.

**8-01.5(4) Items not included with Lump Sum Erosion Control and Water Pollution Prevention**

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

“Compost Blanket”, per square yard.

“Mulching”, per acre

“Mulching with PAM”, per acre

“Mulching with Short-Term Mulch”, per acre.

“Mulching with Moderate-Term Mulch”, per acre.

“Mulching with Long-Term Mulch”, per acre.

“Seeding, Fertilizing and Mulching”, per acre.

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- 1
- 2 "Seeding and Fertilizing", per acre.
- 3
- 4 "Seeding and Fertilizing by Hand", per square yard.
- 5
- 6 "Second Application of Fertilizer", per acre.
- 7
- 8 "Liming", per acre.
- 9
- 10 "Mowing", per acre.
- 11
- 12 "Seeding and Mulching", per acre.
- 13
- 14 "High Visibility Fence", per linear foot.
- 15

**Section 8-02, Roadside Restoration  
January 2, 2018**

**8-02.2 Materials**

The reference to the material "Soil" is revised to read "Topsoil".

**8-02.5 Payment**

The following new paragraph is inserted following the Bid item "Plant Selection \_\_\_", per each:

The unit Contract price for "Plant Selection \_\_\_", per each shall be full pay for all Work to perform the work as specified within the planting area prior to planting for weed control, planting area preparation and installation of plants with initial watering.

The paragraph following the Bid item "PSIPE \_\_\_", per each is revised to read:

The unit Contract price for "PSIPE \_\_\_", per each, shall be full pay for all Work to perform the work as specified within the planting area for weed control and planting area preparation, planting, cleanup, and water necessary to complete planting operations as specified to the end of first year plant establishment.

**Section 8-04, Curbs, Gutters, and Spillways  
April 2, 2018**

**8-04.2 Materials**

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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Cement 9-01

2

3 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

4 The first paragraph is supplemented with the following:

5

6 Roundabout truck apron cement concrete curb and gutter shall be  
7 constructed with air entrained concrete Class 4000 conforming to the  
8 requirements of Section 6-02.

9

10 **Section 8-06, Cement Concrete Driveway Entrances**

11 **April 2, 2018**

12 **8-06.2 Materials**

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

14

15 Cement 9-01

16

17 **8-06.3 Construction Requirements**

18 The first paragraph is revised to read:

19

20 Cement concrete driveway approaches shall be constructed with air  
21 entrained concrete Class 4000 conforming to the requirements of Section 6-  
22 02 or Portland Cement or Blended Hydraulic Cement Concrete Pavement  
23 conforming to the requirements of Section 5-05.

24

25 **Section 8-07, Precast Traffic Curb**

26 **April 2, 2018**

27 **8-07.3(1) Installing Curbs**

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

29

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

33

34 The fourth paragraph is revised to read:

35

36 All joints between adjacent pieces of curb except joints for expansion and/or  
37 drainage as designated by the Engineer shall be filled with mortar composed  
38 of one part Portland cement or blended hydraulic cement and two parts  
39 sand.

40

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 8-11, Guardrail**  
2 **August 6, 2018**

3 **8-11.3(1)C Terminal and Anchor Installation**

4 The first paragraph is revised to read:

5

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

9

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

11

12 Assembly and installation of Beam Guardrail Non-flared Terminals for Type  
13 31 guardrail shall be supervised at all times by a manufacturer's  
14 representative, or an installer who has been trained and certified by the  
15 manufacturer.

16

17 The last paragraph is revised to read:

18

19 Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the  
20 crash test and evaluation criteria in the Manual for Assessing Safety  
21 Hardware (MASH).

22

23 **8-11.4 Measurement**

24 The third paragraph is revised to read:

25

26 Measurement of beam guardrail \_\_\_\_\_ terminal will be per each for the  
27 completed terminal.

28

29 The fourth paragraph is revised to read:

30

31 Measurement of beam guardrail Type 31 buried terminal Type 2 will be per  
32 linear foot for the completed terminal.

33

34 The sixth paragraph is revised to read:

35

36 Measurement of beam guardrail anchor Type 10 will be per each for the  
37 completed anchor, including the attachment of the anchor to the guardrail.

38

39 **8-11.5 Payment**

40 The Bid item "Beam Guardrail Anchor Type \_\_\_\_", per each is revised to read  
41 "Beam Guardrail Anchor Type 10", per each.

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 The Bid item “Beam Guardrail Buried Terminal Type 1”, per each is deleted from  
2 this section.

3  
4 The Bid item “Beam Guardrail Buried Terminal Type 2”, per linear foot and the  
5 following paragraph are revised to read:

6  
7 “Beam Guardrail Type 31 Buried Terminal Type 2”, per linear foot.

8  
9 The unit Contract price per linear foot for “Beam Guardrail Type 31 Buried  
10 Terminal Type 2” shall be full payment for all costs to obtain and provide  
11 materials and perform the Work as described in Section 8-11.3(1)C.

12  
13 **Section 8-14, Cement Concrete Sidewalks**  
14 **April 2, 2018**

15 **8-14.2 Materials**

16 In the first paragraph, the reference to “Portland Cement” is revised to read:

17  
18 Cement 9-01

19  
20 In the second paragraph, each reference to “Federal Standard 595” is revised to  
21 read “SAE AMS Standard 595”.

22  
23 **Section 8-16, Concrete Slope Protection**  
24 **April 2, 2018**

25 **8-16.2 Materials**

26 In the first paragraph, the last two material references are revised to read:

27  
28 Poured Portland Cement or Blended Hydraulic Cement  
29 Concrete Slope Protection 9-13.5(2)  
30 Pneumatically Placed Portland Cement or Blended  
31 Hydraulic Cement Concrete Slope Protection 9-13.5(3)  
32

33 **Section 8-17, Impact Attenuator Systems**  
34 **January 7, 2019**

35 **8-17.3 Construction Requirements**

36 This section is supplemented with the following:

37  
38 Permanent impact attenuators shall meet the crash test and evaluation  
39 criteria of the Manual for Assessing Safety Hardware (MASH), except as  
40 otherwise noted in the Plans or Special Provisions.

41

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation**  
2 **Systems, and Electrical**  
3 **August 6, 2018**

4 **8-20.1(1) Regulations and Code**

5 The last paragraph is revised to read:

6  
7 Persons performing electrical Work shall be certified in accordance with and  
8 supervised as required by RCW 19.28.161. Proof of certification shall be  
9 worn at all times in accordance with WAC 296-46B-942. Persons failing to  
10 meet these certification requirements may not perform any electrical work,  
11 and shall stop any active electrical work, until their certification is provided  
12 and worn in accordance with this Section.

13  
14 **8-20.2(2) Equipment List and Drawings**

15 This section is renumbered:

16  
17 **8-20.2(1) Equipment List and Drawings**

18  
19 **8-20.3(4) Foundations**

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

21  
22 Concrete for Type II, III, IV, V, and CCTV signal standards and light standard  
23 foundations shall be Class 4000P and does not require air entrainment.

24  
25 **8-20.3(5)A General**

26 The last two sentences of the last paragraph is deleted.

27  
28 This section is supplemented with the following:

29  
30 All conduits shall include a pull tape with the equipment grounding conductor.  
31 The pull tape shall be attached to the conduit near the end bell or grounded  
32 end bushing, or to duct plugs or caps if present, at both ends of the conduit.

33  
34 **8-20.3(8) Wiring**

35 The seventeenth paragraph is supplemented with the following:

36  
37 Pulling tape shall meet the requirements of Section 9-29.1(10). Pull string  
38 may not be used.

39  
40 **8-20.3(14)C Induction Loop Vehicle Detectors**

41 Item number 2 is deleted.

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Item numbers 3 through 12 are renumbered to 2 through 11, respectively.

2

3 **Section 8-21, Permanent Signing**

4 **January 7 2019**

5 **8-21.3(5) Sign Relocation**

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

7

8 Where the existing sign Structure is mounted on concrete pedestals, the  
9 Contractor shall remove the pedestal to a minimum of 2 feet below finished  
10 grade and backfill the remaining hole with material similar to that surrounding  
11 the hole.

12

13 **8-21.3(9)F Foundations**

14 Item number 3 of the twelfth paragraph is supplemented with the following new  
15 sentence:

16

17 Class 4000P concrete for roadside sign structures does not require air  
18 entrainment.

19

20 **Section 8-22, Pavement Marking**

21 **January 7, 2019**

22 **8-22.3(2) Preparation of Roadway Surfaces**

23 The second paragraph is revised to read:

24

25 Remove all other contaminants from pavement surfaces that may adversely  
26 affect the installation of new pavement marking.

27

28 **8-22.3(3)F Application Thickness**

29 The second to last sentence of the last paragraph is revised to read:

30

31 After grinding, clean the groove.

32

33 **Section 9-00, Definitions and Tests**

34 **January 7, 2019**

35 **9-00.4 Sieves for Testing Purposes**

36 This section is revised to read:

37

38 Test sieves shall be made of either: (1) woven wire cloth conforming to ASTM  
39 E11, or (2) square-hole, perforated plates conforming to ASTM E323.

40

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **9-00.7 Galvanized Hardware, AASHTO M 232**

2 The first sentence is revised to read:

3

4 An acceptable alternate to hot-dip galvanizing in accordance with AASHTO  
5 M 232 will be zinc coatings mechanically deposited in accordance with ASTM  
6 B695, providing the minimum thickness of zinc coating is not less than that  
7 specified in AASHTO M 232, and the process will not produce hydrogen  
8 embrittlement in the base metal.

9

10 **Section 9-02, Bituminous Materials**  
11 **January 7, 2019**

12 **9-02.1 Asphalt Material, General**

13 The second paragraph is revised to read:

14

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

25

26 **9-02.1(4) Performance Graded Asphalt Binder (PGAB)**

27 This section's title is revised to read:

28

29 **Performance Graded (PG) Asphalt Binder**

30

31 The first paragraph is revised to read:

32

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

40

41 The second paragraph, including the table, is revised to read:

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 In addition to AASHTO M 332 Table 1 specification requirements, PG asphalt  
 2 binders shall meet the following requirements:  
 3

Property	Test Method	Additional Requirements by Performance Grade (PG) Asphalt Binders					
		PG58S-22	PG58H-22	PG58V-22	PG64S-28	PG64H-28	PG64V-28
RTFO Residue : Average Percent Recovery @ 3.2 kPa	AASHTO T 350 <sup>1</sup>			30% Min.	20% Min.	25% Min.	30% Min.
<sup>1</sup> Specimen conditioned in accordance with AASHTO T 240 – RTFO.							

4  
 5 The third paragraph is revised to read:

6  
 7 The RTFO  $J_{nr diff}$  and the PAV direct tension specifications of AASHTO M 332  
 8 are not required.  
 9

10  
 11 **9-02.1(6) Cationic Emulsified Asphalt**

12 This section is revised to read:

13  
 14 Cationic Emulsified Asphalt meeting the requirements of AASHTO M 208  
 15 Table 1 of the grades specified in the Contract shall be used.  
 16

17 **9-02.5 Warm Mix Asphalt (WMA) Additive**

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

19  
 20 **9-02.5 HMA Additive**

21 Additives for HMA shall be accepted by the Engineer.  
 22

23 **Section 9-03, Aggregates**

24 **January 7, 2019**

25 **9-03.1 Aggregates for Portland Cement Concrete**

26 This section's title is revised to read:

27  
 28 **Aggregates for Concrete**  
 29

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 **9-03.1(1) General Requirements**
- 2 The first two sentences of the first paragraph are revised to read:
- 3
- 4 Concrete aggregates shall be manufactured from ledge rock, talus, or sand
- 5 and gravel in accordance with the provisions of Section 3-01. Reclaimed
- 6 aggregate may be used if it complies with the specifications for concrete.
- 7
- 8 The second paragraph (up until the colon) is revised to read:
- 9
- 10 Aggregates for concrete shall meet the following test requirements:
- 11
- 12 The second sentence of the second to last paragraph is revised to read:
- 13
- 14 The Contractor shall submit test results according to ASTM C1567 through
- 15 the Engineer to the State Materials Laboratory that demonstrate that the
- 16 proposed fly ash when used with the proposed aggregates and cement will
- 17 control the potential expansion to 0.20 percent or less before the fly ash and
- 18 aggregate sources may be used in concrete.
- 19
- 20 **9-03.1(2) Fine Aggregate for Portland Cement Concrete**
- 21 This section's title is revised to read:
- 22
- 23 **Fine Aggregate for Concrete**
- 24
- 25 **9-03.1(4) Coarse Aggregate for Portland Cement Concrete**
- 26 This section's title is revised to read:
- 27
- 28 **Coarse Aggregate for Concrete**
- 29
- 30 **9-03.1(4)C Grading**
- 31 The first paragraph (up until the colon) is revised to read:
- 32
- 33 Coarse aggregate for concrete when separated by means of laboratory
- 34 sieves shall conform to one or more of the following gradings as called for
- 35 elsewhere in these Specifications, Special Provisions, or in the Plans:
- 36
- 37 **9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete**
- 38 This section's title is revised to read:
- 39
- 40 **Combined Aggregate Gradation for Concrete**
- 41

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **9-03.1(5)B Grading**

2 In the last paragraph, "WSDOT FOP for WAQTC/AASHTO T 27/T 11" is revised  
3 to read "FOP for WAQTC/AASHTO T 27/T 11".  
4

5 **9-03.2 Aggregate for Job-Mixed Portland Cement Mortar**

6 This section's title is revised to read:

7  
8 **Aggregate for Job-Mixed Portland Cement or Blended Hydraulic**  
9 **Cement Mortar**

10  
11 The first sentence of the first paragraph is revised to read:

12  
13 Fine aggregate for portland cement or blended hydraulic cement mortar shall  
14 consist of sand or other inert materials, or combinations thereof, accepted by  
15 the Engineer, having hard, strong, durable particles free from adherent  
16 coating.  
17

18 **9-03.4(1) General Requirements**

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

20  
21 Aggregate for bituminous surface treatment shall be manufactured from  
22 ledge rock, talus, or gravel, in accordance with Section 3-01. Aggregates for  
23 Bituminous Surface Treatment shall meet the following test requirements:  
24

25 **9-03.8(1) General Requirements**

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

27  
28 Aggregates for Hot Mix Asphalt shall meet the following test requirements:  
29

30 **9-03.8(2) HMA Test Requirements**

31 The two tables in the second paragraph are replaced with the following three  
32 tables:  
33

Mix Criteria	HMA Class							
	3/8 inch		1/2 inch		3/4 inch		1 inch	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Voids in Mineral Aggregate (VMA), %	15.0		14.0		13.0		12.0	
<b>Voids Filled With Asphalt (VFA), %</b>								
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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

Dust/Asphalt Ratio	0.6	1.6	0.6	1.6	0.6	1.6	0.6	1.6
--------------------	-----	-----	-----	-----	-----	-----	-----	-----

1

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

2

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

3

4

**9-03.8(7) HMA Tolerances and Adjustments**

5

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

6

Asphalt binder	-0.4% to 0.5%		±0.7%
----------------	---------------	--	-------

7

8

In the table in item number 1, the following new row is inserted before the last row:

9

10

Voids in Mineral Aggregate, VMA	-1.0%		
---------------------------------	-------	--	--

11

12

**9-03.9(1) Ballast**

13

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

14

15

Aggregates for ballast shall meet the following test requirements:

16

17

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

18

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

19

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 The material shall be substantially free of shale or other soft, poor durability  
 2 particles, and shall not contain recycled materials, such as glass, shredded  
 3 tires, concrete rubble, or asphaltic concrete rubble.  
 4

5 **9-03.21(1)B Recycled Concrete Aggregate Approval and Acceptance**

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

7  
 8 Recycled concrete aggregate may be used as coarse aggregate or blended  
 9 with coarse aggregate for Commercial Concrete, Class 3000 concrete, or  
 10 Cement Concrete Pavement.  
 11

12 Item number 4 of the second paragraph is revised to read:

13  
 14 4. For Cement Concrete Pavement mix designs using recycled concrete  
 15 aggregates, the Contractor shall submit evidence that ASR mitigating  
 16 measures control expansion in accordance with Section 9-03.1(1).  
 17

18 This section is supplemented with the following new subsection:

19  
 20 **9-03.21(1)B1 Recycled Concrete Aggregate Approval and Acceptance**

21 Recycled concrete aggregate may be approved through a three tiered  
 22 system that consists of the following:  
 23

<b>Tier 1</b>	
<b>Approval Requirements</b>	Approval of the Reclamation Facility is not required.
<b>Acceptance Requirements</b>	Certification of toxicity characteristics in accordance with Section 9-03.21(1). Field acceptance testing in accordance with Section 3-04.
<b>Approved to provide the following Aggregate Materials:</b>	
9-03.10 Aggregate for Gravel Base	
9-03.12(1)B Gravel Backfill for Foundations 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 than 3 feet below subgrade and side slope)	
9-03.14(3) Common Borrow	
9-03.14(3) Common Borrow (greater than 3 feet below subgrade and side slope)	
9-03.17 Foundation Material Class A and Class B	
9-03.18 Foundation Material Class C	
9-03.19 Bank Run Gravel for Trench Backfill	

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1

<b>Tier 2</b>	
<b>Approval Requirements</b>	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.
<b>Acceptance Requirements</b>	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.
<b>Approved to provide the following Aggregate Materials:</b>	
Tier 1 aggregate materials 9-03.1 Coarse Aggregate for Commercial Concrete or Concrete class 3000 9-03.9(1) Ballast 9-03.9(2) Permeable Ballast 9-03.9(3) Crushed Surfacing 9-03.12(1)A Gravel Backfill for Foundations Class A	

2

<b>Tier 3</b>	
<b>Approval Requirements</b>	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

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

	Wear and Degradation) for the recycled concrete aggregate is required.
<b>Acceptance Requirements</b>	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
<b>Approved to provide the following Aggregate Materials:</b>	
Tier 1 aggregate materials 9-03.1 Coarse Aggregate for Commercial Concrete or Concrete class 3000 9-03.9(1) Ballast 9-03.9(2) Permeable Ballast 9-03.9(3) Crushed Surfacing 9-03.12(1)A Gravel Backfill for Foundations Class A	

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For Reclamation Facilities that do not participate in Tier 2 and Tier 3, approval of recycled concrete aggregate will be in accordance with Section 9-03.21(1), and acceptance will be in accordance with Section 3-04.

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

“Portland Cement” is deleted from the first two rows in the table.

The following new row is inserted after the second row:

Coarse Aggregate for Concrete Pavement	9-03.1(4)	0	100	0	0
--	-----------	---	-----	---	---

The first column of the fourth row (after the preceding Amendment is applied) is revised to read:

Coarse Aggregate for Commercial Concrete and Class 3000 Concrete

**Section 9-04, Joint and Crack Sealing Materials  
January 7, 2019**

This section’s title is revised to read:

**Joint Sealing Materials**

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 **9-04.1(2) Premolded Joint Filler for Expansion Joints**  
2 In this section, each reference to "AASHTO T 42" is revised to read "ASTM D  
3 545".  
4
- 5 **9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement**  
6 This section is supplemented with the following:  
7  
8 Hot poured sealant for cement concrete pavement is acceptable for  
9 installations in joints where cement concrete pavement abuts a bituminous  
10 pavement.  
11
- 12 **9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement**  
13 This section is supplemented with the following:  
14  
15 Hot poured sealant for bituminous pavement is acceptable for installations in  
16 joints where cement concrete pavement abuts a bituminous pavement.  
17
- 18 **9-04.2(1)B Sand Slurry for Bituminous Pavement**  
19 Item number 2 of the first paragraph is revised to read:  
20  
21 2. Two percent portland cement or blended hydraulic cement, and  
22
- 23 **9-04.3 Joint Mortar**  
24 The first paragraph is revised to read:  
25  
26 Mortar for hand mortared joints shall conform to Section 9-20.4(3) and  
27 consist of one part portland cement or blended hydraulic cement, three parts  
28 fine sand, and sufficient water to allow proper workability.  
29
- 30 **9-04.5 Flexible Plastic Gaskets**  
31 In the table, the Test Method value for **Specific Gravity at 77°F** is revised to read  
32 "ASTM D71".  
33  
34 In the table, the Test Method value for **Flash Point COC, F** is revised to read  
35 "ASTM D93 REV A".  
36  
37 In the table, the Test Method value for **Volatile Matter** is revised to read "ASTM  
38 D6".  
39

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 9-05, Drainage Structures and Culverts**  
2 **January 7, 2019**

3 **9-05.3(1)A End Design and Joints**

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

5

6 The joints and gasket material shall meet the requirements of ASTM C990.

7

8 **9-05.3(1)C Age at Shipment**

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

10

11 Unless it is tested and accepted at an earlier age, it shall not be considered  
12 ready for shipment sooner than 28 days after manufacture when made with  
13 Type II portland cement or blended hydraulic cement, nor sooner than 7 days  
14 when made with Type III portland cement.

15

16 **9-05.7(3) Concrete Storm Sewer Pipe Joints**

17 The second sentence is revised to read:

18

19 The joints and gasket material shall meet the requirements of ASTM C990.

20

21 **9-05.7(4)A Hydrostatic Pressure on Pipes in Straight Alignment**

22 The first sentence is revised to read:

23

24 Hydrostatic pressure tests on pipes in straight alignment shall be made in  
25 accordance with the procedure outlined in Section 10 of ASTM C990, except  
26 that they shall be performed on an assembly consisting of not less than three  
27 nor more than five pipe sections selected from stock by the Engineer and  
28 assembled in accordance with standard installation instructions issued by the  
29 manufacturer.

30

31 **9-05.24(1) Polypropylene Culvert Pipe and Storm Sewer Pipe**

32 This section is revised to read:

33

34 Polypropylene culvert and storm sewer pipe shall conform to the following  
35 requirements:

36

37 1. For dual wall pipe sizes up to 60 inches: ASTM F2881 or AASHTO  
38 M 330, Type S or Type D.

39

40 2. For double or triple wall pipe sizes up to 60 inches: ASTM F2764.

41

42 3. Fittings shall be factory welded, injection molded, or PVC.

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**9-05.24(2) Polypropylene Sanitary Sewer Pipe**

This section is revised to read:

Polypropylene sanitary sewer pipe shall conform to the following requirements:

1. For pipe sizes up to 60 inches: ASTM F2764.
2. Fittings shall be factory welded, injection molded, or PVC.

**Section 9-06, Structural Steel and Related Materials  
January 7, 2019**

**9-06.5 Bolts**

This section's title is revised to read:

**Bolts and Rods**

**9-06.5(4) Anchor Bolts**

This section, including title, is revised to read:

**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 overlapping, 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.

The bolts and rods shall be tested by the manufacturer in accordance with the requirements of the pertinent Specification and as specified in these Specifications. Anchor bolts, anchor rods, nuts, and washers shall be inspected prior to shipping to the project site. The Contractor shall submit to the Engineer for acceptance a Manufacturer's Certificate of Compliance for the anchor bolts, anchor rods, nuts, and washers, as defined in Section 1-

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           06.3. If the Engineer deems it appropriate, the Contractor shall provide a  
2           sample of the anchor bolt, anchor rod, nut, and washer for testing.

3  
4           All bolts, rods, nuts, and washers shall be marked and identified as required  
5           in the pertinent Specification.

6  
7           **9-06.15 Welded Shear Connectors**

8           The third paragraph is revised to read:

9  
10           Mechanical properties shall be determined in accordance with AASHTO T  
11           244.

12  
13           **9-06.17 Vacant**

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

15  
16           **9-06.17 Noise Barrier Wall Access Door**

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

23  
24           Access doors shall be full flush 1-¾-inch thick seamless doors with a  
25           polystyrene core. Door faces shall be constructed with smooth seamless 14-  
26           gauge roller-levered, cold-rolled steel sheet conforming to ASTM A 792 Type  
27           SS, Grade 33 minimum, Coating Designation AZ55 minimum. The vertical  
28           edges shall be neat interlocked hemmed edge seam. The top and bottom of  
29           the door shall be enclosed with 14-gauge channels. Mortise and  
30           reinforcement for locks and hinges shall be 10-gauge steel. Welded top cap  
31           shall be ground and filled for exterior applications. The bottom channel shall  
32           have weep holes.

33  
34           Each access door shall have three hinges. Access door hinges shall be  
35           ASTM A 276 Type 316 stainless steel, 4-½-inches square, with stainless  
36           steel ball bearing and non-removable pins.

37  
38           Each access door shall have two pull plates. The pull plates shall be ASTM A  
39           240 Type 316 stainless steel, with a grip handle of one-inch diameter and 8  
40           to 10-inches in length.

41  
42           The door assembly shall be fabricated and assembled as a complete unit  
43           including all hardware specified prior to shipment.

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**9-06.18 Metal Bridge Railing**

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

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.

**Section 9-07, Reinforcing Steel**  
**January 7, 2019**

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

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 1½ 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:

1. Epoxy-coated dowel bars shall be round plain steel bars of the dimensions shown in the Standard Plans. They shall conform to AASHTO M31, Grade 60 or ASTM A615, Grade 60 and shall be coated in accordance with ASTM A1078 Type 2 coating, except that the bars may be cut to length after being coated. Cut ends shall be coated in accordance with ASTM A1078 with a patching material that is compatible with the coating, inert in concrete and recommended by the coating manufacturer. The thickness of the epoxy coating shall be 10 mils plus or minus 2 mils. The Contractor shall furnish a written certification that properly identifies the coating material, the number of each batch of coating material used, quantity represented, date of manufacture, name and address of manufacturer, and a statement that the supplied coating material meets the requirements of ASTM A1078 Type 2 coating. Patching material, compatible with the coating material and inert in concrete and recommended by the manufacturer shall be supplied with each shipment for field repairs by the Contractor.
2. 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

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1                    1. The ends of the tube shall be capped to prevent intrusion of  
2                    concrete or other materials.

3  
4                    **9-07.5(2) Corrosion Resistant Dowel Bars (for Cement Concrete Pavement**  
5                    **and Cement Concrete Pavement Rehabilitation)**

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

7  
8                    Corrosion resistant dowel bars shall be 1½ inch outside diameter plain round  
9                    steel bars or tubular bars 18 inches in length and meet the requirements of  
10                    one of the following:

11  
12                    Item number 4 and 5 of the first paragraph are revised to read:

13  
14                    4. Corrosion-resistant, low-carbon, chromium plain steel bars for concrete  
15                    reinforcement meeting all the requirements of ASTM A 1035 Alloy Type  
16                    CS Grade 100 or Alloy Type CS Grade 120.

17  
18                    5. Zinc Clad dowel bars shall be 1½ inch solid bars or 1.625 inch outside  
19                    diameter by 0.120 inch wall tubular bars meeting the chemical and  
20                    physical properties of AASHTO M 31, Grade 60, or AASHTO M 255,  
21                    Grade 60. The bars shall have a minimum of 0.035 inches A710 Zinc  
22                    alloy clad to the plain steel inner bar or tube. A710 Zinc shall be  
23                    composed of: zinc: 99.5 percent, by weight, minimum; copper: 0.1-0.25  
24                    percent, by weight; and iron: 0.0020 percent, by weight, maximum. Each  
25                    end of tubular bars shall be plugged using a snug-fitting insert to prohibit  
26                    any intrusion of concrete or other materials.

27  
28                    The numbered list in the first paragraph is supplemented with the following:

29  
30                    6. Multicoated fusion bonded epoxy bars shall consist of an ASTM A615  
31                    bar with alternating layers of ASTM A934 coating and an abrasion  
32                    resistant overcoat (ARO). The ASTM A934 coating shall form the base  
33                    and there shall be two layers of each coating material. The minimum  
34                    thickness of the combined layers of the ASTM A934 coating and ARO  
35                    coating shall be 20 mils. The ARO shall meet the following requirements:

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

36  
37

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1           7. ASTM A513 steel tubes made from Grade 60 Carbon Steel Tube with a  
2           1.625 inch outside diameter and a 0.120 inch wall thickness. Both the  
3           inside and outside of the tube shall be zinc coated with G90 galvanizing  
4           in accordance with ASTM A653. Following zinc coating the tubes shall  
5           be coated in accordance with Section 9-07.5(1) item 1. The ends of the  
6           tube shall be capped to prevent intrusion of concrete or other materials.

7  
8           The last paragraph is revised to read:

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

13  
14           **9-07.7 Wire Mesh**

15           This section is supplemented with the following:

16  
17           Welded wire manufacturers shall participate in the NTPEP Audit Program for  
18           Reinforcing Steel (rebar) Manufacturers and shall be listed on the NTPEP  
19           audit program website displaying that they are NTPEP compliant.

20  
21           **Section 9-08, Paints and Related Materials**  
22           **January 7, 2019**

23           **9-08.1(1) Description**

24           The first sentence is revised to read:

25  
26           Paint used for highway and bridge structure applications shall be made from  
27           materials meeting the requirements of the applicable Federal and State Paint  
28           Specifications, Department of Defense (DOD), American Society of Testing of  
29           Materials (ASTM), and The Society for Protective Coatings (SSPC)  
30           specifications in effect at time of manufacture.

31  
32           **9-08.1(2) Paint Types**

33           This section is supplemented with the following new subsections:

34  
35           **9-08.1(2)M NEPCOAT Qualified Products List A**

36           Qualified products used shall be part of a NEPCOAT system supplied by the  
37           same manufacturer.

38  
39           **9-08.1(2)N NEPCOAT Qualified Products List B**

40           Qualified products used shall be part of a NEPCOAT system supplied by the  
41           same manufacturer.

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **9-08.1(2)D Organic Zinc-Rich Primer**  
2 This section, including title, is revised to read:

3  
4 **Vacant**

5  
6 **9-08.1(2)E Epoxy Polyamide**  
7 This section is revised to read:

8  
9 Epoxy polyamide shall be a two-component system conforming to MIL-DTL-  
10 24441 or SSPC Coating Standard No. 42.

11  
12 **9-08.1(2)H Top Coat, Single-Component, Moisture-Cured Polyurethane**  
13 This section is revised to read:

14  
15 Vehicle Type: Moisture-cured aliphatic polyurethane.

16  
17 Color and Gloss: Meet the SAE AMS Standard 595 Color as specified in  
18 the table below.

19  
20 The Top Coat shall meet the following requirements:

21  
22 The resin shall be an aliphatic urethane.

23  
24 Minimum-volume solids 50 percent.

25  
26 The top coat shall be semi-gloss.

27

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

28

29 **9-08.1(2)I Rust-Penetrating Sealer**

30 This section is revised to read:

31

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

34

35 **9-08.1(2)J Black Enamel**

36 This section is revised to read:

37

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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

3  
4 **9-08.1(2)K Orange Equipment Enamel**

5 The first paragraph is revised to read:

6  
7 The enamel shall be an alkyd gloss enamel conforming to Federal  
8 Specification MIL-PRF-24635E Type II Class 1. The color, when dry, shall  
9 match that of SAE AMS Standard 595, color number 12246.

10  
11 **9-08.1(2)L Exterior Acrylic Latex Paint-White**

12 The first paragraph is revised to read:

13  
14 This paint shall conform to Federal Specification MIL-PRF-24635E Type II  
15 Class 1, 2 or 3.

16  
17 **9-08.1(7) Acceptance**

18 This section is revised to read:

19  
20 For projects with moisture-cured polyurethane quantities less than 20  
21 gallons, acceptance will be by the Manufacturer's Certificate of Compliance.

22  
23 For projects with moisture-cured polyurethane quantities greater than 20  
24 gallons, the product shall be listed in the current WSDOT Qualified Products  
25 List (QPL). If the lot number is listed on the QPL, it may be accepted without  
26 additional testing. If the lot number is not listed on the QPL, a 1 quart sample  
27 shall be submitted to the State Materials Laboratory for testing and  
28 acceptance.

29  
30 For all other paint types, acceptance will be based on visual inspection.

31  
32 **9-08.1(8) Standard Colors**

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

35  
36 The second paragraph is revised to read:

37  
38 Unless otherwise specified, all top or finish coats shall be semi-gloss, with  
39 the paint falling within the range of 35 to 70 on the 60-degree gloss meter.

40  
41 **9-08.2 Powder Coating Materials for Coating Galvanized Surfaces**

42 The last paragraph is revised to read:

43

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 Repair materials shall be as recommended by the powder coating  
2 manufacturer and as specified in the Contractor's powder coating plan as  
3 accepted by the Engineer.  
4

5 **9-08.3 Pigmented Sealer Materials for Coating of Concrete Surfaces**

6 This section, including title, is revised to read:  
7

8 **9-08.3 Concrete Surface Treatments**

9 **9-08.3(1) Pigmented Sealer Materials**

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

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

36 **9-08.3(2) Exposed Aggregate Concrete Coatings and Sealers**

37 **9-08.3(2)A Retardant Coating**

38 Retardant coating shall exhibit the following properties:  
39

- 40 1. Retards the set of the surface mortar of the concrete without  
41 preventing the concrete to reach the specified 28 day  
42 compressive strength.  
43

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **9-13.5 Concrete Slope Protection**

2 This section is revised to read:

3

4 Concrete slope protection shall consist of reinforced portland cement or  
5 blended hydraulic cement concrete poured or pneumatically placed upon the  
6 slope with a rustication joint pattern or semi-open concrete masonry units  
7 placed upon the slope closely adjoining each other.

8

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

10 This section's title is revised to read:

11

12 **Poured Portland Cement or Blended Hydraulic Cement Concrete Slope**  
13 **Protection**

14

15 **9-13.5(3) Pneumatically Placed Portland Cement Concrete Slope Protection**

16 This section's title is revised to read:

17

18 **Pneumatically Placed Portland Cement or Blended Hydraulic Cement**  
19 **Concrete Slope Protection**

20

21 The first paragraph is revised to read:

22

23 **Cement** – This material shall be portland cement or blended hydraulic  
24 cement as specified in Section 9-01.

25

26 **9-13.7(1) Rock for Rock Walls and Chinking Material**

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

28

29 Rock for rock walls and chinking material shall be hard, sound and durable  
30 material,  
31 free from seams, cracks, and other defects tending to destroy its resistance  
32 to weather,  
33 and shall meet the following test requirements:

34

35 9-14.AP9

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

37 **August 6, 2018**

38

39 **9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)**

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

41

42 **9-14.4(2)A Long-Term Mulch**

The first paragraph is supplemented with the following:

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1  
2 Products containing cellulose fiber produced from paper or paper  
3 components will not be accepted.  
4

5 Table 2 is supplemented with the following new rows:  
6

Water Holding Capacity	ASTM D 7367	800 percent minimum
Organic Matter Content	AASHTO T 267	90 percent minimum
Seed Germination Enhancement	ASTM D 7322	Long Term 420 percent minimum

7  
8  
9 **9-14.4(2)B Moderate-Term Mulch**

10 This section is revised to read:

11  
12 Within 48 hours of application, the Moderate-Term Mulch shall bond with the  
13 soil surface to create a continuous, absorbent, flexible, erosion-resistant  
14 blanket. Moderate-Term Mulch shall effectively perform the intended erosion  
15 control function in accordance with Section 8-01.3(1) for a minimum of 3  
16 months, or until temporary vegetation has been established, whichever  
17 comes first.

