



BID AND CONTRACT DOCUMENTS

AND

SPECIFICATIONS

FOR

2019 ASPHALT OVERLAY PROJECT

RFB # 19-001

***City of Federal Way
City Hall Hylebos Conference Room
33325 Eighth Avenue South
Federal Way, WA 98003***

***Mailing Address:
City of Federal Way
PUBLIC WORKS DEPARTMENT
Federal Way, WA 98003-6325***

BID AND CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

2019 ASPHALT OVERLAY PROJECT

RFB #19-001

Bids Accepted Until 3:00 p.m., February 25, 2019

Bids Opened 3:10 p.m., February 25, 2019

AT:

City of Federal Way
City Hall Hylebos Conference Room
33325 Eighth Avenue South
Federal Way, WA 98003

Prepared By:

PUBLIC WORKS DEPARTMENT
CITY OF FEDERAL WAY, WASHINGTON



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**CITY OF FEDERAL WAY
REQUEST FOR BIDS**

2019 ASPHALT OVERLAY PROJECT

RFB # 19-001

SUBMITTAL OF SEALED BIDS:

Notice is hereby given that the City of Federal Way, Washington, will receive sealed bids through February 25, 2019 at 3:00 p.m., at the City Hall Purchasing Office or by US Mail at City of Federal Way, Purchasing Office, 33325 8th Avenue South, Federal Way, Washington 98003. Proposals received after 3:00 p.m. on said date will not be considered.

BID OPENING:

All bids will be opened and read publicly aloud at 3:10 p.m. on February 25, 2019 at City Hall Hylebos Conference Room, 33325 8th Avenue South, Federal Way, Washington, for this RFB.

All bid proposals shall be accompanied by a bid deposit by a cashier's or certified check, or Bid Bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into a contract and furnish satisfactory Performance Bond within the time stated in the specifications, the bid deposit or bond shall be forfeited to the City of Federal Way.

DESCRIPTION OF WORK:

This project shall consist of:

Furnishing all materials, equipment, tools, labor, and other work or items incidental thereto (excepting any materials, equipment, utilities or service, if any, specified herein to be furnished by the Owner or others), for the construction, sequencing and traffic control plan for overlaying existing asphalt concrete pavement in four (4) different locations within the City of Federal Way. The work shall include, but is not limited to: Hot Mix Asphalt (HMA Cl. 1/2" PG 58H -22) pavement overlay (approximately 6,600 tons), roadway excavation, planing bituminous pavement, pavement repair, removal and replacement of curb and gutter, sidewalk, curb ramps, traffic curb, repairing or re-aligning manholes and catch basins, traffic signal detection loops, pedestrian push button, channelization, restoration, utility adjustments, and all items necessary to complete the work as described in the Contract Documents.

The Contractor shall complete all work within 80 working days.

The bidder is urged to check the plans and contract provisions carefully.

All bid proposals shall be in accordance with the Instructions to Bidders and all other contract documents. Any questions concerning the description of the work contained in the contract documents must be directed to Jeff Huynh, Street Systems Engineer, by email at jeff.huynh@cityoffederalway.com, or by letter addressed to Jeff Huynh, Street Systems Engineer. The questions must be received by the City on or before Friday, February 20, 2019 to allow a written reply to reach all prospective Bidders before the submission of their bids.

BID DOCUMENTS:

Free-of-charge access to project bid documents (plans, specifications, addenda, and Bidders List) is provided to Prime Bidders, Subcontractors, and Vendors by going to www.bxwa.com and clicking on "Posted Projects," "Public Works," and "City of Federal Way." This online plan room provides Bidders with fully usable online documents with the ability to: download, view, print, order

full/partial plan sets from numerous reprographic sources, and a free online digitizer/take-off tool. It is recommended that Bidders "Register" in order to receive automatic e-mail notification of future addenda and to place themselves on the "Self-Registered Bidders List." Bidders that do not register will not be automatically notified of addenda and will need to periodically check the on-line plan for addenda issued on this project. Contact Builders Exchange of Washington at (425) 258-1303 should you require assistance with access or registration.

An informational copy of plans, specifications, and addenda are also available for viewing only at the Public Works Department, Federal Way City Hall, 33325 8th Avenue South, Federal Way, Washington.

The City, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49 C.F.R., Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award. The City encourages minority and women-owned firms to submit bids consistent with the City's policy to ensure that such firms are afforded the maximum practicable opportunity to compete for and obtain public contracts.

The Contractor will be required to comply with all local, State, and Federal laws and regulations pertaining to equal employment opportunities.

The City anticipates awarding this project to the successful bidder and intends to give *Notice to Proceed* as soon as the Contract and all required associated documents are executed in full. Regardless of the date of award or *Notice to Proceed*, the Contractor must complete all work under this project by the specified working days.

RESERVATION OF RIGHTS:

The City of Federal Way reserves the right to reject any and all bids, waive any informalities or minor irregularities in the bidding, and determine which bid or bidder meets the criteria set forth in the bid documents. No bidder may withdraw his or her bid after the hour set for the opening thereof unless the award is delayed for a period exceeding thirty (30) days.

Dated the 5th day of February, 2019.

Dates of Publication:

Daily Journal of Commerce: February 9, 2019
February 16, 2019

Federal Way Mirror: February 8, 2019
February 15, 2019

BIDDER'S CHECKLIST

The bidder's attention is especially called to the following forms, which must be executed in full as required and submitted as part of the bid. Failure to comply shall result in rejection of any bid not so complying.

- Bid Form (Attachment B)**
The Bid Form shall be completed and fully executed, including filling in the total bid amount.

- Bid Schedule (Attachment C)**
The unit prices shall be set forth in the space provided.

- Bid Signature Page (Attachment D)**
The Bid Signature Page shall be filled in and fully executed by the bidder.

- Bid Bond Form (Attachment E)**
This form is to be executed by the bidder and the surety company unless a certified check is submitted with the bid. The amount of this bond or certified check shall not be less than five percent (5%) of the total bid amount and shall be shown in both words and figures.

- Subcontractor List (Attachment F)**
The Subcontractor List shall be filled in by the bidder. (This section may/may not apply)

- Combined Affidavit and Certification Form (Attachment G)**
This form must be subscribed to and sworn before a Notary Public and notarized.

- Contractor's Compliance Statement (Attachment H)**
The Contractor's Compliance Statement shall be filled in and fully executed by the bidder.

- CONTRACTOR CERTIFICATION – WAGE LAW COMPLIANCE (Attachment I)**
This form must be filled in and fully executed by the bidder.

- Proposal for Incorporating Recycled Materials (Attachment J)**
This form shall be filled in and executed by the bidder.

- Contractor's Certificate of Registration**
The bidder shall provide a copy of Contractor's current registration with the State of Washington.

- Contractor's State Identification Numbers**
The bidder shall provide a copy of Contractor's current state unified business identifier number and, as applicable, an employment security department number and state excise tax registration number.

SUCCESSFUL BIDDER'S CHECKLIST

The following documents are to be executed and delivered to the City within ten (10) calendar days after the Bid is awarded:

Public Works Contract (Attachment K)

The successful bidder will fully execute and deliver to the City the 2019 ASPHALT OVERLAY PROJECT Public Works Contract ("Contract") from these Bid Documents.

Contractor's Retainage Option (Exhibit C)

The successful bidder will fully execute and deliver to the City the Contractor's Retainage Option.

Contractor's Retainage Bond (Exhibit D) – If Applicable

If the retainage bond option is chosen, then the successful bidder will fully execute and deliver to the City the Contractor's Retainage Bond.

Notice to Labor Unions or Other Employment Organizations Nondiscrimination in Employment (Exhibit E)

If this applies, the successful bidder will sign and post copies of this Notice in conspicuous places available to employees or applicant for employment.

Certificate of Insurance (Exhibit F)

The successful bidder will provide a Certificate of Insurance evidencing the insurance requirement set forth in the Contract.

Performance/Payment Bond (Exhibit G)

The successful bidder will provide a fully executed Performance/Payment Bond as appropriate.

Business License

The successful bidder will provide a copy of a current Business License with the City of Federal Way.

SECTION 1: INSTRUCTIONS TO BIDDERS

1-1 Time and Place for Submission and Opening of Bids

Sealed bids must be submitted by 3:00 p.m. local time on February 25, 2019, to the Purchasing Office of the City of Federal Way (the "City"), located on the second floor of City Hall, or received by US Mail at City of Federal Way, Purchasing Office, 33325 8th Avenue S, Federal Way, Washington, 98003-6325, and will be publicly opened and read aloud in City Hall Hylebos Conference Room on February 25, 2019 at 3:10 p.m. local time.

The City's Purchasing Coordinator must receive the sealed bid before the time and date specified in order to be considered. Telex or facsimile bids will not be accepted. The bidder accepts all risks of late delivery of mailed bids or of misdelivery regardless of fault. Late bids will be returned unopened.

If, after reviewing this document the bidder chooses not to submit a bid, the bidder may complete and return the "No Bid Response Form" provided as Attachment "A" by the date and time indicated above.

1-2 Bid Form

Bids shall be made on the "Bid Form" (Attachment "B") issued by the City as part of these contract documents, without reservation or amendment. Bids must be typewritten or printed in ink. Upon completion, the Bid Form and the bid bond or certified check and any requested information shall be placed in a sealed envelope. On the outside of the envelope, place the bid name, bid number and the time bids are due.

1-3 Bid Signature

All bids shall give the total bid price and shall be signed in ink by the bidder or their authorized representative, with the address. If the bid is made by an individual, the name, signature, and address must be shown. If the bid is made by a firm or partnership, the name and address of the firm or partnership and the signature of at least one of the general partners must be shown. If the bid is made by a corporation, the bid shall show the title of the person authorized to sign on behalf of the corporation, his or her title and the address. The City reserves the right to request documentation showing the authority of the individual signing the bid to execute contracts on behalf of anyone, or any entity, other than himself/herself. Refusal to provide such information upon request may cause the bid to be rejected as nonresponsive.

1-4 Bid Withdrawal Due to Error

Bids may not be withdrawn due to a claim of error in a bid unless written notice of such claim and supporting evidence for such claim including cost breakdown sheets are delivered to the City within forty-eight (48) hours prior to the opening of bids.

1-5 Modification of Bid

A modification of a bid already received will be considered only if the modification is received prior to the time announced for bid opening. All modifications shall be made in writing, executed, and submitted in the same form and manner as the original bid.

1-6 Examination of Bid and Contract Documents – Bidder Responsibilities

The submission of a bid shall constitute an acknowledgment upon which the City may rely that the bidder has thoroughly examined and is familiar with the bid and contract documents and has reviewed and inspected all applicable federal, state and local statutes, regulations, ordinances and resolutions dealing with or related to the equipment and/or services to be provided herein. The failure or neglect of a bidder to examine such documents, statutes, regulations, ordinances or resolutions shall in no way relieve the bidder from any obligations with respect to the bidder's bid or the contract documents. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any contract documents, statutes, regulations, ordinances or resolutions. Bidders shall visit delivery and service locations(s) as required. Bidders shall become familiar with and verify any environmental factors, which may impact current or future prices for this requirement.