18  
19 Moderate-Term Mulch shall not be used in conjunction with permanent  
20 seeding.

21  
22 **9-14.4(2)C Short-Term Mulch**

23 This section is revised to read:

24  
25 Short-Term Mulch shall effectively perform the intended erosion control  
26 function in accordance with Section 8-01.3(1) for a minimum of 2 months, or  
27 until temporary vegetation has been established, whichever comes first.  
28 Short-Term Mulch shall not be used in conjunction with permanent seeding.

29  
30 **Section 9-16, Fence and Guardrail**  
31 **August 6, 2018**

32 **9-16.3(1) Rail Element**

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

34  
35 All rail elements shall be formed from 12-gage steel except for thrie beam  
36 reducer sections, reduced length thrie beam rail elements, thrie beams used  
37 for bridge rail retrofits, and Design F end sections, which shall be formed  
38 from 10-gage steel.

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

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**9-16.3(5) Anchors**

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.

**Section 9-18, Precast Traffic Curb  
April 2, 2018**

**9-18.1(1) Aggregates and Proportioning**

Item number 1 of the first paragraph is revised to read:

1. 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.

**Section 9-20, Concrete Patching Material, Grout, and Mortar  
January 7, 2019**

**9-20.1 Patching Material**

This section, including title, is revised to read:

**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.

**9-20.1(1) Patching Mortar**

Patching mortar shall conform to the following requirements:

<b>Compressive Strength</b>	<b>ASTM Test Method</b>	<b>Specification</b>
at 3 hours	C 39	Minimum 3,000 psi
at 24 hours	C 39	Minimum 5,000 psi
<b>Length Change</b>		
at 28 days	C 157	0.15 percent maximum

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Total Chloride Ion Content	C 1218	1 lb/yd <sup>3</sup> maximum
<b>Bond Strength</b>		
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/ft <sup>2</sup> maximum

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5

**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
<b>Length Change</b>		
at 28 days	C 157	0.15 percent maximum
<b>Bond Strength</b>		
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.

**9-20.2 Specifications**

This section, including title, is revised to read:

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**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 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
- Permeability shall be 2,000 coulombs or lower at 28 days in accordance with AASHTO T 277 (ASTM C 1202)
- Freeze-thaw resistance shall have a durability factor of 90 percent or higher after a minimum of 300 cycles in accordance with AASHTO T 161 Procedure A (ASTM C 666)
- Soluble chloride ion limits in Section 6-02.3(2) shall be satisfied

**9-20.2(1) Patching Mortar**

This section, including title, is deleted in its entirety.

**9-20.2(2) Patching Mortar Extended with Aggregate**

This section, including title, is deleted in its entirety.

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

This section is revised to read:

Grout Type 3 shall be a prepackaged material that does not include expansive admixtures meeting the following requirements:

- Compressive strength shall be 4000 psi or higher at 28 days in accordance with AASHTO T 22 (ASTM C 39) for grout extended with coarse aggregate or AASHTO T 106 (ASTM C109) otherwise.



AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1           • Bond strength shall meet one of the following:  
2
- 3           ◦ 250 psi or higher at 28 days or less in accordance with ASTM  
4           C1583.  
5
- 6           ◦ 2000 psi or higher at 28 days or less in accordance with ASTM  
7           C882. The following modification to ASTM C882 is acceptable:  
8           use Type 3 Grout in lieu of epoxy resin base bonding system  
9           and freshly mixed portland-cement mortar in the procedure for  
10          testing Type II and V systems.  
11
- 12          • Drying shrinkage shall be 0.08 percent (800 microstrain) or lower at  
13          28 days in accordance with AASHTO T 160 (ASTM C157). The  
14          following modification to AASHTO T 160 is acceptable: use a  
15          standard specimen size of 3 x 3 x 11-¼ inches.  
16

**9-20.5 Bridge Deck Repair Material**

17 Item number 3 of the first paragraph is revised to read:  
18

- 19
- 20          3. Permeability of less than 2,000 coulombs at 28-days or more in  
21          accordance with AASHTO T 277.  
22

23 **Section 9-21, Raised Pavement Markers (RPM)**  
24 **January 2, 2018**

25 **9-21.2 Raised Pavement Markers Type 2**

26 This section's content is deleted.  
27

28 **9-21.2(1) Physical Properties**

29 This section, including title, is revised to read:  
30

31 **9-21.2(1) Standard Raised Pavement Markers Type 2**

32 The marker housing shall contain reflective faces as shown in the Plans to  
33 reflect incident light from either a single or opposite directions and meet the  
34 requirements of ASTM D 4280 including Flexural strength requirements.  
35

36 **9-21.2(2) Optical Requirements**

37 This section, including title, is revised to read:  
38

39 **9-21.2(2) Abrasion Resistant Raised Markers Type 2**

40 Abrasion Resistant Raised Markers Type 2 shall comply with Section 9-  
41 21.2(1) and meet the requirements of ASTM D 4280 with the following  
42 additional requirement: The coefficient of luminous intensity of the markers

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1 shall be measured after subjecting the entire lens surface to the test  
2 described in ASTM D 4280 Section 9.5 using a sand drop apparatus. After  
3 the exposure described above, retroreflected values shall not be less than  
4 0.5 times a nominal unblemished sample.

5  
6 **9-21.2(3) Strength Requirements**

7 This section is deleted in its entirety.

8  
9 **Section 9-26, Epoxy Resins**

10 **January 7, 2019**

11 **9-26.1(1) General**

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

14  
15 For pre-packaged cartridge kits, the epoxy bonding agent shall meet the  
16 requirements of ASTM C881 when mixed according to manufacturer  
17 instructions, utilizing the manufacturer's mixing nozzle.

18  
19 **9-26.1(2) Packaging and Marking**

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

21  
22 The components of the epoxy system furnished under these Specifications  
23 shall be supplied in separate containers or pre-packaged cartridge kits that  
24 are non-reactive with the materials contained.

25  
26 The second paragraph is revised to read:

27  
28 Separate containers shall be marked by permanent marking that identify the  
29 formulator, "Component A" (contains the Epoxy Resin) and "Component B"  
30 (Contains the Curing Agent), type, grade, class, lot or batch number, mixing  
31 instructions and the quantity contained in pounds or gallons as defined by  
32 these Specifications.

33  
34 The following new paragraph is inserted after the second paragraph:

35  
36 Pre-packaged cartridge kits shall be marked by permanent marking that  
37 identify the formulator, type, grade, class, lot or batch number, mixing  
38 instructions and the quantity contained in ounces or milliliters as defined by  
39 these Specifications.

40

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **Section 9-28, Signing Materials and Fabrication**  
2 **April 2, 2018**

3 **9-28.10 Vacant**

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

5

6 **9-28.10 Digital Printing**

7 Transparent and opaque durable inks used in digital printed sign messages  
8 shall be as recommended by the manufacturer. When properly applied,  
9 digital printed colors shall have a warranty life of the base retroreflective sign  
10 sheeting. Digital applied colors shall present a smooth surface, free from  
11 foreign material, and all messages and borders shall be clear and sharp.  
12 Digital printed signs shall conform to 70% of the retroreflective minimum  
13 values established for its type and color. Digitally printed signs shall meet the  
14 daytime color and luminance, and nighttime color requirements of ASTM D  
15 4956. No variations in color or overlapping of colors will be permitted. Digital  
16 printed permanent traffic signs shall have an integrated engineered match  
17 component clear protective overlay recommended by the sheeting  
18 manufacturer applied to the entire face of the sign. On Temporary  
19 construction/maintenance signs printed with black ink only, the protective  
20 overlay film is optional, as long as the finished sign has a warranty of a  
21 minimum of three years from sign sheeting manufacturer.

22

23 All digital printed traffic control signs shall be an integrated engineered match  
24 component system. The integrated engineered match component system  
25 shall consist of retroreflective sheeting, durable ink(s), and clear overlay film  
26 all from the same manufacturer applied to aluminum substrate conforming to  
27 Section 9-28.8.

28

29 The sign fabricator shall use an approved integrated engineered match  
30 component system as listed on the Qualified Products List (QPL). Each  
31 approved digital printer shall only use the compatible retroreflective sign  
32 sheeting manufacturer's engineered match component system products.

33

34 Each retroreflective sign sheeting manufacturer/integrated engineered match  
35 component system listed on the QPL shall certify a department approved  
36 sign fabricator is approved to operate their compatible digital printer. The sign  
37 fabricator shall re-certify annually with the retroreflective sign manufacturer to  
38 ensure their digital printer is still meeting manufacturer's specifications for  
39 traffic control signs. Documentation of each re-certification shall be submitted  
40 to the QPL Engineer annually.

41

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **9-28.11 Hardware**

2 The last paragraph is revised to read:

3

4 All steel parts shall be galvanized in accordance with AASHTO M111. Steel  
5 bolts and related connecting hardware shall be galvanized in accordance  
6 with ASTM F 2329.

7

8 **9-28.14(2) Steel Structures and Posts**

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

10

11 Anchor rods for sign bridge and cantilever sign structure foundations shall  
12 conform to Section 9-06.5(4), including Supplemental Requirement S4 tested  
13 at -20°F.

14

15 In the second sentence of the fourth paragraph, "AASHTO M232" is revised to  
16 read "ASTM F 2329".

17

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

19

20 Except as otherwise noted, steel used for sign structures and posts shall  
21 have a controlled silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25  
22 percent.

23

24 The last sentence of the last paragraph is revised to read:

25

26 If such modifications are contemplated, the Contractor shall submit a Type 2  
27 Working Drawing of the proposed modifications.

28

29 **Section 9-29, Illumination, Signal, Electrical**  
30 **January 7, 2019**

31 **9-29.1 Conduit, Innerduct, and Outerduct**

32 This section is supplemented with the following new subsections:

33

34 **9-29.1(10) Pull Tape**

35 Pull tape shall be pre-lubricated polyester pulling tape. The pull tape shall  
36 have a minimum width of ½-inch and a minimum tensile strength of 500  
37 pounds. Pull tape may have measurement marks.

38

39 **9-29.1(11) Foam Conduit Sealant**

40 Foam conduit sealant shall be self-expanding waterproof foam designed to  
41 prevent both water and pest intrusion. The foam shall be designed for use in

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 and around electrical equipment, including both insulated and bare  
2 conductors.

3  
4 **9-29.2(1) Junction Boxes**

5 The first paragraph is revised to read:

6  
7 For the purposes of this Specification concrete is defined as portland cement  
8 or blended hydraulic cement concrete and non-concrete is all others.

9  
10 **9-29.2(1)A2 Non-Concrete Junction Boxes**

11 The first paragraph is revised to read:

12  
13 Material for the non-concrete junction boxes shall be of a quality that will  
14 provide for a similar life expectancy as portland cement or blended hydraulic  
15 cement concrete in a direct burial application.

16  
17 **9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes**

18 In the table in the last paragraph, the fourth, fifth and sixth rows are revised to  
19 read:

20

Slip Resistant Lid	ASTM A36 steel
Frame	ASTM A36 steel
Slip Resistant Frame	ASTM A36 steel

21  
22 **9-29.3(2)A1 Single Conductor Current Carrying**

23 This second sentence is revised to read:

24  
25 Insulation shall be XLP (cross-linked polyethylene) or EPR (Ethylene  
26 Propylene Rubber), Type USE (Underground Service Entrance) or USE-2,  
27 and rated for 600-volts or higher.

28  
29 **9-29.6 Light and Signal Standards**

30 In the first sentence of the third paragraph, "AASHTO M232" is revised to read  
31 "ASTM F 2329".

32  
33 Item number 2 of the last paragraph is revised to read:

- 34  
35 2. The steel light and signal standard fabricator's shop drawing submittal,  
36 including supporting design calculations, submitted as a Type 2E  
37 Working Drawing in accordance with Section 8-20.2(1) and the Special  
38 Provisions.

39  
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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 **9-29.6(1) Steel Light and Signal Standards**

2 In the second paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

3

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

5

6 Steel used for light and signal standards shall have a controlled silicon  
7 content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.

8

9 **9-29.6(5) Foundation Hardware**

10 In the last paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

11

12 **9-29.10(1) Conventional Roadway Luminaires**

13 This section is revised to read:

14

15 All conventional roadway luminaires shall meet 3G vibration requirements as  
16 described in ANSI C136.31.

17

18 All luminaires shall have housings fabricated from aluminum. The housing  
19 shall be painted flat gray, SAE AMS Standard 595 color chip No. 26280,  
20 unless otherwise specified in the Contract. Painted housings shall withstand  
21 a 1,000 hour salt spray test as specified in ASTM B117.

22

23 Each housing shall include a four bolt slip-fitter mount capable of accepting a  
24 nominal 2" tenon and adjustable within +/- 5 degrees of the axis of the tenon.  
25 The clamping bracket(s) and the cap screws shall not bottom out on the  
26 housing bosses when adjusted within the +/- 5 degree range. No part of the  
27 slipfitter mounting brackets on the luminaires shall develop a permanent set  
28 in excess of 0.2 inch when the cap screws used for mounting are tightened  
29 to a torque of 32 foot-pounds. Each luminaire shall include leveling  
30 reference points for both transverse and longitudinal adjustment.

31

32 All luminaires shall include shorting caps when shipped. The caps shall be  
33 removed and provided to the Contracting Agency when an alternate control  
34 device is required to be installed in the photocell socket. House side shields  
35 shall be included when required by the Contract. Order codes shall be  
36 modified to the minimum extent necessary to include the option for house  
37 side shields.

38

39 This section is supplemented with the following new subsections:

40

41 **9-29.10(1)A High Pressure Sodium (HPS) Conventional Roadway**  
42 **Luminaires**

43 HPS conventional roadway luminaires shall meet the following requirements:

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  - 31
1. General shape shall be “cobrahead” style, with flat glass lens and full cutoff optics.
  2. Light pattern distribution shall be IES Type III.
  3. 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.
  5. 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 90 degrees nadir. Gaskets shall be composed of material capable of withstanding the temperatures involved and shall be securely held in place.
  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).
  7. Each luminaire shall be capable of accepting a 150, 200, 250, 310, or 400 watt lamp complete and associated ballast. Lamps shall mount horizontally.

**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.

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

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 mounted either to the interior of the luminaire housing or to the removable  
2 door itself.

3  
4 LED drivers shall be removable for user replacement. All internal modular  
5 components shall be connected by means of mechanical plug and socket  
6 type quick disconnects. Wire nuts may not be used for any purpose. All  
7 external electrical connections to the luminaire shall be made through the  
8 terminal block.

9  
10 LED luminaires shall include a 7-pin NEMA photocell receptacle. The LED  
11 driver(s) shall be dimmable from ten volts to zero volts. LED output shall  
12 have a Correlated Color Temperature (CCT) of 4000K nominal (4000-4300K)  
13 and a Color Rendering Index (CRI) of 70 or greater. LED output shall be a  
14 minimum of 85% at 75,000 hours at 25 degrees Celsius.

15  
16 LED luminaires shall be available for 120V, 240V, and 480V supply voltages.  
17 Voltages refer to the supply voltages to the luminaires present in the field.  
18 LED power usage shall not exceed the following maximum values for the  
19 applicable wattage class:  
20

Class	Max. Wattage
200W	110W
250W	165W
310W	210W
400W	275W

21  
22 Only one brand of LED conventional roadway luminaire may be used on a  
23 Contract. They do not necessarily have to be the same brand as any high-  
24 mast, underdeck, or wall-mount luminaires when those types of luminaires  
25 are specified in the Contract. LED luminaires shall include a standard 10  
26 year manufacturer warranty.

27  
28 The list of pre-approved LED Conventional Roadway Luminaires is available  
29 at <http://www.wsdot.wa.gov/Design/Traffic/ledluminaires.htm>.

30  
31 **9-29.10(2) Decorative Luminaires**  
32 This section, including title, is revised to read:

33  
34 **9-29.10(2) Vacant**

35  
36 **9-29.12 Electrical Splice Materials**  
37 This section is supplemented with the following new subsections:

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**9-29.12(3) Splice Enclosures**

**9-29.12(3)A Heat Shrink Splice Enclosure**

Heat shrink splice enclosures shall be medium or heavy wall cross-linked polyolefin, meeting the requirements of AMS-DTL-23053/15, with thermoplastic adhesive sealant. Heat shrink splices used for “wye” connections require rubber electrical mastic tape.

**9-29.12(3)B Molded Splice Enclosure**

Molded splice enclosures shall use epoxy resin in a clear rigid plastic mold. The material used shall be compatible with the insulation material of the insulated conductor or cable. The component materials of the resin insulation shall be packaged ready for convenient mixing without removing from the package.

**9-29.12(4) Re-Enterable Splice Enclosure**

Re-enterable splice enclosures shall use either dielectric grease or a flexible resin contained in a two-piece plastic mold. The mold shall either snap together or use stainless steel hose clamps.

**9-29.12(5) Vinyl Electrical Tape for Splices**

Vinyl electrical tape in splicing applications shall meet the requirements of MIL-I-24391C.

**9-29.12(1) Illumination Circuit Splices**

This section is revised to read:

Underground illumination circuit splices shall be solderless crimped connections capable of securely joining the wires, both mechanically and electrically, as defined in Section 8-20.3(8). Aerial illumination splices shall be solderless crimp connectors or split bolt vice-type connectors.

**9-29.12(1)A Heat Shrink Splice Enclosure**

This section is deleted in its entirety.

**9-29.12(1)B Molded Splice Enclosure**

This section is deleted in its entirety.

**9-29.12(2) Traffic Signal Splice Material**

This section is revised to read:

Induction loop splices and magnetometer splices shall use an uninsulated barrel-type crimped connector capable of being soldered.

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**9-29.13(10)D Cabinets for Type 170E and 2070 Controllers**

The first sentence of item number 4 is revised to read:

A disposable paper filter element with dimensions of 12" x 16" x 1" shall be provided in lieu of a metal filter.

Item number 6 is revised to read:

6. LED light strips shall be provided for cabinet lighting, powered from the Equipment breaker on the Power Distribution Assembly. Each LED light strip shall be approximately 12 inches long, have a minimum output of 320 lumens, and have a 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 lighting is not permitted. Light strips shall be installed in the locations shown in the Standard Plans. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. All lighting fixtures above a rack shall energize automatically when either door to that respective rack is opened. Each door switch shall be labeled "Light".

Item number 7 is revised to read:

7. Rack mounted equipment shall be as shown in the Standard Plans. The cabinet shall use PDA #2LX and Output File #1LX. Where an Auxiliary Output File is required, Output File #2LX shall also be included.

This section is supplemented with the following new item:

9. The PCB connectors for Field Terminal Blocks FT1 through FT6 on Output Files #1LX and #2LX shall be capable of accepting minimum 14 AWG field wiring, have a pitch of 5.08 mm, and use screw flange type locking to secure the plug and socket connection. The sockets on the Field Terminal Panel shall be secured to the panel such that unplugging a connector will not result in the socket moving or separating from the panel.

**9-29.13(11) Cabinets for Type 170E and 2070 Controllers**

Item number 2 is revised to read:

2. Rack mounted equipment shall be as shown in the Standard Plans.

Item number 3 is revised to read:

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- 3. PDA #3LX shall be furnished with three Model 200 Load Switches installed. PDA #3LX shall be modified to include a second Model 430 transfer relay, mounted on the rear of the PDA and wired as shown in the Standard Plans.

**9-29.13(12) ITS Cabinet**

This section's title is revised to read:

**Type 331L ITS Cabinet**

The first paragraph (excluding the numbered list) is revised to read:

Basic ITS cabinets shall be Model 331L Cabinets, unless otherwise specified in the Contract. Type 331L Cabinets shall be constructed in accordance with the TEES, with the following modifications:

Item number 6 of the first paragraph is revised to read:

- 6. LED light strips shall be provided for cabinet lighting, powered from the Equipment breaker on the Power Distribution Assembly. Each LED light strip shall be approximately 12 inches long, have a minimum output of 320 lumens, and have a 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 lighting is not permitted. Light strips shall be installed in the locations shown in the Standard Plans. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment. All lighting fixtures above a rack shall energize automatically when either door to that respective rack is opened. Each door switch shall be labeled “Light”.

**9-29.16(2)E Painting Signal Heads**

In the first sentence, “Federal Standard 595” is revised to read “SAE AMS Standard 595”.

**9-29.17 Signal Head Mounting Brackets and Fittings**

In the first paragraph, item number 2 under **Stainless Steel** is revised to read:

- 2. Bands or cables for Type N mount.

**9-29.20 Pedestrian Signals**

In item 2C of the second paragraph, “Federal Standard 595” is revised to read “SAE AMS Standard 595”.

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**9-29.24 Service Cabinets**

The third sentence of item number 6 is revised to read:

The dead front cover shall have cutouts for the entire breaker array, with blank covers where no circuit breakers are installed.

Item number 8 is revised to read:

8. Lighting contactors shall meet the requirements of Section 9-29.24(2).

The last sentence of item number 10 is revised to read:

Dead front panels shall prevent access to any exposed, live components, and shall cover all equipment except for circuit breakers (including blank covers), the photocell test/bypass switch, and the GFCI receptacle.

**9-29.24(2) Electrical Circuit Breakers and Contactors**

This section is revised to read:

All circuit breakers shall be bolt-on type, with the RMS-symmetrical interrupting capacity described in this Section. Circuit breakers for 120/240/277 volt circuits shall be rated at 240 or 277 volts, as applicable, with an interrupting capacity of not less than 10,000 amperes. Circuit breakers for 480 volt circuits shall be rated at 480 volts, and shall have an interrupting capacity of not less than 14,000 amperes.

Lighting contactors shall be rated for tungsten or ballasted (such as sodium vapor, mercury vapor, metal halide, and fluorescent) lamp loads. Contactors for 120/240/277 volt circuits shall be rated at 240 volts maximum line to line voltage, or 277 volts maximum line to neutral voltage, as applicable. Contactors for 480 volt circuits shall be rated at 480 volt maximum line to line voltage.

9-33.AP9

**Section 9-33, Construction Geosynthetic  
August 6, 2018**

**9-33.4(1) Geosynthetic Material Approval**

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

If the geosynthetics material is not listed in the current WSDOT QPL, a Manufacturer's Certificate of Compliance including Certified Test Reports of

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1 each proposed geosynthetic shall be submitted to the State Materials  
2 Laboratory in Tumwater for evaluation.

3  
4 The last paragraph is revised to read:

5  
6 Geosynthetics used as reinforcement in permanent geosynthetic retaining  
7 walls, reinforced slopes, reinforced embankments, and other geosynthetic  
8 reinforcement applications require proof of compliance with the National  
9 Transportation Product Evaluation Program (NTPEP) in accordance with  
10 AASHTO Standard Practice R 69, Standard Practice for Determination of  
11 Long-Term Strength for Geosynthetic Reinforcement.

12  
13 **Section 9-34, Pavement Marking Material**  
14 **January 7, 2019**

15 **9-34.2(2) Color**

16 The first sentence is revised to read:

17  
18 Paint draw-downs shall be prepared according to ASTM D823.

19  
20 Each reference to "Federal Standard 595" is revised to read "SAE AMS Standard  
21 595".

22  
23 **9-34.2(3) Prohibited Materials**

24 This section is revised to read:

25  
26 Traffic paint shall not contain mercury, lead, chromium, diarylide pigments,  
27 toluene, chlorinated solvents, hydrolysable chlorine derivatives, ethylene-  
28 based glycol ethers and their acetates, nor any other EPA hazardous waste  
29 material over the regulatory levels in accordance with CFR 40 Part 261.24.

30  
31 **9-34.2(5) Low VOC Waterborne Paint**

32 The heading "Standard Waterborne Paint" is supplemented with "Type 1 and 2".

33  
34 The heading "High-Build Waterborne Paint" is supplemented with "Type 4".

35  
36 The heading "Cold Weather Waterborne Paint" is supplemented with "Type 5".

37  
38 In the row beginning with "° @90°F", each minimum value is revised to read "60".

39  
40 In the row beginning with "Fineness of Grind, (Hegman Scale)", each minimum  
41 value is revised to read "3".

42

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AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

1 The last four rows are replaced with the following:

2

Vehicle Composition	ASTM D 2621	100% acrylic emulsion	100% cross-linking acrylic <sup>4</sup>	100% acrylic emulsion
Freeze-Thaw Stability, KU	ASTM D 2243 and D 562	@ 5 cycles show no coagulation or change in viscosity greater than $\pm 10$ KU	@ 5 cycles show no coagulation or change in viscosity greater than $\pm 10$ KU	@ 3 cycles show no coagulation or change in viscosity greater than $\pm 10$ KU
Heat Stability	ASTM D 562 <sup>2</sup>	$\pm 10$ KU from the initial viscosity	$\pm 10$ KU from the initial viscosity	$\pm 10$ KU from the initial Viscosity
Low Temperature Film Formation	ASTM D 2805 <sup>3</sup>	No Cracks*		No Cracks
Cold Flexibility <sup>5</sup>	ASTM D522	Pass at 0.5 in mandrel*		
Test Deck Durability <sup>6</sup>	ASTM D913	$\geq 70\%$ paint retention in wheel track*		
Mud Cracking	(See note 7)	No Cracks	No Cracks	

3

4 After the preceding Amendments are applied, the following new column is  
5 inserted after the "Standard Waterborne Paint Type 1 and 2" column:

6

<b>Semi-Durable Waterborne Paint Type 3</b>			
<b>White</b>		<b>Yellow</b>	
<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
Within $\pm 0.3$ of qualification sample			
80	95	80	95
60		60	
77		77	
	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 $\pm 10$ KU			
$\pm 10$ KU from the initial viscosity			
No Cracks			
Pass at 0.25 in mandrel			
$\geq 70\%$ paint retention in wheel track			
No Cracks			

7

8 The footnotes are supplemented with the following:

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<sup>4</sup>Cross-linking acrylic shall meet the requirements of federal specification TT-P-1952F Section 3.1.1.

<sup>5</sup>Cold Flexibility: The paint shall be applied to an aluminum panel at a wet film thickness of 15 mils and allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for 24 hours. A cylindrical mandrel apparatus (in accordance with ASTM D522 method B) shall be put in a 40°F refrigerator when the paint is drawn down. After 24 hours, the aluminum panel with dry paint shall be put in the 40°F refrigerator with the mandrel apparatus for 2 hours. After 2 hours, the panel and test apparatus shall be removed and 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 mandrel bar of specified diameter.

<sup>6</sup>NTPEP test deck, or a test deck conforming to ASTM D713, shall be conducted for a minimum of six months with the following additional requirements: it shall be applied at 15 wet mils to a test deck that is located at 40N latitude or higher with at least 10,000 ADT and which was applied during the months of September through November.

<sup>7</sup>Paint is applied to an approximately 4"x12" aluminum panel using a drawdown bar with a 50 mil gap. The coated panel is allowed to dry under ambient conditions (50±10% RH and 72±5 °F) for 24 hours. Visual evaluation of the dry film shall reveal no cracks.

**9-34.3 Plastic**

In the first sentence of the last paragraph, "Federal Standard 595" is revised to read "SAE AMS Standard 595".

**9-34.3(2) Type B – Pre-Formed Fused Thermoplastic**

In the last two paragraphs, each reference to "Federal Standard 595" is revised to read "SAE AMS Standard 595".

**9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate**

The Test Method value for **Adhesion to PCC or HMA, psi** is revised to read "ASTM D4541".

**9-34.4 Glass Beads for Pavement Marking Materials**

In the Test Method column of the table titled Metal Concentration Limits, "EPA 3052 SW-846 6010C" is revised to read "EPA 3052 SW-846 6010D".

AMENDMENTS TO THE STANDARD SPECIFICATIONS- Continued

- 1 **9-34.5(1) Temporary Pavement Marking Tape – Short Duration**
- 2 This section, including title, is revised to read:
- 3
- 4 **9-34.5(1) Temporary Pavement Marking Tape – Short Duration**
- 5 **(Removable)**
- 6 Temporary pavement marking tape for short duration (usage is for up to two
- 7 months) shall conform to ASTM D4592 Type II except that black tape, black
- 8 mask tape and the black portion of the contrast removable tape, shall be
- 9 non-reflective.
- 10
- 11 **9-34.5(2) Temporary Pavement Marking Tape – Long Duration**
- 12 This section's title is revised to read:
- 13
- 14 **Temporary Pavement Marking Tape – Long Duration (Non-Removable)**
- 15
- 16 The first sentence is revised to read:
- 17
- 18 Temporary pavement marking tape for long duration (usage is for greater
- 19 than two months and less than one year) shall conform to ASTM D4592 Type
- 20 II.
- 21
- 22 ASTM E2176 is deleted from the second sentence.
- 23
- 24 **9-34.7(1) Requirements**
- 25 The first paragraph is revised to read:
- 26
- 27 Field performance evaluation is required for low VOC solvent-based paint
- 28 per Section 9-34.2(4), Type A – liquid hot applied thermoplastic per Section
- 29 9-34.3(1), Type B – preformed fused thermoplastic per Section 9-34.3(2),
- 30 Type C – cold applied preformed tape per Section 9-34.3(3), and Type D –
- 31 liquid applied methyl methacrylate per Section 9-34.3(4).
- 32
- 33 The last paragraph is deleted.
- 34
- 35 **9-34.7(1)C Auto No-Track Time**
- 36 The first paragraph is revised to read:
- 37
- 38 Auto No-Track Time will only be required for low VOC solvent-based paint in
- 39 accordance with Section 9-34.2(4).
- 40
- 41 The second and third sentences of the second paragraph are deleted.

City of Mill Creek  
Surface Water Aging Infrastructure (2019 Grade F Pipe Repairs)  
Project No. 19-SW-01



PART 5  
Wages Rates

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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: 3/29/2019**

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

Snohomish	<a href="#">Divers &amp; Tenders</a>	Remote Operated Vehicle Tender	\$60.29	<u>5A</u>	<u>4C</u>	
Snohomish	<a href="#">Dredge Workers</a>	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	<a href="#">Dredge Workers</a>	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
Snohomish	<a href="#">Dredge Workers</a>	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	<a href="#">Dredge Workers</a>	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
Snohomish	<a href="#">Dredge Workers</a>	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
Snohomish	<a href="#">Dredge Workers</a>	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	<a href="#">Dredge Workers</a>	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
Snohomish	<a href="#">Drywall Applicator</a>	Journey Level	\$58.48	<u>5D</u>	<u>1H</u>	
Snohomish	<a href="#">Drywall Tapers</a>	Journey Level	\$59.32	<u>5P</u>	<u>1E</u>	
Snohomish	<a href="#">Electrical Fixture Maintenance Workers</a>	Journey Level	\$13.76		<u>1</u>	
Snohomish	<a href="#">Electricians - Inside</a>	Cable Splicer	\$71.52	<u>7H</u>	<u>1E</u>	
Snohomish	<a href="#">Electricians - Inside</a>	Construction Stock Person	\$34.97	<u>7H</u>	<u>1D</u>	
Snohomish	<a href="#">Electricians - Inside</a>	Journey Level	\$66.89	<u>7H</u>	<u>1E</u>	
Snohomish	<a href="#">Electricians - Motor Shop</a>	Craftsman	\$15.37		<u>1</u>	
Snohomish	<a href="#">Electricians - Motor Shop</a>	Journey Level	\$14.69		<u>1</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Cable Splicer	\$79.60	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Certified Line Welder	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Groundperson	\$47.94	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Heavy Line Equipment Operator	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Journey Level Lineperson	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Line Equipment Operator	\$62.06	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Meter Installer	\$47.94	<u>5A</u>	<u>4D</u>	<u>8W</u>
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Pole Sprayer	\$72.98	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electricians - Powerline Construction</a>	Powderperson	\$54.55	<u>5A</u>	<u>4D</u>	
Snohomish	<a href="#">Electronic Technicians</a>	Electronic Technicians Journey Level	\$43.70	<u>5B</u>	<u>1B</u>	
Snohomish	<a href="#">Elevator Constructors</a>	Mechanic	\$94.22	<u>7D</u>	<u>4A</u>	
Snohomish	<a href="#">Elevator Constructors</a>	Mechanic In Charge	\$101.73	<u>7D</u>	<u>4A</u>	
Snohomish	<a href="#">Fabricated Precast Concrete Products</a>	Journey Level	\$13.50		<u>1</u>	
Snohomish	<a href="#">Fabricated Precast Concrete Products</a>	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>	
Snohomish	<a href="#">Fence Erectors</a>	Fence Erector	\$41.45	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Fence Erectors</a>	Fence Laborer	\$41.45	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Flaggers</a>	Journey Level	\$41.45	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Glaziers</a>	Journey Level	\$64.56	<u>7L</u>	<u>1Y</u>	

Snohomish	<a href="#">Heat &amp; Frost Insulators And Asbestos Workers</a>	Journeyman	\$73.58	<u>5J</u>	<u>4H</u>	
Snohomish	<a href="#">Heating Equipment Mechanics</a>	Journey Level	\$82.51	<u>7F</u>	<u>1E</u>	
Snohomish	<a href="#">Hod Carriers &amp; Mason Tenders</a>	Journey Level	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Industrial Power Vacuum Cleaner</a>	Journey Level	\$12.00		<u>1</u>	
Snohomish	<a href="#">Inland Boatmen</a>	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>	
Snohomish	<a href="#">Inland Boatmen</a>	Cook	\$56.48	<u>5B</u>	<u>1K</u>	
Snohomish	<a href="#">Inland Boatmen</a>	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>	
Snohomish	<a href="#">Inland Boatmen</a>	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>	
Snohomish	<a href="#">Inland Boatmen</a>	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>	
Snohomish	<a href="#">Inland Boatmen</a>	Mate	\$57.31	<u>5B</u>	<u>1K</u>	
Snohomish	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Cleaner Operator, Foamer Operator	\$12.00		<u>1</u>	
Snohomish	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Grout Truck Operator	\$12.00		<u>1</u>	
Snohomish	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Head Operator	\$12.78		<u>1</u>	
Snohomish	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Technician	\$12.00		<u>1</u>	
Snohomish	<a href="#">Inspection/Cleaning/Sealing Of Sewer &amp; Water Systems By Remote Control</a>	Tv Truck Operator	\$12.00		<u>1</u>	
Snohomish	<a href="#">Insulation Applicators</a>	Journey Level	\$60.04	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Ironworkers</a>	Journeyman	\$69.28	<u>7N</u>	<u>1O</u>	
Snohomish	<a href="#">Laborers</a>	Air, Gas Or Electric Vibrating Screed	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Airtrac Drill Operator	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Ballast Regular Machine	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Batch Weighman	\$41.45	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Brick Pavers	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Brush Cutter	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Brush Hog Feeder	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Burner	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Caisson Worker	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Carpenter Tender	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Caulker	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Cement Dumper-paving	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Cement Finisher Tender	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Change House Or Dry Shack	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Chipping Gun (under 30 Lbs.)	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Chipping Gun(30 Lbs. And Over)	\$49.81	<u>7A</u>	<u>3I</u>	

Snohomish	<a href="#">Laborers</a>	Choker Setter	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Chuck Tender	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Clary Power Spreader	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Clean-up Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Concrete Dumper/chute Operator	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Concrete Form Stripper	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Concrete Placement Crew	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Concrete Saw Operator/core Driller	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Crusher Feeder	\$41.45	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Curing Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Demolition: Wrecking & Moving (incl. Charred Material)	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Ditch Digger	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Diver	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Drill Operator (hydraulic,diamond)	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Dry Stack Walls	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Dump Person	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Epoxy Technician	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Erosion Control Worker	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Faller & Bucker Chain Saw	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Fine Graders	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Firewatch	\$41.45	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Form Setter	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Gabian Basket Builders	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	General Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Grade Checker & Transit Person	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Grinders	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Grout Machine Tender	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Groutmen (pressure)including Post Tension Beams	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Guardrail Erector	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Hazardous Waste Worker (level A)	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Hazardous Waste Worker (level B)	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Hazardous Waste Worker (level C)	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	High Scaler	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Jackhammer	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Laserbeam Operator	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Maintenance Person	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Manhole Builder-mudman	\$49.81	<u>7A</u>	<u>3I</u>	

Snohomish	<a href="#">Laborers</a>	Material Yard Person	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Motorman-dinky Locomotive	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pavement Breaker	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pilot Car	\$41.45	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pipe Layer Lead	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pipe Layer/tailor	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pipe Pot Tender	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pipe Reliner	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pipe Wrapper	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Pot Tender	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Powderman	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Powderman's Helper	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Power Jacks	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Railroad Spike Puller - Power	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Raker - Asphalt	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Re-timberman	\$50.42	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Remote Equipment Operator	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Rigger/signal Person	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Rip Rap Person	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Rivet Buster	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Rodder	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Scaffold Erector	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Scale Person	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Sloper (over 20")	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Sloper Sprayer	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Spreader (concrete)	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Stake Hopper	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Stock Piler	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Tamper & Similar Electric, Air & Gas Operated Tools	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Tamper (multiple & Self-propelled)	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Toolroom Person (at Jobsite)	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Topper	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Track Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Track Liner (power)	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Traffic Control Laborer	\$44.33	<u>7A</u>	<u>3I</u>	<u>8R</u>
Snohomish	<a href="#">Laborers</a>	Traffic Control Supervisor	\$44.33	<u>7A</u>	<u>3I</u>	<u>8R</u>
Snohomish	<a href="#">Laborers</a>	Truck Spotter	\$48.90	<u>7A</u>	<u>3I</u>	

Snohomish	<a href="#">Laborers</a>	Tugger Operator	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 0-30 psi	\$107.60	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$112.63	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$116.31	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$122.01	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$124.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$129.23	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$131.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$133.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$135.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Guage and Lock Tender	\$50.52	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Tunnel Work-Miner	\$50.52	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	<a href="#">Laborers</a>	Vibrator	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Vinyl Seamer	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Watchman	\$37.67	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Welder	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Well Point Laborer	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers</a>	Window Washer/cleaner	\$37.67	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers - Underground Sewer &amp; Water</a>	General Laborer & Topman	\$48.90	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Laborers - Underground Sewer &amp; Water</a>	Pipe Layer	\$49.81	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Landscape Construction</a>	Landscape Laborer	\$37.67	<u>7A</u>	<u>3I</u>	
Snohomish	<a href="#">Landscape Construction</a>	Landscape Operator	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Landscape Maintenance</a>	Groundskeeper	\$14.13		<u>1</u>	
Snohomish	<a href="#">Lathers</a>	Journey Level	\$58.48	<u>5D</u>	<u>1H</u>	
Snohomish	<a href="#">Marble Setters</a>	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Metal Fabrication (In Shop)</a>	Fitter	\$15.38		<u>1</u>	
Snohomish	<a href="#">Metal Fabrication (In Shop)</a>	Laborer	\$12.00		<u>1</u>	
Snohomish	<a href="#">Metal Fabrication (In Shop)</a>	Machine Operator	\$12.00		<u>1</u>	
Snohomish	<a href="#">Metal Fabrication (In Shop)</a>	Painter	\$12.00		<u>1</u>	
Snohomish	<a href="#">Metal Fabrication (In Shop)</a>	Welder	\$15.38		<u>1</u>	
Snohomish	<a href="#">Millwright</a>	Journey Level	\$61.54	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Modular Buildings</a>	Journey Level	\$12.00		<u>1</u>	
Snohomish	<a href="#">Painters</a>	Journey Level	\$42.50	<u>6Z</u>	<u>2B</u>	
Snohomish	<a href="#">Pile Driver</a>	Crew Tender/Technician	\$64.71	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>		\$74.87	<u>5D</u>	<u>4C</u>	

		Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI				
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$79.87	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$83.87	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$88.87	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$91.37	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$96.37	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$98.37	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$100.37	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$102.37	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Journey Level	\$60.29	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Pile Driver</a>	Manifold Operator (LST)	\$69.71	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Plasterers</a>	Journey Level	\$56.54	<u>7Q</u>	<u>1R</u>	
Snohomish	<a href="#">Playground &amp; Park Equipment Installers</a>	Journey Level	\$12.00		<u>1</u>	
Snohomish	<a href="#">Plumbers &amp; Pipefitters</a>	Journey Level	\$71.42	<u>5A</u>	<u>1G</u>	
Snohomish	<a href="#">Power Equipment Operators</a>	Asphalt Plant Operators	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Assistant Engineer	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Barrier Machine (zipper)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Batch Plant Operator: concrete	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Bobcat	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Brokk - Remote Demolition Equipment	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Brooms	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Bump Cutter	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Cableways	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Chipper	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Compressor	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Concrete Finish Machine - Laser Screed	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>



Snohomish	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Conveyors	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Cranes friction: 200 tons and over	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	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	<a href="#">Power Equipment Operators</a>	Cranes: 20 Tons Through 44 Tons With Attachments	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	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	<a href="#">Power Equipment Operators</a>	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	<a href="#">Power Equipment Operators</a>	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	<a href="#">Power Equipment Operators</a>	Cranes: A-frame - 10 Tons And Under	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Cranes: Friction cranes through 199 tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Crusher	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Deck Engineer/Deck Winches (power)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Derricks, On Building Work	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Dozers D-9 & Under	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Drilling Machine	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Elevator And Man-lift: Permanent And Shaft Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Forklift: 3000 Lbs And Over With Attachments	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Forklifts: Under 3000 Lbs. With Attachments	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Gradechecker/Stakeman	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>

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

Snohomish	<a href="#">Power Equipment Operators</a>	Pumps - Water	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Quad 9, Hd 41, D10 And Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Rigger and Bellman	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Rigger/Signal Person, Bellman (Certified)	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Rollagon	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Roller, Other Than Plant Mix	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Roller, Plant Mix Or Multi-lift Materials	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Roto-mill, Roto-grinder	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Saws - Concrete	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Scraper, Self Propelled Under 45 Yards	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Scrapers - Concrete & Carry All	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Scrapers, Self-propelled: 45 Yards And Over	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Service Engineers - Equipment	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Shotcrete/Gunite Equipment	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Slipform Pavers	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Spreader, Topsider & Screedman	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Subgrader Trimmer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Tower Bucket Elevators	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Tower Crane Up To 175' In Height Base To Boom	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Tower Crane: over 175' through 250' in height, base to boom	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>

Snohomish	<a href="#">Power Equipment Operators</a>	Tower Cranes: over 250' in height from base to boom	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Transporters, All Track Or Truck Type	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Trenching Machines	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Truck Crane Oiler/driver - 100 Tons And Over	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Truck Crane Oiler/Driver Under 100 Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Truck Mount Portable Conveyor	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Welder	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Wheel Tractors, Farmall Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators</a>	Yo Yo Pay Dozer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Asphalt Plant Operators	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Assistant Engineer	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Barrier Machine (zipper)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Batch Plant Operator, Concrete	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Bobcat	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Brokk - Remote Demolition Equipment	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Brooms	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Bump Cutter	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cableways	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Chipper	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Compressor	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Finish Machine - Laser Screed	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Conveyors	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes friction: 200 tons and over	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>

Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	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	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: 20 Tons Through 44 Tons With Attachments	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	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	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	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	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	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	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: A-frame - 10 Tons And Under	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: Friction cranes through 199 tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Crusher	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Deck Engineer/Deck Winches (power)	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Derricks, On Building Work	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Dozers D-9 & Under	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Drilling Machine	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Elevator And Man-lift: Permanent And Shaft Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Forklift: 3000 Lbs And Over With Attachments	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Forklifts: Under 3000 Lbs. With Attachments	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Gradechecker/Stakeman	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Guardrail Punch	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>		\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>

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



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

Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Slipform Pavers	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Spreader, Toppersider & Screedman	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Subgrader Trimmer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Bucket Elevators	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Crane Up To 175' In Height Base To Boom	\$65.48	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Crane: over 175' through 250' in height, base to boom	\$66.15	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Tower Cranes: over 250' in height from base to boom	\$66.80	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Transporters, All Track Or Truck Type	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Trenching Machines	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Crane Oiler/driver - 100 Tons And Over	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Crane Oiler/Driver Under 100 Tons	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Truck Mount Portable Conveyor	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Welder	\$64.83	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Wheel Tractors, Farmall Type	\$60.98	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Equipment Operators-Underground Sewer &amp; Water</a>	Yo Yo Pay Dozer	\$64.26	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Power Line Clearance Tree Trimmers</a>	Journey Level In Charge	\$49.96	<u>5A</u>	<u>4A</u>	
Snohomish	<a href="#">Power Line Clearance Tree Trimmers</a>	Spray Person	\$47.37	<u>5A</u>	<u>4A</u>	
Snohomish	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Equipment Operator	\$49.96	<u>5A</u>	<u>4A</u>	
Snohomish	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer	\$44.57	<u>5A</u>	<u>4A</u>	
Snohomish	<a href="#">Power Line Clearance Tree Trimmers</a>	Tree Trimmer Groundperson	\$33.60	<u>5A</u>	<u>4A</u>	
Snohomish	<a href="#">Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$70.71	<u>5A</u>	<u>1G</u>	
Snohomish	<a href="#">Residential Brick Mason</a>	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Residential Carpenters</a>	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Residential Cement Masons</a>	Journey Level	\$60.07	<u>7A</u>	<u>4U</u>	
Snohomish	<a href="#">Residential Drywall Applicators</a>	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Residential Drywall Tapers</a>	Journey Level	\$45.19	<u>5P</u>	<u>1E</u>	



Snohomish	<a href="#">Residential Electricians</a>	Journey Level	\$29.00	<u>5I</u>	<u>1E</u>	
Snohomish	<a href="#">Residential Glaziers</a>	Journey Level	\$43.00	<u>7L</u>	<u>1H</u>	
Snohomish	<a href="#">Residential Insulation Applicators</a>	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
Snohomish	<a href="#">Residential Laborers</a>	Journey Level	\$36.68	<u>7A</u>	<u>1H</u>	
Snohomish	<a href="#">Residential Marble Setters</a>	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Residential Painters</a>	Journey Level	\$42.50	<u>6Z</u>	<u>2B</u>	
Snohomish	<a href="#">Residential Plumbers &amp; Pipefitters</a>	Journey Level	\$44.34	<u>5A</u>	<u>1G</u>	
Snohomish	<a href="#">Residential Refrigeration &amp; Air Conditioning Mechanics</a>	Journey Level	\$41.01	<u>5A</u>	<u>1G</u>	
Snohomish	<a href="#">Residential Sheet Metal Workers</a>	Journey Level (Field or Shop)	\$50.01	<u>7F</u>	<u>1R</u>	
Snohomish	<a href="#">Residential Soft Floor Layers</a>	Journey Level	\$49.43	<u>5A</u>	<u>3J</u>	
Snohomish	<a href="#">Residential Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$48.18	<u>5C</u>	<u>2R</u>	
Snohomish	<a href="#">Residential Stone Masons</a>	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Residential Terrazzo Workers</a>	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Residential Terrazzo/Tile Finishers</a>	Journey Level	\$43.44	<u>5A</u>	<u>1B</u>	
Snohomish	<a href="#">Residential Tile Setters</a>	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Roofers</a>	Journey Level	\$51.52	<u>5A</u>	<u>3H</u>	
Snohomish	<a href="#">Roofers</a>	Using Irritable Bituminous Materials	\$54.52	<u>5A</u>	<u>3H</u>	
Snohomish	<a href="#">Sheet Metal Workers</a>	Journey Level (Field or Shop)	\$82.51	<u>7F</u>	<u>1E</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Boilermaker	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Carpenter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Crane Operator	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Electrician	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Heat & Frost Insulator	\$73.58	<u>5J</u>	<u>4H</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Laborer	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Machinist	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Operating Engineer	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Painter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Pipefitter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Rigger	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Sheet Metal	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Shipfitter	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Warehouse/Teamster	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	New Construction Welder / Burner	\$36.36	<u>7V</u>	<u>1</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Boilermaker	\$44.95	<u>7X</u>	<u>4J</u>	

Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Carpenter	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Crane Operator	\$44.06	<u>7Y</u>	<u>4K</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Electrician	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Heat & Frost Insulator	\$73.58	<u>5J</u>	<u>4H</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Laborer	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Machinist	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Operating Engineer	\$44.06	<u>7Y</u>	<u>4K</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Painter	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Pipefitter	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Rigger	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Sheet Metal	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Shipwright	\$44.95	<u>7X</u>	<u>4J</u>	
Snohomish	<a href="#">Shipbuilding &amp; Ship Repair</a>	Ship Repair Warehouse / Teamster	\$44.06	<u>7Y</u>	<u>4K</u>	
Snohomish	<a href="#">Sign Makers &amp; Installers (Electrical)</a>	Sign Installer	\$26.56		<u>1</u>	
Snohomish	<a href="#">Sign Makers &amp; Installers (Electrical)</a>	Sign Maker	\$20.50		<u>1</u>	
Snohomish	<a href="#">Sign Makers &amp; Installers (Non-Electrical)</a>	Sign Installer	\$22.56		<u>1</u>	
Snohomish	<a href="#">Sign Makers &amp; Installers (Non-Electrical)</a>	Sign Maker	\$20.50		<u>1</u>	
Snohomish	<a href="#">Soft Floor Layers</a>	Journey Level	\$49.43	<u>5A</u>	<u>3J</u>	
Snohomish	<a href="#">Solar Controls For Windows</a>	Journey Level	\$12.00		<u>1</u>	
Snohomish	<a href="#">Sprinkler Fitters (Fire Protection)</a>	Journey Level	\$78.39	<u>5C</u>	<u>1X</u>	
Snohomish	<a href="#">Stage Rigging Mechanics (Non Structural)</a>	Journey Level	\$13.23		<u>1</u>	
Snohomish	<a href="#">Stone Masons</a>	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Street And Parking Lot Sweeper Workers</a>	Journey Level	\$15.00		<u>1</u>	
Snohomish	<a href="#">Surveyors</a>	Assistant Construction Site Surveyor	\$62.71	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Surveyors</a>	Assistant Construction Site Surveyor	\$62.71	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Surveyors</a>	Chainman	\$58.93	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	<a href="#">Surveyors</a>	Construction Site Surveyor	\$63.76	<u>7A</u>	<u>3K</u>	<u>8X</u>
Snohomish	<a href="#">Telecommunication Technicians</a>	Telecom Technician Journey Level	\$43.70	<u>5B</u>	<u>1B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Cable Splicer	\$41.22	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Hole Digger/Ground Person	\$23.12	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Installer (Repairer)	\$39.53	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Special Aparatus Installer I	\$41.22	<u>5A</u>	<u>2B</u>	

Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Special Apparatus Installer II	\$40.41	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Telephone Equipment Operator (Heavy)	\$41.22	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Telephone Equipment Operator (Light)	\$38.36	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Telephone Lineperson	\$38.36	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Television Groundperson	\$21.92	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Television Lineperson/Installer	\$29.13	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Television System Technician	\$34.68	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Television Technician	\$31.18	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Telephone Line Construction - Outside</a>	Tree Trimmer	\$38.36	<u>5A</u>	<u>2B</u>	
Snohomish	<a href="#">Terrazzo Workers</a>	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Tile Setters</a>	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
Snohomish	<a href="#">Tile, Marble &amp; Terrazzo Finishers</a>	Finisher	\$43.44	<u>5A</u>	<u>1B</u>	
Snohomish	<a href="#">Traffic Control Stripers</a>	Journey Level	\$46.23	<u>7A</u>	<u>1K</u>	
Snohomish	<a href="#">Truck Drivers</a>	Asphalt Mix Over 16 Yards	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	<a href="#">Truck Drivers</a>	Asphalt Mix To 16 Yards	\$53.46	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	<a href="#">Truck Drivers</a>	Dump Truck	\$53.46	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	<a href="#">Truck Drivers</a>	Dump Truck & Trailer	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	<a href="#">Truck Drivers</a>	Other Trucks	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	<a href="#">Truck Drivers - Ready Mix</a>	Journey Level	\$50.94	<u>6I</u>	<u>1B</u>	
Snohomish	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Irrigation Pump Installer	\$17.05		<u>1</u>	
Snohomish	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	Oiler	\$13.93		<u>1</u>	
Snohomish	<a href="#">Well Drillers &amp; Irrigation Pump Installers</a>	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 non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

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		<b>X</b>
2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		<b>X</b>
3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		<b>X</b>
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		<b>X</b>
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		<b>X</b>
6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		<b>X</b>
7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		<b>X</b>

<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
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.		<b>X</b>
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).	<b>X</b>	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	<b>X</b>	
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.	<b>X</b>	
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).		<b>X</b>
13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	<b>X</b>	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		<b>X</b>
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		<b>X</b>
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		<b>X</b>

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<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		<b>X</b>
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		<b>X</b>
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		<b>X</b>
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		<b>X</b>
21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		<b>X</b>
22. Vault Risers - For use with Valve Vaults and Utilities  X Vaults.		<b>X</b>
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		<b>X</b>
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		<b>X</b>
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	<b>X</b>	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	<b>X</b>	

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<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	<b>X</b>	
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	<b>X</b>	
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	<b>X</b>	
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	<b>X</b>	
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.	<b>X</b>	
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	<b>X</b>	
33. Monument Case and Cover See Std. Plan.		<b>X</b>



<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
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.	<b>X</b>	
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.	<b>X</b>	
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.	<b>X</b>	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		<b>X</b>
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	<b>X</b>	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	<b>X</b>	
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	<b>X</b>	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		<b>X</b>

<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. <b>NOTE:</b> *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	<b>X</b>	<b>X</b>
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		<b>X</b>
44. Guardrail components	<b>X</b>	<b>X</b>
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		<b>X</b>
48. Electrical wiring/components		<b>X</b>
49. treated or untreated timber pile		<b>X</b>
50. Girder pads (elastomeric bearing)	<b>X</b>	
51. Standard Dimension lumber		<b>X</b>
52. Irrigation components		<b>X</b>

<b>ITEM DESCRIPTION</b>	<b>YES</b>	<b>NO</b>
53. Fencing materials		<b>X</b>
54. Guide Posts		<b>X</b>
55. Traffic Buttons		<b>X</b>
56. Epoxy		<b>X</b>
57. Cribbing		<b>X</b>
58. Water distribution materials		<b>X</b>
59. Steel "H" piles		<b>X</b>
60. Steel pipe for concrete pile casings		<b>X</b>
61. Steel pile tips, standard		<b>X</b>
62. Steel pile tips, custom	<b>X</b>	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010](#)(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

### **WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects**

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.

The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.

When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential \*\*\* ALL ASSOCIATED RATES \*\*\*
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

**Washington State Department of Labor and Industries  
Policy Statements  
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)**

**WAC 296-127-018 Agency filings affecting this section**

**Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.**

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]

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

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**Overtime Codes**

**Overtime calculations** are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
  - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
  - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
  - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
  - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
  - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
  - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

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

**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, 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 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.

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

**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.

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

**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 four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- 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 of wage.
- 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).

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

**Holiday Codes Continued**

5. 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).
6. 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-

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

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.



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

**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.



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

**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.

- X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, and Class D Suit: \$0.50. Special Shift Premium: Basic hourly rate plus \$2.00 per hour.

When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

PART 6  
Appendices

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APPENDIX A

Supplemental Bidder Responsibility Criteria Forms

**SUPPLEMENTAL BIDDER RESPONSIBILITY CRITERIA**  
SURFACE WATER AGING INFRASTRUCTURE  
(2019 GRADE F PIPE REPAIRS)

**These forms shall be completed in their entirety and submitted by the apparent two lowest Bidders to the Contracting Agency by 12:00 p.m. (noon) of the second business day following the bid submittal deadline.**

Failure to submit and meet the requirements as stated in Section 1-02 of the Special Provisions shall be grounds for rejection of the bid. The City of Mill Creek will be the sole judge in determining if the prospective contractor meets the minimum experience requirements.

Contractor:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Contact Person: \_\_\_\_\_

**2. Delinquent State Taxes**

Instructions to Bidders: Check the appropriate box

- The Bidder does not owe delinquent taxes to the Washington State Department of Revenue.
- Alternatively, the Bidder does owe delinquent taxes to the Washington State Department of Revenue.

If the Bidder owes delinquent taxes, they must submit a written payment plan approved by the Department of Revenue, to the Contracting Agency.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

**3. Claims Against Retainage and Bonds:**

Instructions to Bidders: Check the appropriate box

- The Bidder has not had claims against retainage and bonds in the three (3) years prior to the bid submittal date.
- Alternatively, the Bidder has had claims against retainage and bonds in the three (3) years prior to the bid submittal date.

If the Bidder has had claims against retainage and bonds in the 3 years prior to the bid submittal date, submit a list of public works projects completed during this period that have had claims against retainage and bonds and include name of Project, contact information for the Owner, a list of claims filed against retainage and/or payment bond for any of the projects listed, and a written explanation of circumstances surrounding each claim and the ultimate resolution of the claim.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

**4. Public Bidding Crime:**

Instructions to Bidders: Check the appropriate box

- The undersigned certifies that the Bidder and/or its Owners have not been convicted of a crime involving bidding on a public works contract in the five (5) years prior to the bid submittal date.
- Alternatively, the undersigned confirms that the Bidder and/or its Owners have been convicted of a crime involving bidding on a public works contract in the five (5) years prior to the bid submittal date.

If the Bidder and/or its Owners have been convicted of a crime involving bidding on a public works contract, provide a written explanation identifying the date of the conviction and a description of the circumstances surrounding the conviction.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

**5. Termination for Cause/Termination for Default**

Instructions to Bidders: Check the appropriate box

- The undersigned certifies that the Bidder has not had any public works contracts terminated for cause or terminated for default by a government agency in the five (5) years prior to the bid submittal date.
  
- Alternatively, the undersigned confirms that the Bidder has had public works contracts terminated for cause or terminated for default by a government agency in the five (5) years prior to the bid submittal date.

If the Bidder has had any public works contracts terminated for cause or terminated for default in the 5 years prior to the bid submittal date, provide a written explanation for all contracts terminated for cause or terminated for default by identifying the project contract that was terminated, the government agency which terminated the Contract, the date of the termination, and a description of the circumstances surrounding the termination.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)



**6. Lawsuits**

Instructions to Bidders: Check the appropriate box

- The undersigned certifies that the Bidder has not had any lawsuits with judgments entered against the Bidder in the five (5) years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts.
- Alternatively, the undersigned confirms that the Bidder has had any lawsuits with judgments entered against the Bidder in the five (5) years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts.

If the Bidder has had any lawsuits with judgments entered against the Bidder in the 5 years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, submit a list of lawsuits along with a written explanation of the circumstances surrounding each lawsuit. The Contracting Agency shall evaluate these explanations to determine whether the lawsuits demonstrate a pattern of failing to meet the terms of contracts.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

**7. Contract Time (Liquidated Damages)**

Instructions to Bidders: Check the appropriate box

- The undersigned certifies that the Bidder has not had liquidated damages assessed on any project it has completed in the five (5) years prior to the bid submittal date.
  
- Alternatively, the undersigned confirms that the Bidder has had liquidated damages assessed on projects in the five (5) years prior to the bid submittal date.

If the Bidder has had liquidated damages assessed against projects in the 5 years prior to the bid submittal date, submit a list of projects along with Owner contact information, and number of days assessed liquidated damages. The Contracting Agency shall determine whether the Contractor has a pattern of failing to complete projects within Contract Time.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Title)

**8. Contractor Capacity**

The Bidder must provide the gross dollar amount of work currently under contract, the gross dollar amount of contracts currently not completed, five major pieces of equipment anticipated to be on the project and whether the equipment is leased or owned, number of years the contractor has been in business, number of superintendents and their years of experience on staff, superintendent assigned to this project and their years of experience. Attach supplemental documentation and/or sheet pages if needed.

Contractor or Subcontractor Name: \_\_\_\_\_

Gross Dollar Amount of Work Currently Under Contract:

\_\_\_\_\_

Gross Dollar Amount of Work Currently Not Completed:

\_\_\_\_\_

<u>Five Major Pieces of Equipment</u>	<u>Leased / Owned</u>
---------------------------------------	-----------------------

1.) _____	_____
-----------	-------

2.) _____	_____
-----------	-------

3.) _____	_____
-----------	-------

4.) _____	_____
-----------	-------

5.) _____	_____
-----------	-------

<u>Superintendent</u>	<u>Years Experience</u>
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_____	_____
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_____	_____
-------	-------

_____	_____
-------	-------

_____	_____
-------	-------

_____	_____
-------	-------

<u>Assigned Superintendent</u>	<u>Years Experience</u>
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_____	_____
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**Contractor Experience**

The Bidder must have completed at least three (3) projects, of a similar size and scope, during the five (5) year period immediately preceding the bid submittal deadline for this Project. At least one project must have been successfully completed for a government agency. Attach supplemental documentation and/or sheet pages if needed.

Contractor or Subcontractor Name: \_\_\_\_\_

#1 Owner's Name and Contact Information: \_\_\_\_\_

Project Name: \_\_\_\_\_

Awarded Contract Amount: \_\_\_\_\_

Final Contract Amount: \_\_\_\_\_

Completion Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#2 Owner's Name and Contact Information: \_\_\_\_\_

Project Name: \_\_\_\_\_

Awarded Contract Amount: \_\_\_\_\_

Final Contract Amount: \_\_\_\_\_

Completion Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#3 Owner's Name and Contact Information: \_\_\_\_\_

Project Name: \_\_\_\_\_

Awarded Contract Amount: \_\_\_\_\_

Final Contract Amount: \_\_\_\_\_

Completion Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**SCIPL Contractor Requirements**

The contractor shall have at least five (5) years active and ongoing commercial SCIPL and/or CIPP installation experience. In addition, the contractor shall provide examples of, and references for, at least at least three (3) successful SCIPL pipe repair installation projects within the past five (5) years. The contractor shall be a licensed and certified installer of the SCIPL liner/resin system to be installed. Proof of certification and licensing shall be attached. Attach supplemental documentation and/or sheet pages if needed.

Contractor Name: \_\_\_\_\_

Years CIPP/SCIPL Installation Experience: \_\_\_\_\_

**SCIPL Installation Projects**

#1 Owner's Name and Contact Information: \_\_\_\_\_

Project Name: \_\_\_\_\_

Awarded Contract Amount: \_\_\_\_\_

Final Contract Amount: \_\_\_\_\_

Completion Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#2 Owner's Name and Contact Information: \_\_\_\_\_

Project Name: \_\_\_\_\_

Awarded Contract Amount: \_\_\_\_\_

Final Contract Amount: \_\_\_\_\_

Completion Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#3 Owner's Name and Contact Information: \_\_\_\_\_

Project Name: \_\_\_\_\_

Awarded Contract Amount: \_\_\_\_\_

Final Contract Amount: \_\_\_\_\_

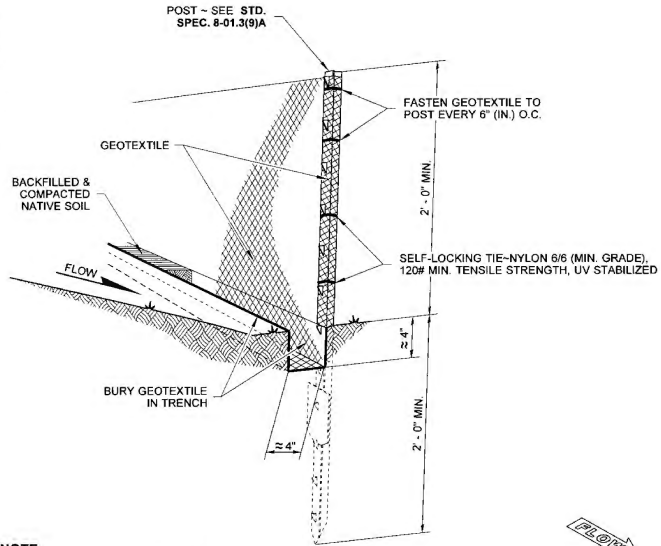
Completion Date: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPENDIX B  
Standard Plans

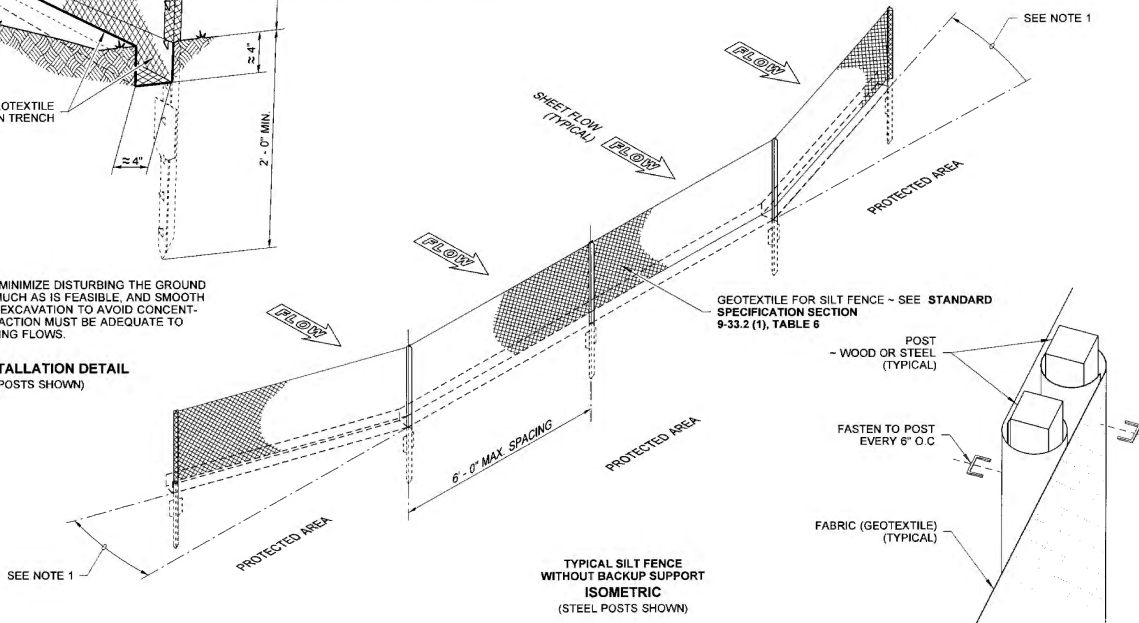
DRAWN BY: BILL BERGENS



**NOTE**

DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

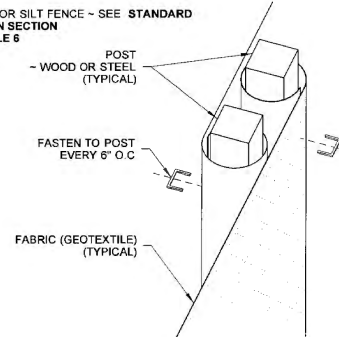
**TYPICAL INSTALLATION DETAIL**  
(STEEL POSTS SHOWN)



**TYPICAL SILT FENCE WITHOUT BACKUP SUPPORT ISOMETRIC**  
(STEEL POSTS SHOWN)

**NOTES**

1. Install the ends of the silt fence to point slightly upslope to prevent sediment from flowing around the ends of the fence.
2. Perform maintenance in accordance with **Standard Specifications 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.



SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.

**SPLICE DETAIL**  
(WOOD POSTS SHOWN)



**SILT FENCE**

**STANDARD PLAN I-30.15-02**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

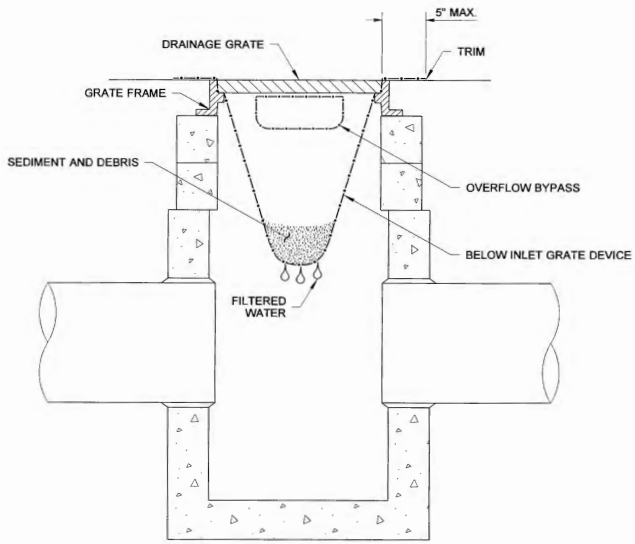
*Pamela B...* 3/20/13

STATE DESIGN ENGINEER DATE

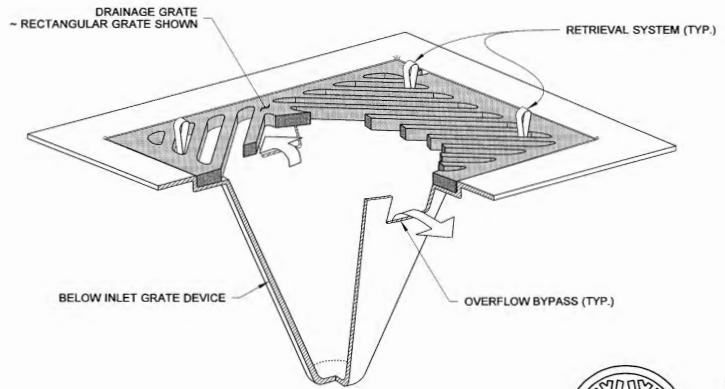
Washington State Department of Transportation



DRAWN BY: LISA CYFORD



**SECTION VIEW**  
NOT TO SCALE



**ISOMETRIC VIEW**

**NOTES**

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
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).