1-7 Interpretation of Bid and Contract Documents

No oral interpretations will be made to any bidder as to the meaning of the bid or contract documents and no oral communications will be binding upon the City. Any questions concerning the description of the work contained in the contract documents must be directed to Jeff Huynh, Street Systems Engineer, by email at jeff.huynh@cityoffederalway.com, or by letter addressed to Jeff Huynh, Street Systems Engineer. The questions must be received by the City at least three (3) days before the date announced for opening the bids. Any interpretation deemed necessary by the City will be in the form of an addendum to the bid documents and when issued will be sent as promptly as is practical to all parties to whom the bid documents have been issued. All such addenda shall become part of the bid.

1-8 Addenda

Each bid shall include acknowledgment of receipt and review of all addenda issued during the bidding period on the Bid Form.

1-9 Bid Price

The bid price shall include everything necessary for the completion of the contract including, but not limited to, furnishing all materials, equipment, tools, freight charges, facilities and all management, superintendence, labor and service, except as may be provided otherwise in the contract documents. **All Washington State sales tax and all other government taxes, assessments and charges shall be included in the various Bid item prices as required by law.** The offer shall remain in effect ninety (90) days after the bid opening. In the event of a discrepancy between a unit price and an extended amount and/or the total price, the unit price will govern and the extended amount and/or total price will be corrected accordingly; however, downward correction of a bid, which would displace the

apparent low bidder, will only be permitted if the error made and the intended bid price can be determined solely from the bid documents.

1-10 Postponement of Bid Opening

The City reserves the right to postpone the date and time for the opening of bids by announcing such postponement at any time prior to the date and time announced in these documents.

1-11 Rejection of Bids

- A. The City reserves the right to reject any bid for any reason including, but not limited to, the following: any bid which is incomplete, obscure, irregular or lacking necessary detail and specificity; any bid which omits a price on any one or more items on the Bid Form and Bid Schedule; any bid in which prices are unbalanced in the opinion of the City; any bid accompanied by insufficient or irregular bid bond; any bid from bidders who (in the sole judgment of the City) lack the qualifications and/or responsibility necessary to perform the work after considering the elements in Section 1-14.B; any bid for which a bidder fails or neglects to complete and submit any qualifications information within the time specified by the City and as may be otherwise required herein; and, any bid submitted by a bidder who is not registered or licensed as may be required by the laws of the State of Washington.
- B. The city further reserves the right to reject any portion of any bid and/or to reject all bids. In consideration for the City's review and evaluation of its bid, the bidder waives and releases any claims against the City arising from any rejection of any or all bids.

1-12 Alterations to Documents Prohibited

Any addition, limitation or provision attached to the bid may render it informal or nonresponsive and cause its rejection. Alteration by erasure or interlineations must be explained or noted in the bid form over the signature of the bidder. No oral, telegraphic or telephonic bids or modifications will be considered.

1-13 Disqualification of Bidder

If, in the opinion of the City, there is reason to believe that collusion exists among bidders, none of the bids of the participants in such collusion will be considered. All bidders are required to submit the Affidavit of Non-Collusion (Attachment G) with their bids.

1-14 Evaluation of Bids

It is the intent of City to award a contract to the lowest responsive bid by a responsible bidder as evaluated by the City. The bidder may be required by the City to submit documentation demonstrating compliance with the criteria.

- A. Responsiveness – The bidder must complete all required forms and bid documents and provide all required and requested information. Refusal to provide such information may cause the bid to be rejected. The City will consider all the material submitted by the bidder to determine whether the bid is in compliance with the bid terms and documents and responsive to the requested work.

- B. Responsibility – The City will consider all the material submitted by the bidder, and other evidence it may obtain including information from previous project owners, to determine whether the bidder is responsible. The bidder must meet the following bidder responsibility criteria and supplemental bidder responsibility criteria to be considered a responsible bidder:
1. Mandatory Bidder Responsibility Criteria
 - a. Have a current certificate of registration as a contractor in compliance with Chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
 - b. Have a current Washington Unified Business Identifier (UBI) number;
 - c. If applicable:
 - i. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
 - ii. Have a Washington Employment Security Department number, as required in Title 50 RCW;
 - iii. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
 - d. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).
 - e. Within a three-year period immediately preceding the date of the bid solicitation, the bidder shall not be a willful violator, 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.
 2. Supplemental Bidder Responsibility Criteria
 - a. The bidder shall not have a record of excessive claims filed against the retainage, payment, or performance bonds for public works projects during the previous three years, that demonstrate a lack of effective management by the bidder of making timely and appropriate payments to its subcontractors, suppliers, and workers, unless there are extenuating circumstances acceptable to the City.
 - b. The bidder shall have a reasonable history of successfully completed projects of a similar size and scope as required by the contract documents for this project. The City will evaluate whether the projects were "successfully completed" and of a "similar size and scope."
 - c. The bidder shall have evidence that it is able to begin and complete the work, and complete it in a timely fashion.
 3. As evidence that the bidder meets the supplemental bidder responsibility criteria in paragraph (B)(2) above, the apparent low bidder must submit the following documentation to the City within 48 hours of the bid opening. The City reserves the right to request such documentation from other bidders also. Refusal to provide such information upon request may cause the bid to be rejected.
 - a. The bidder shall submit a list of the public works projects completed within the previous three years and include for each project the following information; the owner and contact information for the owner; a list of claims filed against the retainage, payment, or performance bond for any of the projects listed; a written explanation of the circumstances surrounding each claim and the ultimate resolution of the claim.

- b. The bidder shall submit a list of projects of similar size and scope to this project and include information about each project, including the following: the owner and contact information for the owner; the awarded contract amount; the final contract amount; a description of the scope of the project and how the project is similar to this project; the bidder's assessment of its performance of each project. The information should include any information regarding performance in the following areas; quality control; safety record; timeliness of performance; use of skilled personnel; management of subcontractors; availability of and use of appropriate equipment; compliance with contract documents; management of submittals process, change orders, and close-out.
 - c. The bidder shall furnish acceptable evidence of the bidder's current ability to perform, such as firm commitments by subcontractors, equipment, supplies and facilities, and the bidder's ability to obtain the necessary personnel.
 - d. Under penalty of perjury, the bidder shall provide certification that the bidder is in compliance with the responsible bidder criteria in section 1-14(B)(2)(d) and referenced wage payment statutes under RCW 39.04.350(1)(g) and (2).
4. If the City determines the bidder does not meet the bidder responsibility criteria in paragraph (B)(1) and (B)(2) above and is therefore not a responsible bidder, the City shall notify the bidder in writing with the reasons for its determination. If the bidder disagrees with this determination, it may appeal the determination within 24 hours of receipt of the City's determination by presenting additional information to the City and meeting the requirements of section 1-20(B). The City will consider the additional information before issuing its final determination. If the final determination affirms that the bidder is not responsible, the City will not execute a contract with any other bidder until two business days after the bidder determined to be not responsible has received the final determination.

C. Lowest Bid – The lowest bid shall be determined as set forth on the Bid Form.

The acceptance of a bid will be evidenced by a Notice of Award. No other act of the City shall constitute acceptance of a bid. Within ten (10) days after receipt of Notice of Award, the bidder whose bid is accepted, shall furnish the required performance bond, certificate of insurance, execute the contract and perform all other acts required by the bid and contract documents as conditions precedent to formation of the contract.

1-15 Procedures When Only One Bid is Received

In the event only a single responsive bid is received, the City reserves the right to conduct a price and/or cost analysis of such bid. The sole bidder shall provide such information, data and other documentation as deemed necessary by the City for such analysis. The City reserves the right to reject such bid.

1-16 Bid Documents

Bidders are required to submit with the bid package the following:

- A. *Attachment A* – No Bid Response Form, if applicable.
- B. *Attachment B* – Bid Form.
- C. *Attachment C* – Bid Schedule.

- D. *Attachment D* – Bid Signature Page.
- E. *Attachment E* – Bid Bond Form.
- F. *Attachment F* – Subcontractor List, if applicable.
- G. *Attachment G* – Combined Affidavit and Certification Form.
- H. *Attachment H* – Contractor’s Compliance Statement.
- I. *Attachment I* – Contractor Certification – Wage Law Compliance.

1-17 Conflicts of Interest and Noncompetitive Practices

By submitting a bid, the Contractor agrees as follows:

- A. Conflict of Interest – That it has no direct or indirect pecuniary or proprietary interest, that it shall not acquire any interest which conflicts in any manner or degree with the work, services, equipment or materials required to be performed and/or provided under this contract and that it shall not employ any person or agent having any such interests. In the event that the Contractor or its agents, employees or representatives hereafter acquires such a conflict of interest, it shall immediately disclose such interest to the City and take action immediately to eliminate the conflict or to withdraw from this contract, as the City may require.

- B. Contingent Fees and Gratuities
 - 1. That no person or selling agency except bona fide employees or designated agents or representatives of the Contractor have been employed or retained to solicit or secure this contract with an agreement or understanding that a commission, percentage, brokerage, or contingent fee would be paid; and

 - 2. That no gratuities in the form of entertainment, gifts or otherwise, were offered or given by the Contractor or any of its agents, employees or representatives, to any official, member or employee of the City or other governmental agency with a view toward securing this contract or securing favorable treatment with respect to the awarding or amending, or the making of any determination with respect to the performance of this contract.

1-18 Bid Security

No bid will be considered unless accompanied by either a cashier’s or certified check in an amount equal to five percent (5%) of the Total Bid Price as indicated on Attachment B, “Bid Form,” or a bid bond in the form of Attachment E or a letter of credit for a like amount. The check or bond shall be payable to the City; it shall be forfeited as fixed and liquidated damages in case the bidder fails, neglects or refuses to enter into a contract for the faithful performance of said work (including the providing of any evidence of insurance and/or performance bond required herein), in the event the contract is awarded to them, within ten (10) days after the award is made. If a bid bond is submitted in lieu of a check, it shall be executed by a corporate surety authorized to transact business in the State of Washington and in the form prescribed in Attachment E, “Bid Bond.” If a letter of credit is offered in lieu of a check or bidder’s bond, it shall be issued as an irrevocable documentary letter of credit

drawn on a banking institution licensed to do business in the State of Washington. The letter of credit shall include instruction and provisions prescribed in Attachment E, "Bid Bond." Any questions as to the qualification of the banking institution or instruction shall be submitted to the City at least ten (10) days prior to the bid submittal date. The check, bidder's bond or letter of credit shall be attached to the bid form.

The City further reserves the right to hold all bids (and the accompanying bid security) from the date of the bid opening until the contract and any performance/payment bond are executed, provided that such period does not exceed ninety (90) days, and each bid shall remain effective during that period.

1-19 Performance/Payment Bond

The bidder to whom the City has awarded this Contract will remove the Performance/Payment Bond (Exhibit G) attached to the Public Works Contract and deliver it to the City fully executed by the bidder and a surety company in the amount of one hundred percent (100%) of the contract price as security for the faithful performance of the work including the payment of all persons furnishing materials and performing labor on the work and all payments arising from the performance of the work due the State of Washington pursuant to Titles 50 and 51 RCW. Such bond must be executed by a duly licensed surety company, which is registered with the Washington State Insurance Commissioner, and the surety's name shall appear in the current Authorized Insurance Company List in the State of Washington, published by the Office of the Insurance Commissioner. The scope of the Performance/Payment Bond (Exhibit G) shall in no way affect or alter the liabilities of the Contractor to the City under Section 8 "Indemnification" of the Public Works Contract.