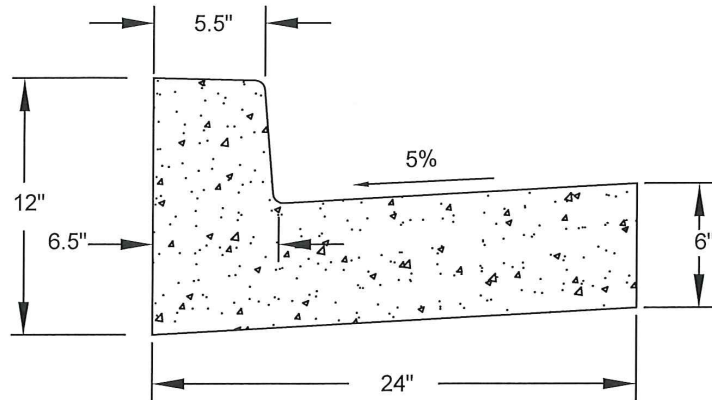


STATE OF WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT  
*Mark W. Mamer*  
MARK W. MAMER  
CERTIFICATE NO. 000598  
9/20/07

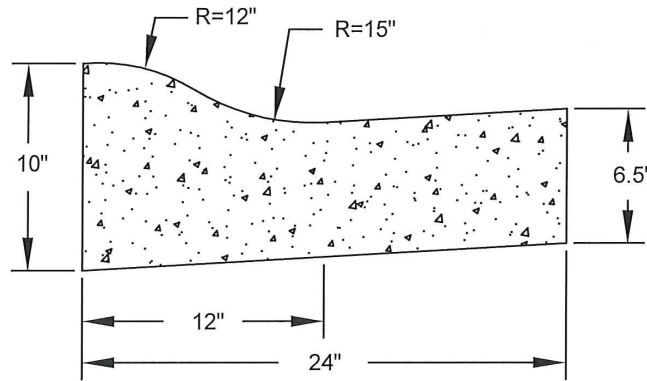
**STORM DRAIN  
INLET PROTECTION  
STANDARD PLAN I-40.20-00**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
*Dino Balotinos* 9/20/07  
STATE DESIGN ENGINEER DATE  
Washington State Department of Transportation



**VERTICAL CURB & GUTTER**



**ROLLED CURB & GUTTER**

**NOTES:**

1. Concrete shall be Class 3000 air-entrained.
2. Base shall be Crushed Surfacing Top Course per WSDOT sec. 9-03.9(3) with a minimum depth of 4 inch. In-situ native material may be used for a base if approved by the City. Sub-grade compaction shall meet a min. 95% of max. density.
3. Steel forms shall be used on all straight sections. Wood forms shall be used on radius.
4. Full depth expansion joints shall be placed at 10 feet center to center, at the top of each driveway, at top of access ramps, and on both sides of a catch basin. (Joint material shall be min. 3/8" premolded joint material factory cut to the shape of the curb. Strips of joint material shall not be stacked.)
5. Finish shall be broomed with tooled edges. All joints shall be clean.

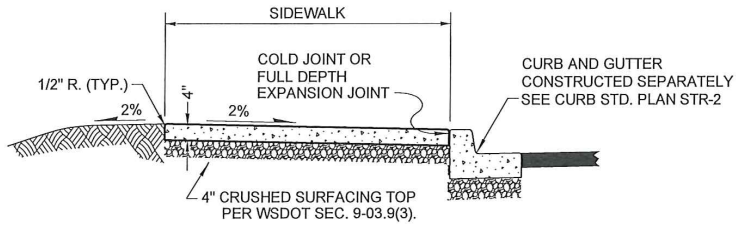


STREET  
**ROLLED AND VERTICAL CURB**  
 NOT TO SCALE

PUBLIC WORKS DEPARTMENT

PLAN NO.  
**STR-2**

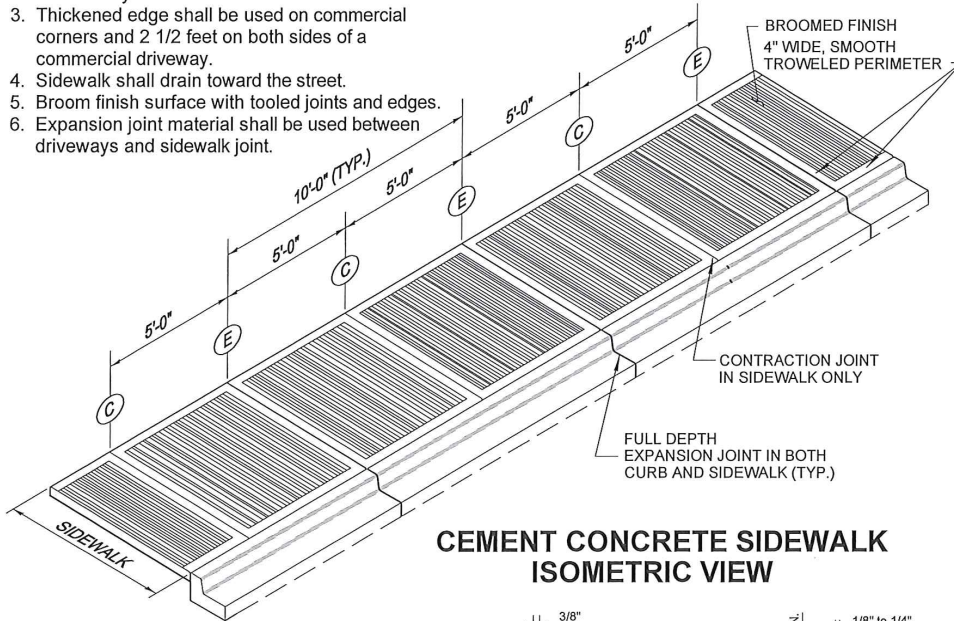
REV. DATE:  
 9/20/2016



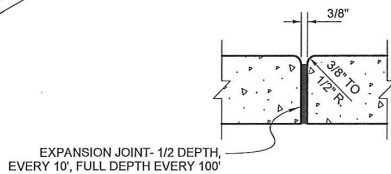
**NOTES:**

1. Concrete shall be Class 3000 air entrained.
2. Concrete thickness shall be 4" (Typical) except at driveways which shall be 6" thick.
3. Thickened edge shall be used on commercial corners and 2 1/2 feet on both sides of a commercial driveway.
4. Sidewalk shall drain toward the street.
5. Broom finish surface with tooled joints and edges.
6. Expansion joint material shall be used between driveways and sidewalk joint.

**CEMENT CONCRETE SIDEWALK SECTION**

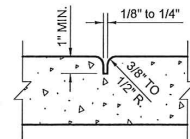


**CEMENT CONCRETE SIDEWALK ISOMETRIC VIEW**



EXPANSION JOINT- 1/2 DEPTH, EVERY 10', FULL DEPTH EVERY 100'

**(E) EXPANSION JOINT**



**(C) CONTRACTION JOINT**

**MIN. SIDEWALK WIDTHS**

RESIDENTIAL & COMMERCIAL	5 FT.
ARTERIALS	6 FT.
USE AS MULTI-PURPOSE TRAIL	10 FT.



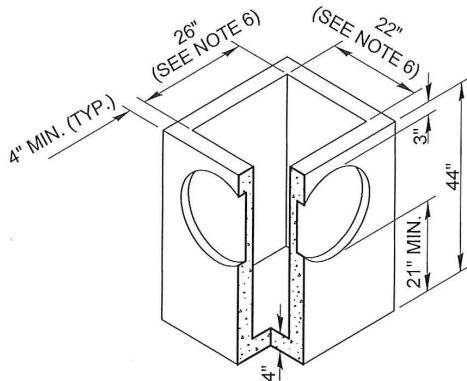
STREET  
**CEMENT CONCRETE SIDEWALK**  
 NOT TO SCALE

PUBLIC WORKS DEPARTMENT

PLAN NO.  
**STR-3**

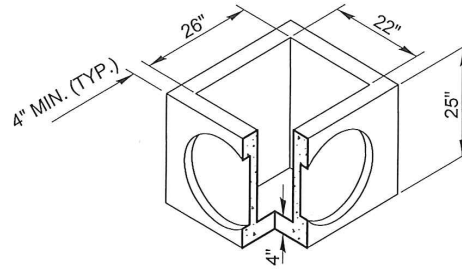
REV. DATE:  
 9/20/2016

THIS DETAIL SUPPLEMENTS INFORMATION ON WSDOT STANDARD PLANS FOR CATCH BASIN TYPE 1 AND CONCRETE INLET.



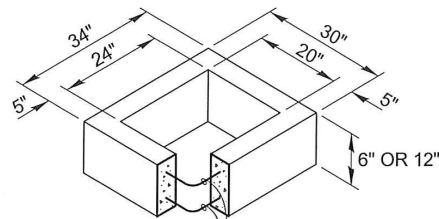
**PRECAST BASE SECTION**

REBAR NOT SHOWN FOR CLARITY.



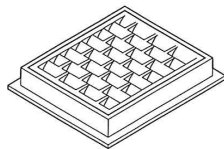
**CONCRETE INLET**

REBAR NOT SHOWN FOR CLARITY.



ONE #3 BAR HOOP FOR 6" HEIGHT  
TWO #3 BAR HOOPS FOR 12" HEIGHT

**6" or 12" CONCRETE RISER**



**FRAME AND VANED GRATE**

PIPE ALLOWANCES FOR: CATCH BASIN TYPE 1 and CONCRETE INLET.	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP* (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

\* CORRUGATED POLYETHYLENE  
STORM SEWER PIPE.

**NOTES**

1. Base to be constructed and installed in accordance with WSDOT specifications (Section 7-05) for Catch Basin Type I and Concrete Inlet, or as approved by the City Engineer.
2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with WSDOT Standard Specification 9-04.3. All side access into the base shall be through a precast knockout.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
6. The opening shall be measured at the top of the precast base section.
7. All pickup holes shall be grouted full after the basin has been placed.



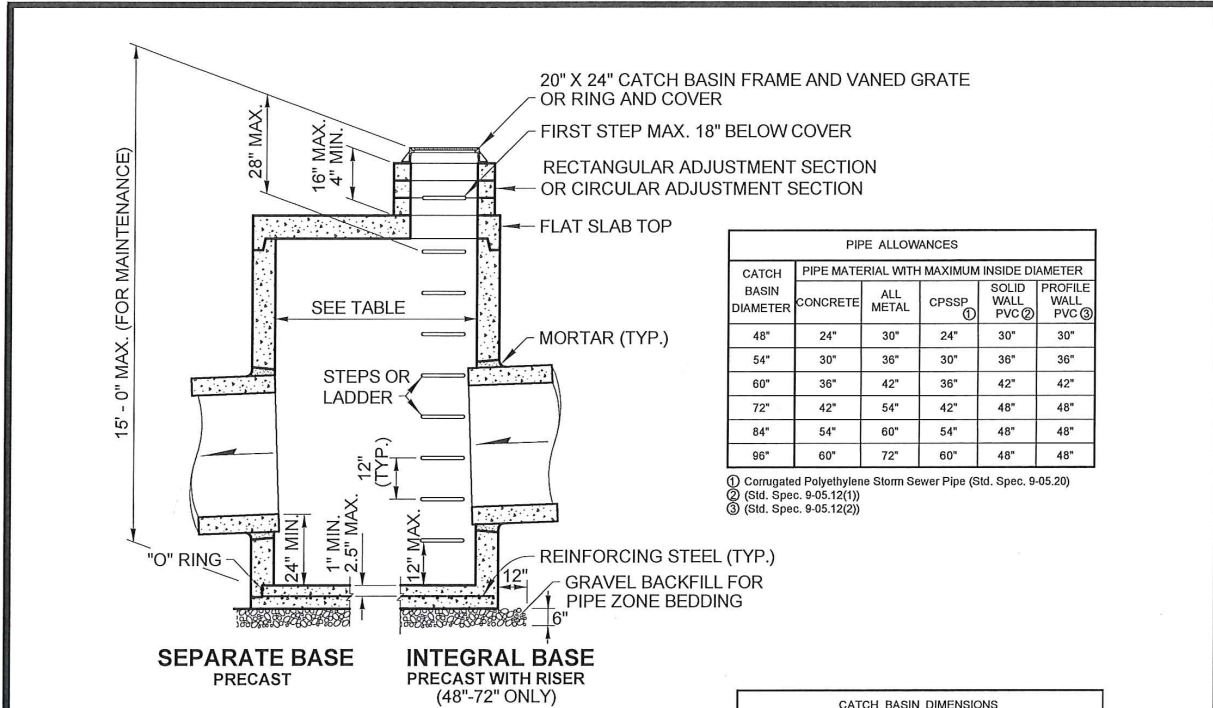
**STORM WATER  
CATCH BASIN TYPE 1 AND CONCRETE INLET**

NOT TO SCALE

PUBLIC WORKS DEPARTMENT

PLAN NO.  
**STM - 1**

REV. DATE:  
9/21/2016



CATCH BASIN DIAMETER	PIPE ALLOWANCES				
	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ①	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"

① Corrugated Polyethylene Storm Sewer Pipe (Std. Spec. 9-05.20)  
 ② (Std. Spec. 9-05.12(1))  
 ③ (Std. Spec. 9-05.12(2))

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"

**NOTES**

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.



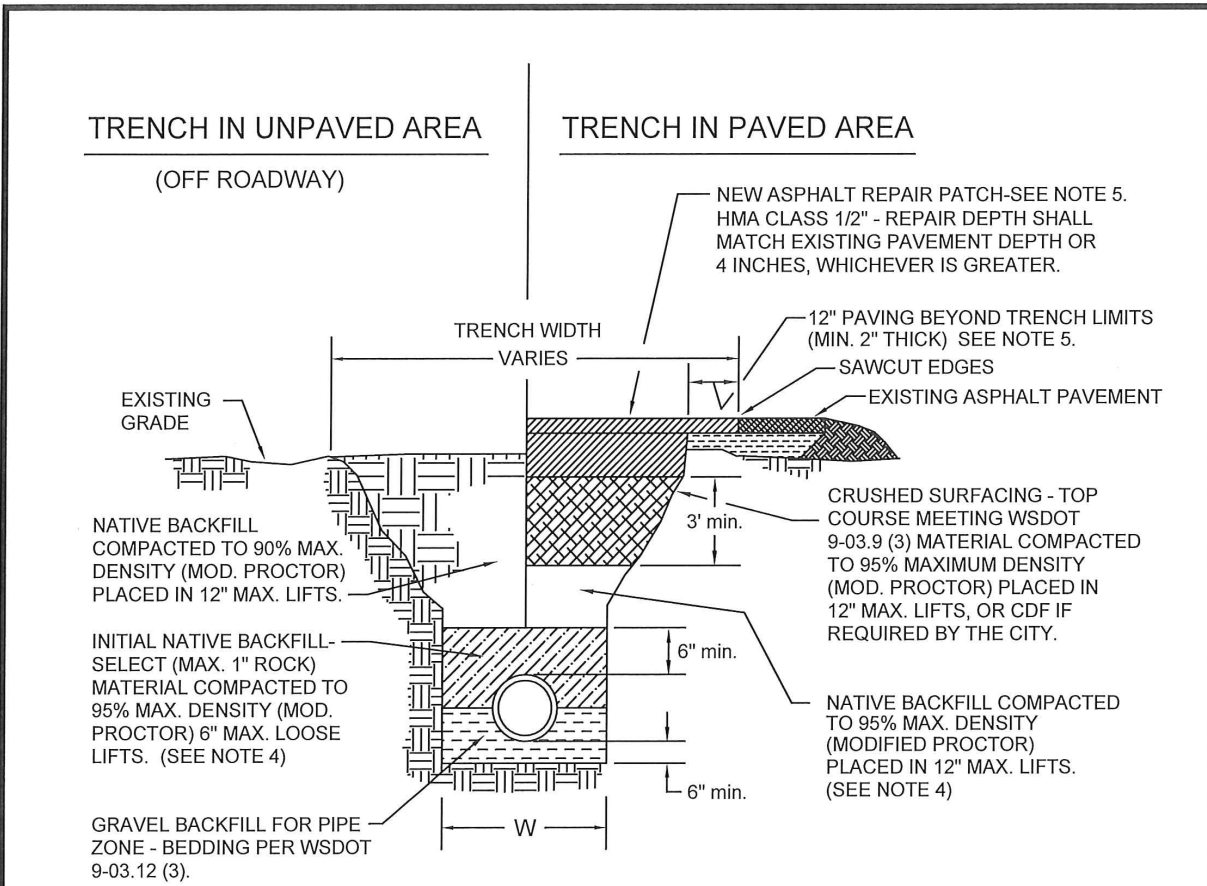
**STORM WATER  
 CATCH BASIN TYPE 2  
 NOT TO SCALE**

PUBLIC WORKS DEPARTMENT

PLAN NO.  
**STM - 2**

REV. DATE:  
 9/21/2016





W = 40" FOR 15" DIAMETER PIPE & SMALLER.  
 W = 1 1/2" X PIPE DIAMETER +18" FOR PIPE 18" IN DIAMETER AND LARGER.

**NOTES:**

1. EXISTING ASPHALT PAVEMENT MUST BE SAWCUT TO PROVIDE A CLEAN STRAIGHT EDGE BEFORE PIPE PLACEMENT.
2. EXISTING MATERIAL DISTURBED UNDER THE PIPE SHALL BE REPLACED WITH BEDDING MATERIAL AND COMPACTED TO 95% MAX. DENSITY.
3. BACK MATERIAL SHALL BE INSTALLED IN AN APPROVED MANNER TO ENSURE NO DAMAGES TO THE PIPE.
4. IF NATIVE BACKFILL IS DETERMINED UNSATISFACTORY BY THE CITY, USE CRUSHED SURFACING TOP COURSE PER WSDOT 9-03.9 (3)
5. SEE MILL CREEK MUNICIPAL CODE SECTION 12.18.060 FOR PAVEMENT PATCHING STANDARDS.



STORM WATER  
**TYPICAL TRENCH DETAIL**  
 NOT TO SCALE  
 PUBLIC WORKS DEPARTMENT

PLAN NO.  
**STM - 10**

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REV. DATE:  
 9/21/2016

APPENDIX C

City of Mill Creek 2019 Community Events List



2019 Community Events

February	Date	Time	Location	C&M	PD	PW
Anti-Valentine's Day Party	Friday, February 8	7 p.m. - 9 p.m.	Mill Creek Library			
It's Raining Chocolate	Saturday, February 9	1-4 p.m.	Town Center			
WSU Repair Café	Saturday, February 23	10 a.m. - 2 p.m.	McCullum Park			
Mill Creek Elem. Heath Fair	Thursday, February 28	5:00 p.m. - 7:30 p.m.	Mill Creek Elementary	X		
March	Date	Time	Location		PD	PW
WSU Repair Café	Saturday, March 23	10 a.m. - 2 p.m.	McCullum Park			
April	Date	Time	Location		PD	PW
<b>Eggstravaganza</b>	<b>Saturday, April 20</b>	<b>10:30 a.m. - 12:00 p.m.</b>	<b>Heatherwood M.S.Field</b>	<b>X</b>	<b>X</b>	<b>X</b>
WSU Repair Café	Saturday, April 27	10 a.m. - 2 p.m.	McCullum Park			
Healthy Kids Day	Saturday, April 27	10 a.m. - 1 p.m.	Mill Creek YMCA			
May	Date	Time	Location		PD	PW
Mill Creek Garage Sale	Saturday, May 4	8:00 a.m.	Mill Creek Neighborhoods			
<b>Town Center Wine Walk &amp; Art Walk</b>	<b>Saturday, May 11</b>	<b>5:00 p.m. - 8:00 p.m.</b>	<b>Main Street in Town Center</b>	<b>X</b>		
Japanese Flower Arranging Exhibition & Friends of the Mill Creek Library Book	Sunday, May 12	11:00 a.m. - 4:00 p.m.	Large Community Room			
Day of Hope	Saturday, May 18	10:00 a.m. - 3:00 p.m.	Heatherwood M.S. Cafeteria			
Day of Hope	Saturday, May 18	9 a.m. - 12 p.m.	Mill Creek area	X		X
Day of Hope	Sunday, May 19	9 a.m. - 12 p.m.	Mill Creek area	X		
SCFD7 EMS Week Open House	Sunday, May 19	12 p.m. - 4 p.m.	Fire Station 71			
<b>Memorial Day Commemorative</b>	<b>Monday, May 27</b>	<b>9:00 a.m.</b>	<b>Library Park</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Memorial Day Parade</b>	<b>Monday, May 27</b>	<b>11:00 a.m.</b>	<b>Main Street in Town Center</b>	<b>X</b>	<b>X</b>	<b>X</b>
June	Date	Time	Location		PD	PW
<b>Art Walk</b>	<b>Thursday, June 13</b>	<b>5:00 p.m. - 8:00 p.m.</b>	<b>Main Street in Town Center</b>	<b>X</b>	<b>X</b>	
<b>Mill Creek Farmers Market</b>	<b>Tuesdays, June 18 &amp; 25</b>	<b>3:00 p.m. - 7:00 p.m.</b>	<b>City Hall North Parking Lot</b>	<b>X</b>		<b>X</b>
Health & Wellness Day	Thursday, June 20		Gold Creek Church			
Mill Creek Garden Tour	Saturday, June 22	11:00 a.m. - 4:00 p.m.	Mill Creek Homes			
<b>Pianos on Main</b>	<b>Starts last week of June</b>		<b>Town Center</b>	<b>X</b>		<b>X</b>
<b>Party in the Park</b>	<b>Thursday, June 27</b>	<b>5:00 p.m. - 7:00 p.m.</b>	<b>Highlands Park</b>		<b>X</b>	<b>X</b>
Run of the Mill	Saturday, June 29 (Tentative)	9:00 a.m. - 10:45 a.m.	Main Street in Town Center	X	X	X
July	Date	Time	Location		PD	PW
<b>Mill Creek Farmers Market</b>	<b>Tuesdays, July 2, 9, 16, 23 &amp; 30</b>	<b>3:00 p.m. - 7:00 p.m.</b>	<b>City Hall North Parking Lot</b>	<b>X</b>		<b>X</b>
Town Center Concert	Wednesday, July 3	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
Town Center Concert	Wednesday, July 10	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
<b>Art Walk</b>	<b>Thursday, July 11</b>	<b>5:00 p.m. - 8:00 p.m.</b>	<b>Main Street in Town Center</b>	<b>X</b>		
Mill Creek Festival	Saturday, July 13	11:00 a.m. - 6:00 p.m.	Mill Creek Blvd	X	X	X
Mill Creek Festival	Sunday, July 14	11:00 a.m. - 5:00 p.m.	Mill Creek Blvd	X	X	X
<b>3-on-3 Basketball Tournament</b>	<b>Saturday, July 13</b>	<b>12:00 p.m.</b>	<b>City Hall North Parking Lot</b>	<b>X</b>		<b>X</b>
<b>3-on-3 Basketball Tournament</b>	<b>Sunday, July 14</b>	<b>12:00 p.m.</b>	<b>City Hall North Parking Lot</b>	<b>X</b>		<b>X</b>
Town Center Concert	Wednesday, July 17	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
Town Center Concert	Wednesday, July 24	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
<b>Party in the Park</b>	<b>Thursday, July 25</b>	<b>5:00 p.m. - 7:00 p.m.</b>	<b>Mill Creek Sports Park</b>	<b>X</b>	<b>X</b>	<b>X</b>
Town Center Concert	Wednesday, July 31	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
August	Date	Time	Location		PD	PW
Town Center Kid Fest	Saturday, August 3	1:00 p.m. - 4:00 p.m.	Main Street in Town Center		X	
<b>Mill Creek Farmers Market</b>	<b>Tuesdays, Aug. 6, 13, 20</b>	<b>3:00 p.m. - 7:00 p.m.</b>	<b>City Hall North Parking Lot</b>	<b>X</b>		<b>X</b>
<b>National Night Out</b>	<b>Tuesday, August 6</b>	<b>5:30 p.m. - 8:30 p.m.</b>	<b>TBD</b>	<b>X</b>	<b>X</b>	<b>X</b>
Town Center Concert	Wednesday, August 7	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
<b>Art Walk</b>	<b>Thursday, August 8</b>	<b>5:00 p.m. - 8:00 p.m.</b>	<b>Main Street in Town Center</b>	<b>X</b>		
Town Center Concert	Wednesday, August 14	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
Hope Creek Auction	Tuesday, August 20	TBD	Gold Creek Church			
Town Center Concert	Wednesday, August 21	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
<b>Party in the Park</b>	<b>Thursday, August 22</b>	<b>5:00 p.m. - 7:00 p.m.</b>	<b>Heron Park</b>		<b>X</b>	<b>X</b>
Town Center Concert	Wednesday, August 28	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
September	Date	Time	Location		PD	PW
Town Center Concert	Wednesday, September 4	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
Town Center Concert	Wednesday, September 11	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
Town Center Concert	Wednesday, September 18	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
WSU Repair Café	Saturday, September 21	10 a.m. - 2 p.m.	McCullum Park			
Town Center Wine/Beer Walk	Saturday, September 21	5:00 p.m. - 8:00 p.m.	Main Street in Town Center			
Town Center Concert	Wednesday, September 25	6:00 p.m. - 8:00 p.m.	The Forum in Town Center			
October	Date	Time	Location		PD	PW
Mill Creek Garage Sale	Saturday, October 5	8:00 a.m.	Mill Creek Neighborhoods			
SCFD7 EMS Week Open House	Saturday, October 12	12 p.m. - 4 p.m.	Fire Station 31			
WSU Repair Café	Saturday, October 19	10 a.m. - 2 p.m.	McCullum Park			
Teen Halloween Event	Friday, October 25	7:00 p.m. - 9:00 p.m.	Mill Creek Library			
Treats on Main Street	Thursday, October 31	5:00 p.m. - 7:00 p.m.	Main Street in Town Center	X	X	X
<b>Trunk or Treat</b>	<b>Thursday, October 31</b>	<b>5:30 p.m. - 7:00 p.m.</b>	<b>City Hall North Parking Lot</b>	<b>X</b>	<b>X</b>	<b>X</b>
November	Date	Time	Location		PD	PW
<b>Veterans Day Commemorative</b>	<b>Monday, November 11</b>	<b>9:00 a.m.</b>	<b>Library Park</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Veterans Day Parade</b>	<b>Monday, November 11</b>	<b>11:00 a.m.</b>	<b>Main Street in Town Center</b>	<b>X</b>	<b>X</b>	<b>X</b>
WSU Repair Café	Saturday, November 16	10 a.m. - 2 p.m.	McCullum Park			
Shop Local	Saturday, November 30	10 a.m. - 8 p.m.	Town Center			
December	Date	Time	Location		PD	PW
Santa Parade	Saturday, December 7	2:30 p.m.	Main Street in Town Center	X	X	X
<b>Tree Lighting Ceremony</b>	<b>Saturday, December 7</b>	<b>4:00 p.m.</b>	<b>City Hall South Parking Lot</b>	<b>X</b>		<b>X</b>



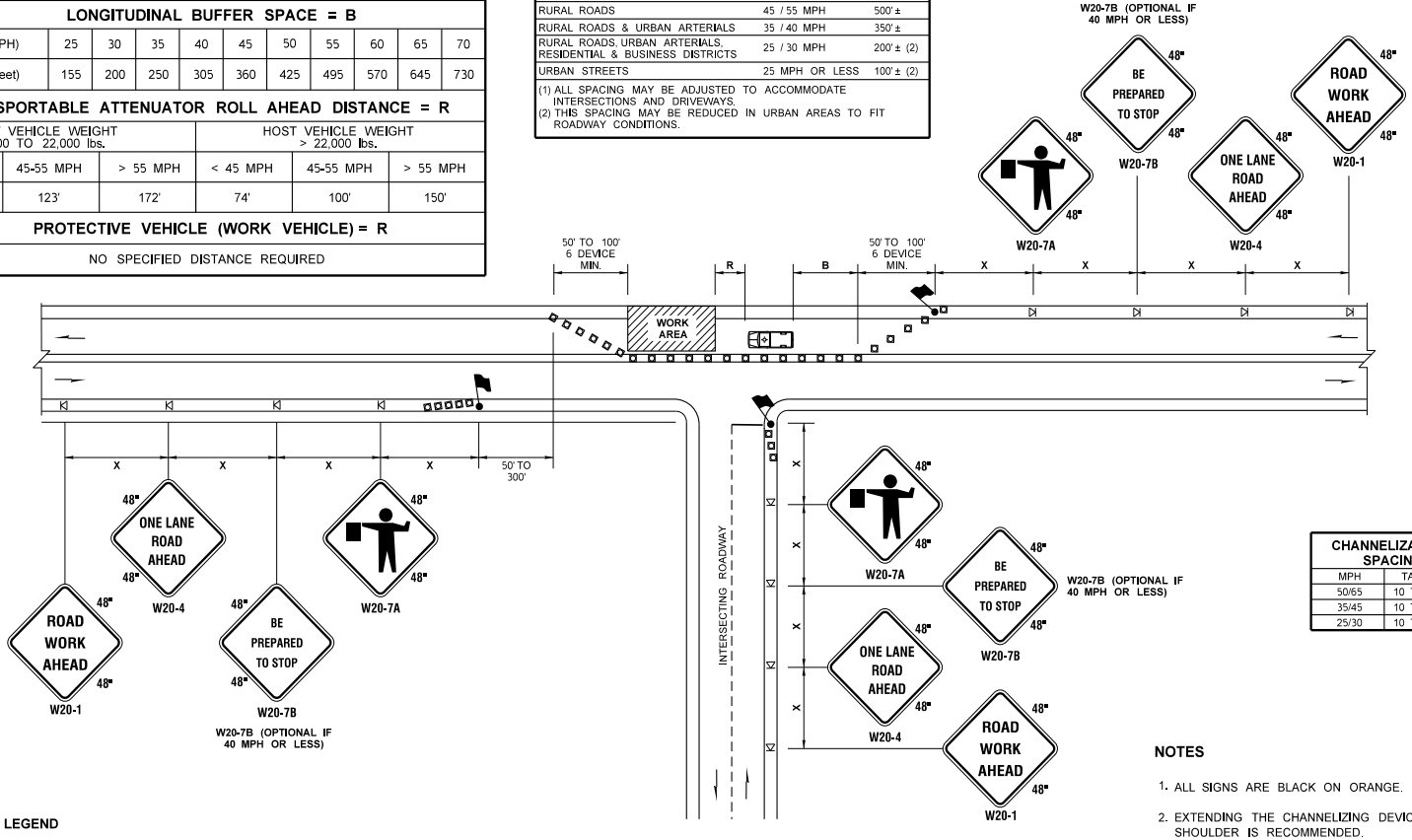
APPENDIX D  
Permits

APPENDIX E  
WSDOT Traffic Control Plans

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

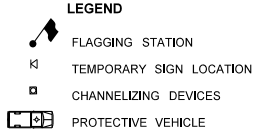
SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

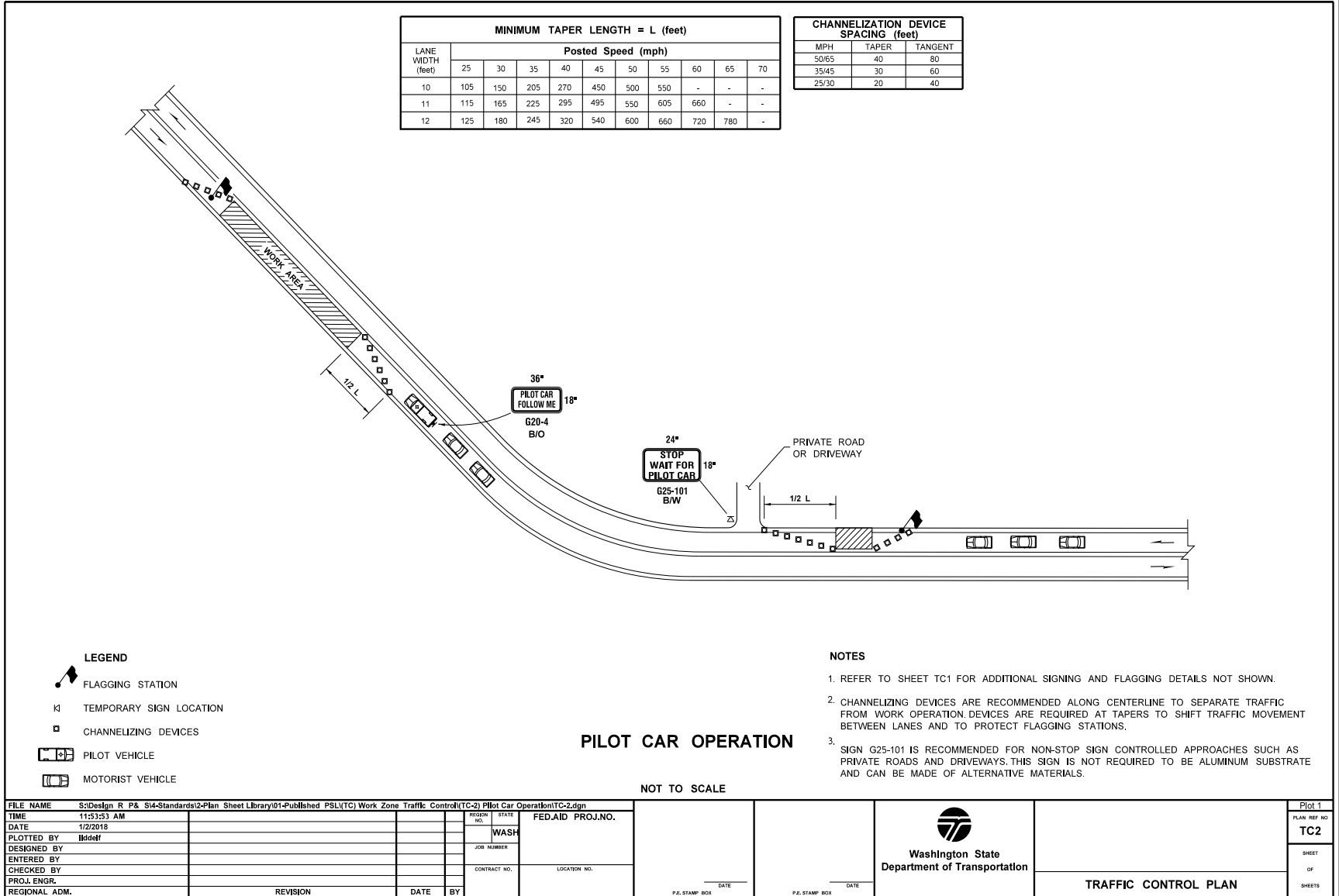
- NOTES**
1. ALL SIGNS ARE BLACK ON ORANGE.
  2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
  3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
  4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.



**ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS**

NOT TO SCALE

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL(TC) Work Zone Traffic Control(TC-1) One Lane, Two Way Traffic Control with Flaggers(TC-1).dgn										Plot 1
TIME	3:05:14 PM										PLAN REF NO
DATE	1/2/2018										TC1
PLOTTED BY	lhddef										SHEET
DESIGNED BY											OF
ENTERED BY											SHEETS
CHECKED BY											
PROJ. ENGR.											
REGIONAL ADM.											
REVISION											
DATE											
BY											
REGION	STATE										
NO.	FED.AID PROJ.NO.										
WASH											
JOB NUMBER											
CONTRACT NO.	LOCATION NO.										
DATE	DATE										
P.E. STAMP BOX	DATE										
<p>Washington State Department of Transportation</p>											
TRAFFIC CONTROL PLAN											



FILE NAME: S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-2 Pilot Car Operation\TC-2.dgn										Plot 1	
TIME: 11:53:53 AM	REGION NO.	STATE	FED.AID PROJ.NO.							PLAN REF NO:	TC2
DATE: 1/2/2018		WASH								SHEET	
PLOTTED BY: hddelf	JOB NUMBER									OF	
DESIGNED BY:	CONTRACT NO.		LOCATION NO.							SHEETS	
ENTERED BY:											
CHECKED BY:											
PROJ. ENGR.											
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE	TRAFFIC CONTROL PLAN			

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

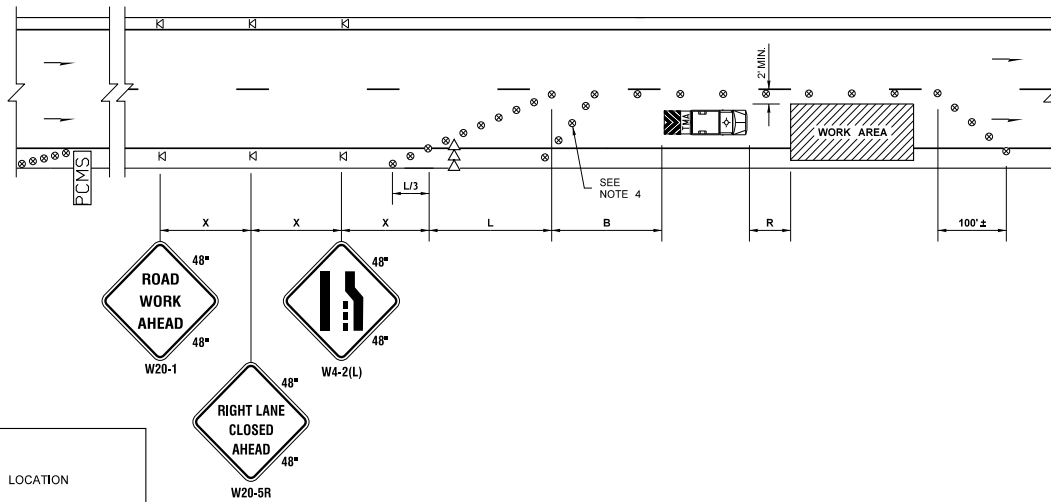
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'



PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.

LEGEND	
⊠	TEMPORARY SIGN LOCATION
⊙	TRAFFIC SAFETY DRUM
⇨⇨	SEQUENTIAL ARROW SIGN
	TRANSPORTABLE ATTENUATOR
	PORTABLE CHANGEABLE MESSAGE SIGN

**SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS**

NOT TO SCALE

**NOTES**

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
- DEVICES SHALL NOT ENCOACH INTO THE ADJACENT LANE.
- USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'(FT) (RECOMMENDED).
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(FT).
- ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern(TC1-TC-17) Buffer Data table replacement\TC-3.dgn	REGION NO.	STATE	FED.AID PROJ.NO.	DATE	P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE	Plot 1
TIME	8:18:31 AM									PLAN REF NO
DATE	1/3/2018									TC3
PLOTTED BY	lhdelf									SHEET
DESIGNED BY										OF
ENTERED BY										SHEETS
CHECKED BY										
PROJ. ENGR.										
REGIONAL ADM.		REVISION	DATE	BY						



TRAFFIC CONTROL PLAN

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	40	60	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

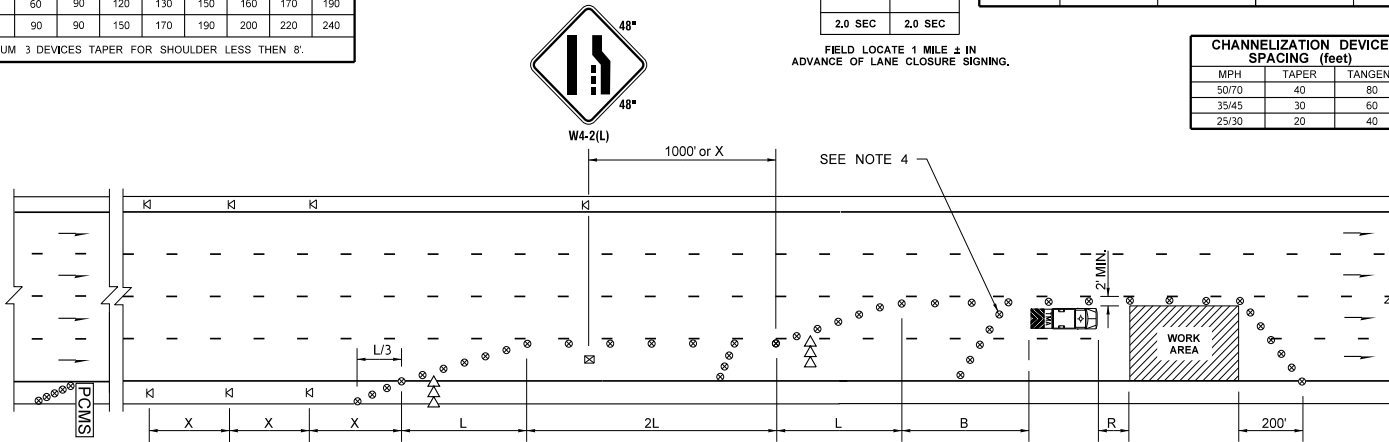
SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.						HOST VEHICLE WEIGHT > 22,000 lbs.				
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					

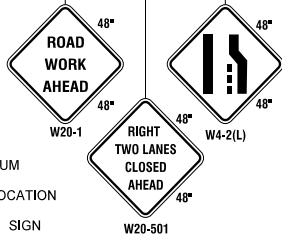
PCMS	
1	2
2 LANES CLOSED AHEAD	WATCH FOR SLOW TRAFFIC
2.0 SEC	2.0 SEC

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



LEGEND

- ⊙ TRAFFIC SAFETY DRUM
- ⊠ TEMPORARY SIGN LOCATION
- ⇨⇨ SEQUENTIAL ARROW SIGN
- ⊠ TRANSPORTABLE ATTENUATOR
- ⊠ PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊠ TEMPORARY SIGN LOCATION (5' (FT) MOUNTING HEIGHT)



NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
3. DEVICES SHALL NOT ENCOACH INTO THE ADJACENT LANES.
4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
6. ALL SIGNS ARE BLACK ON ORANGE.

DOUBLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-4 Double-Lan Closure for Multi-Lane Roadways\TC-4.dgn			REGION NO.	STATE	FED.AID PROJ.NO.	Washington State Department of Transportation	Plot 1
TIME	8:36:32 AM			NO.	WASH			PLAN REF NO TC4
DATE	1/3/2018			JOB NUMBER				SHEET
DESIGNED BY	lhdelf			CONTRACT NO.				OF
ENTERED BY				LOCATION NO.				SHEETS
CHECKED BY								
PROJ. ENGR.								
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE	

SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

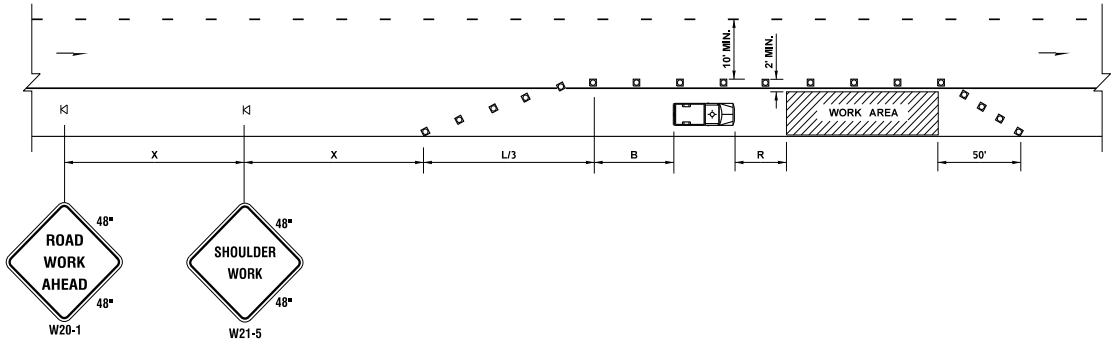
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-

USE A 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40



LEGEND	
K1	TEMPORARY SIGN LOCATION
□	CHANNELIZING DEVICES
▣	PROTECTIVE VEHICLE

**SHOULDER CLOSURE - LOW SPEED**  
(40 MPH OR LESS)

NOT TO SCALE

NOTES

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME: S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC) Work Zone Traffic Control\TC-5) Shoulder Closure - Low Speed (40 MPH or Less)\TC-5.dgn		REGION: WASH		STATE: WASH		FED.AID PROJ.NO.		DATE: _____		DATE: _____		PLOT 1	
TIME: 2:59:41 PM	DATE: 1/2/2018	DESIGNED BY: lldelf	ENTERED BY:	CHECKED BY:	PROJ. ENGR.:	REGIONAL ADM.:	REVISION:	DATE:	BY:	Washington State Department of Transportation		PLAN REF NO: TC5	
										TRAFFIC CONTROL PLAN		SHEET OF SHEETS	

**MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)**

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

**SIGN SPACING = X (1)**

FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500'±
RURAL HIGHWAYS	60 / 65 MPH	800'±
RURAL ROADS	45 / 55 MPH	500'±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

**CHANNELIZATION DEVICE SPACING (feet)**

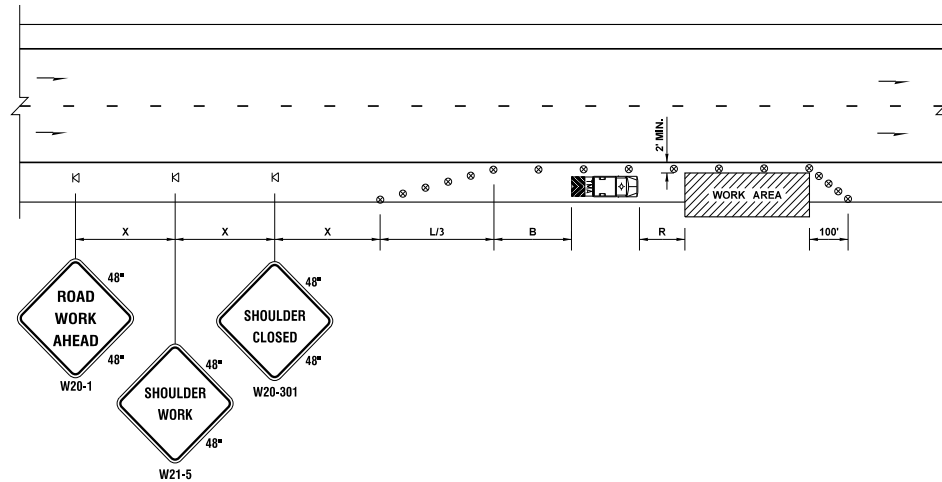
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

**BUFFER DATA**

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

**TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R**

HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'



**LEGEND**

- K1 TEMPORARY SIGN LOCATION
- ⊗ TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR

**SHOULDER CLOSURE - HIGH SPEED**

NOT TO SCALE

**NOTES**

1. NO ENCROACHMENT IN TRAVELED LANE IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (F1) O.C.
3. ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME: S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-6 Shoulder Closure - High Speed\TC-6.dgn		REGION NO.	STATE	FED.AID PROJ.NO.	Washington State Department of Transportation		Plot 1
TIME: 9:03:14 AM	DATE: 1/3/2018	PLANNED BY: lldelf	DESIGNED BY:	ENTERED BY:	CHECKED BY:	PROJ. ENGR.	PLAN REF NO: TC6
REGIONAL ADM.	REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	P.E. STAMP BOX DATE	SHEET OF SHEETS
TRAFFIC CONTROL PLAN							



MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

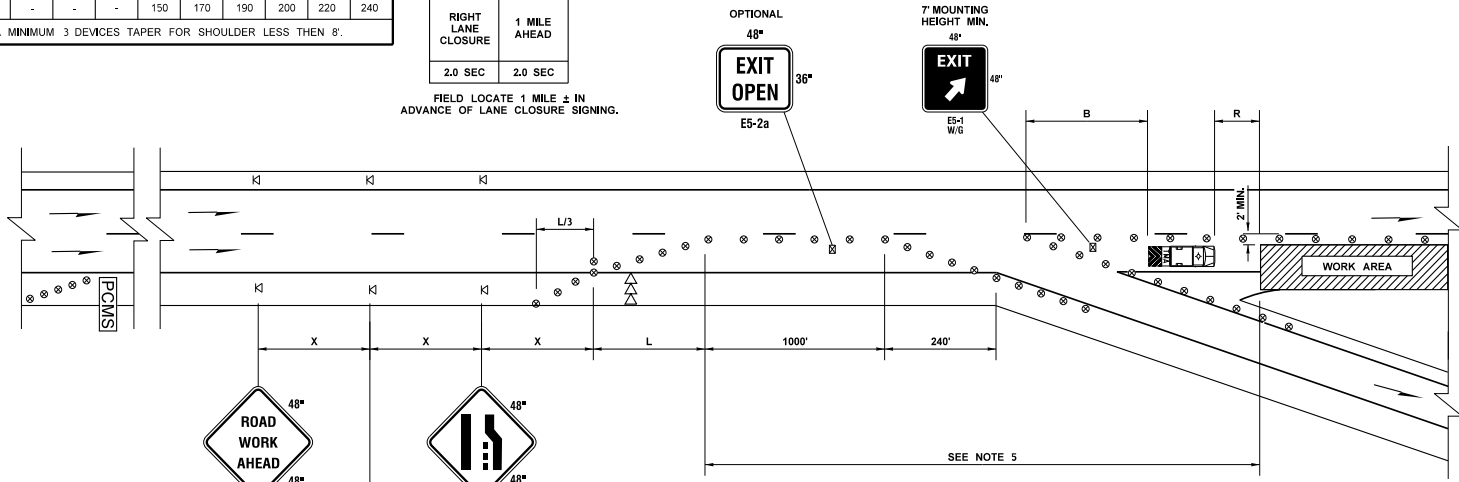
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
40/45	30	60

PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'



**LEGEND**

- KI TEMPORARY SIGN LOCATION
- ⊗ TRAFFIC SAFETY DRUM
- ⇨ SEQUENTIAL ARROW SIGN
- ⊠ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊠ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

**NOTES**

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. USE A DOWNSTREAM TAPER TO END THE LANE CLOSURE WITH 20' (FT) DEVICE SPACING.
3. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANES.
4. USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000' (FT) ± (RECOMMENDED).
5. SEE SHEET TCXX FOR A SHORT TERM OFF-RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS.
6. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

**TEMPORARY OFF-RAMP FOR MULTI-LANE ROADWAYS**

NOT TO SCALE

FILE NAME: S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL(TC) Work Zone Traffic Control(TC-7) Temporary Off-Ramp for Multi-Lane Roadways\TC-7.dgn		REGION: WASH		STATE: WASH		FED.AID PROJ.NO.		Plot 1	
TIME: 9:24:13 AM	DATE: 1/3/2018	DESIGNED BY: lldelf	ENTERED BY:	CHECKED BY:	PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY
Washington State Department of Transportation						TRAFFIC CONTROL PLAN			
PLAN REF NO: TC7						SHEET OF SHEETS			

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

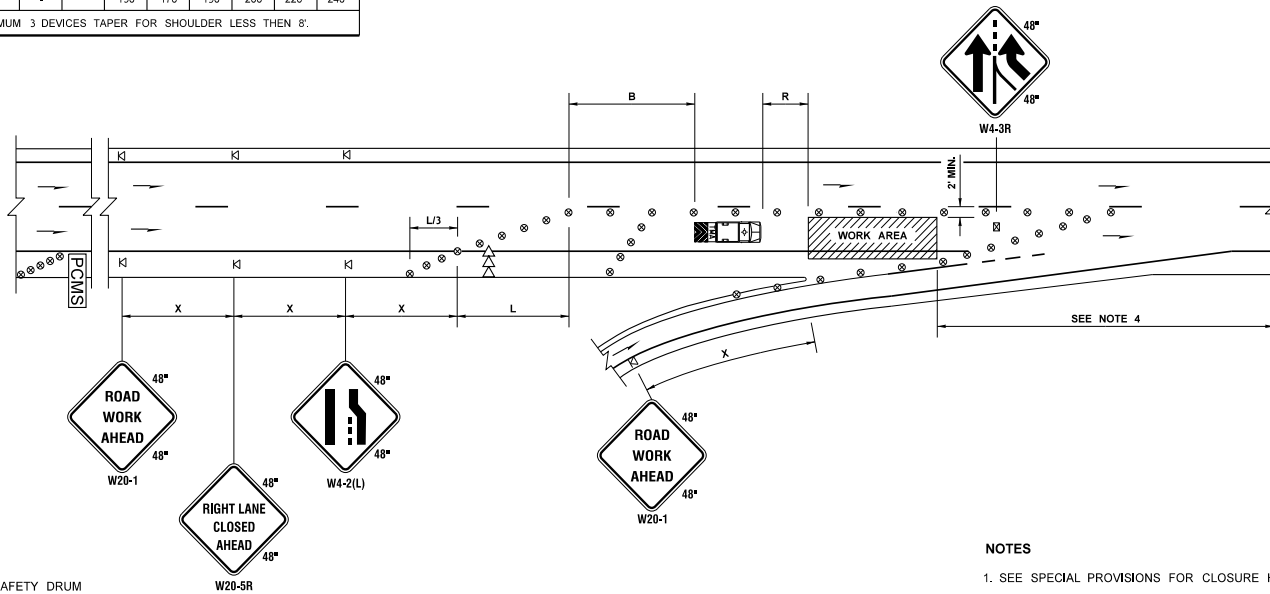
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
40/45	30	60

BUFFER DATA											
LONGITUDINAL BUFFER SPACE = B											
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70	
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730	
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R											
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.						HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	100'	123'	172'	74'	100'	150'



**LEGEND**

- ⊙ TRAFFIC SAFETY DRUM
- ⊠ TEMPORARY SIGN LOCATION
- ⇨ SEQUENTIAL ARROW SIGN
- ⊠ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊠ TEMPORARY SIGN LOCATION (5' FT) MOUNTING HEIGHT

**TEMPORARY ON-RAMP FOR MULTI-LANE ROADWAYS**

NOT TO SCALE

**NOTES**

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCRUCH INTO ADJACENT LANES.
3. USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000' ± (RECOMMENDED).
4. SEE SHEET TCXX FOR A SHORT TERM ON-RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS.
5. ALL SIGNS ARE BLACK ON ORANGE.

PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

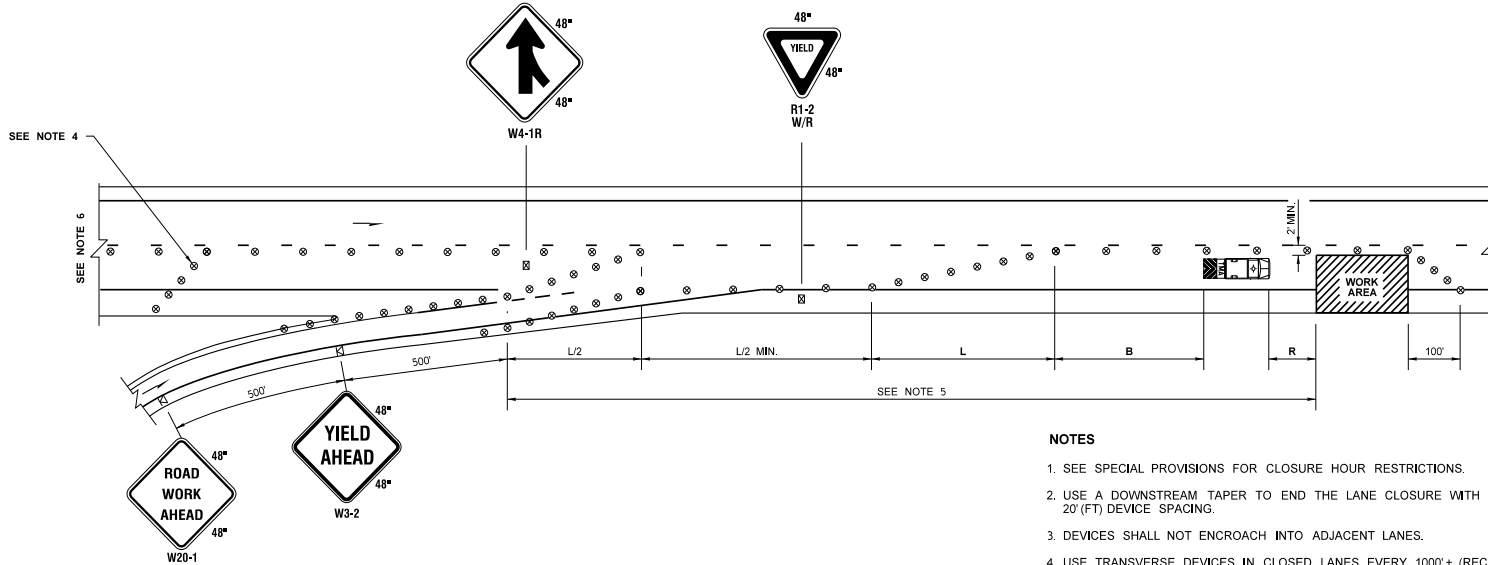
FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL(TC) Work Zone Traffic Control(TC-8) Temporary On-Ramp for Multi-Lane Roadways\TC-8.dgn									
TIME	9:42:27 AM									
DATE	1/3/2018									
PLOTTED BY	lhdelf									
DESIGNED BY										
ENTERED BY										
CHECKED BY										
PROJ. ENGR.										
REGIONAL ADM.										
REVISION										
DATE										
BY										
REGION	WASH									
STATE	FED.AID PROJ.NO.									
JOB NUMBER										
CONTRACT NO.	LOCATION NO.									
P.E. STAMP BOX	DATE									
P.E. STAMP BOX	DATE									
<p>Washington State Department of Transportation</p>										Plot 1
TRAFFIC CONTROL PLAN										PLAN REF NO TC8
TRAFFIC CONTROL PLAN										SHEET OF SHEETS

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
40/45	30	60

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH
100'	123'	172'	74'	100'	150'					



- NOTES**
- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
  - USE A DOWNSTREAM TAPER TO END THE LANE CLOSURE WITH A 20' (FT) DEVICE SPACING.
  - DEVICES SHALL NOT ENCR OACH INTO ADJACENT LANES.
  - USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000' ± (RECOMMENDED).
  - SEE SHEET TCXX FOR A SHORT TERM ON-RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS.
  - SEE SHEET TC3 OR TC7 FOR RIGHT LANE CLOSURE.
  - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

- LEGEND**
- ⊠ TEMPORARY SIGN LOCATION
  - ⊗ TRAFFIC SAFETY DRUM
  - ⇨⇨ SEQUENTIAL ARROW SIGN
  - ⊠⊠ TRANSPORTABLE ATTENUATOR
  - ⊠ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

**TEMPORARY ON-RAMP FOR MULTI-LANE ROADWAYS**

NOT TO SCALE

FILE NAME		S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-9 Temporary On-Ramp for Multi-Lane Roadways\TC-9.dgn		REGION NO.		STATE		FED.AID PROJ.NO.		DATE		PLAN REF NO.	
TIME		10:04:03 AM		WASH								TC9	
DATE		1/3/2018		JOB NUMBER								SHEET	
PLOTTED BY		lhdelf		CONTRACT NO.		LOCATION NO.						OF	
DESIGNED BY				DATE		BY						SHEETS	
ENTERED BY				P.E. STAMP BOX		DATE						TRAFFIC CONTROL PLAN	
CHECKED BY				P.E. STAMP BOX		DATE							
PROJ. ENGR.													
REGIONAL ADM.													



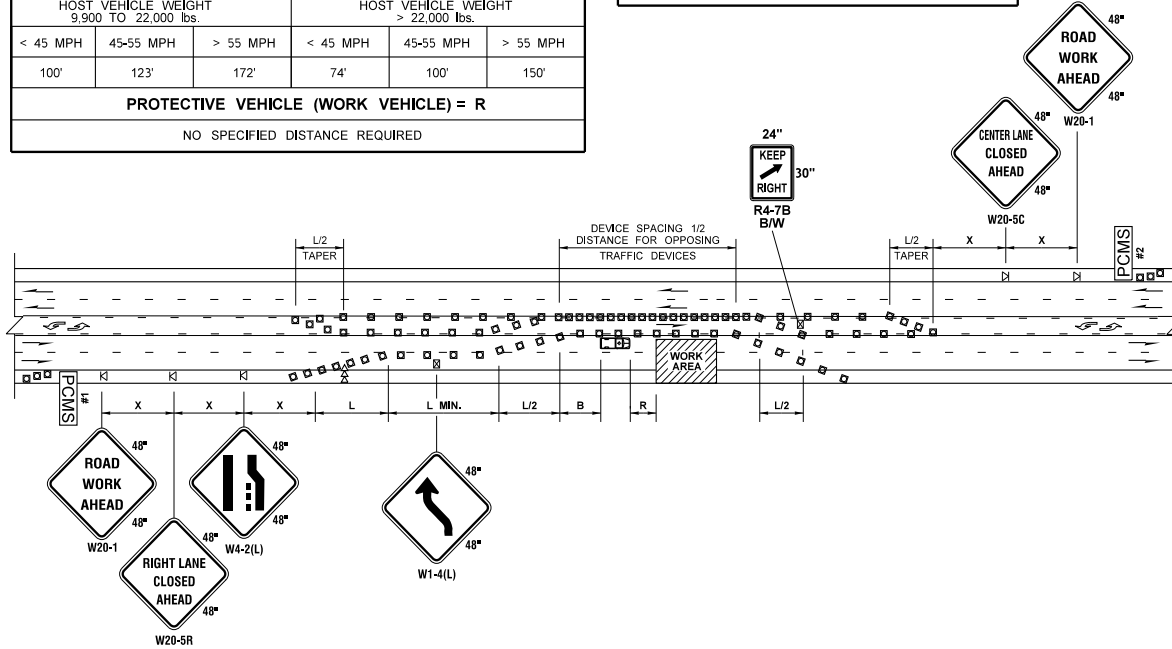
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40



PCMS #1	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

PCMS #2	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

NOTES

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY

NOT TO SCALE

LEGEND	
K	TEMPORARY SIGN LOCATION
□	CHANNELIZING DEVICES
⇨⇨	SEQUENTIAL ARROW SIGN
▭	PROTECTIVE VEHICLE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
⊗	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

FILE NAME	S:\Design R P & S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC\ Work Zone Traffic Control\TC-10 Right Lane Closure with Shift - 5 Lane Roadway\TC-10.dgn							Plot 1
TIME	3:15:46 PM							PLAN REF NO
DATE	1/2/2018							TC10
PLOTTED BY	lhddef							SHEET
DESIGNED BY								OF
ENTERED BY								SHEETS
CHECKED BY								
PROJ. ENGR.								
REGIONAL ADM.	REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	WASH	
				CONTRACT NO.	LOCATION NO.			
				P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE	
				Washington State Department of Transportation		TRAFFIC CONTROL PLAN		

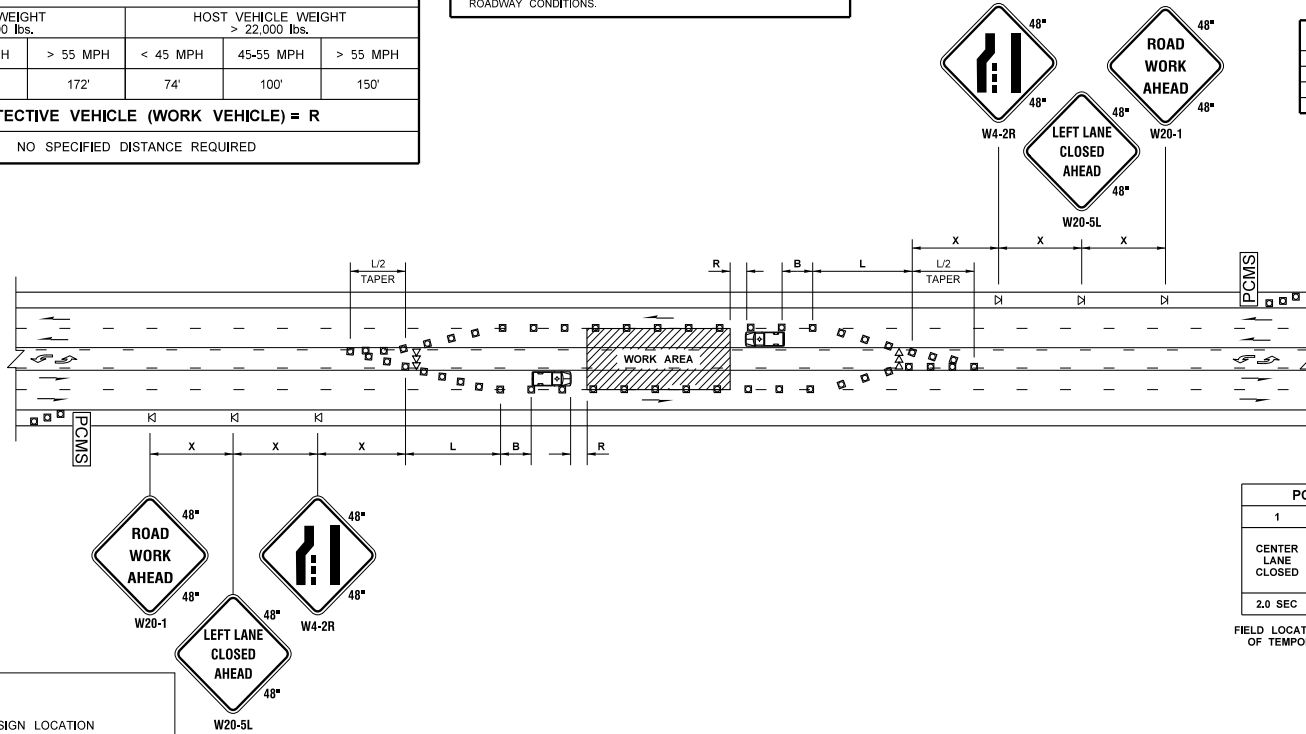
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40



LEGEND	
KI	TEMPORARY SIGN LOCATION
□	CHANNELIZING DEVICES
⇄	SEQUENTIAL ARROW SIGN
▣	PROTECTIVE VEHICLE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN

**LEFT LANE AND CENTER TURN LANE CLOSURE - 5 LANE ROADWAY**

NOT TO SCALE

PCMS	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

**NOTES**

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC\ Work Zone Traffic Control\TC-11 Left Lane and Center Turn Lane Closure - Five Lane Roadway\TC-11.dgn									
TIME	3:20:13 PM									
DATE	1/2/2018									
PLOTTED BY	lhdelf									
DESIGNED BY										
ENTERED BY										
CHECKED BY										
PROJ. ENGR.										
REGIONAL ADM.										
REVISION										
DATE										
BY										
REGION NO.	STATE		FED.AID PROJ.NO.							
	WASH									
JOB NUMBER			LOCATION NO.							
CONTRACT NO.										
P.E. STAMP BOX	DATE		P.E. STAMP BOX		DATE					
<b>Washington State Department of Transportation</b>										
<b>TRAFFIC CONTROL PLAN</b>										
Plot 1										
PLAN REF NO										
TC11										
SHEET										
OF										
SHEETS										

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800'±
RURAL ROADS	45 / 55 MPH	500'±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

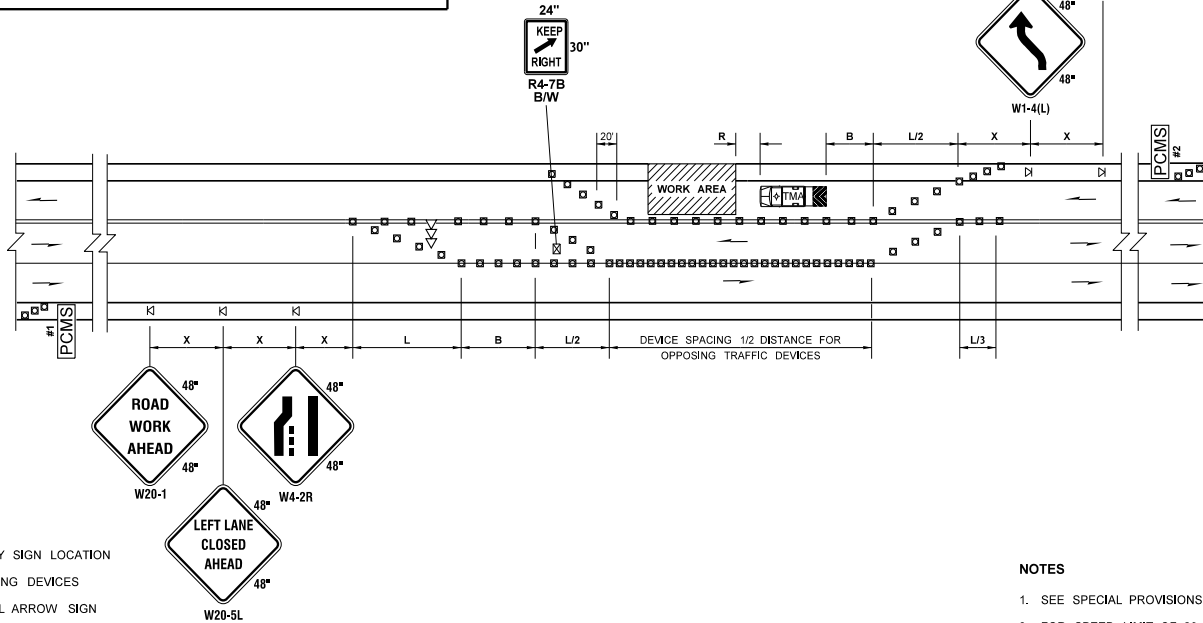
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

PCMS #1	
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
LANE SHIFTS LEFT	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.