The City may require the surety company to appear and qualify itself upon the bond. If, at any time, the City determines in its sole judgment that the surety company is insufficient, the City may require the Contractor to furnish additional surety in form and arrangement satisfactory to the City and in an amount not exceeding that originally required. The Contractor shall submit a performance bond complying with the requirements of this paragraph within ten (10) days after the award is made. Payments will not be made on the Contract until sufficient surety as required is furnished.

1-20 Bid Dispute

- A. Any actual or prospective bidder, including sub-contractors and suppliers showing a substantial economic interest in this contract who is aggrieved in connection with the solicitation or award of this contract, may protest to the City in accordance with the procedures set forth herein. Protests based on the specifications or other terms in the contract documents, which are apparent prior to the date established for submittal of bids, shall be submitted not later than ten (10) calendar days prior to said date, or shall be deemed waived. All other protests shall be accepted only from actual bidders and shall be submitted within five (5) calendar days after the aggrieved person knows or should have known of the facts and circumstances upon which the protest is based; provided, however, that in no event shall a protest be considered if all bids are rejected or after the award of this contract.
- B. In order to be considered, a protest shall be in writing and shall include: (1) the name and address of the aggrieved person; (2) the RFB number and contract title under which the protest is submitted; (3) a detailed description of the specific grounds for protest

and any supporting documentation; and (4) the specific ruling or relief requested. The written protest shall be addressed to:

City of Federal Way
33325 8th Avenue South
Federal Way, Washington 98003-6325
Attention: Bid Protest -- 2019 Asphalt Overlay Project RFB # 19-001

- C. Upon receipt of a written protest, the City will promptly consider the protest. The City may give notice of the protest and its basis to other persons, including bidders involved in or affected by the protest; such other persons may be given an opportunity to submit their views and relevant information. If the protest is not resolved by mutual agreement of the aggrieved person and the City, the City will promptly issue a decision in writing stating the reasons for the action taken and informing the aggrieved person of his or her right to appeal the decision to the Mayor or his or her designee. A copy of the decision shall be mailed (by certified mail, return receipt requested) or otherwise promptly furnished to the aggrieved person and any other interested parties who requested a copy of the decision. The decision will be considered final and conclusive unless appealed within five (5) calendar days after receipt of the decision to the Mayor or his or her designee. If the decision is appealed, then the subsequent determination of the Mayor or his or her designee shall issue within five (5) days of the Mayor's receipt of the appeal and shall be final and conclusive.
- D. Failure to comply with these protest procedures will render a protest untimely or inadequate and shall result in rejection thereof by the City.

SECTION 2: GENERAL CONTRACTUAL TERMS AND CONDITIONS

2-1 Administration

This contract will be between the City and the Contractor who will be responsible for delivering all equipment and performing all work and services described herein. The City is not party to defining the division of work between the Contractor and the Contractor's subcontractors, if any, and the specifications have not been written with this intent.

The Contractor represents that it has or will obtain all personnel and equipment required to perform the services hereunder. Such personnel shall not be employees of the City.

The Contractor's performance under this contract will be monitored and reviewed by Jeff Huynh, Street Systems Engineer. Questions by the Contractor regarding interpretation of the terms, provisions and requirements of this contract shall be addressed to Jeff Huynh, Street Systems Engineer, for response.

2-2 Proof of Compliance with Contract

In order that the City may determine whether the Contractor has complied with the requirements of the contract documents, the Contractor shall, at any time when requested, submit to the City properly authenticated documents or other satisfactory proofs as to the Contractor's compliance with such requirements.

2-3 Contract Documents and Precedence

The documents embodying the legally binding obligations between the City and the Contractor for completion of the work consist of the following: The City's Request for Bid, Bid Form, Bid Signature Page, Instructions to Bidders, Bid Bond, 2019 Asphalt Overlay Project Contract, General Contractual Terms and Conditions, Contractor's Compliance Statement, Combined Affidavit and Certification Form, Technical Specifications, Addenda and Change Orders, and the 2019 Asphalt Overlay Project Special Provisions; 2018 WSDOT / APWA Standard Specifications for Road, Bridge and Municipal Construction; Contract Special Provisions; Standard Plans and Details attached as Appendix B; Current Prevailing Wage Rates and Benefit Code Key attached as Appendix C; and all other Appendices attached hereto and incorporated by this reference, (collectively the "Contract Documents").

The contract documents are intended to be complementary so that what is required by any one of them shall be as binding as if called for by all of them. In the event of any conflicting provisions or requirements within the several parts of the contract documents, the City will issue an interpretation regarding the controlling provision, which interpretation shall be binding.

2-4 Charges to Contractor

Charges which are the obligation of the Contractor under the terms of the contract shall be paid by the Contractor to the City on demand and may be deducted by the City from any money due or to become due to the Contractor under the contract and may be recovered by the City from the Contractor or its surety.

2-5 Change Orders

The City may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make any change in the specifications within the scope of this contract. Oral orders will not be binding on the City unless confirmed in writing by the City. Except as provided herein, no order, statement, or conduct of the City will be treated as a change hereunder or will entitle the Contractor to an equitable adjustment.

If any change hereunder causes an increase or decrease in the Contractor's cost of, or time required for, the performance or any part of the work under this contract, an equitable adjustment will be made and the contract modified in writing accordingly. However, no claim will be allowed for any costs incurred more than five (5) days before the Contractor gives written notice as required.

If the Contractor intends to assert a claim for an equitable adjustment hereunder, it shall, within five (5) days after receipt of a written change order form from the City or after giving the City the written notice required above, as the case may be, submit to the City a written statement setting forth the general nature and monetary extent of such claim; provided the City, in its sole discretion, may extend such five (5) day submittal period upon request by the Contractor. The Contractor shall supply such supporting documents and analysis for the claims as the City may require to determine if the claims and costs have merit.

No claim by the Contractor for an equitable adjustment hereunder will be allowed if asserted after final payment under this contract.

2-6 Work and Materials Omitted

The Contractor shall, when directed in writing by the City, omit work, services and materials to be furnished under the contract and the value of the omitted work and materials will be deducted from the contract price and the delivery schedule will be reviewed if appropriate. The value of the omitted work, services and materials will be a lump sum or unit price, as mutually agreed upon in writing by the Contractor and the City. If the parties cannot agree on an appropriate deduction, the City reserves the right to issue a unilateral change order adjusting the price and the delivery schedule.

2-7 Washington State Sales Tax

The Contractor shall make payment directly to the State for all applicable Washington State sales taxes and all other governmental taxes, assessments and charges.

2-8 Shipping Charges

All prices shall include freight. Requests for additional compensation for freight charges will be rejected by the City.

2-9 Warranty

All materials and equipment sold and labor performed under this contract are warranted by the Contractor to be free from defects in materials or workmanship for a period of at least one (1) year from date of delivery and installation; provided, however, that this warranty may extend beyond this time period pursuant to any contractual or attached warranties. If the merchandise sold or work performed hereunder is defective on account of workmanship or materials, the Contractor agrees to replace the merchandise or, at the City's sole option, repair the defective merchandise. All defects in work or materials shall be promptly corrected.

2-10 No Waiver of Warranties and Contract Rights

Conducting of tests and inspections, review of specifications or plans, payment for goods or services, or acceptance by the City does not constitute a waiver, modification or exclusion of any express or implied warranty or any right under this contract or in law.

2-11 Legal Relations

The Contractor shall comply with all of the City's resolutions and regulations applicable under this contract and with any local, state or federal law or regulation applicable to the materials, equipment or service provided under this contract. Neither the Contractor nor the City shall assign any interest, obligation or benefit under or in this contract or transfer any interest in the same, whether by assignment or novation, without prior written consent of the other party. This contract shall be binding upon and inure to the benefit of the successors of the parties.

2-12 Applicable Law and Forum

Except as hereinafter specifically provided, this contract shall be governed by and construed according to the laws of the State of Washington including, but not limited to, the Uniform

Commercial Code, Title 62A RCW. Any suit arising herefrom shall be brought in King County Superior Court, which shall have sole and exclusive jurisdiction and venue.

2-13 Hazardous Chemical Communication

In order to comply with WAC 296-62-054, Hazard Communication, the Contractor shall submit with each shipment a Material Safety Data Sheet (MSDS) for all products containing any toxic products that may be harmful to the end user. The MSDS Sheet is to accompany the toxic product(s) to the specified delivery sites.

Include the following information in the MSDS:

- A. Chemical Abstract Service (CAS) numbers for every chemical that is listed in the MSDS.
- A. If the product is actually used diluted, the dilution rate should be so stated in the MSDS and the hazards and corresponding personal protection, etc., also be listed.
- A. A statement as to the intended use of the product.

2-14 Delivery and Liquidated Damages

Time is of the essence of the contract and each and all of its provisions in which performance is a factor. The Contractor will be held to strict compliance with the prescribed date(s) set forth in these contract documents. For each and every day that delivery is delayed beyond the specific date(s), damage will be sustained by the City. Because of the difficulty in computing the actual damages and disadvantages to the City, and as a reasonable forecast of actual damages which the City will suffer by the delay in delivery, the parties agree that for each such delay the Contractor will pay the City liquidated damages (and not as a penalty) in accordance with Section 1.3 of Attachment J, Public Works Contract, to compensate for any damages caused by such delay. The City may deduct from any payment owing to the Contractor, any liquidated damages, which may be incurred by the Contractor pursuant to this paragraph.

2-15 Force Majeure

The Contractor's or City's failure to perform any of its obligations under this contract shall be excused if due to causes beyond the control and without the fault or negligence of the Contractor or City, respectively, including, but not restricted to, acts of God, acts of public enemy, acts of any government, fire, floods, epidemics, and strikes.

2-16 Patents, Copyrights and Rights in Data

Any patentable result or material suitable for copyright arising out of this contract shall be owned by and made available to the City for public use, unless the City shall, in a specific case where it is legally permissible, determine that it is in the public interest that it not be so owned or available.

The Contractor agrees that the ownership of any plans, drawings, designs, specifications, computer programs, technical reports, operating manuals, calculations, notes and other work submitted or which is specified to be delivered under this contract, whether or not

complete (referred to in this subsection as "Subject Data"), shall be vested in the City or such other local, state or federal agency, if any, as may be provided by separate contract with the City.

All such Subject Data furnished by the Contractor pursuant to this contract, other than documents exclusively for internal use by the City, shall carry such notations on the front cover or a title page (or in such case of maps, in the same block) as may be requested by the City. The Contractor shall also place their endorsement on all Subject Data furnished by them. All such identification details shall be subject to approval by the City prior to printing.

The Contractor shall ensure that substantially the foregoing paragraphs are included in each subcontract for the work on the project.

2-17 Patents and Royalties

The costs involved in license fees, royalties or in defending claims for any patented invention, article, process or method that may be used in or connected with the work under this contract or with the use of complete work by the City, shall be paid by the Contractor. The Contractor and the Contractor's sureties shall, at their own cost, defend, indemnify and hold the City, together with its officers and employees, harmless against any and all demands made for such fees, royalties or claims brought or made by the holder of any invention or patent. Before final payment is made on the account of this contract, the Contractor shall, if requested by the City, furnish acceptable proof of a proper release of the City, its officers, agents and employees from all such fees or claims.

Should the Contractor, its agent, servants or employees, or any of them be enjoined from furnishing or using any invention, article, material, computer programs or equipment supplied or required to be supplied or used under the contract, the Contractor shall promptly substitute other articles, materials, computer programs or equipment in lieu thereof of equal efficiency, quality, finish, suitability and market value, and satisfactory in all respects to the City.

2-18 Disagreements, Disputes, Claims, and Appeals

If any disagreements occur with anything required in a change order, another written order, or an oral order from the Project Engineer, including any direction, instruction, interpretation, or determination by the Project Engineer, the Contractor shall follow the procedures outlined in Standard Specification Sections 1-04.5 and 1-09.11, which are incorporated by this reference.

By failing to follow the procedures of Sections 1-04.5 and 1-09.11, the Contractor completely waives any claims for protested Work.

Any claims or causes of action shall be brought only in the Superior Court for King County, Washington.

2-19 Recycled Products

The Contractor shall use recycled paper for proposals and for any printed or photocopied material created pursuant to a contract with the City whenever practicable and use both sides of paper sheets for reports submitted to the City whenever practicable.

In the event this RFB covers the sale of product to the City that is capable of containing recycled materials, Contractor is hereby advised that the City intends to procure products with recycled content, pursuant to the recycled content notice delivered with these bid documents. Contractor shall certify the percentage of recycled content and products sold to the City, including a percentage of post-consumer waste that is in the product. This certification is required to be in the form of a label on the product or a statement by the Contractor attached to the bid documents. The certification on multi-component or multi-material products shall verify the percentage and type of post-consumer waste and recycled content by volume contained in the major constituents of the product. The Contractor agrees to grant the City, as a procuring agency, permission to verify the certification of recycled content by review of the bidder's or manufacturer's records as a condition of any bid award, in the event of a bidder's protest, or other challenge to the bid accepted.

Attachment A

NO BID RESPONSE FORM

When submitting a "No Bid," mail this completed form to Federal Way Purchasing, 33325 8th Avenue South, Federal Way, Washington 98003-6325. Be sure the form is in a sealed envelope with the bid number and bid title indicated on the outside of the envelope. The form must be received by the date and time specified for the bid opening as indicated in Section 1-1. Failure to return this form, if not submitting a formal bid, may result in your firm being disqualified from future City projects.

Bid Number: **RFB No. 19-001**

Bid Title: **2019 Asphalt Overlay Project**

- Cannot comply with specifications.
- Cannot meet delivery requirement.
- Do not regularly manufacture or sell the type of commodity involved.
- Other (please specify).

Explanation of reason(s) checked:

Check one of the following:

- WE DO
- WE DO NOT desire to be retained on the mailing list for future procurements of this commodity.

Firm Name: _____

Address: _____

Phone: _____

Signature

Date

Name (Type or Print)

Title

Attachment B

BID FORM

CITY OF FEDERAL WAY

2019 ASPHALT OVERLAY PROJECT

BID FORM

Bidder: _____

Date: _____

ITEM	BID AMOUNT
A) Schedule B – S 336th St (10th Pl S to 18th Ave S)	\$
B) Schedule C – 1st Ave S (SW 312th St to SW 301st St)	\$
TOTAL BASE BID AMOUNT	\$
C) Alternate 1, Schedule A1 – 1st Ave S (SW 363rd Pl to S 361st Pl)	\$
D) Alternate 2, Schedule A2 – 1st Ave S (S 361st Pl to S 356th St)	\$
TOTAL ALTERNATIVE BID AMOUNT	\$
TOTAL BID AMOUNT (including Washington State sales tax, all other government taxes, assessments and charges)	\$

To City Council Members
City of Federal Way
33325 8th Ave South
Federal Way, Washington 98003-6325

Pursuant to and in compliance with your advertisement for bids for construction of 2019 Asphalt Overlay Project, and other documents relating thereto, the undersigned has carefully examined all of the bid and contract documents as the premises and conditions affecting the delivery, supply and maintenance of 2019 Asphalt Overlay Project, and hereby proposes to furnish all labor, materials and perform all work as required in strict accordance with the contract documents, for the above-referenced amount, **inclusive of Washington State sales tax** and all other government taxes, assessments and charges as required by law.

The required bid security consisting of a certified check, bid bond, or cashier’s check in an amount of not less than five percent (5%) of the total amount bid is attached hereto, which it is agreed shall be collected and retained by the City as liquidated damages in the event this bid is accepted by the City within forty-five (45) calendar days after the day of the bid opening and the undersigned fails to execute the 2019 Asphalt Overlay Project Public Works Contract and to provide the required certificate of insurance to the City, under the conditions thereof, within ten (10) calendar days after the Notice of Award; otherwise said Bid Security will be returned to the undersigned.

Bond or Certified Check _____ Dollars (\$ _____)

The Bidder shall complete this entire Bid Form or this bid may be considered non-responsive. The City may correct obvious mathematical errors.

The City of Federal Way reserves the right to reject any and all bids, waive any informalities or minor irregularities in the bidding, and determine which bid or bidder meets the criteria set forth in the bid documents.

Receipt of the following Addendums is hereby acknowledged:

Addendum No. ____ Date Issued: _____

Addendum No. ____ Date Issued: _____

Addendum No. ____ Date Issued: _____

Corporation/Partnership/Individual
(Delete Two)

Firm Name

Bidder's State License No.

Signature

Bidder's State Tax No.

Title

ATTACHMENT C

**CITY OF FEDERAL WAY
2019 ASPHALT OVERLAY PROJECT**

BID SCHEDULE

NOTE: Unit Prices for all items, all extensions, and the total amount of the bid must be shown. Show unit prices in legible figures. Where conflict occurs between the unit price and the total amount named for any item, the unit price shall prevail, and the totals shall be corrected to conform thereto.

SCHEDULE A1 -1ST AVE S (SW 363RD PL TO S 361ST PL)

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Flaggers and Spotters	350	HR		
3	1-10	Other Traffic Control Labor	45	HR		
4	1-10	Portable Changeable Message Sign	30	DAY		
5	2-02	Asphalt Concrete Pavement Sawcutting	165	LF		
6	2-02	Cement Concrete Sawcutting	156	LF		
7	2-02	Removal of Cement Conc. Sidewalk	160	SY		
8	2-02	Removal of Mountable Cement Conc. Curb	135	LF		
9	2-03	Roadway Excavation Incl. Haul	24	CY		
10	4-04	Maintenance Rock for Shoulder Reconstruction, Incl. Haul	5	TN		
11	5-04	Planing Bituminous Pavement	2,750	SY		
12	5-04	HMA Cl. 1/2" PG 58H-22	805	TN		
13	5-04	HMA Cl. 1/2" PG 58H-22 for Pavement Repair	50	TN		
14	8-02	Sod Lawn, Incl. 4 In Topsoil	14	SY		
15	8-03	Repair Existing Irrigation Systems	1	FA	\$3,000.00	
16	8-04	Cement Conc. Curb & Gutter	12	LF		
17	8-04	Mountable Cement Conc. Curb	135	LF		
18	8-09	Raised Pavement Marker, Type 2	1.1	HUND		
19	8-09	Hydrant Marker, Type 2B	2	EA		
20	8-13	Adjust Monument Case & Cover	4	EA		
21	8-14	Cement Conc. Sidewalk	40	SY		
22	8-14	Cement Conc. Curb Ramp Type 2 Parallel	5	EA		
23	8-14	Cement Conc. Curb Ramp Type Single Direction	3	EA		

24	8-22	Paint Line	3,123	LF		
25	8-22	Plastic Crosswalk Line	300	LF		

SUBTOTAL SCHEDULE A1 _____

SCHEDULE A2 - 1ST AVE S (S 361ST PL TO 356TH ST)

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Flaggers and Spotters	400	HR		
3	1-10	Other Traffic Control Labor	50	HR		
4	1-10	Off Duty Uniformed Police Officer	1	FA	\$5,400.00	\$5,400.00
5	2-01	Roadside Cleanup	1	FA	\$3,000.00	\$3,000.00
6	2-02	Asphalt Concrete Pavement Sawcutting	94	LF		
7	2-02	Cement Concrete Sawcutting	90	LF		
8	2-02	Removal of Cement Conc. Sidewalk	170	SY		
9	2-02	Removal of Mountable Cement Conc. Curb	1,410	LF		
10	2-03	Roadway Excavation Incl. Haul	55	CY		
11	4-04	Maintenance Rock for Shoulder Reconstruction, Incl. Haul	60	TN		
12	5-04	Planing Bituminous Pavement	1,120	SY		
13	5-04	HMA Cl. 1/2" PG 58H-22	945	TN		
14	5-04	HMA Cl. 1/2" PG 58H-22 for Pavement Repair	115	TN		
15	7-05	Adjust Catch Basin	1	EA		
16	7-05	Adjust Existing Utility to Grade	1	EA		
17	8-03	Repair Existing Irrigation Systems	1	FA	\$1,000.00	\$1,000.00
18	8-04	Cement Conc. Curb & Gutter	13	LF		
19	8-04	Mountable Cement Conc. Curb	1,410	LF		
20	8-09	Raised Pavement Marker, Type 2	2	HUND		
21	8-09	Hydrant Marker, Type 2B	2	EA		
22	8-13	Adjust Monument Case & Cover	1	EA		
23	8-14	Cement Conc. Sidewalk	9	SY		
24	8-14	Cement Conc. Curb Ramp Type 2 Parallel	3	EA		

25	8-20	Pedestrian Pushbutton and Foundation	1	LS		
26	8-20	Detector Loop	10	EA		
27	8-22	Paint Line	3,880	LF		
28	8-22	Painted Wide Line	180	LF		
29	8-22	Plastic Crosswalk Line	220	LF		
30	8-22	Plastic Stop Line	34	LF		
31	8-22	Plastic Traffic Arrow	4	EA		

SUBTOTAL SCHEDULE A2 _____

SCHEDULE B - S 336TH ST (10TH PL S TO 18TH AVE S)