**LEGEND**

- Ⓚ TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ⇨ SEQUENTIAL ARROW SIGN
- Ⓜ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- Ⓜ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

**LANE SHIFT - THREE LANE ROADWAY**

NOT TO SCALE

**NOTES**

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- FOR SPEED LIMIT OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- RECOMMENDED EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

FILE NAME	S:\Design R P & S\4-Standards\2-Plan Sheet Library\01-Published PSL(TC) Work Zone Traffic Control(TC-12) Lane Shift - Three Lane Roadway(TC-12).dgn			REGION NO.	STATE	FED.AID PROJ.NO.	Washington State Department of Transportation	Plot 1
TIME	2:34:58 PM			WASH				PLAN REF NO TC12
DATE	1/2/2018			JOB NUMBER				SHEET
PLOTTED BY	lhdelf			CONTRACT NO.				OF
DESIGNED BY				LOCATION NO.				SHEETS
ENTERED BY								
CHECKED BY								
PROJ. ENGR.								
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE	TRAFFIC CONTROL PLAN

**MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)**

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

**SIGN SPACING = X (1)**

FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS, AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

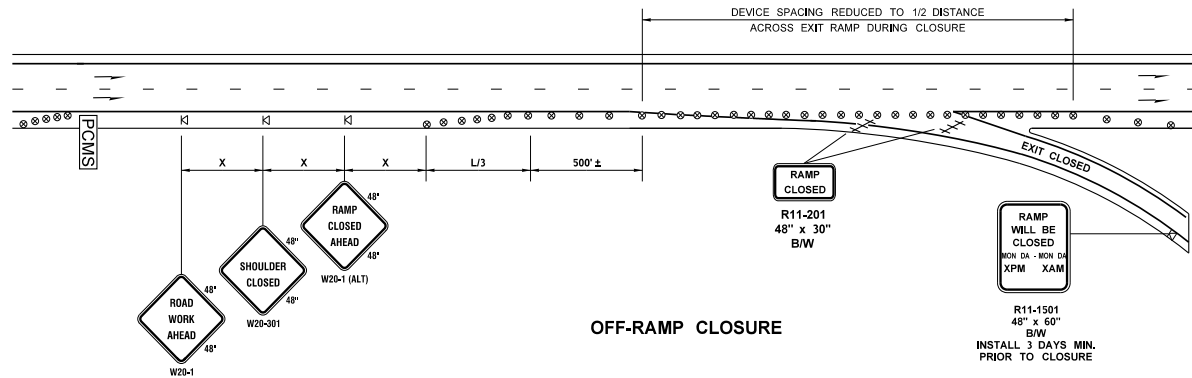
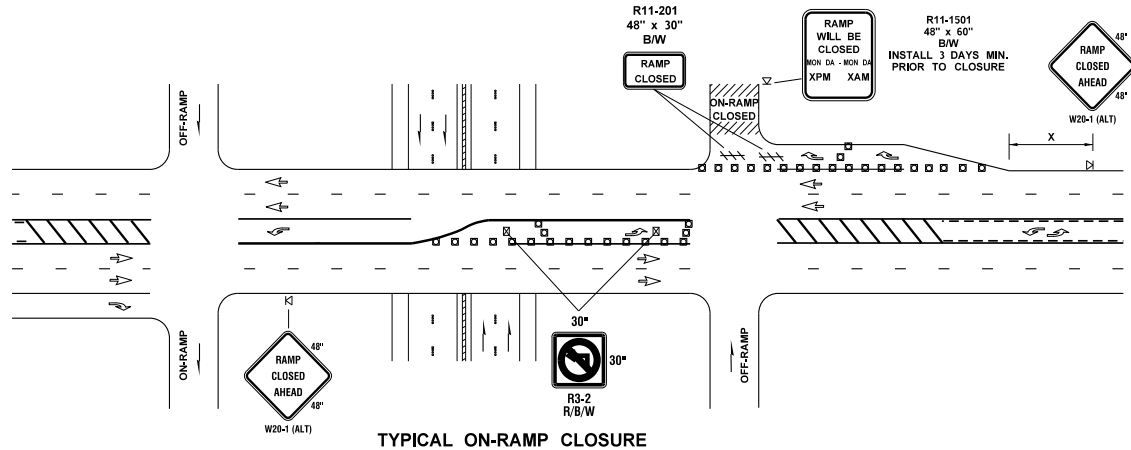
**PCMS**

1	2
EXIT XXX CLOSED	USE EXIT XXX
2.0 SEC	2.0 SEC

FIELD LOCATE

**LEGEND**

- TYPE 3 BARRICADE
- K1 TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ⊙ TRAFFIC SAFETY DRUM
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊠ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)



**SHORT TERM RAMP CLOSURES**

NOT TO SCALE

**NOTES**

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- TYPICAL APPLICATION SHOWN ADJUST FOR SITE CONDITIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

FILE NAME: S:\Design R P & S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-13 Short Term Ramp Closure\TC-13.dgn		REGION NO.:		STATE:		FED.AID PROJ.NO.:		Plot 1	
TIME: 8:40:40 AM		WASH						PLAN REF NO: TC13	
DATE: 1/2/2018		JOB NUMBER:		CONTRACT NO.:		LOCATION NO.:		SHEET OF SHEETS	
PLOTTED BY: llddldf								TRAFFIC CONTROL PLAN	
DESIGNED BY:									
ENTERED BY:									
CHECKED BY:									
PROJ. ENGR.:									
REGIONAL ADM.:		REVISION:		DATE:		BY:		P.E. STAMP BOX DATE	



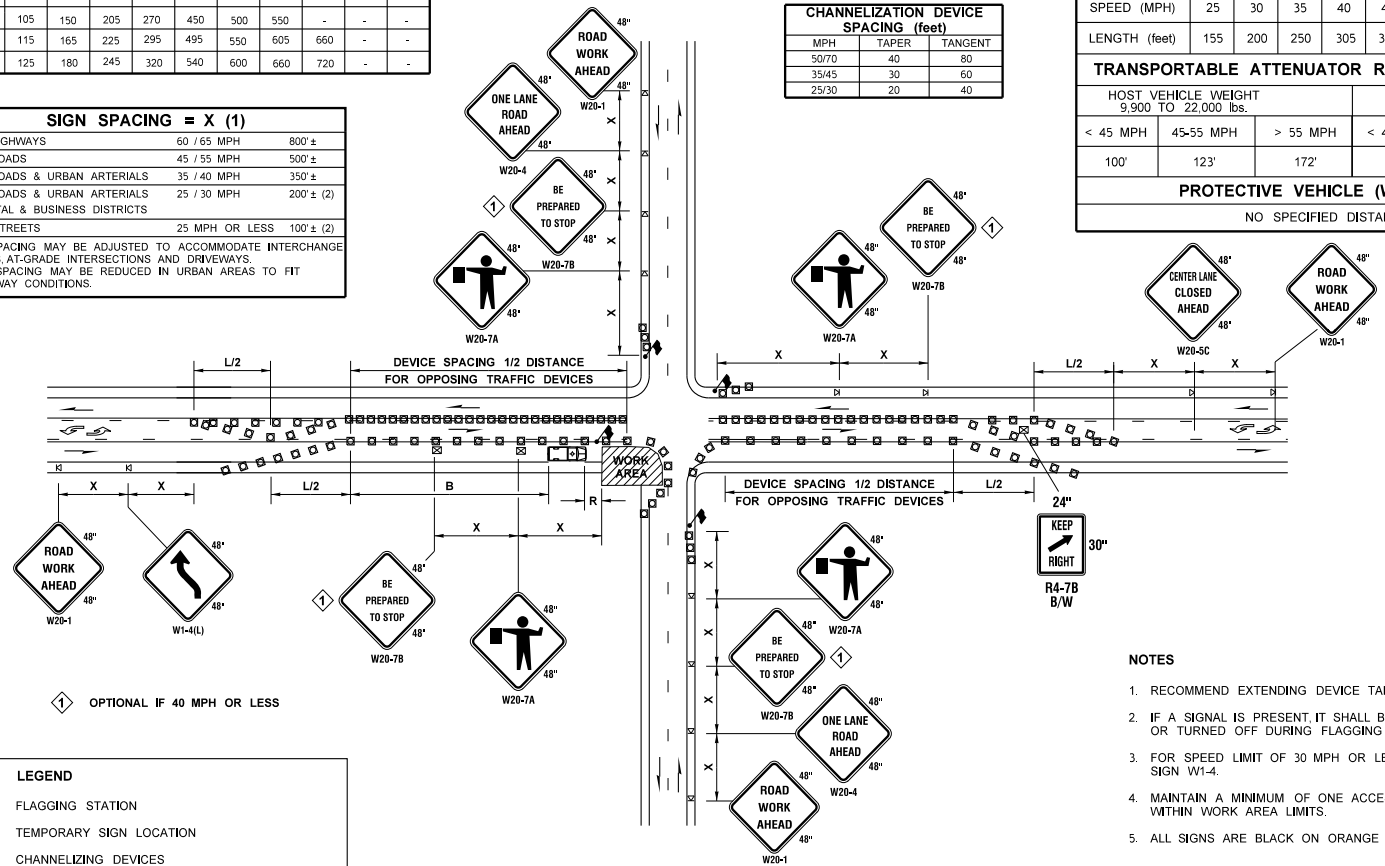
MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	60
35/45	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH
100'	123'	172'	74'	100'	150'	100'	150'	100'	150'	150'
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										



LEGEND	
	FLAGGING STATION
	TEMPORARY SIGN LOCATION
	CHANNELIZING DEVICES
	PROTECTIVE VEHICLE - RECOMMENDED
	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

- NOTES**
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
  - IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
  - FOR SPEED LIMIT OF 30 MPH OR LESS USE SIGN W1-3 IN LIEU OF SIGN W1-4.
  - MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
  - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-14 Intersection Lane Closure - Three Lane Roadway\TC-14.dgn	REGION NO.	STATE	FED.AID PROJ.NO.	<p>Washington State Department of Transportation</p>	Plot 1
TIME	6:59:33 AM	NO.	WASH			PLAN REF NO TC14
DATE	1/3/2018	JOB NUMBER				SHEET
PLOTTED BY	lhdelf	CONTRACT NO.				OF
DESIGNED BY		LOCATION NO.				SHEETS
ENTERED BY						
CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	



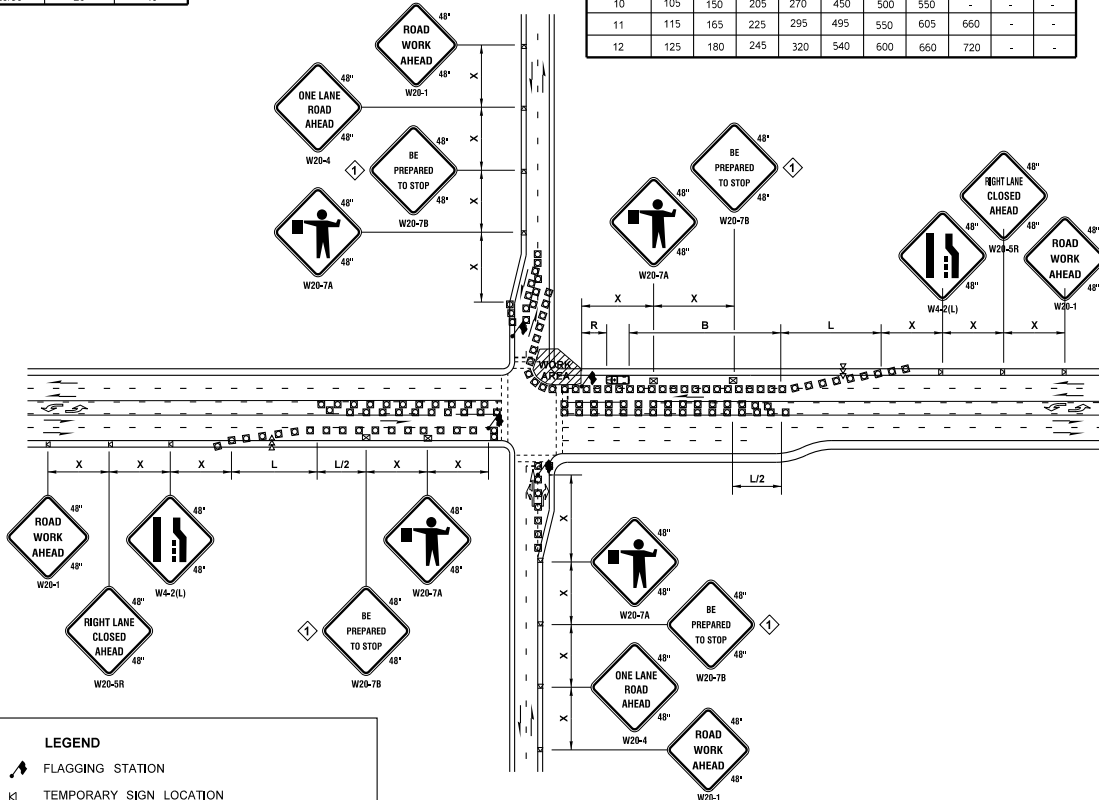
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH			< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'			74'	100'	150'			
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



LEGEND	
	FLAGGING STATION
	TEMPORARY SIGN LOCATION
	CHANNELIZING DEVICES
	SEQUENTIAL ARROW SIGN
	PROTECTIVE VEHICLE - RECOMMENDED
	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

**INTERSECTION LANE CLOSURE - FIVE LANE ROADWAY**

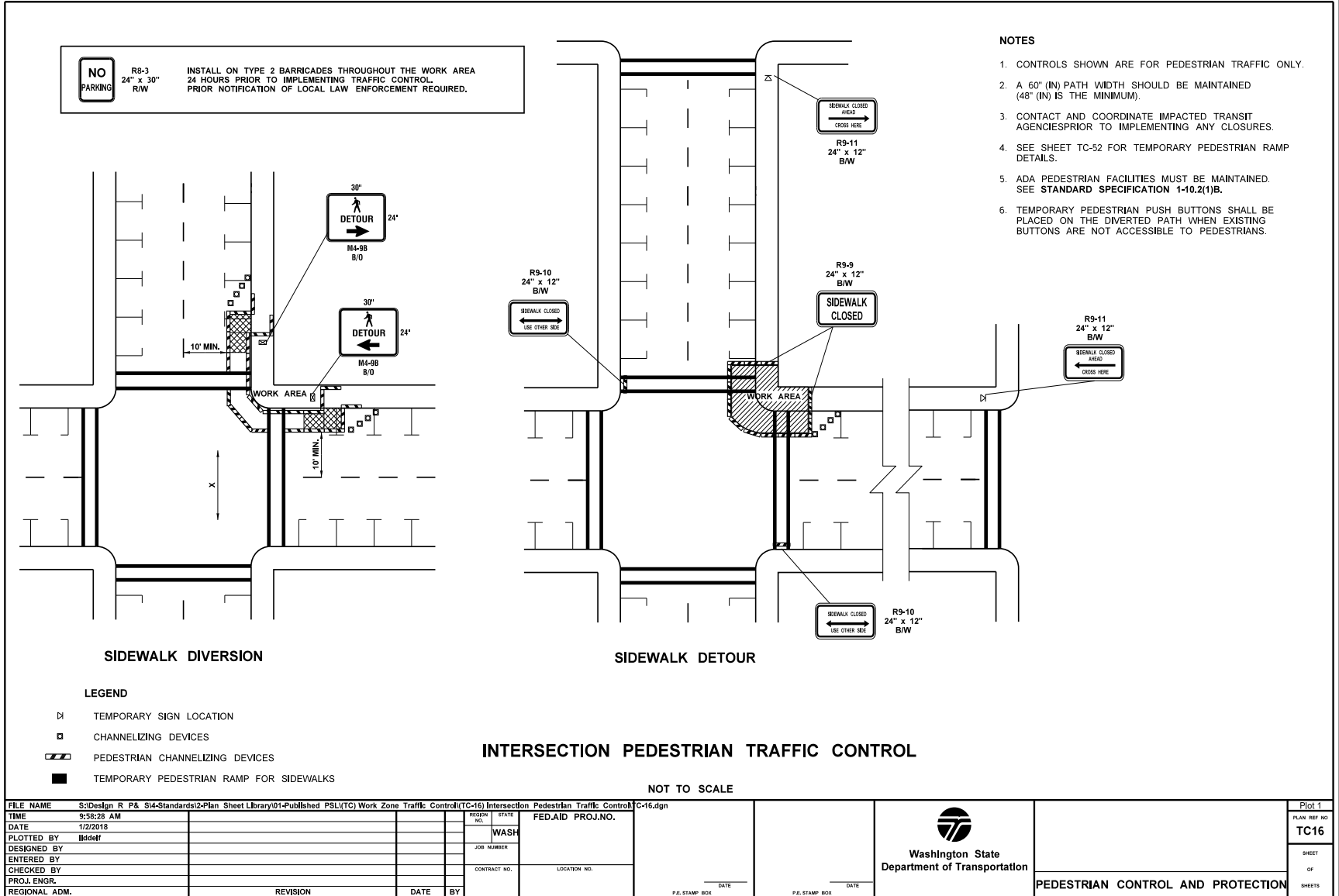
NOT TO SCALE

**NOTES**

- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
- MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
- ALL SIGNS ARE BLACK ON ORANGE.

OPTIONAL IF 40 MPH OR LESS

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC\Work Zone Traffic Control\TC-15\Intersection Lane Closure - Five Lane Roadway\TC-15.dgn			<p>Washington State Department of Transportation</p>	Plot 1
TIME	7:28:59 AM	REGION NO.	FED.AID PROJ.NO.		PLAN REF NO TC15
DATE	1/3/2018	STATE	WASH	SHEET OF SHEETS	
PLOTTED BY	lhddef	JOB NUMBER	LOCATION NO.		
DESIGNED BY		CONTRACT NO.		TRAFFIC CONTROL PLAN	
ENTERED BY		DATE	P.E. STAMP BOX		
CHECKED BY		DATE	P.E. STAMP BOX		
PROJ. ENGR.		DATE			
REGIONAL ADM.	REVISION	DATE	BY		



**MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)**

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

**MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)**

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

**SIGN SPACING = X (1)**

1500' ±	55 / 70 MPH	FREEWAYS & EXPRESSWAYS
800' ±	60 / 65 MPH	RURAL HIGHWAYS
500' ±	45 / 55 MPH	RURAL ROADS
350' ±	35 / 40 MPH	RURAL ROADS & URBAN ARTERIALS
200' ± (2)	25 / 30 MPH	RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS
100' ± (2)	25 MPH OR LESS	URBAN STREETS

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

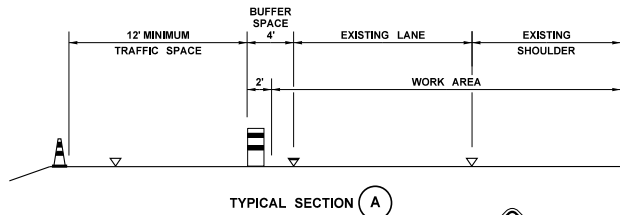
**PCMS**

1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.

**LEGEND**

- KI TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ⊙ TRAFFIC SAFETY DRUM
- ⇄ SEQUENTIAL ARROW SIGN
- ▭ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

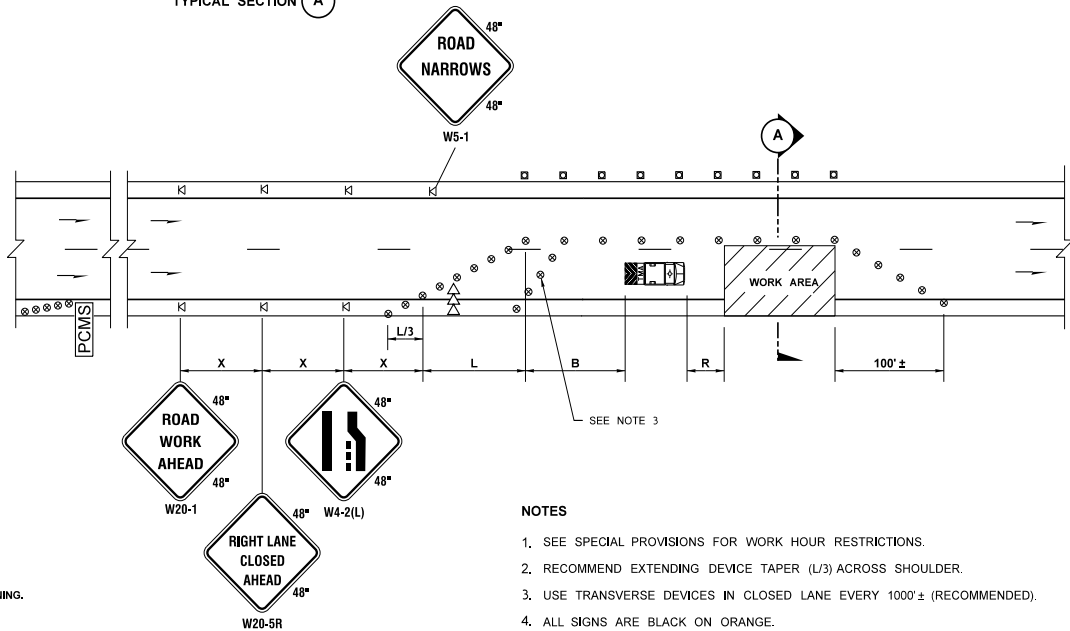


**BUFFER DATA**

LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

**TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R**

HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'



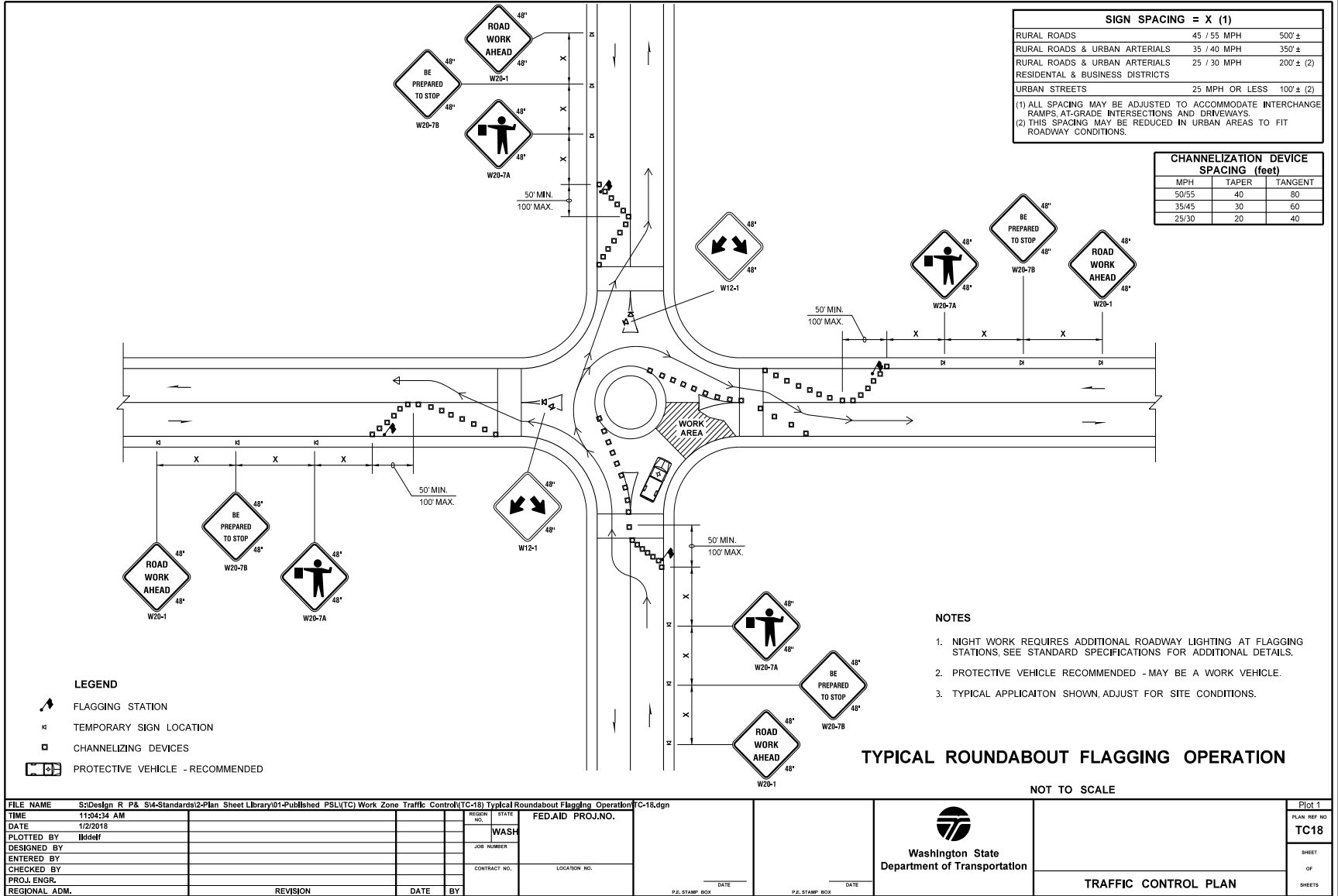
**NOTES**

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' ± (RECOMMENDED).
- ALL SIGNS ARE BLACK ON ORANGE.
- RECOMMEND ADVANCE NOTICE FOR ANY OVER WIDTH LOADS PRIOR TO LANE CLOSURE FOR ALTERNATE ROUTES IF APPLICABLE.

**SINGLE-LANE CLOSURE WITH SHIFT**

NOT TO SCALE

FILE NAME: S:\Design R P & S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC\Work Zone Traffic Control\TC-17\Single Lane Closure with Shift\TC-17.dwg		REGION: WASH		STATE: WASH		FED.AID PROJ.NO.		Plot 1	
TIME: 1:04:04 PM	DATE: 1/3/2018	DESIGNED BY: llddelf	ENTERED BY:	CHECKED BY:	PROJ.ENGR.	REGIONAL ADM.	REVISION	DATE	BY
Washington State Department of Transportation						TRAFFIC CONTROL PLAN			
						SHEET OF SHEETS			



**SIGN SPACING = X (1)**

RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
50/55	40	80
35/45	30	60
25/30	20	40

- LEGEND**
- FLAGGING STATION
  - TEMPORARY SIGN LOCATION
  - CHANNELIZING DEVICES
  - PROTECTIVE VEHICLE - RECOMMENDED

- NOTES**
- NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS, SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
  - PROTECTIVE VEHICLE RECOMMENDED - MAY BE A WORK VEHICLE.
  - TYPICAL APPLICATION SHOWN, ADJUST FOR SITE CONDITIONS.

**TYPICAL ROUNDABOUT FLAGGING OPERATION**

NOT TO SCALE

FILE NAME: S:\Design R P & S\4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-18) Typical Roundabout Flagging Operation\TC-18.dgn		REGION: WASH	STATE: WASH	FED.AID PROJ.NO.	Washington State Department of Transportation	Plot 1
TIME: 11:04:34 AM	DATE: 1/2/2018	DESIGNED BY: kddelf	ENTERED BY:	CHECKED BY:		PROJ. ENGR.
REGIONAL ADM.	REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	SHEET OF SHEETS
		P.E. STAMP BOX	DATE	P.E. STAMP BOX		TRAFFIC CONTROL PLAN

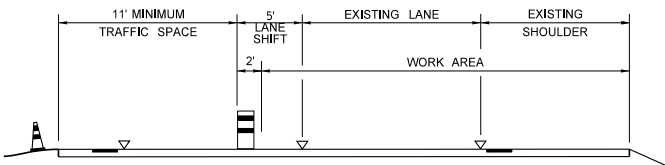
**MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)**

LANE WIDTH plus 5' shift	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
17'	-	-	-	-	760	880	960	1040	1120	1160

**MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)**

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.



**BUFFER DATA**

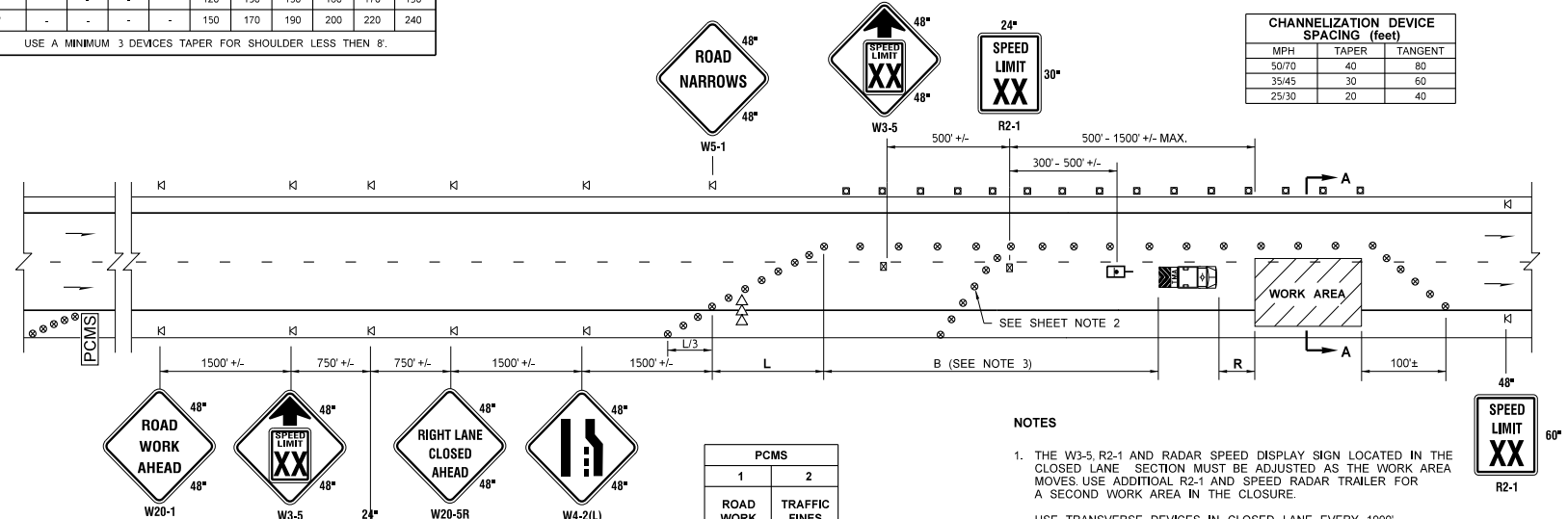
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

**TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R**

HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

**CHANNELIZATION DEVICE SPACING (feet)**

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



**LEGEND**

- KI TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION 5' MOUNTING
- CHANNELIZING DEVICES
- TRAFFIC SAFETY DRUM
- RADAR SPEED DISPLAY SIGN
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

**PCMS**

1	2
ROAD WORK AHEAD	TRAFFIC FINES DOUBLE
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE MAXIMUM IN ADVANCE OF LANE CLOSURE SIGNING.

**NOTES**

- THE W3-5, R2-1 AND RADAR SPEED DISPLAY SIGN LOCATED IN THE CLOSED LANE SECTION MUST BE ADJUSTED AS THE WORK AREA MOVES. USE ADDITIONAL R2-1 AND SPEED RADAR TRAILER FOR A SECOND WORK AREA IN THE CLOSURE.
- USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (RECOMMENDED).
- THE MINIMUM BUFFER SPACE REQUIRED IF SPEED REDUCTION SIGNING NOT USED.
- RECOMMEND ADVANCE NOTICE FOR ANY OVERWIDTH LOADS PRIOR TO LANE CLOSURE FOR ALTERNATE ROUTES IF APPLICABLE.
- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTION.

**FREEWAY RIGHT LANE CLOSURE WITH SHIFT (INCLUDING APPROVED SPEED LIMIT REDUCTION SIGNING)**

NOT TO SCALE

FILE NAME: S:\Design R P& S\4-Standards\2-Plan Sheet Library\01-Published PSL(TC) Work Zone Traffic Control(TC-19) Freeway Right Lane Closure with Shift(TC-19).dgn		REGION: 10		STATE: WASH		FED.AID PROJ.NO.		Plot 17	
TIME: 3:43:31 PM		DATE: 1/3/2018		DESIGNED BY: llddelf		ENTERED BY:		CHECKED BY:	
PLOTTED BY: llddelf		JOB NUMBER:		CONTRACT NO.:		LOCATION NO.:		SHEET OF SHEETS	
REGIONAL ADM.:		REVISION:		DATE:		BY:		TRAFFIC CONTROL PLAN	
P.E. STAMP BOX		DATE:		P.E. STAMP BOX		DATE:		TC19	



APPENDIX F  
Pipe CCTV Videos

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Appendix F – Pipe CCTV Videos

These videos were ordered by the Contracting Agency between 2012 and 2018 and are provided here for assistance with bidding. Video titles are given in “site#\_pipe ID#\_year of review” format.

Site 1 2332 2014

<https://youtu.be/LTfqrG8twQo>

Site 5 640 2015

<https://youtu.be/Ev0KcKICdsM>

Site 6 3185 2014

<https://youtu.be/lkgjqBxaRNE>

Site 7 3168 2014

<https://youtu.be/oNlzWMEZ32k>

Site 8 1 3179 2015

<https://youtu.be/3kTCXdxxs2I>

Site 10 4655 2016

<https://youtu.be/zBYtxewpjEk>

Site 11 4847 2016

<https://youtu.be/Qkc9tPhyIwc>

Site 12 4408 2018

<https://youtu.be/jiDon-ynUhs>

Site 13 2412 2015

<https://youtu.be/eHXXv9AsC5I>

Site 14 4852 2016 previously understood to be 4853

<https://youtu.be/fytS1BV1Ofk>

Site 16 3205 2014

[https://youtu.be/kW-x\\_EOUybc](https://youtu.be/kW-x_EOUybc)

Site 18 2152 2015

<https://youtu.be/UhE63RIA35A>

Site 19 3987 2018

<https://youtu.be/mDo8mo7agj8>

Site 20 3988 2018  
<https://youtu.be/mK6G6vD9tVw>



APPENDIX G  
Retainage Agreement

**CITY OF MILL CREEK  
CONTRACTOR'S DECLARATION OF OPTION FOR  
MANAGEMENT OF STATUTORY RETAINED PERCENTAGE**

The City shall withhold the retained percentage for this Contract from time-to-time as such retained percentage accrues and in accordance with RCW 60.28.011, 021, and 051.