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Flaggers and Spotters	700	HR		
3	1-10	Other Traffic Control Labor	50	HR		
4	1-10	Off Duty Uniformed Police Officer	1	FA	\$7,200.00	\$7,200.00
5	1-10	Construction Signs Class A	98	SF		
6	1-10	Portable Changeable Message Sign	36	DAY		
7	2-01	Roadside Cleanup	1	FA	\$3,000.00	\$3,000.00
8	2-02	Asphalt Concrete Pavement Sawcutting	130	LF		
9	2-02	Cement Concrete Sawcutting	265	LF		
10	2-02	Removal of Cement Conc. Sidewalk	160	SY		
11	2-03	Roadway Excavation Incl. Haul	90	CY		
12	5-04	Planing Bituminous Pavement	7,002	SY		
13	5-04	HMA CL. 1/2" PG 58H-22	1,540	TN		
14	5-04	HMA Cl. 1/2" PG 58H-22 for Pavement Repair	190	TN		
15	7-05	Adjust Manhole	8	EA		
16	7-05	Adjust Catch Basin	3	EA		
17	7-05	Replace Existing Frame and Grate with Ergo Frame and Lid and Adjust to Finished Grade	7	EA		
18	7-05	Re-grout Catch Basin	2	EA		
19	7-05	Adjust Existing Utility to Grade	5	EA		

20	8-02	Sod Lawn, Incl. 4 In Topsoil	13	SY		
21	8-03	Repair Existing Irrigation Systems	1	FA	\$2,000.00	\$2,000.00
22	8-09	Raised Pavement Marker, Type 2	4.4	HUND		
23	8-09	Hydrant Marker, Type 2B	4	EA		
24	8-13	Adjust Monument Case & Cover	2	EA		
25	8-14	Cement Conc. Sidewalk	32	SY		
26	8-14	Cement Conc. Curb Ramp Type Perpendicular	4	EA		
27	8-22	Painted Bicycle Lane Symbol	2	EA		
28	8-22	Profiled Plastic Line	8,377	LF		
29	8-22	Plastic Edge Line	412	LF		
30	8-22	Profiled Plastic Wide Line	994	LF		
31	8-22	Profiled Plastic Dotted Wide Line	142	LF		
32	8-22	Plastic Crosswalk Line	860	LF		
33	8-22	Plastic Stop Line	130	LF		
34	8-22	Plastic Traffic Arrow	17	EA		

SUBTOTAL SCHEDULE B _____

SCHEDULE C - 1ST AVE S (S 312TH ST TO S 301ST ST)

ITEM NO.		ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	TOTAL BID
1	1-09	Mobilization	1	LS		
2	1-10	Flaggers and Spotters	900	HR		
3	1-10	Other Traffic Control Labor	100	HR		
4	1-10	Off Duty Uniformed Police Officer	1	FA	\$5,000.00	\$5,000.00
5	1-10	Portable Changeable Message Sign	36	DAY		
6	2-01	Roadside Cleanup	1	FA	\$3,000.00	\$3,000.00
7	2-02	Asphalt Concrete Pavement Sawcutting	125	LF		
8	2-02	Cement Concrete Sawcutting	110	LF		
9	2-02	Removal of Cement Conc. Sidewalk	95	SY		
10	2-02	Removal of Cement Conc. Traffic Curb	180	LF		

11	2-03	Roadway Excavation Incl. Haul	75	CY		
12	4-04	Maintenance Rock for Shoulder Reconstruction, Incl. Haul	130	TN		
13	5-04	Planing Bituminous Pavement	3,702	SY		
14	5-04	HMA Cl. 1/2" PG 58H-22	2,615	TN		
15	5-04	HMA Cl. 1/2" PG 58H-22 for Pavement Repair	150	TN		
16	7-05	Adjust Manhole	6	EA		
17	7-05	Adjust Catch Basin	3	EA		
18	8-02	Sod Lawn, Incl. 4 In Topsoil	5	SY		
19	8-03	Repair Existing Irrigation Systems	1	FA	\$3,000.00	\$3,000.00
20	8-07	Precast Sloped Mountable Curb	5	LF		
21	8-07	Precast Dual Faced Sloped Mountable Curb	175	LF		
22	8-09	Raised Pavement Marker, Type 2	4	HUND		
23	8-09	Hydrant Marker, Type 2B	4	EA		
24	8-11	Raising Existing Beam Guardrail	50	LF		
25	8-13	Adjust Monument Case & Cover	7	EA		
26	8-14	Cement Conc. Sidewalk	9	SY		
27	8-14	Cement Conc. Curb Ramp Type 1 Parallel	1	EA		
28	8-14	Cement Conc. Curb Ramp Type 2 Parallel	2	EA		
29	8-14	Cement Conc. Curb Ramp Type Single Direction	2	EA		
30	8-14	MMA-Style Truncated Dome Detectable Warning Surface	3	SY		
31	8-20	Detector Loop	10	EA		
32	8-21	R9-3A Sign and Post	1	LS		
33	8-22	Profiled Plastic Line	8,645	LF		
34	8-22	Plastic Edge Line	6,650	LF		
35	8-22	Profiled Plastic Wide Line	100	LF		
36	8-22	Plastic Crosswalk Line	420	LF		
37	8-22	Plastic Stop Line	96	LF		
38	8-22	Plastic Traffic Arrow	10	EA		

SUBTOTAL SCHEDULE C _____

Attachment D

BID SIGNATURE PAGE

Date: _____

The undersigned bidder hereby proposes and agrees to deliver the equipment and/or services pursuant to the 2019 Asphalt Overlay Project and comply with all other terms and conditions of the contract and bid documents of RFB 19-001.

No bidder may withdraw his/her bid for a period of ninety (90) days after the day of bid opening.

The required bid security consisting of a certified check, bid bond, or cashier's check in an amount of not less than five percent (5%) of the total amount will be delivered to the City.

The undersigned individual represents and warrants that he or she is dully authorized to execute the bid and all bid documents on behalf of any partnership, joint venture or corporation.

Corporation/Partnership/Individual
(Delete Two)

Company

By: _____
(Signature)

(Printed Name)

Its: _____
(Title)

(Address)

(Telephone Number)

Attachment E

BID BOND FORM

Herewith find deposit in the form of a certified check, cashier's check, cash, or bid bond in the amount of \$ _____, which amount is not less than five percent (5%) of the total bid.

BID BOND

KNOW ALL PERSONS BY THESE PRESENTS that we, _____, as Principal, and _____, as Surety, are held and firmly bound unto the City of Federal Way, as Obligee, in the penal sum of _____ and ___/100 dollars (\$_____), for the payment of which the Principal and the Surety bond themselves, their heirs and executors, administrators, successors and assigns, jointly and severally, by these presents.

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

2019 ASPHALT OVERLAY PROJECT

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

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

Principal

Surety

Date: _____, 20__.

Received return of deposit in the sum of \$ _____.

Attachment F

SUBCONTRACTOR LIST

Prepared in Compliance with RCW 39.30.060

2019 ASPHALT OVERLAY PROJECT

Failure to list subcontractors who are proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW, or identify the bidder for the work will result in your bid being non-responsive and therefore void.

Subcontractors that are proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW, must be named below, or name the bidder for the work.

The bidder verifies that each first tier subcontractor, and every subcontractor of any tier that hires other subcontractors, has a current certificate of registration in compliance with chapter 18.27 RCW; a current Washington Unified Business Identifier (UBI) number; has Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RCW, if applicable; has a Washington Employment Security Department number, as required in Title 50 RCW, if applicable; has a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW, if applicable; has an electrical contractor license, if required by Chapter 19.28 RCW, if applicable; has an elevator contractor license, if required by Chapter 70.87 RCW.

The following listed bid items (listed in numerical sequence) for this project have been proposed for subcontracting to subcontractors as indicated.

SUBCONTRACTOR NAME	ITEM NUMBERS	ESTIMATED AMOUNT	WMBE QUALIFIED? (Y/N)

Attachment G

City of Federal Way

COMBINED AFFIDAVIT AND CERTIFICATION FORM

Non-Collusion, Anti-Trust, Prevailing Wage (Non-Federal Aid),
Debarment, Eligibility, and Certification of Lawful Employment

NON-COLLUSION AFFIDAVIT

Being first duly sworn, deposes and says, that he/she is the identical person who submitted the foregoing proposal or bid, and that such bid is genuine and not sham or collusive or made in the interest or on behalf of any person not therein named, and further, that the deponent has not directly induced or solicited any other Bidder on the foregoing work equipment to put in a sham bid, or any other person or corporation to refrain from bidding, and that deponent has not in any manner sought by collusion to secure to himself/herself or to any other person any advantage over other Bidder or Bidders; and

**NOTICE TO ALL BIDDERS ON PROJECTS INVOLVING
THE U.S. DEPARTMENT OF TRANSPORTATION (USDOT)**

To report bid rigging activities call: **1-800-424-9071**

The U.S. Department of Transportation (USDOT) operates the above toll-free hotline Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the hotline to report such activities. The hotline is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected; and

CERTIFICATION RE: ASSIGNMENT OF ANTI-TRUST CLAIMS TO PURCHASER

Vendor and purchaser recognize that in actual economic practice, overcharges resulting from anti-trust violations are, in fact, usually borne by the purchaser. Therefore, vendor hereby assigns to purchaser any and all claims for such overcharges as to goods and materials purchased in connection with this order or contract, except as to overcharges resulting from anti-trust violations commencing after the date of the bid, quotation, or other event establishing the price under this order or contract. In addition, vendor warrants and represents that each of his suppliers and subcontractors shall assign any and all such claims to purchaser, subject to the aforementioned exception; and

PREVAILING WAGE AFFADAVIT

I, the undersigned, having duly sworn, deposed say and certify that in connection with the performance of the work of this project, will pay each classification of laborer, work person, or mechanic employed in the performance of such work, not less than the prevailing rate of wage or not less than the minimum rate of wage as specified in the principal contract; that I have read the above and forgoing statement and certificate, know the contents thereof and the substance as set forth therein, is true to my knowledge and belief; and

DEBARMENT AFFIDAVIT

I certify that, except as noted below, the firm, association or corporation or any person in a controlling capacity associated therewith or any position involving the administration of federal funds; is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three (3) years; does not have a proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against said person, firm, association or corporation by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three (3) years.

AFFIDAVIT OF ELIGIBILITY

The Contractor certifies that it is properly licensed and registered under the laws of the State of Washington and has not been determined to have been in violation of RCW 50.12.070(1)(b), RCW 51.16.070(1)(b), or RCW 82.32.070(2) within the last two years. The Contractor further certifies that it has not been determined, within the last one year, to have committed any combination of two of the following violations or infractions within a five-year period: (1) Violated RCW 51.48.020(1) or 51.48.103; or (2) Committed an infraction or violation under chapter 18.27 RCW.

CERTIFICATION OF LAWFUL EMPLOYMENT

The contractor hereby certifies that it has complied with all provisions of the Immigration and Nationality Act, now or as herein after amended, 8 USC Section 1101 et. seq., and that all employees, including subcontractor employees, are lawfully permitted to perform work in the United States as provided in this agreement with the City of Federal Way.

FOR: Non-Collusion Affidavit, Assignment of Anti-Trust Claims to Purchaser, Prevailing Wage Affidavit, Debarment Affidavit, Affidavit Of Eligibility, and Certification of Lawful Employment.

2019 Asphalt Overlay Project

Name of Bidder's Firm

Signature of Authorized Representative of Bidder

Subscribed and sworn to before me this ____ day of _____, 20__.