**OPTION A** I hereby elect to have the retained percentage for this Contract held in a fund by the City.

**OPTION B** I hereby elect to post a retainage bond, in the form and amount and from a bonding company acceptable to the City pursuant to the requirements of RCW 60.28.011(6). Provide copy of Assignment of Funds.

**OPTION C** I hereby elect to have the City deposit the retained percentage for this Contract, from time-to-time, as such retained percentage accrues and in accordance with RCW 60.28.011, 021, and 051.

I hereby designate \_\_\_\_\_ as the depository for said funds which shall be deposited in an interest earning account subject to joint control by City and the Contractor. All interest earned on said deposits shall belong to the Contractor. (If the Contractor fails to designate the depository, then the City designates.)

I hereby further agree to be fully responsible for payment of all costs or fees incurred as a result of establishing said depository account and depositing the retained percentage as authorized by statute. The City shall not be liable in any way for any costs or fees in connection therewith.

CONTRACTOR:

\_\_\_\_\_

Date: \_\_\_\_\_

**PLEASE NOTE:** This form is for selection of retainage option only. OPTION C must have a signed Escrow Agreement on file prior to processing retainage payment to the bank.

**CITY OF MILL CREEK - PUBLIC WORKS  
RETAINED PERCENTAGE ESCROW AGREEMENT**

Project Description:

Escrow Bank or Trust Company: \_\_\_\_\_

Contact Person / Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_

Escrow / Account No: \_\_\_\_\_

Contractor: \_\_\_\_\_

Address: \_\_\_\_\_

---

The undersigned, \_\_\_\_\_, herein referred to as the Contractor, has directed the City of Mill Creek to deliver to you its checks which shall be payable to you and the Contractor jointly. Such checks are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

**INTRODUCTION**

1. The monies will then be used by you to purchase, as directed by the Contractor, bonds or other securities chosen by the Contractor and approved by the City of Mill Creek. Following is a list of such bonds or other securities approved by the City of Mill Creek. Other bonds or securities, except stocks, may be selected by the Contractor subject to express written approval of the City of Mill Creek. Purchase of such bonds or other securities shall be in a form which shall allow you alone to reconvert such bonds or other securities into money if you are required to do so by the City of Mill Creek as provided in paragraph 4 of this Escrow Agreement.
2. When and as interest on the securities held by you pursuant to this agreement accrues and is paid, you shall collect such interest and forward it to the Contractor at its address designated below unless otherwise directed by the Contractor.
3. You are not authorized to deliver to the Contractor all or any part of the securities held by you pursuant to this agreement (or any monies derived from the sale of such securities, or the negotiation of the City of Mill Creek's checks) except in accordance with written instructions

from the City of Mill Creek. Compliance with such instructions shall relieve you of any further liability related thereto. The estimated completion date on the contract underlying this Escrow Agreement is \_\_\_\_\_.

4. In the event the City of Mill Creek orders you to do so in writing, you shall, within thirty-five (35) days of receipt of such order, reconvert into money the securities held by you pursuant to this agreement and return such money together with any other monies held by you hereunder, to the City of Mill Creek.

5. The Contractor agrees to pay you as compensation for your services hereunder as follows:

Payment of all fees shall be the sole responsibility of the Contractor and shall not be deducted from any property placed with you pursuant to this agreement until and unless the City of Mill Creek directs the release to the Contractor of the securities and monies held hereunder whereupon you shall be granted a first lien upon such property released and shall be entitled to reimburse you from such property for the entire amount of your fees as provided for herein above. In the event that you are made a party to any litigation with respect to the property held by you hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that you are required to render any service not provided for in these instructions, or that there is any assignment of the interests of this escrow or any modifications hereof you shall be entitled to reasonable compensation for such extraordinary services from the Contractor and reimbursement from the Contractor for all costs and expenses, including attorneys' fees occasioned by such default, delay, controversy, or litigation.

6. This agreement shall not be binding until executed by the Contractor and the City of Mill Creek and accepted by you.

7. This instrument contains the entire agreement between you, the Contractor, and the City of Mill Creek with respect to this escrow and you are not a party to nor bound by any instrument or agreement other than this. You shall not be required to take notice of any default or any other matter nor be bound by nor be required to give notice or demand, nor be required to take any action whatever except as herein expressly provided; nor shall you be liable for any loss or damage not caused by your own negligence or willful misconduct.

8. The foregoing provisions shall be binding upon the assigns, successors, personal representatives, and heirs of the parties hereto.

9. The Contractor's Federal Income Tax Identification number is \_\_\_\_\_.

The undersigned have read and hereby approve the instructions as given above governing the administration of this escrow and do hereby execute this agreement on this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

CONTRACTOR

CITY OF MILL CREEK

\_\_\_\_\_

\_\_\_\_\_  
CITY MANAGER

BY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
CITY CLERK

The above escrow instructions received and accepted this \_\_\_\_ day of \_\_\_\_\_ 2019.

ESCROW BANK OR TRUST COMPANY:

\_\_\_\_\_

BY: (Authorized Officer)

Securities Authorized by City of Mill Creek - Select One:

1. Bills, certificates, notes or bonds of the United States
2. Other obligations of the United States or its agencies
3. Obligations of any corporation wholly-owned by the government of the United States
4. Indebtedness of the Federal National Mortgage Association
5. Time deposits in commercial banks

PLEASE RETURN THIS SIGNED AGREEMENT TO:

CITY OF MILL CREEK  
15728 MAIN STREET  
MILL CREEK, WA 98012  
PHONE: 425-745-1891

**INSTRUCTION TO CONTRACTOR  
RETAINAGE RELEASE REQUIREMENTS**

The following are documents required to be on file with the City of Mill Creek prior to release of retainage.

<b>DOCUMENT</b>	<b>GENERATED BY</b>
Statement of Intent to Pay Prevailing Wages  *Contractor initiates. <b>Must be approved before first progress payment can be made.</b>	Washington State Department of Labor & Industries Prevailing Wage Section PO Box 44540 Olympia, WA 98504-4540
Affidavit of Wages Paid  *Contractor initiates	Washington State Department of Labor & Industries Prevailing Wage Section PO Box 44540 Olympia, WA 98504-4540
Notice of Completion of Public Works Contract, sent to Departments of Revenue, Employment Security and L & I  *City Generates with electronic form after final acceptance	City of Mill Creek 15728 Main Street Mill Creek, WA 98012-1227
Certificate of Payment of Unemployment Contributions  *Letter from State to City	Washington State Employment Security Dept. PO Box 9046 Olympia, WA 98507-9046
Certificate of Payment of State Excise Tax  *Letter from State to City	Washington State Department of Revenue PO Box 47474 Olympia, WA 98504
Certificate of Release of State's Lien on Public Works Contract  *Letter from State to City	Washington State Department of L & I PO Box 44274 Olympia, WA 98504
Receipt for Payment in full or Release of Lien signed by Lien Claimant and filed with City.  *Responsibility of Contractor to obtain.	Only if claim against retainage or Performance Bond was filed with City by any such subcontractor, workman or material supplier.
Contractor's Record Drawings (Field set)	Contractor
Written Warranties if Applicable to Contract	Contractor



Date: May 14, 2019

A/P Check Batches		
Dated	Check Numbers	Amount
04/22/2019	60203	\$5,000.00
04/30/2019	60204-60281	\$526,339.78
05/02/2019	60282	\$3,278.60
<b>Total</b>		<b>\$534,618.38</b>

Voided Checks	
Numbers	Explanation

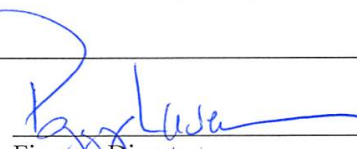
CLAIMS APPROVAL

We, the undersigned Finance/Audit Committee of the City of Mill Creek, recommend approval of check numbers 60203 through 60282, in the amount of \$534,618.38.

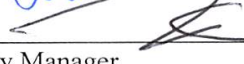
We recommend approval of the above stated amount with the following exceptions:

\_\_\_\_\_

\_\_\_\_\_  
Councilmember

  
\_\_\_\_\_  
Finance Director

\_\_\_\_\_  
Councilmember

  
\_\_\_\_\_  
City Manager

F:\DATA\EXECUTIVE\WP\FORMS\FIN\Voucher Approval 1.doc

*Approved, with exception to #60225, due to personal conflict.*

**Accounts Payable**

Checks by Date - Detail by Check Date

User: jodieg  
 Printed: 5/8/2019 9:25 AM



Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
60203	McGuireL 04/22	McGuire Law Group City Attorney Assigned Services	04/22/2019		5,000.00
Total for Check Number 60203:				0.00	5,000.00
Total for 4/22/2019:				0.00	5,000.00
60204	SEADAIJ 3347074	Daily Journal of Commerce BC: Surface Water Aging 04/15, 04/22 - F Grade	04/30/2019		483.00
Total for Check Number 60204:				0.00	483.00
60205	ABSOLGRP 219154	Absolute Graphix Inc 18 Volunteer & Staff Event T-Shirts	04/30/2019		207.99
Total for Check Number 60205:				0.00	207.99
60206	ACTTARG 0416105-IN	Action Target, Inc. 6 LET Economy Paper Target Stands	04/30/2019		311.70
Total for Check Number 60206:				0.00	311.70
60207	ADPLLC 533571095 533970190	ADP, LLC ADP - Payroll Services Workforce Now 03/31 ADP Payroll Services 03/31 & Workforce Now I	04/30/2019		390.70 984.63
Total for Check Number 60207:				0.00	1,375.33
60208	ALDWTR 00320003-01 01100176-01 01300169-01 01550006-01 02170002-01 02460002-01 02470001-01 03050003-01 03095000-01 03805002-01 03865000-01 04900159-01 05400166-01 05590004-02 05600177-03 05700181-01 05702001-01 05705005-01 06900173-02 07850004-01	Alderwood Water District Seattle Hill Rd I/R 01/24 - 03/19 Median 4 & 5 I/R 01/22 - 03/19 1901 Mill Fern Dr SE I/R Median 01/22 - 03/19 16011 28th Dr SE I/R 01/24 - 03/19 Seattle Hill Rd I/R 01/24 - 03/19 155 Village Grn Dr I/R 01/24 - 03/19 155 Vlg Grn Dr/Heron Pk 01/24 - 03/19 15933 29th Dr SE I/R 01/24 - 03/19 16220 27th Dr SE I/R 01/24 - 03/19 16217 27th Dr SE I/R 01/24 - 03/19 16205 25th Dr SE I/R 01/24 - 03/19 Seattle Hill Rd I/R 01/24 - 03/19 Median Number 6 I/R 01/22 - 03/19 15720 Mill Creek Blvd D/C 01/22 - 03/19 15720 Main Street 01/22 - 03/19 15728 Main St I/R 01/22 - 03/19 15728 Main Street D/C 01/22 - 03/19 15728 Main Street 01/22 - 03/19 1300 156th Pl SE 01/22 - 03/19 16101 Highland Blvd/Restr 01/24 - 03/19	04/30/2019		71.26 71.26 216.20 71.26 71.26 137.14 193.22 71.26 71.26 71.26 31.72 71.26 137.14 14.90 516.55 137.14 14.90 400.89 31.72 193.22



Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
	07855001-01	16101 28th Dr SE 01/24 - 03/19			137.14
	07895001-01	16021 28th Dr SE I/R 01/24 - 03/19			71.26
	07900155-01	Seattle Hill Rd I/R 01/24 - 03/19			71.26
	08000152-01	Seattle Hill Rd I/R 01/24 - 03/19			71.26
	08300050-01	3310 157th Pl SE I/R 01/24 - 03/19			71.26
	08800024-01	Seattle Hill Rd I/R 01/24 - 03/19			71.26
	08900020-01	Seattle Hill Rd I/R 01/24 - 03/19			71.26
	09000017-01	Seattle Hill Rd I/R 01/22 - 03/19			71.26
	09080000-01	14600 Mill Creek Blvd I/R 01/24 - 03/19			31.72
	09100016-01	Seattle Hill Rd I/R 01/22 - 03/19			71.26
	13233000-01	15200 Mill Creek Blvd I/R 01/24 - 03/19			31.72
	25703000-01	14725 32nd Dr SE I/R 01/24 - 03/20			71.26
	26070000-01	15803 32nd Ave SE 01/24 - 03/19			193.22
	26467000-01	1900 164th St SE 01/23 - 03/19			71.26
	26468000-01	1900 164th St SE I/R 01/23 - 03/19			71.26
	33254000-01	14725 32nd Dr SE 01/24 - 03/20			193.22
	34493000-01	15720 Main St I/R 01/22 - 03/19			31.72
			Total for Check Number 60208:	0.00	3,997.42
60209	ALEXPRCO 59749	Alexander Printing Company Inc 500 - Public Defender Application Forms	04/30/2019		183.63
			Total for Check Number 60209:	0.00	183.63
60210	AMTESTIN 109952	Am Test, Inc 5 - Fecal Coliform Analysis	04/30/2019		125.00
			Total for Check Number 60210:	0.00	125.00
60211	AMAZON 13KC-THGC-GLJH IH7Y-JMWF-MCWH	Amazon Capital Services Replacement Backup Battery - PD Patrol Area Anker USB Ethernet Adapter & HDMI To DVI (	04/30/2019		36.12 36.44
			Total for Check Number 60211:	0.00	72.56
60212	Aminalsk 117930	Animal Skin & Allergy Clinic Exam, Allergy Testing - Bagira	04/30/2019		888.53
			Total for Check Number 60212:	0.00	888.53
60213	AUTOGR 82767	Autographics Graphics 2019 Ford Escape	04/30/2019		94.39
			Total for Check Number 60213:	0.00	94.39
60214	BANKCR16 1 2 3 4 5 6	Bank of America APT Conf Fee - K Mason-Hatt Lunch, Qtrly Facility Fee 01/01 - 03/31 - MC Rc Parking - PAC Mtg - T Rogers 03/14/19 Mill Creek Rotary Mtg - T. Rogers 03/20 MC Rotary Club Facility Fee 04/01 - 06/30 Registration Fee WABO Qtrly Bus Mtg - 04/25	04/30/2019		200.00 67.00 7.00 17.00 67.00 60.00
			Total for Check Number 60214:	0.00	418.00
60215	BENEAD 1904514	Benefit Administration Co, LLC Section 125 Flexible Benefits Plan - April	04/30/2019		150.60
			Total for Check Number 60215:	0.00	150.60
60216	Beyond	Beyond the Benchmark	04/30/2019		

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
	Invoice #1	Leadership/Executive Coaching Training - Marcl			600.00
			Total for Check Number 60216:	0.00	600.00
60217	BRIDPETS PO 00092	Bridges Pets 1 Bag Victor Ultra Pro - Bagira	04/30/2019		65.51
			Total for Check Number 60217:	0.00	65.51
60218	BUSCHJ Reim. Busch Mea Reimb Busch	James Busch Reimburse Meals-J Busch-Deliver/Install Equip- Reimburse Meals-J Busch-ACCIS Spr Conf 04/1	04/30/2019		23.00 78.00
			Total for Check Number 60218:	0.00	101.00
60219	BANKCR20	Business Card	04/30/2019		
	1	Key Hooks - CHN			19.62
	10	Paint, Cleaner, Nozzle - MCSP Repairs			78.00
	11	48"x48" Drag Harrow - Clean-Up After Storm -			267.77
	12	Square Stone, Flex Coup - MCSP Repairs			25.79
	13	Return Of Space Eraser - Trim Piece For PD Pro			-9.47
	14	Return Of Magic 20" Counter Gap Eraser - PD			-17.06
	2	6 - 4x4 Timbers			121.66
	3	4- Bottles Vinegar For Cleaning Salt Off Sander			19.96
	4	3/4 x 10' Hose For PW Shop			61.80
	5	Space Eraser Trim Piece For PD Project			9.47
	6	Magic 20" Counter Gap Eraser - PD Project			17.06
	7	Dual Mount Kitchen Sink - CHS Lunch Room			143.16
	8	Bowl Top Mount Kitchen Sink - Lunch Room -			618.07
	9	Single Handle Kitchen Faucet With Soap Disp -			198.61
			Total for Check Number 60219:	0.00	1,554.44
60220	BANKCR24	Business Card	04/30/2019		
	1	Financial Publications			295.00
			Total for Check Number 60220:	0.00	295.00
60221	BANKCR25	Business Card	04/30/2019		
	1	MC Chamber of Commerce Board Mtg. - J. Kirk			11.43
	10	Preschool Supplies - Writing, Circle Time, Move			10.00
	11	Constant Contact Toolkit - Monthly Fee			104.98
	12	Supplies for Eggstravaganza Event			29.74
	13	2 Certificate Holders - Volunteer Appreciation E			55.22
	2	Preschool Pals Supplies - Spring 2019			141.02
	3	Preschool Pals Supplies - Spring 2019			32.72
	4	Youth BB Ref & Gym Supervisor Recognition E			111.11
	5	Breakfast - Tourism Conference - 05/01			20.00
	6	Easter Eggstravaganza Supplies 04/20			101.36
	7	Supplies for Preschool-Writing, Circle Time, Mo			42.21
	8	Supplies for Preschool-Writing, Circle Time, Mo			77.03
	9	Preschool Outreach Prog. Field Trip-Willow Crk			250.00
			Total for Check Number 60221:	0.00	986.82
60222	BANKCR26	Business Card	04/30/2019		
	1	Sno. County Cities & Towns Mtg - B. Holtzclaw			15.00
	10	Refreshments - CM Finalists- Community, Staff			35.22
	11	Refreshments - CM Finalists- Council & Candid			52.19
	2	Refreshments - RFQ Interviews - MC Blvd Sub-			6.29
	3	Sno. County Cities & Towns Mtg - B Stowe- 03/			15.00

# AGENDA ITEM #1.

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
4		Sno. County Cities & Towns Mtg - J. Steckler - (			15.00
5		Lodging - WMCA Conf. - G. Pfister - 03/11 - 03			459.72
6		Sate Of The Station Luncheon - P Pruitt - 04/11			35.00
7		Lunch - CM Recruitment - Council & Candidate			188.08
8		Lunch - CM Recruitment - Staff & Candidates 0.			513.56
9		Lunch - CM Finalists- Community Panel & Canc			65.91
Total for Check Number 60222:				0.00	1,400.97
60223	BANKCR27	Business Card	04/30/2019		
	1	WAPRO Spring Training - J. Lee 05/14			175.00
	2	WAPRO Annual Dues - J Lee			25.00
	3	Mailing Ballistic Vest Back To Fife			25.66
	4	42nd Ann. Collective Barg. & Arbitration-R. Mu			350.00
	5	Parking-LERA Conf - S Eastman, C Eikenberry,			20.00
	6	Parking-LERA Conf - S Eastman, C Eikenberry,			17.00
Total for Check Number 60223:				0.00	612.66
60224	CDW RVM7044	CDW Government 2019 Microsoft Annual Licensing Renewal	04/30/2019		30,920.22
Total for Check Number 60224:				0.00	30,920.22
60225	MichaelC Reimb Travel #2	Michael Ciaravino Reimb - Airfare, Hotel, Car Rental - M. Ciaravin	04/30/2019		1,946.12
Total for Check Number 60225:				0.00	1,946.12
60226	CINTAS 4019971541 4019971541A	Cintas Corporation Loc. #460 Floor Mat Service 04/22 Floor Mat Service 04/22	04/30/2019		56.07 96.29
Total for Check Number 60226:				0.00	152.36
60227	CityofMo 0042322	City of Monroe Springbrook Onsite Payroll Consulting/Training	04/30/2019		750.00
Total for Check Number 60227:				0.00	750.00
60228	COLUMBFE 3-K1095	Columbia Ford 2019 Ford Escape <i>dept ? dpa</i>	04/30/2019		22,664.27
Total for Check Number 60228:				0.00	22,664.27
60229	COMCAST 849831021045701 849831021172434	Comcast High Speed Internet Fee 04/18-05/17 Internet for ITS 04/14 - 05/13	04/30/2019		191.40 116.40
Total for Check Number 60229:				0.00	307.80
60230	COPIETC AR40473	Copiers Etcetera, Inc. Repairs & Maint - Copy Machines	04/30/2019		1,289.77
Total for Check Number 60230:				0.00	1,289.77
60231	EMSECDEP Q1/2019	Employment Security Depart Unemployment Claims - 1st Qtr 2019	04/30/2019		1,498.00
Total for Check Number 60231:				0.00	1,498.00
60232	ADLFSASC	ESA	04/30/2019		

# AGENDA ITEM #1.

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
	141767	Prof Svc - The Farm @ Mill Creek 11/01 - 11/30			1,706.25
	142762	Prof Svc - The Farm @ Mill Creek 12/01 - 12/31			250.00
	142766	Prof Svc - Muttley Square Review 12/01 - 12/31			718.75
	143277	Prof Svc - The Farm @ Mill Creek 01/01 - 01/31			1,145.00
			Total for Check Number 60232:	0.00	3,820.00
60233	EticoSol 2019-BHWA-06	Etico Solutions, Inc. Resource Allocation & Deployment Course - S. I	04/30/2019		500.00
			Total for Check Number 60233:	0.00	500.00
60234	EVERAUTO 0209956	Evergreen Autoworks Replace Rear Wiper Blade, Window Switch, Mo	04/30/2019		551.94
			Total for Check Number 60234:	0.00	551.94
60235	FCSGROUP 2923-21903067 2923-21904007	FCS Group Prof Svcs - Surface Watert Rate Study Rendered Prof Svc - Surface Water Rate Study Rendered t	04/30/2019		1,015.00 1,260.00
			Total for Check Number 60235:	0.00	2,275.00
60236	GTENORTH 425 316-0326	Frontier Alarm System Line Chgs-Cook House 04/16-05/	04/30/2019		64.28
			Total for Check Number 60236:	0.00	64.28
60237	GRYOSBRN 13	Gray & Osborne Inc Prof Svcs - 35th Ave Recon - 03/03 - 03/30	04/30/2019		35,606.80
			Total for Check Number 60237:	0.00	35,606.80
60238	HARBORPC 10	Harbor Pacific Contractors, Inc 35th Ave SE Recon - Progress Estimate No. 10 -	04/30/2019		274,161.12
			Total for Check Number 60238:	0.00	274,161.12
60239	HUIK 7008 7009 7013	Kelly Hui Ballet - Creative - 10:30AM - March 03/02 - 03/ Ballet - Creative - 11:15AM - March 03/02 - 03/ Ballet - Beginning - 12:00PM - March 03/02 - 0:	04/30/2019		420.00 126.00 420.00
			Total for Check Number 60239:	0.00	966.00
60240	INTSTBAT 1905701050603	Interstate All Battery Center Replenish Batteries - 3V, 9V, AA, D	04/30/2019		156.24
			Total for Check Number 60240:	0.00	156.24
60241	KCDA 300382924 300382975 300383560 300383560A 300383560B 300385326	KCDA Purchasing Cooperative General Office Supplies - P & R 2 Reams Card Stock - P & R Office Supplies - Passports Office Supplies - PD Office Supplies - Central Supplies 1 Box - Manila File Folders	04/30/2019		198.54 17.61 23.82 11.98 20.25 11.23
			Total for Check Number 60241:	0.00	283.43
60242	KLEIJ 04162019	John Klei Reimb Prescr, Vision Exam, Lenses, Frames & N	04/30/2019		586.87

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
	04162019A	Reimb Medicare Part B 07/01/18 - 03/31/2019 -			1,212.00
			Total for Check Number 60242:	0.00	1,798.87
60243	KNOWBE4 INV56781	KnowBe4 Inc Renewal Of Licenses - Cybersecurity Awareness	04/30/2019		1,453.96
			Total for Check Number 60243:	0.00	1,453.96
60244	KPFFCON 258490 262187-3	KPFF Consulting Engineers Prof Svcs - 35th Ave SE Reconstruction - thru 2/ Professional Services - Exploration Park Thru 03	04/30/2019		456.91 9,135.00
			Total for Check Number 60244:	0.00	9,591.91
60245	SHURKLEN 412 412A	Kramer Enterprises, LLC Vehicle Washes - Jan 2019 - March 2019 - PD C: Vehicle Washes - Jan 2019 - March 2019 PW/Sta	04/30/2019		170.79 60.28
			Total for Check Number 60245:	0.00	231.07
60246	KROESENS 54807	Kroesen's Uniform Company 80 - K9 Shoulder Patches	04/30/2019		302.22
			Total for Check Number 60246:	0.00	302.22
60247	LAROSSES Reimb LaRose	Scot LaRose Reimb Meals, Lodging -S LaRose-Active Shoot	04/30/2019		322.00
			Total for Check Number 60247:	0.00	322.00
60248	LynnMoto 318768	Lynnwood Motoplex Install Rifle Rack, Bracket, Gun Lock Release &	04/30/2019		1,821.71
			Total for Check Number 60248:	0.00	1,821.71
60249	TaraMark Reimb Marks	Tara Marks Reimb Meals - WSHNA Conf - T. Marks 04/06 -	04/30/2019		234.00
			Total for Check Number 60249:	0.00	234.00
60250	KIDZLOVS 7017 7019 7023 7025 7029 7031 7034 7036 7039 7041	North American Youth Activities, LLC KLS Soccer - Mommy & Me - March - Sat 9:05. KLS Soccer - Mommy & Me - March -Tues 4:20 KLS Soccer - Tot-Soccer - March - Sat 9:40AM- KLS Soccer - Tot-Soccer - March - Tue 4:55PM- KLS Soccer - Pre-Soccer - March - Sat 10:15AM KLS Soccer - Pre-Soccer - March - Tues -5:30PM KLS Soccer 1 - March, Sat - 10:55AM - 03/02 - KLS Soccer 1 - March, Tues - 6:10PM - 03/05 - KLS Soccer - Soccer 2 - March - Sat 11:45AM-C KLS Soccer - Soccer 2 - March - Tue - 7:00PM-4	04/30/2019		555.34 147.00 294.00 147.00 539.00 269.50 637.00 269.50 343.00 245.00
			Total for Check Number 60250:	0.00	3,446.34
60251	NORTHSH 9403	Northshore Senior Center Allocation for Senior Program - 1st Qtr 2019	04/30/2019		3,750.00
			Total for Check Number 60251:	0.00	3,750.00
60252	GFOA 0116940	Government Finance Officers Association GFOA Annual Membership - P. Laucerman	04/30/2019		150.00

# AGENDA ITEM #1.

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
			Total for Check Number 60252:	0.00	150.00
60253	OMWATT	Ogden Murphy Wallace Attorneys	04/30/2019		
	823200	Prof Legal Svcs - Franchises - March			2,967.00
	823799	Prof Legal Services - Council- March			6,402.50
	823802	Prof Legal Services - Exec - March			1,072.50
	823805	Prof Legal Svcs - Police - March			752.60
			Total for Check Number 60253:	0.00	11,194.60
60254	PACAIR	Pacific Air Control, Inc.	04/30/2019		
	19908	HVAC Repair, Reset Boiler, Replace 2 Belts, Ch			550.53
			Total for Check Number 60254:	0.00	550.53
60255	CLYDEWST	PacWest Machinery	04/30/2019		
	20329742	Tymco Sweeper Train School - M Combs, J Chri			150.00
			Total for Check Number 60255:	0.00	150.00
60256	PGFREEZ	Page Freezer	04/30/2019		
	INV-6003	Page Freezer Website Archiving - 12 Months			3,588.00
			Total for Check Number 60256:	0.00	3,588.00
60257	PAWS	PAWS	04/30/2019		
	March 2019	Animals Brought To Shelter - March			187.00
			Total for Check Number 60257:	0.00	187.00
60258	PAWSAFT	Paws Afoot	04/30/2019		
	6927	Dog Obed - Basic Training For Dogs-March 6PM			231.00
	6930	Dog Obed-Basic Training For Dogs-March 7:15I			385.00
			Total for Check Number 60258:	0.00	616.00
60259	Peckman	Peckham & McKenney	04/30/2019		
	Invoice #4	Professional Fee - City Manager Search			2,250.00
			Total for Check Number 60259:	0.00	2,250.00
60260	ELLITIRE	PepBoys-Remittance Dept	04/30/2019		
	064462006840	Replace Spark Plug - Ignition Coil - Car #44			351.79
			Total for Check Number 60260:	0.00	351.79
60261	PERTEET	Perteet Inc	04/30/2019		
	20160281.014-6	Professional Svcs - The Farm 01/28 - 03/31			3,721.25
	20160281.018-3	Professional Svcs - Muttley Square 01/01 - 01/27			195.00
	20160281.018-5	Professional Svcs - Muttley Square 03/04 - 03/31			731.25
	20180189.000-5	Professional Services - F Pipe Repairs 03/04 - 02			21,267.76
			Total for Check Number 60261:	0.00	25,915.26
60262	SNOCPUD	PUD No. 1 of Snohomish County	04/30/2019		
	200101434	2725 Seattle Hill Rd 03/13 - 04/09			15.12
	200154458	2720 Seattle Hill Rd 03/13 - 04/09			15.12
	201345386	2501 147th Pl SE 03/23 - 04/19			45.98
	201353968	15728 Main St 03/08 - 04/08			1,541.41
	201367745	902 164th St SE 03/07 - 04/04			32.88
	201663515	14600 16th Ave SE 03/06 - 04/04			23.94

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
	201752961	15429 1/2 Bothell Everett Hwy	03/09 - 04/08		18.24
	201948601	13903 N Creek Dr	03/20 - 04/16		171.29
	202212361	928 Dumas Rd	03/19 - 04/16		104.66
	202230108	1900 164th St SE	03/13 - 04/10		26.91
	202461042	15803 32nd Ave SE	03/13 - 04/09		21.21
	202667499	2024 Seattle Hill Rd	03/13 - 04/10		33.78
	202693008	15720 Main St	03/19 - 04/16		1,435.43
	202852059	15720 Main St, Unit B	03/19 - 04/16		336.17
	202959052	4842 SAC	03/09 - 04/08		73.94
	203164694	13510 N Creek Dr	03/19 - 04/16		45.53
	203211552	13628 N Creek Dr	03/20 - 04/19		57.97
	203348081	14810 35th Ave SE	03/13 - 04/09		51.40
	203388152	15429 Bothell Everett Hwy	03/09 - 04/08		22.32
			Total for Check Number 60262:	0.00	4,073.30
60263	PUGETSO 200004765331 200004765463	Puget Sound Energy 15720 Main St 15728 Main St	03/19 - 04/18 03/19 - 04/18		146.56 397.80
			Total for Check Number 60263:	0.00	544.36
60264	PITNEYW 800090000046343	Purchase Power Postage - Refill Postage Meter	04/30/2019		2,500.00
			Total for Check Number 60264:	0.00	2,500.00
60265	REYNLDST 21497	Todd Reynolds Photographic Services - Communications	04/30/2019		500.00
			Total for Check Number 60265:	0.00	500.00
60266	RINGSTAS Reimb Ringstad	Sherrie Ringstad Record Development Agreement- Sno County -1	04/30/2019		326.00
			Total for Check Number 60266:	0.00	326.00
60267	ROGERST Reimb - T. Roge	Tom Rogers Reimb. Rotary Lunch Mtg - T. Rogers	04/17		17.00
			Total for Check Number 60267:	0.00	17.00
60268	ShayneSc Reimb S. Scott	Shayne Scott Reimb for Air, Rent Car, Lodging - S. Scott - CA	04/30/2019		603.30
			Total for Check Number 60268:	0.00	603.30
60269	SHREDIT 8127053667	Shred-It USA Inc Shredding Service Fee	04/30/2019		73.39
			Total for Check Number 60269:	0.00	73.39
60270	SNOCOC 2019-4921	Snohomish County Corrections Jail Service Fees - Feb	04/30/2019		10,639.95
			Total for Check Number 60270:	0.00	10,639.95
60271	SNDPUBIN 7908572	Sound Publishing Inc Job Posting - Preschool Asst - Recreation	03/01 -		299.00
			Total for Check Number 60271:	0.00	299.00

# AGENDA ITEM #1.

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
60272	SDISTCRT I000498379 I000498379A	South District Court Filing Fees SD Court - March Interpreter Costs - March	04/30/2019		4,817.44 262.03
Total for Check Number 60272:				0.00	5,079.47
60273	STAPLEAD 1623439155 1623439155a 1623439155b 1623439155c	Staples Advantage Credit Returned Batteries-DL2032 RPK-Patrol Binders/Tabs/Blue Pens-DC HP Crtg Cyn/Gray/Mag/Post-It/Glass Cleaner Copy Paper/Black Pens/10 x 13 Envelopes	04/30/2019		-16.76 60.17 295.07 251.22
Total for Check Number 60273:				0.00	589.70
60274	STOWE MI ICM 010	Stowe Development & Strategies, LLC Interim City Manager Services 03/01 - 03/29	04/30/2019		23,375.00
Total for Check Number 60274:				0.00	23,375.00
60275	USIC 324280 324280A	USIC Locating Services, LLC 130 NC Locates/113 Ticket Locates 130 NC Locates/113 Ticket Locates	04/30/2019		1,366.74 1,366.73
Total for Check Number 60275:				0.00	2,733.47
60276	VANHOLLT 7133	Tenille Van Hollebeke Cupcake Class - Easter Mini Log - 04/13 - #7133	04/30/2019		122.50
Total for Check Number 60276:				0.00	122.50
60277	VERIZON 9828542915	Verizon Wireless Access & Usage Chgs 03/21-04/20-City Cell Ph	04/30/2019		2,020.65
Total for Check Number 60277:				0.00	2,020.65
60278	WALTNELS 698078 698078A 698079 854087	Walter E. Nelson Co. Janitorial Supplies - CHS Janitorial Supplies - CHN Janitorial Supplies - Parks 4 - Disinfectant Cleaner	04/30/2019		626.23 626.23 1,490.89 77.04
Total for Check Number 60278:				0.00	2,820.39
60279	WAVEDIV 08595542	WaveDivision Holdings, LLC Fiber Lease - 15728 Main St To 3000 Rockefeller	04/30/2019		629.85
Total for Check Number 60279:				0.00	629.85
60280	WINTSERV 104061	West Interactive Services Corporation Sales Tax - Website Development - 3rd Mileston	04/30/2019		149.29
Total for Check Number 60280:				0.00	149.29
60281	ZAC&THOM 19-MCR0004	Zachor & Thomas, Inc., P.S. Monthly Prosecution Legal Retainer - Apr	04/30/2019		9,500.00
Total for Check Number 60281:				0.00	9,500.00
Total for 4/30/2019:				0.00	526,339.78
60282	BANKCARE	Bank of America	05/02/2019		



# AGENDA ITEM #1.

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Void Checks	Check Amount
1		CPES Certification-J Lee			175.00
10		Lodging Deposit-Advanced Motors Training-T E			152.90
11		Refreshments-City Manager Interviews			148.03
12		Refreshments-City Manager Interviews-Ian Durl			78.04
13		Active Threat Incidents 05/06-05/07-I Durkee &			698.00
14		Impact Wrench, Torque Wrench, Impact Socket-			164.37
15		SimplyFile Outlook Plug-In			49.95
16		Cisco Compatable 1000Base SFP 1470nm/Dupl			56.70
17		10 Yr Service Award T Kidwell, 5 Yr Service Av			90.46
18		Lodging-04/22-04-26-Police West Point Model-!			708.08
19		MyBuildingPermit.com Monthly Fee			59.95
2		Toll Chgs-Car #43			7.50
20		Refreshments-Citizens Academy			9.88
3		Collective Bargaining & Arbitration Conf-K Ma:			375.00
4		NPELRA Labor Relations Academy Cert-C Eike			299.00
5		Toll Chgs-Car #2			102.50
6		Employee Breakfast St Paddy Day Wellness Eve			34.36
7		Employee Breakfast St Paddy Day Wellness Eve			29.24
8		Employee Breakfast St Paddy Day Wellness Eve			37.43
9		2 Boxes Crayons-Passports			2.21
Total for Check Number 60282:				0.00	3,278.60
Total for 5/2/2019:				0.00	3,278.60
Report Total (80 checks):				0.00	534,618.38



Date: May 14, 2019

Payroll Check Batches		
Dated	Check Numbers	Amount
05/07/2019	ACH Wire-Assoc. of WA Cities	\$85,153.38
04/25/2019	ACH Automatic Deposit Checks	\$153,503.69
04/25/2019	ACH Wire- FWT & Medicare Taxes	\$27,708.40
04/10/2019	ACH Wire MEBT-Wilmington Trust	\$22,261.07
04/25/2019	ACH Wire MEBT- Wilmington Trust	\$28,413.53
04/25/2019	ACH Wire- ICMA RC- Def. Comp	\$1,762.87
04/25/2019	ACH Wire- BAC- Flex Spending Acct	\$162.49
04/25/2019	ACH Wire – BAC – Flex Savings Acct	\$1,753.00
<b>Total</b>		<b>\$320,718.43</b>

Voided Checks	
Numbers	Explanation

CLAIMS APPROVAL

We, the undersigned Finance/Audit Committee of the City of Mill Creek, recommend approval of the ACH Automatic Deposit checks and ACH Wire Transfers in the amount of \$320,718.43.