(printed/typed name of notary)
Notary Public in and for the State of Washington
My commission expires: _____

Attachment H

CONTRACTOR'S COMPLIANCE STATEMENT

(President's Executive Order #11246)

Date: _____

This statement relates to a proposal contract with the City of Federal Way named

2019 ASPHALT OVERLAY PROJECT

I am the undersigned bidder or prospective contractor. I represent that:

I have, have not, participated in a previous contract or subcontract subject to the President's Executive Order #11246 (regarding equal employment opportunity) or a preceding similar Executive Order.

Name of Bidder

By: _____
Signature

Its: _____
Title

Address

Attachment J

PROPOSAL FOR INCORPORATING RECYCLED MATERIALS

APWA-WA Division 1 Committee rev. 1/8/2016



Proposal for Incorporating Recycled Materials into the Project

In compliance with a new law that went into effect January 1, 2016 (SHB1695), the Bidder shall propose below, the total percent of construction aggregate and concrete materials to be incorporated into the Project that are recycled materials. Calculated percentages must be within the amounts allowed in Section 9-03.21(1)E, Table on Maximum Allowable Percent (By Weight) of Recycled Material, of the Standard Specifications.

Proposed total percentage: percent.

Note: Use of recycled materials is highly encouraged within the limits shown above, but does not constitute a Bidder Preference, and will not affect the determination of award, unless two or more lowest responsive Bid totals are exactly equal, in which case proposed recycling percentages will be used as a tie-breaker, per the APWA GSP in Section 1-03.1 of the Special Provisions. Regardless, the Bidder's stated proposed percentages will become a goal the Contractor should do its best to accomplish. Bidders will be required to report on recycled materials actually incorporated into the Project, in accordance with the APWA GSP in Section 1-06.6 of the Special Provisions.

Bidder:

Signature of Authorized Official: Date:

Attachment K

**PUBLIC WORKS CONTRACT
FOR
2019 ASPHALT OVERLAY PROJECT**

THIS PUBLIC WORKS CONTRACT ("Contract") is dated effective this ____ day of _____, 20__ and is made by and between the City of Federal Way, a Washington municipal corporation ("City or Owner"), and _____, a _____ ("Contractor").

A. The City desires to retain an independent contractor to furnish all labor and materials necessary to perform work necessary to complete 2019 Asphalt Overlay Project located at _____, Federal Way, Washington ("Property"); and

B. The Contractor has the requisite skill and experience to perform such work.

NOW, THEREFORE, the parties ("Parties") agree to the following terms and conditions:

1. SERVICES BY CONTRACTOR

1.1 Description of Work. Contractor shall perform all work and furnish all tools, materials, supplies, equipment, labor and other items incidental thereto necessary for the construction and completion of the work, more particularly described as the 2019 Asphalt Overlay Project, including without limitation: overlay existing asphalt concrete pavement in four (4) different locations within the City of Federal Way (approximately 6,600 tons), roadway excavation, planing bituminous pavement, pavement repair, removal and replacement of curb and gutter, sidewalk, concrete approach, curb ramps, traffic curb, installation of traffic signal detection loop, installation of pedestrian pushbutton, channelization, restoration, utility adjustments work, ("Work"), in accordance with and as described in the Contract Documents, which include without limitation, this Contract, Request for Bids, Bidder's Checklist, Instructions to Bidders, General Contractual Terms and Conditions, Bid Form, Bid Signature Page, Bid Bond, Combined Affidavit and Certification Form, Contractor's Compliance Statement, Notice of Completion of Public Works Contract attached as Exhibit A, Contract Change Order Agreement attached as Exhibit B, Contractor's Retainage Agreement attached as Exhibit C, Retainage Bond to City of Federal Way attached as Exhibit D, Notice to Labor Unions or Other Employment Organizations Nondiscrimination in Employment attached as Exhibit E, Certificate(s) of Insurance Form attached hereto as Exhibit F, Performance / Payment Bond attached hereto as Exhibit G, Title VI Assurances attached hereto as Exhibit H, Addenda and Change Orders, 2019 Asphalt Overlay Project Special Provisions, 2018 WSDOT / APWA Standard Specifications for Road, Bridge and Municipal Construction, Contract Special Provisions, Standard Plans and Details attached as Appendix B, Current Prevailing Wage Rates and Benefit Code Key attached as Appendix C, and all other Appendices attached hereto and incorporated by this reference, (collectively the "Contract Documents"), which Work shall be completed to the City's satisfaction, within the time period prescribed by the City and pursuant to the direction of the Mayor or his or her designee.

1.2 Completion Date. The Work shall be commenced within five (5) days of receipt by the Contractor of the City's Notice to Proceed. The Work shall be completed on **80 working days**. In the event the Work is not substantially completed within the time specified, Contractor agrees to pay to the City liquidated damages in the amount set forth in the formula included in Section 1.3 of this Contract. The Work shall not be deemed completed until the City has accepted the Work and

delivered a written Notice of Completion of Public Works Contract in the form attached hereto as Exhibit "A."

1.3 Liquidated Damages. Time is of the essence of the Contract. Delays inconvenience the public and cost taxpayers undue sums of money, adding time needed for administration, inspection, and supervision. It is impractical for the City to calculate the actual cost of delays. Accordingly, the Contractor agrees to pay liquidated damages calculated on the following formula for its failure to complete this Contract on time:

- (1) To pay (according to the following formula) liquidated damages for each working day beyond the number of working days established for completion, and
- (2) To authorize the City to deduct these liquidated damages from any money due or coming due to the Contractor.

LIQUIDATED DAMAGES FORMULA

$$LD = \frac{0.15C}{T}$$

Where: LD = Liquidated damages per working day (rounded to the nearest dollar).
C = Original Contract amount.
T = Original time for completion.

When the Work is completed to the extent that the City has full and unrestricted use and benefit of the facilities, both from an operational and safety standpoint, the City may determine the Work is complete. Liquidated damages will not be assessed for any days for which an extension of time is granted. No deduction or payment of liquidated damages will, in any degree, release the Contractor from further obligations and liabilities to complete this entire Contract.

1.4 Performance Standard. Contractor shall perform the Work in a manner consistent with accepted practices for other properly licensed contractors.

1.5 Compliance with Laws. Contractor shall perform the Work in accordance with all applicable federal, state and City laws, including but not limited to all City ordinances, resolutions, standards or policies, as now existing or hereafter adopted or amended, and obtain all necessary permits and pay all permit, inspection or other fees, at its sole cost and expense.

1.6 Change Orders. The City may, at any time, without notice to sureties, order changes within the scope of the Work. Contractor agrees to fully perform any such alterations or additions to the Work. All such change orders shall be in the form of the Contract Change Order Agreement attached hereto as Exhibit "B," which shall be signed by both the Contractor and the City, shall specifically state the change of the Work, the completion date for such changed Work, and any increase or decrease in the compensation to be paid to Contractor as a result of such change in the Work. Oral change orders shall not be binding upon the City unless confirmed in writing by the City. If any change hereunder causes an increases or decrease in the Contractor's cost of, or time required for, the performance or any part of the Work under this Contract, an equitable adjustment will be made and the Contract modified in writing accordingly.

If the Contractor intends to assert a claim for an equitable adjustment hereunder, it shall, within five (5) days after receipt of a written change order from the City or after giving the written

notice required above, as the case may be, submit to the City a written statement setting forth the general nature and monetary extent of such claim; provided the City, in its sole discretion, may extend such five (5) day submittal period upon request by the Contractor. The Contractor shall supply such supporting documents and analysis for the claims as the City may require to determine if the claims and costs have merit. No claim will be allowed for any costs incurred more than five (5) days before the Contractor gives written notice as required. No claim by the Contractor for an equitable adjustment hereunder will be allowed if asserted after final payment under this Contract.

1.7 Work and Materials Omitted. The Contractor shall, when directed in writing by the City, omit work, services and materials to be furnished under the Contract and the value of the omitted work and materials will be deducted from the Total Compensation and the delivery schedule will be reviewed if appropriate. The value of the omitted work, services and materials will be a lump sum or unit price, as mutually agreed upon in writing by the Contractor and the City. If the parties cannot agree on an appropriate deduction, the City reserves the right to issue a unilateral change order adjusting the price and the delivery schedule.

1.8 Utility Location. Contractor is responsible for locating any underground utilities affected by the Work and is deemed to be an excavator for purposes of Chapter 19.122 RCW, as amended. Contractor shall be responsible for compliance with Chapter 19.122 RCW, including utilization of the "one call" locator system before commencing any excavation activities.

1.9 Air Environment. Contractor shall fully cover any and all loads of loose construction materials including without limitation, sand, dirt, gravel, asphalt, excavated materials, construction debris, etc., to protect said materials from air exposure and to minimize emission of airborne particles to the ambient air environment within the City of Federal Way.

2. TERM

This Contract shall commence on the effective date of this Contract and continue until the completion of the Work, which shall be no later than _____, 20__ to complete, and the expiration of all warranties contained in the Contract Documents ("Term").

3. WARRANTY

3.1 Requisite Skill. The Contractor warrants that it has the requisite skill to complete the Work, and is appropriately accredited and licensed by all applicable agencies and governmental entities, including but not limited to being registered to do business in the City of Federal Way by obtaining a City of Federal Way business registration. Contractor represents that it has visited the site and is familiar with all of the plans and specifications in connection with the completion of the Work.

3.2 Defective Work. The Contractor shall, at its sole cost and expense, correct all Work which the City deems to have defects in workmanship and material discovered within one (1) year after the City's final acceptance of the Work as more fully set forth in the General Conditions of the Contract. This warranty shall survive termination of this Contract. Conducting of tests and inspections, review of specifications or plans, payment for goods or services, or acceptance by the City does not constitute waiver, modification or exclusion of any express or implied warranty or any right under this Contract or law.

4. COMPENSATION

4.1 Total Compensation. In consideration of the Contractor performing the Work, the City agrees to pay the Contractor an amount not to exceed _____ and 00/100 Dollars (\$ _____), which amount shall constitute full and complete payment by the City ("Total Compensation").

4.2 Contractor Responsible for Taxes. The Contractor shall be solely responsible for the payment of any taxes imposed by any lawful jurisdiction as a result of the performance and payment of this Contract.

4.3 Nonpayment. The City shall have the right to withhold payment to the Contractor for any of the Work not completed in a satisfactory manner, in the City's sole discretion, which shall be withheld until such time as Contractor modifies or repairs the Work so that the Work is acceptable to the City.

4.4 Method of Payment. The basis of payment will be the actual quantities of work performed according to the contract and as specified for payment. Payments will be made for work and labor performed and materials furnished under the contract according to the price in the proposal unless otherwise provided. Partial payments will be made once each month, based on partial estimates prepared by the Engineer and signed by the Contractor. Failure to perform any obligation under this Contract may be adequate reason for the City to withhold payments until the obligation is performed.

Upon completion of all work and after final inspection, the amount due the Contractor under the contract will be paid based upon the final estimate made by the Engineer and signed by the Contractor.

Payment to the Contractor for partial estimates, final estimates, and retained percentages shall be subject to controlling laws.