We recommend approval of the above stated amount with the following exceptions:

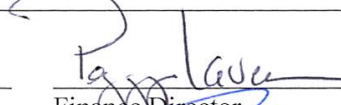
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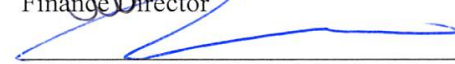
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Councilmember

\_\_\_\_\_

Councilmember

  
 \_\_\_\_\_  
 Finance Director

  
 \_\_\_\_\_  
 City Manager

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5/8/2019

**ASSOCIATION OF WASHINGTON CITIES  
MILL CREEK, CITY OF**

**ACCOUNT SUMMARY** - contains all changes to this account as of 05/06/2019 02:52:54 PM

**FUND: 100**

**ACCOUNT NUMBER: 186 L**

BILL MONTH:	05/2019
COVERAGE MONTH:	05/2019
PAYMENT DUE BY:	<b>05/10/2019</b>
CURRENT BILLING AMOUNT:	\$85,153.36
PRIOR OVERAGE OR SHORTAGE:	\$0.00
ADJUSTMENTS:	\$0.00
<b>TOTAL AMOUNT DUE:</b>	<b>\$85,153.36</b>

100 186 L 052019 0

Fund	Account Number	Bill Month	Amount Paid
100	186 L	05/2019	\$ <u>85,153.38</u>

*If you have questions concerning your billing, please contact the Association of Washington Cities Office at (800) 562-8981 or (360) 753-4137 or Northwest Administrators, Inc. at (206) 726-3345.*

**MAIL PAYMENT TO:** *If payment is made by check, please print a copy of this page and mail it with your payment to the following address.*

ASSOCIATION OF WASHINGTON CITIES  
PO BOX 84303  
SEATTLE, WA 98124-5603

Statistical Summary

**Statistical Summary**

Company:A0W - City Of Mill Creek Service Center:0076 Pacific North West Status:Cycle Complete  
 Week#:17 Pay Date:04/25/2019 P/E Date:04/15/2019  
 Qtr/Year:2/2019 Run Time/Date:18:36:08 PM EDT 04/22/2019

<b>Taxes Debited</b>	Federal Income Tax	20,866.08		
	Earned Income Credit Advances	0.00		
	Social Security - EE	0.00		
	Social Security - ER	0.00		
	Social Security Adj - EE	0.00		
	Medicare - EE	3,145.39		
	Medicare - ER	3,145.45		
	Medicare Adj - EE	0.00		
	Medicare Surtax - EE	0.00		
	Medicare Surtax Adj - EE	0.00		
	COBRA Premium Assistance Payments	0.00		
	Federal Unemployment Tax	0.00		
	State Income Tax	0.00		
	Non Resident State Income Tax	0.00		
	State Unemployment Insurance - EE	0.00		
	State Unemployment Insurance Adj - EE	0.00		
	State Disability Insurance - EE	0.00		
	State Disability Insurance Adj - EE	0.00		
	State Unemployment/Disability Ins - ER	0.00		
	State Family Leave Insurance - EE	183.82		
	State Family Leave Insurance - ER	0.00		
	State Medical Leave Insurance - EE	165.39		
	State Medical Leave Insurance - ER	202.27		
	Transit Tax - EE	0.00		
	Workers' Benefit Fund Assessment - EE	0.00		
	Workers' Benefit Fund Assessment - ER	0.00		
	Local Income Tax	0.00		
	School District Tax	0.00		
	<b>Total Taxes Debited</b>	<b>27,708.40</b>		
<b>Other Transfers</b>	Full Service Direct Deposit Acct. No. 000060194730Trans/ABA125800024	153,503.69		
	<b>Total Amount Debited From Your Account</b>		<b>181,212.09</b>	<b>Total Liability 181,212.09</b>
<b>Bank Debits &amp; Other Liability</b>	Checks	0.00		<b>181,212.09</b>
	Adjustments/Prepay/Voids	0.00		<b>181,212.09</b>
<b>Taxes- Your Responsibility</b>	None this payroll			<b>181,212.09</b>

Outgoing Payments Report



Company: City of Mill Creek  
Requester: Leo, Lota  
Run Date: 04/29/2019 4:44:03 PM CDT

Domestic High Value (Wire)  
Payment Category: Urgent/Wire

Status: Confirmed by Bank  
Transaction Number: 194AG5033DCG0C07

Template Name: MATRIX/MEBT  
Template Code: WILTRUST

Debit Account Information

Debit Bank: ██████████  
Debit Account: ██████████  
Debit Account Name: Treas Checking  
Debit Currency: USD

Beneficiary Details

Beneficiary Name: MATRIX TRUST COMPANY  
Beneficiary Address: NA  
Beneficiary City: NA  
Beneficiary Postal Code: NA  
Beneficiary Country: US - United States of America

Beneficiary Account: ██████████  
Beneficiary Bank ID: ██████████  
JPMORGAN CHASE BANK, NA  
1111 POLARIS PKWY  
COLUMBUS  
US - United States of America  
Beneficiary Email:  
Beneficiary Mobile Number:

Payment Details

Credit Currency: USD  
Credit Amount: 21,822.01

Value Date: 04/16/2019

Optional Information

Sender's Reference Number: CITY MILL CREEK

Beneficiary Information: City of Mill Creek n3177e

Additional Routing

Intermediary Bank ID:

Receiver Information:

Control Information

Input: lolleo  
Modified: plauerman  
Modified: plauerman  
Approved: plauerman  
Initial Confirmation: WTX:2019041600323274  
Confirmation #: CHPR:0350008

Input Time: 04/10/2019 3:51:24 PM CDT  
Time: 04/10/2019 6:31:30 PM CDT  
Time: 04/16/2019 10:54:46 AM CDT  
Time: 04/16/2019 10:57:46 AM CDT

④ 21,822.01  
Next wire 439.06  
22,261.07

Payment Details Report



Company: City of Mill Creek  
Requester: Leo, Lota  
Run Date: 04/29/2019 4:41:43 PM CDT

Domestic High Value (Wire)

Payment Category: Urgent/Wire

Status: Confirmed by Bank  
Transaction Number: 194HI0045RRG1C40

Template Name: MATRIX/MEBT  
Template Code: WILTRUST

Debit Account Information

Debit Bank: [REDACTED]  
Debit Account: [REDACTED]  
Debit Account Name: Treas Checking  
Debit Currency: USD

Beneficiary Details

Beneficiary Name: MATRIX TRUST COMPANY  
Beneficiary Address: NA  
Beneficiary City: NA  
Beneficiary Postal Code: NA  
Beneficiary Country: US - United States of America

Beneficiary Account: [REDACTED]  
Beneficiary Bank ID: [REDACTED]  
JPMORGAN CHASE BANK, NA  
1111 POLARIS PKWY  
COLUMBUS  
US - United States of America

Beneficiary Email:  
Beneficiary Mobile Number:

Payment Details

Credit Currency: USD  
Credit Amount: 439.06

Value Date: 04/18/2019

Optional Information

Sender's Reference Number: CITY MILL CREEK

Beneficiary Information: City of Mill Creek n3177e

Additional Routing

Intermediary Bank ID:

Receiver Information:

Control Information

Input: plauerman  
Approved: plauerman  
Initial Confirmation: WTX:2019041700449477  
Confirmation #: CHPR:0200962

Input Time: 04/17/2019 5:00:52 PM CDT  
Time: 04/17/2019 5:21:08 PM CDT

Outgoing Payments Report



Company: City of Mill Creek  
Requester: Leo, Lota  
Run Date: 05/07/2019 3:54:44 PM CDT

Domestic High Value (Wire)

Payment Category:Urgent/Wire

Status: Confirmed by Bank  
Transaction Number: 194UF5130JHE0Z67

Template Name: MATRIX/MEBT  
Template Code: WILTRUST

Debit Account Information

Debit Bank: [REDACTED]  
Debit Account: [REDACTED]  
Debit Account Name: Treas Checking  
Debit Currency: USD

Beneficiary Details

Beneficiary Name: MATRIX TRUST COMPANY  
Beneficiary Address: NA  
Beneficiary City: NA  
Beneficiary Postal Code: NA  
Beneficiary Country: US - United States of America

Beneficiary Account: [REDACTED]  
Beneficiary Bank ID: [REDACTED]  
JPMORGAN CHASE BANK, NA  
1111 POLARIS PKWY  
COLUMBUS  
US - United States of America

Beneficiary Email:  
Beneficiary Mobile Number:

Payment Details

Credit Currency: USD  
Credit Amount: 28,413.53

Value Date: 04/30/2019

Optional Information

Sender's Reference Number: CITY MILL CREEK

Beneficiary Information: City of Mill Creek n3177e

Additional Routing

Intermediary Bank ID:

Receiver Information:

Control Information

Input: lolleo  
Approved: plauerman  
Initial Confirmation: WTX:2019043000560701  
Confirmation #: CHPR:0575116

Input Time: 04/30/2019 2:51:45 PM CDT  
Time: 04/30/2019 3:23:18 PM CDT

**Payment Details Report**



**Company:** City of Mill Creek  
**Requester:** Leo, Lota  
**Run Date:** 04/29/2019 4:26:34 PM CDT

**Domestic High Value (Wire)**

**Payment Category:** Urgent/Wire

**Status:** Confirmed by Bank  
**Transaction Number:** 194QG31310QF1N65

**Template Name:** ICMA 457 Plan  
**Template Code:** ICMA

**Debit Account Information**

**Debit Bank:** 25000024  
**Debit Account:** 60060104700  
**Debit Account Name:** Treas Checking  
**Debit Currency:** USD

**Beneficiary Details**

**Beneficiary Name:** ICMA RC  
**Beneficiary Address:** P.O. Box 64553  
**Beneficiary City:** Baltimore  
**Beneficiary Postal Code:** 21264-4553  
**Beneficiary Country:** US - United States of America

**Beneficiary Account:** 42538001  
**Beneficiary Bank ID:** 22000046  
MANUFACTURERS AND TRADERS TR C  
ONE M AND T PLAZA, 15TH FL  
BUFFALO  
US - United States of America

**Beneficiary Email:**  
**Beneficiary Mobile Number:**

**Payment Details**

**Credit Currency:** USD  
**Credit Amount:** 1,762.87

**Value Date:** 04/26/2019

**Optional Information**

**Sender's Reference Number:** 302029

**Beneficiary Information:** City of Mill Creek 302029

**Additional Routing**

**Intermediary Bank ID:**

**Receiver Information:**

**Control Information**

**Input:** lolleo  
**Approved:** plauerman  
**Initial Confirmation:** WTX:2019042600479103  
**Confirmation #:** FEDR:20190426B6B7HU3R015692

**Input Time:** 04/26/2019 3:32:12 PM CDT  
**Time:** 04/26/2019 3:47:00 PM CDT



RptBatchSumViewForm

Page 1 of 1

ACH Cash Pro Online  
City of Mill Creek

Report Date: 05/08/2019  
Report Time: 02:34:25 PM

**Batch Summary Report by ID Number**

Company Name: City of Mill 01      Effective Date: 05/01/2019  
 ACH ID: ██████████      Batch Sequence: 1  
 Application Name: CCD Payments and Collections      Database Name: BAC  
 Batch Status: Submitted      Created By: LOTLEO  
 Released By: PLAUERMAN

Name	ID	Amount	D/C	Bank ID	Account #	Acct Type	Trace #
BAC	BENEFIT ADMIN C	\$1,753.00	C	125108366	██████████	C	0117960

	Total Amount in Batch	Total Count in Batch
Debits	\$0.00	0
Credits	\$1,753.00	1
Prenotes	\$0.00	0

Company Name: City of Mill 01      Effective Date: 05/01/2019  
 ACH ID: ██████████      Batch Sequence: 2  
 Application Name: CCD Payments and Collections      Database Name: BAC  
 Batch Status: Submitted      Created By: LOTLEO  
 Released By: PLAUERMAN

Name	ID	Amount	D/C	Bank ID	Account #	Acct Type	Trace #
BAC	BENEFIT ADMIN C	\$162.49	C	125108366	310005566	C	0117978

	Total Amount in Batch	Total Count in Batch
Debits	\$0.00	0
Credits	\$162.49	1
Prenotes	\$0.00	0

	Grand Total Amount	Grand Total Count
Debits	\$0.00	0
Credits	\$1,915.49	2
Prenotes	\$0.00	0

RptBatchSumViewForm

Page 1 of 1

ACH Cash Pro Online  
City of Mill Creek

Report Date: 05/08/2019  
Report Time: 02:34:25 PM

Batch Summary Report by ID Number

Company Name: City of Mill 01      Effective Date: 05/01/2019  
 ACH ID: ██████████      Batch Sequence: 1  
 Application Name: CCD Payments and Collections      Database Name: BAC  
 Batch Status: Submitted      Created By: LOTLEO  
 Released By: PLAUERMAN

<u>Name</u>	<u>ID</u>	<u>Amount</u>	<u>D/C</u>	<u>Bank ID</u>	<u>Account #</u>	<u>Acct Type</u>	<u>Trace #</u>
BAC	BENEFIT ADMIN C	\$1,753.00	C	125108366	██████████	C	0117960
		<u>Total Amount in Batch</u>		<u>Total Count in Batch</u>			
		Debits	\$0.00			0	
		Credits	\$1,753.00			1	
		Prenotes	\$0.00			0	

Company Name: City of Mill 01      Effective Date: 05/01/2019  
 ACH ID: ██████████      Batch Sequence: 2  
 Application Name: CCD Payments and Collections      Database Name: BAC  
 Batch Status: Submitted      Created By: LOTLEO  
 Released By: PLAUERMAN

<u>Name</u>	<u>ID</u>	<u>Amount</u>	<u>D/C</u>	<u>Bank ID</u>	<u>Account #</u>	<u>Acct Type</u>	<u>Trace #</u>
BAC	BENEFIT ADMIN C	\$162.49	C	125108366	310005566	C	0117978
		<u>Total Amount in Batch</u>		<u>Total Count in Batch</u>			
		Debits	\$0.00			0	
		Credits	\$162.49			1	
		Prenotes	\$0.00			0	

		<u>Grand Total Amount</u>	<u>Grand Total Count</u>
Debits		\$0.00	0
Credits		\$1,915.49	2
Prenotes		\$0.00	0



**MINUTES**

**City Council Regular Meeting**

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**6:00 PM - Tuesday, February 5, 2019**

Council Chambers, 15728 Main Street, Mill Creek, WA 98012

Minutes are the official record of Mill Creek City Council meetings. Minutes document action taken at the council meeting, not what was said at the council meeting.

A recording of this City Council meeting can be found [here](#).

The agenda packet for this City Council meeting can be found [here](#).

**CALL TO ORDER**

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Mayor Pruitt called the meeting of the Mill Creek City Council to order at 6:00 p.m. and led the Pledge of Allegiance.

**PLEDGE OF ALLEGIANCE**

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**ROLL CALL**

---

Councilmembers Present:

*Pam Pruitt, Mayor*

*Brian Holtzclaw, Mayor Pro Tem*

*Vince Cavaleri, Councilmember*

*Mike Todd, Councilmember*

*Mark Bond, Councilmember*

Councilmembers Absent:

*John Steckler, Councilmember*

**Councilmember Cavaleri made a motion to excuse Councilmember Steckler due to a prior commitment. Mayor Pro Tem Holtzclaw seconded the motion. The motion passed unanimously.**

**AUDIENCE COMMUNICATION**

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**A.** Public comment on items on or not on the agenda

Marge Rhodes, a Mill Creek resident, asked Council to consider appointing a minority to the vacant position even if they are not the most qualified.

**NEW BUSINESS**

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**B.** City Council Interviews and Appointment

Interim City Manager Bob Stowe reviewed the process to be utilized by the Council for the conduct of initial applicant interviews for vacant City Council Position No. 2.

Applicant Neal Shulman was not available for the interview process. The following 6 applicants were given a fifteen minute interview that included two minutes for an opening statement:

February 5, 2019 REGULAR COUNCIL MEETING MINUTES

1. Kelly Christensen
2. Steve Covello
3. Elaine Craig
4. Carmen Fisher
5. Richard Huebner
6. Stephanie Vignal

**RECESS TO EXECUTIVE SESSION**

---

*(Confidential Session of the Council)*

- C.** At 7:44 p.m. the meeting recessed to executive session for up to 30 minutes to evaluate the qualifications of a candidate for appointment to elected officer per RCW 42.30.110(1)(h). The executive session concluded at 8:15 p.m.

**RECONVENE TO REGULAR SESSION**

---

- D.** At 8:15 p.m. the meeting reconvened to regular session.
- E.** Nominations for Finalists

Interim City Manager Bob Stowe opened the nomination round for finalists.

Councilmember Todd nominated Carmen Fisher as a finalist. Mayor Pro Tem Holtzclaw seconded the nomination.

Councilmember Cavaleri nominated Stephanie Vignal as a finalist. Councilmember Bond seconded the nomination.

- F.** Appointment of a Finalist

Interim City Manager Bob Stowe reviewed the process to be utilized by the Council for appointment of a finalist to City Council Position No. 2. Ballots were passed out, collected and tabulated by City Clerk Gina Pfister. Tabulations were reviewed by City Manager Bob Stowe. Results were as follows:

Round 1: Carmen Fisher 2 votes, Stephanie Vignal 3 votes.

**OATH OF OFFICE**

---

- G.** Oath of Office for newly appointed Councilmember, Stephanie Vignal

City Clerk Gina Pfister administered the Oath of Office for newly appointed Councilmember, Stephanie Vignal.

Councilmember Vignal joined the Council at the dais.

**At 8:20 p.m. Councilmember Todd made a motion to extend the meeting up to 9:00 p.m. Councilmember Cavaleri seconded the motion. The motion passed unanimously.**

**NEW BUSINESS CONTINUED**

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- H.** Adoption of Policy 300-02 for Procurement of Goods and Services

February 5, 2019 REGULAR COUNCIL MEETING MINUTES

Interim City Manager Bob Stowe explained that the current policy needs to be updated to properly reflect state law, the current market rates for goods and services and to clarify how the City will seek goods and services. City Manager Stowe detailed the proposed purchasing limits and requirements.

City Manager Stowe reviewed how the proposed purchasing limits and requirements will affect the Police Department's process to replace a police car and police motorcycle. City Manager Stowe asked Council to acknowledge that a future budget amendment is needed to appropriate the necessary funds for the purchase of the police motorcycle.

Council engaged in discussion. Director of Finance & Administration Peggy Lauerman and Chief of Police Greg Elwin answered questions from Council.

**Councilmember Todd made a motion to adopt Policy 300-02 for Procurement of Goods and Services, with the updated language to 6.1.1 as discussed, updating City Policy CCP 96-002. Mayor Pro Tem Holtzclaw seconded the motion. The motion passed unanimously.**

**Councilmember Bond made a motion to allow Chief of Police Greg Elwin to purchase a new police motorcycle in an amount not to exceed \$28,000, and acknowledge that a future budget amendment will be brought back to support the purchase. Councilmember Cavaleri seconded the motion. The motion passed 5-1-0 with Councilmember Todd opposed.**

## **REPORTS**

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### **I. Mayor/Council**

Councilmember Todd commented on a [handout](#) provided by Director of Public Works & Development Services Gina Hortillosa regarding the City's 2019 Capital Budget Requests.

Director of Public Works & Development Services Gina Hortillosa summarized the 2019 Capital Budget Requests and provided an update on the Complete Streets Work Plan Projects. Council engaged in discussion.

**At 8:50 p.m. Councilmember Todd made a motion to extend the meeting up to 9:15 p.m. Councilmember Cavaleri seconded the motion. The motion passed unanimously.**

### **J. City Manager**

- Council Planning Schedule

### **K. Staff**

- Park & Recreation Board Meeting Minutes of November 7, 2018
- Planning Commission Meeting Minutes of November 15, 2018

## **AUDIENCE COMMUNICATION**

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### **L. Public comment on items on or not on the agenda**

February 5, 2019 REGULAR COUNCIL MEETING MINUTES

Wil Nelson, a Mill Creek resident, asked Council to consider additional sidewalks before installing bike lanes in the City. Mr. Nelson also spoke to comments made recently by other residents during audience communication portions of the meetings regarding diversity in the City.

**ADJOURNMENT**

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With no objection, Mayor Pruitt adjourned the meeting at 9:14 p.m.

---

Pam Pruitt, Mayor

---

Gina Pfister, City Clerk

February 5, 2019 REGULAR COUNCIL MEETING MINUTES

<b>MAY</b>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
		Council				
5	6	7	8	9	10	11
		Council				
12	13	14	15	16	17	18
		Council				
19	20	21	22	23	24	25
26	27	28	29	30	31	
		Council				

<b>JUNE</b>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
		Council				
9	10	11	12	13	14	15
		Council				
16	17	18	19	20	21	22
23	24	25	26	27	28	29
		Council				

<b>JULY</b>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
		Council				
7	8	9	10	11	12	13
		Council				
14	15	16	17	18	19	20
21	22	23	24	25	26	27
		Council				
28	29	30	31			

**Tentative Council Meeting Agendas**  
**Subject to change without notice**

*Last updated: May 9, 2019*

**May 28, 2019**

*(Agenda Summary due May 20)*

- Wireless Communication Facilities
- Comcast Settlement Agreement
- Study Session: Bond Financing Ordinance
- Study Session: Huntron Lease
- Study Session: Compensation Strategies

**June 4, 2019**

*(Agenda Summary due May 27)*

- Presentation: Youth Advisory Board Year-End Recognition
- Presentation: Waste Management
- Appointment of Mill Creek Blvd Committee
- Heron Park ILA with Snohomish County
- Bank RFP

**June 11, 2019**

*(Agenda Summary due June 3)*

- Approval of Bond Ordinance
- Farmers Market Report
- Study Session: Vision 2050

AUGUST						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 Council	4	5	6	7
8	9	10 Council	11	12	13	14
15	16	17	18	19	20	21
22	23	24 Council	25	26	27	28
29	30					

OCTOBER						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Council	2	3	4	5
6	7	8 Council	9	10	11	12
13	14	15	16	17	18	19
20	21	22 Council	23	24	25	26
27	28	29	30	31		

**Possible Work Session Topics for Discussion**

- Business signs
- MCCA storm water discussions
- Utility Project Management
- Hotel/Motel Theater Tax
- Mill Creek Blvd Vision
- ST3 Stations
- 5G Presentation
- Legislative Retreat
- Gold Star Memorial
- Dobson Remillard Property
- Fleet Program
- Bike Lanes
- Community Funding Criteria and Source of Funds
- Surface Water System Study Group
- Updates to the Governance Manual





15728 Main Street, Mill Creek, WA 98012  
Administration 425-745-1891  
Police 425-745-6175  
All Other Departments 425-551-7254

**Park & Recreation Board Meeting Minutes  
March 6, 2019**

**Members Present:**

Jim Erlewine, Chair  
David Chapin  
Peter Lalic  
Tyler Hogan  
Melissa Duque  
Vince Cavaleri, Council Representative

**Not Present:**

Brett Nagle, Vice Chair

**Also Present:**

Joni Kirk, Director of Communications and Marketing  
Jay Sandstrom, Recreation Coordinator  
Rosa Woosley, Youth Advisory Board

**I. CALL TO ORDER**

Chair Erlewine called the meeting to order at 5:00 p.m. Members and staff were present as noted above.

**II. MINUTES**

Member Chapin moved, seconded by Member Lalic, to approve the Jan. 2, 2019, minutes as presented. The minutes were approved by members present.

**III. YOUTH ADVISORY BOARD UPDATES**

Youth Advisory Board Member Rosa Woosley recapped the upcoming events of the Youth Advisory Board. The school supply donation drive begins on March 16 with a table at the Mill Creek Staples location. The Youth Board members also will have tables on March 23 at Staples and the University Bookstore. All donations will go to children in foster care. Members will be helping with the stuff the Bus Event with the Everett School District. Youth Board members will also be working the following upcoming events: Eggstravaganza, Day of Hope, Friends of the Mill Creek Library Book Sale.

**IV. OLD BUSINESS**Exploration Park Update

Director Kirk informed the board that the Exploration Park project has been approved as of the last meeting. The City is working to firm up the construction timeline. Current timeline is to begin in mid-April and conclude construction in October. Member Duque asked if there was a plan to notify the surrounding neighborhoods. Director Kirk share there is a communication plan that is going to be put in place.

MCSP Fee Update

Director Kirk shared the Mill Creek City Council considered a fee increase for user groups of the Mill Creek Sports Park. Council created new tiers for "Recreational Youth Teams" and "Youth Select Teams." Rates increases for 2019 were approved for all tiers with the exception of "Youth Recreational Teams," whose rate will increase with inflation in 2020.

MCSP Construction Update & Timeline

Construction has been underway at the Mill Creek Sports Park. The project is currently targeting an early April completion date. Recreation Coordinator Sandstrom informed the board about the progress being made. This includes installation of the new Musco lighting system, fencing, and new Field Turf surface. The City is planning a grand reopening event.

**V. NEW BUSINESS**Board Position Vacancy

With former Park Board Member Stephanie Vignal's appointment to the Mill Creek City Council, the Park and Recreation Board has vacant position. Interviews will take place on March 26 at City Hall. The new Park Board member will be appointed at the Council meeting following interviews.

A link to the board position interest form was provided to all current board members to share in their networks.

Chair and Vice Chair Elections

Chair Erlewine informed the board about the process for annual board elections for the Chair and Vice Chair positions.

Chair Erlewine was recommended to retain his position by Member Lalic, seconded by Member Hogan. Chair Erlewine was elected unanimously for the Chair position.

Member Duque motioned to nominate Member Chapin for the Vice Chair position. The motion was seconded by Member Lalic. Member Chapin was elected

unanimously for the Vice Chair position.

MCSP Concession Stand Agreement

Director Kirk shared the updated Concession Stand Agreement for the Mill Creek Sports Park. Council approved an agreement for user groups to pay fifteen percent (15%) of gross receipts to the City of Mill Creek each calendar month, with a maximum of \$1,100 monthly fee.

Users will also pay a \$50 monthly utility fee.

**VI. FOR THE GOOD OF THE ORDER**

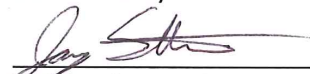
Upcoming Events:

Eggstravaganza will take place on April 20 at Heatherwood Middle School. This event has two egg hunts, one for ages 1-4 and one for grades K-5.

**VII. ADJOURNMENT**

Member Chapin moved to adjourn the meeting at 5:43 p.m., seconded by Member Hogan. The motion passed unanimously. The next meeting is scheduled for April 3, 2019, at 5 p.m. in the City Hall Council Chambers.

Submitted by:

  
\_\_\_\_\_  
Jay Sandstrom, Recreation Coordinator



**MINUTES**

**Art & Beautification Board Meeting**

---

**4:00 PM - Wednesday, April 10, 2019**

Council Chambers, 15728 Main Street, Mill Creek, WA 98012

Minutes are the official record of Art & Beautification Board meetings. Minutes document action taken at the council meeting, not what was said at the Board meeting.

The agenda for this Art & Beautification Board meeting can be found here.

**CALL TO ORDER**

---

**ROLL CALL**

---

Members Present:

*Matt Buchanan, Chair  
Guy Armfield  
Benjamin Briles  
Paula Dickman  
Jeanne Smart  
John Steckler*

Members Absent:

*Michelle Edwards  
Ken Lowery*

Guest Present:

*Matthew Feeley, City Supervising  
Engineer*

**ANNOUNCEMENTS**

---

- A. A City Manager finalist has been identified (Michael Ciaravino) and the City Council is working to finalize negotiations.
- B. The second annual Community Engagement Event will take place tomorrow, April 11, at Arena Sports from 4-7 p.m. Please come learn about volunteer opportunities and more.

**APPROVAL OF MINUTES**

---

- C. Motion to approve made by Member Smart. Member Briles seconded the motion and it passed unanimously.

**OLD BUSINESS**

---

- D. Exploration Park Projects

Communications and Marketing Director Joni Kirk reviewed the ideas that the Board had raised in the March meeting, and provided feedback from the Public Works Director about additional information that would be needed for various projects.

The Board decided based on timeframe in which to complete projects for Exploration Park that artistic bike racks appear to be the most feasible, and would support people riding to the park versus driving and parking. Board members will find bike rack ideas

APRIL 10, 2019 A&B BOARD MEETING MINUTES



and provide them to Director Kirk in advance of the next meeting.

The Board still is interested in stamping or embedding brass/copper footprints from a creature into the sidewalk to underscore an exploration theme. Director Kirk will research options. City Supervising Engineer Matthew Feeley will obtain the concrete pouring schedule, which is likely after the Board's next meeting due to other construction elements needing to be completed first.

Councilmember Steckler proposed also installing mounted binoculars at a station that can view the wetlands across 35<sup>th</sup> Avenue. He will research options.

**E. Great Garden Awards**

Materials for the Great Garden Awards will be handed out in May. The City will be divided into eight districts. Upon the suggestion of Member Armfield, the Board determined to pick a single winner from each zone, and then select four other "at large" winners.

**F. Art Walks**

Chair Buchanan shared that he has talked with Heidi Butz at Mill Creek Town Center about the upcoming Art Walks. Town Center does not want to incorporate a formal Art Walk as part of their Wine Walk in May.

**G. Utility Box Update**

Chair Buchanan shared concepts for incorporating the high school art that were developed by West at Evermark (who handled the last utility box project). The Board determined that the artwork needs to incorporate a call-out for the Jackson High School art students. Chair Buchanan will share that with West and will obtain costs. Director Kirk noted that she'd received preliminary notification that the City will receive a \$4,000 grant from the Snohomish County Arts Commission for the project; the grant is pending County Council final approval.

Member Smart shared that she met with the principal at Mill Creek Elementary, who is excited about an elementary school art project for the utility boxes near them. Mill Creek Elementary PTA has some funds that could be used for such an art project. Member Smart will continue to work with the school to see if art can be developed this year.

**G. Historical Preservation Project**

Director Kirk informed the Board that the panels are on display at City Hall South, and comment cards are available by the panels. There also is a web form for comments. The panels should be on display for about three more months. She also noted that there is no update yet on the grant application from the Snohomish County Historic Preservation Commission.

**NEW BUSINESS**

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**H. A&B Board Potential Projects for 2019-2020**

The Board is seeking ideas for its next project.

- One thought from Member Dickman and Member Smart was selling cement tiles to install at Town Center plazas.

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- Another thought by Councilmember Steckler was to seek permission to repair the mill along SR 527, which is really viewed as a City landmark but is on private land. Member Armfield believes other people would be interested in contributing to the restoration. Chair Buchanan will reach out to the property owners to determine interest in such a venture. The Board asked Director Kirk to research grant opportunities for reconstruction/repairing landmarks that are privately owned.
- Councilmember Steckler proposed a "Sponsor a Bench" program at Exploration Park. The City would make four benches available for sponsorship as a gift to the Park. Member Briles moved to have Director Kirk firm up the details and issue a press release; Member Dickman seconded and the motion carried unanimously.

**I. #TrashTag / Beautification Project**

Member Briles proposed a social campaign to help beautify the City, playing off of a widely popular movement, to create a competition for people to pick up trash in the greater Mill Creek area, take pictures with the bag of trash, and post it on social media with the hash tag #TrashTag. He suggested the Board could select winners based on the number of bags collected and provide a certificate of appreciation. The Board tabled this until next month, and Member Briles will bring additional information.

**REPORTS**

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**ADJOURNMENT**

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With no objection, the meeting adjourned at 5:00 p.m.



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Joni Kirk, Staff Liaison