4.5 Retainage. Pursuant to Chapter 60.28 RCW, five percent (5%) of the Total Compensation shall be retained by the City to assure payment of Contractor's state sales tax as well as payment of subcontractors, suppliers and laborers. Upon execution of this Contract, Contractor shall complete, execute and deliver to the City the Contractor Retainage Agreement attached hereto as Exhibit "C" or execute the Retainage Bond attached hereto as Exhibit "D." No payments shall be made by the City from the retained percentage fund ("Fund") nor shall the City release any retained percentage escrow account to any person, until the City has received from the Department of Revenue a certificate that all taxes, increases, and penalties due from the Contractor and all taxes due and to become due with respect to the Contract have been paid in full or that they are, in the Department's opinion, readily collectible without recourse to the State's lien on the retained percentage. Upon non-payment by the general contractor, any supplier or subcontractor may file a lien against the retainage funds, pursuant to Chapter 60.28 RCW. Subcontractors or suppliers are required to give notice of any lien within forty-five (45) days of the completion of the Work and in the manner provided in RCW 39.08.030. Within sixty (60) days after completion of all Work on this Contract, the City shall release and pay in full the money held in the Fund, unless the City becomes aware of outstanding claims made against this Fund.

5. EQUAL OPPORTUNITY EMPLOYER

In all Contractor services, programs or activities, and all Contractor hiring and employment made possible by or resulting from this Contract, there shall be no discrimination by Contractor or by Contractor's employees, agents, subcontractors or representatives against any person because of sex, age (except minimum age and retirement provisions), race, color, creed, national origin,

marital status or the presence of any disability, including sensory, mental or physical handicaps, unless based upon a bona fide occupational qualification in relationship to hiring and employment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. Contractor shall comply with, and shall not violate any of the terms of, Chapter 49.60 RCW, Title VII of the Civil Rights Act of 1964, the Americans With Disabilities Act, Section 504 of the Rehabilitation Act of 1973, 49 CFR Part 26, or any other applicable federal, state, or local law or regulation regarding non-discrimination. Any material violation of this provision shall be grounds for termination of this Contract by the City and, in the case of the Contractor's breach, may result in ineligibility for further City agreements. If this project involves federal funds including USDOT funds administered by WSDOT, the contractor agrees to the clauses contained in Exhibit H.

6. INDEPENDENT CONTRACTOR/CONFLICT OF INTEREST

6.1 It is the intention and understanding of the Parties that the Contractor shall be an independent contractor and that the City shall be neither liable nor obligated to pay Contractor sick leave, vacation pay or any other benefit of employment, nor to pay any social security or other tax which may arise as an incident of employment. The Contractor shall pay all income and other taxes due. Industrial or any other insurance that is purchased for the benefit of the City, regardless of whether such may provide a secondary or incidental benefit to the Contractor, shall not be deemed to convert this Agreement to an employment contract. It is recognized that Contractor may or will be performing professional services during the Term for other parties; provided, however, that such performance of other services shall not conflict with or interfere with Contractor's ability to perform the Services. Contractor agrees to resolve any such conflicts of interest in favor of the City.

6.2 If the Contractor is a sole proprietorship or if this is a contract with an individual, the contractor agrees to notify the City and complete any required form if the Contractor retired under a State of Washington retirement system and agrees to indemnify any losses the City may sustain through the Contractor's failure to do so.

7. CITY'S RIGHT TO TERMINATE CONTRACT

7.1 Termination Without Cause. Prior to the expiration of the Term, this Contract may be terminated without cause upon oral or written notice delivered to Contractor from the City. Upon termination, all supplies, materials, labor and/or equipment furnished prior to such date shall, at the City's option, become its property. In the event Contractor is not in breach of any of the provisions of this Contract, Contractor will be paid for any portion of the Work which has been completed to the City's satisfaction, calculated by the percentage amount that portion of the Work completed and accepted by the City bears to the Total Compensation.

7.2 Termination For Cause. The City may immediately terminate this Contract, take possession of the Property and all materials thereon and finish the Work by whatever methods it may deem expedient, upon the occurrence of any one or more of the following events:

- (1) If the Contractor should be adjudged a bankrupt.
- (2) If the Contractor should make a general assignment for the benefit of its creditors.
- (3) If a receiver should be appointed on the account of insolvency of Contractor.

- (4) If Contractor should persistently or repeatedly refuse or fail to supply a sufficient number of properly skilled workmen or proper materials for completion of the Work.
- (5) If the Contractor should fail to complete the Work within the time specified in this Contract.
- (6) If the Contractor should fail to complete the Work in compliance with the plans and specifications, to the City's satisfaction.
- (7) If the Contractor should fail to make prompt payment to subcontractors or for material labor.
- (8) If Contractor should persistently disregard laws, ordinances or regulations of federal, state, or municipal agencies or subdivisions thereof.
- (9) If Contractor should persistently disregard instructions of the Mayor or his or her representative.
- (10) If Contractor shall be in breach or violation of any term or provision of this Contract, or
- (11) If the Work is not being performed pursuant to RCW 49.28.050 or 49.28.060.

7.3 Result of Termination. In the event that this Contract is terminated for cause by the City, the City may do any or all of the following:

- (1) Stop payments. The City shall cease any further payments to Contractor and Contractor shall be obligated to repay any payments it received under this contract.
- (2) Complete Work. The City may, but in no event is the City obligated to, complete the Work, which Work may be completed by the City's agents, employees or representatives or the City may retain independent persons or entities to complete the Work. Upon demand, Contractor agrees to pay to the City all of its costs and expenses in completing such Work.
- (3) Take Possession. The City may take possession of the Property and any equipment and materials on the Property and may sell the same, the proceeds of which shall be paid to the City for its damages.
- (4) Remedies Not Exclusive. No remedy or election under this Contract shall be deemed an election by the City but shall be cumulative and in addition to all other remedies available to the City at law, in equity or by statute.

8. INDEMNIFICATION

8.1 Contractor Indemnification. The Contractor agrees to indemnify, defend, and hold the City, its elected officials, officers, employees, agents, and volunteers harmless from any and all claims, demands, losses, actions and liabilities (including costs and all attorney fees) to or by any and all persons or entities, including, without limitation, their respective agents, licensees, or representatives, arising from, resulting from, or connected with this Contract to the extent caused

by the negligent acts, errors or omissions of the Contractor, its partners, shareholders, agents, employees, or by the Contractor's breach of this Contract. Contractor waives any immunity that may be granted to it under the Washington State Industrial Insurance Act, Title 51 RCW. Contractor's indemnification shall not be limited in any way by any limitation on the amount of damages, compensation or benefits payable to or by any third party under workers' compensation acts, disability benefit acts or any other benefits acts or programs.

8.2 City Indemnification. The City agrees to indemnify, defend, and hold the Contractor, its officers, directors, shareholders, partners, employees, and agents harmless from any and all claims, demands, losses, actions and liabilities (including costs and attorney fees) to or by any and all persons or entities, including without limitation, their respective agents, licenses, or representatives, arising from, resulting from or connected with this Contract to the extent solely caused by the negligent acts, errors, or omissions of the City, its employees or agents.

8.3 Survival. The provisions of this Section shall survive the expiration or termination of this Contract with respect to any event occurring prior to such expiration or termination.

9. INSURANCE

9.1 Minimum Limits. The Contractor agrees to carry as a minimum, the following insurance, in such forms and with such carriers who have a rating which is satisfactory to the City:

- (1) Workers' compensation and employer's liability insurance in amounts sufficient pursuant to the laws of the State of Washington;
- (2) Commercial general liability insurance with combined single limits of liability not less than \$5,000,000 for bodily injury, including personal injury or death, products liability and property damage.
- (3) Automobile liability insurance with combined single limits of liability not less than \$2,000,000 for bodily injury, including personal injury or death and property damage.

9.2 Endorsements. Each insurance policy shall contain, or be endorsed to contain, the following provisions:

- (1) The City, its officers, officials, employees, volunteers and agents shall each be named as additional insured.
- (2) Coverage may not be terminated or reduced in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, to the City.
- (3) Coverage shall be primary and non-contributory insurance as respects the City, its officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its officials, employees or volunteers shall be in excess of Contractor's insurance.
- (4) Coverage shall apply to each insured separately against whom claim is made or suit is brought.

(5) Coverage shall be written on an "occurrence" form as opposed to a "claims made" or "claims paid" form.

9.3 Verification. Contractor shall furnish the City with certificates of insurance evidencing the coverage required by the Section, in compliance with the Certificate(s) of Insurance Form attached hereto as Exhibit "F," which certificate must be executed by a person authorized by the insurer to bind coverage on its behalf. The City reserves the right to require complete certified copies of all required insurance policies, at any time.

9.4 Subcontractors. Contractors shall include all subcontractors as additional insured under its policies or shall furnish separate certificates for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein.

9.5 Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be disclosed by Contractor and approved in writing by the City. At the option of the City, Contractor shall either reduce or eliminate such deductibles or self-insured retentions or procure a bond guaranteeing payment for any amounts not covered by the insurance by reason of such deductibles or self-insured retentions.

9.6 Asbestos Abatement or Hazardous Materials. If asbestos abatement or hazardous materials work is performed, Contractor shall review coverage with the City's Risk Manager and provide scope and limits of coverage that are appropriate for the scope of Work and are satisfactory to the City. Contractor shall not commence any Work until its coverage has been approved by the Risk Manager.

9.7 Termination. The Contractor's failure to provide the insurance coverage required by this Section shall be deemed to constitute non-acceptance of this Contract by the Contractor and the City may then award this Contract to the next lower bidder.

10. PERFORMANCE/PAYMENT BOND

Pursuant to RCW 39.08.010, Contractor shall post a Performance/Payment Bond in favor of the City, in the form attached to this Contract as Exhibit "G" and incorporated by this reference, in a dollar amount satisfactory to the City; to guarantee Contractor's performance of the Work to the City's satisfaction; to insure Contractor's performance of all of the provisions of this Contract; and to guarantee Contractor's payment of all laborers, mechanics, subcontractors and material persons. Contractor's obligations under this Contract shall not be limited to the dollar amount of the bond.

11. SAFETY

Contractor shall take all necessary precautions for the safety of employees on the work site and shall comply with all applicable provisions of federal, state and municipal safety and health laws and codes, including without limitation, all OSHA/WISHA requirements, Safety and Health Standards for Construction Work (Chapter 296-155 WAC), General Safety and Health Standards (Chapter 296-24 WAC), and General Occupational Health Standards (Chapter 296-62 WAC). Contractor shall erect and properly maintain, at all times, all necessary guards, barricades, signals and other safeguards at all unsafe places at or near the Work for the protection of its employees and the public, safe passageways at all road crossings, crosswalks, street intersections, post danger signs warning against any known or unusual hazards and do all other things necessary to prevent accident or loss of any kind. Contractor shall protect from danger all water, sewer, gas, steam or other pipes or conduits, and all hydrants and all other property that is likely to become displaced or

damaged by the execution of the Work. The Contractor shall, at its own expense, secure and maintain a safe storage place for its materials and equipment and is solely responsible for the same.

12. PREVAILING WAGES

12.1 Wages of Employees. This contract is subject to the minimum wage requirements of Chapter 39.12 RCW and Chapter 49.28 RCW (as amended or supplemented). On Federal-aid projects, Federal wage laws and rules also apply. The Hourly minimum rates for wages and fringe benefits are listed in Appendix B. When Federal wage and fringe benefit rates are listed, the rates match those identified by the U.S. Department of Labor's "Decision Number" shown in Appendix B.

The Contractor, any subcontractor, and all individuals or firms required by Chapter 39.12 RCW, Chapter 296-127 WAC, or the Federal Davis-Bacon and Related Acts (DBRA) to pay minimum prevailing wages, shall not pay any worker less than the minimum hourly wage rates and fringe benefits required by Chapter 39.12 RCW or the DBRA. Higher wages and benefits may be paid.

When the project is subject to both State and Federal hourly minimum rates for wages and fringe benefits and when the two rates differ for similar kinds of labor, the Contractor shall not pay less than the higher rate unless the state rates are specifically preempted by Federal law.

The Contractor shall ensure that any firm (Supplier, Manufacturer, or Fabricator) that falls under the provisions of Chapter 39.12 RCW because of the definition "Contractor" in Chapter 296-127-010 WAC, complies with all the requirements of Chapter 39.12 RCW.

12.2 Exemptions to Prevailing Wage. The prevailing wage requirements of Chapter 39.12 RCW, and as required in this Contract do not apply to:

- (1) Sole owners and their spouses;
- (2) Any partner who owns at least 30% of a partnership;
- (3) The President, Vice President and Treasurer of a corporation if each one owns at least 30% of the corporation.

12.3 Reporting Requirements. On forms provided by the Industrial Statistician of State L&I, the Contractor shall submit to the Engineer the following for itself and for each firm covered under Chapter 39.12 RCW that provided work and materials of the contract:

- (1) A copy of an approved "Statement of Intent to Pay Prevailing Wages" State L&I form number F700-029-000. The City will make no payment under this contract for the work performed until this statement has been approved by State L&I and a certified copy of the approved form has been submitted to the City.
- (2) A copy of an approved "Affidavit of Prevailing Wages Paid," State L&I form number F700-007-000. The City will not release to the contractor any funds retained under Chapter 60.28.011 RCW until all of the "Affidavit of Prevailing Wages Paid" forms have been approved by State L&I and a certified copy of all the approved forms have been submitted to the City.

The Contractor shall be responsible for requesting these forms from the State L&I and for paying any approval fees required by State L&I.

Certified payrolls are required to be submitted by the Contractor to the City, for the Contractor and all subcontractors or lower tier subcontractors.

12.4 Disputes. In the event any dispute arises as to what are the prevailing rates of wages for work of a similar nature and such dispute cannot be resolved by the City and the Contractor, the matter shall be referred for arbitration to the Director of the Department of Labor and Industries of the State of Washington and the decision therein shall be final and conclusive and binding on all parties involved in the dispute.

13. FAILURE TO PAY SUBCONTRACTORS

In the event the Contractor shall fail to pay any subcontractors or laborers, fail to pay for any materials, or fail to pay any insurance premiums, the City may terminate this Contract and/or the City may withhold from the money which may be due the Contractor an amount necessary for the payment of such subcontractors, laborers, materials or premiums.

14. OWNERSHIP OF DOCUMENTS

All originals and copies of work product, including plans, sketches, layouts, designs, design specifications, records, files, computer disks, magnetic media, all finished or unfinished documents or material which may be produced or modified by Contractor while performing the Work shall become the property of the City and shall be delivered to the City at its request.

15. CONFIDENTIALITY

Any records, reports, information, data or other documents or materials given to or prepared or assembled by the Contractor under this Contract will be kept as confidential and shall not be made available to any individual or organization by the Contractor without prior written approval of the City.

16. BOOKS AND RECORDS

The Contractor agrees to maintain books, records, and documents which sufficiently and properly reflect all direct and indirect costs related to the performance of this Contract and such accounting procedures and practices as may be deemed necessary by the City to assure proper accounting of all funds paid pursuant to this Contract. These records shall be subject at all reasonable times to inspection, review or audit by the City, its authorized representative, the State Auditor, or other governmental officials authorized by law to monitor this Contract.

17. CLEAN UP

At any time ordered by the City and immediately after completion of the Work, the Contractor shall, at its own expense, clean up and remove all refuse and unused materials of any kind resulting from the Work. In the event the Contractor fails to perform the necessary clean up, the City may, but in no event is it obligated to, perform the necessary clean up and the costs thereof shall be immediately paid by the Contractor to the City and/or the City may deduct its costs from any remaining payments due to the Contractor.

18. CONTRACTOR AND SUBCONTRACTOR RESPONSIBILITY:

18.1 Contractor Verification. The Contractor verifies that it has a certificate of registration with the State of Washington; has a current state unified business identifier number; is not disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3); has industrial insurance as required by Title 51 RCW, if applicable; has an employment security department number as required in Title 50 RCW, if applicable; has a state excise tax registration number as required in Title 82 RCW, if applicable; possesses a valid electrical contractor license as required by Chapter 19.28 RCW, if applicable; and possesses an elevator contractor license as required by Chapter 70.87 RCW, if applicable.

18.2 Subcontractor Contracts. The Contractor shall include the language of this section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this section apply to all subcontractors regardless of tier.

18.3 Subcontractor Verification. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria: Have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal; Have a current Washington Unified Business Identifier (UBI) number; Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3); Have Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RCW, if applicable; A Washington Employment Security Department number, as required in Title 50 RCW, if applicable; A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW, if applicable; An electrical contractor license, if required by Chapter 19.28 RCW, if applicable; An elevator contractor license, if required by Chapter 70.87 RCW.

19. GENERAL PROVISIONS

19.1 Entire Contract. The Contract Documents contain all of the agreements of the Parties with respect to any matter covered or mentioned in this Contract and no prior agreements or understandings pertaining to any such matters shall be effective for any purpose.

19.2 Modification. No provisions of this Contract, including this provision, may be amended or added to except by agreement in writing signed by the Parties or their respective successors in interest.

19.3 Full Force and Effect. Any provision of this Contract, which is declared invalid, void or illegal, shall in no way affect, impair, or invalidate any other provision hereof and such other provisions shall remain in full force and effect.

19.4 Assignment. The Contractor shall not transfer or assign, in whole or in part, any or all of its obligations and rights hereunder without the prior written consent of the City. In the event the City consents to any such assignment or transfer, such consent shall in no way release the Contractor from any of its obligations or liabilities under this Contract.

19.5 Successors In Interest. Subject to the preceding Subsection, this Contract shall be binding upon and inure to the benefit of the Parties' successors in interest, heirs and assigns.

19.6 Attorney Fees. In the event the City or the Contractor defaults on the performance of any terms in this Contract, and the Contractor or City places the enforcement of the Contract or any part thereof, or the collection of any monies due, or to become due hereunder, or recovery of possession of any belongings, in the hands of an attorney, or file suit upon the same, each Party shall pay all its own attorneys' fees, costs and expenses. The venue for any dispute related to this Contract shall be King County, Washington.

19.7 No Waiver. Failure of the City to declare any breach or default immediately upon occurrence thereof, or delay in taking any action in connection with, shall not waive such breach or default. Failure of the City to declare one breach or default does not act as a waiver of the City's right to declare another breach or default.

19.8 Governing Law. This Contract shall be made in and shall be governed by and interpreted in accordance with the laws of the State of Washington.

19.9 Authority. Each individual executing this Contract on behalf of the City and Contractor represents and warrants that such individuals are duly authorized to execute and deliver this Contract on behalf of the Contractor or City.

19.10 Notices. Any notices required to be given by the City to Contractor or by the Contractor to the City shall be delivered to the Parties at the addresses set forth below. Any notices may be delivered personally to the addressee of the notice, emailed to the contact listed above, or may be deposited in the United States mail, postage prepaid, to the address set forth herein. Any notice so posted in the United States mail shall be deemed received three (3) days after the date of mailing.

19.11 Captions. The respective captions of the Sections of this Contract are inserted for convenience of reference only and shall not be deemed to modify or otherwise affect in any respect any of the provisions of this Contract.

19.12 Performance. Time is of the essence of this Contract and each and all of its provisions in which performance is a factor. Adherence to completion dates is essential to the Contractor's performance of this Contract.

19.13 Compliance with Ethics Code. If a violation of the City's Ethics Resolution No. 91-54, as amended, occurs as a result of the formation and/or performance of this Contract, this Contract may be rendered null and void, at the City's option.

19.14 Conflicting Provisions. In the event of a conflict between the terms and provisions of any of the Contract Documents, the Mayor or his or her designee shall issue an interpretation of the controlling document, which interpretation shall be final and binding.

DATED the day and year set forth above.

CITY OF FEDERAL WAY:

By: _____
Jim Ferrell, Mayor
33325 8th Avenue South
Federal Way, WA 98003-6325

ATTEST:

Stephanie Courtney, CMC, City Clerk

APPROVED AS TO FORM:

J. Ryan Call, City Attorney

[CONTRACTOR'S NAME]:

By: _____
(Signature)

(Name)

(Address)

(Phone)

STAFF SELECT APPROPRIATE NOTARY BLOCK FOR APPLICANT

[Individual Notary]

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

On this day personally appeared before me, _____, to me known to be the individual described in and who executed the foregoing instrument, and on oath

swore that he/she/they executed the foregoing instrument as his/her/their free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN my hand and official seal this _____ day of _____, 20__.

(typed/printed name of notary)

Notary Public in and for the State of Washington.

My commission expires _____

[Corporate Notary]

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

On this day personally appeared before me _____, to me known to be the _____ of _____ that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he/she was authorized to execute said instrument and that the seal affixed, if any, is the corporate seal of said corporation.

GIVEN my hand and official seal this _____ day of _____, 20__.

(typed/printed name of notary)

Notary Public in and for the State of Washington.

My commission expires _____

EXHIBIT A NOTICE OF COMPLETION OF PUBLIC WORKS CONTRACT



Original
 Revised # _____

NOTICE OF COMPLETION OF PUBLIC WORKS CONTRACT

Date: _____ Contractor's UBI Number: _____

Name & Mailing Address of Public Agency	Department Use Only
UBI Number: _____	Assigned to: _____ Date Assigned: _____

Notice is hereby given relative to the completion of contract or project described below

Project Name	Contract Number	Job Order Contracting <input type="checkbox"/> Yes <input type="checkbox"/> No
Description of Work Done/Include Jobsite Address(es)		
Federally funded transportation project? <input type="checkbox"/> Yes <input type="checkbox"/> No (if yes, provide Contract Bond Statement below)		
Contractor's Name	E-mail Address	Affidavit ID*
Contractor Address		Telephone #
If Retainage is not withheld, please select one of the following and List Surety's Name & Bond Number. <input type="checkbox"/> Retainage Bond <input type="checkbox"/> Contract/Payment bond (valid for federally funded transportation projects)		
Name:		Bond Number:
Date Contract Awarded	Date Work Commenced	Date Work Completed
		Date Work Accepted
Were Subcontractors used on this project? If so, please complete Addendum A. <input type="checkbox"/> Yes <input type="checkbox"/> No		
Affidavit ID* - No L&I release will be granted until all affidavits are listed.		

Contract Amount	\$ _____		Liquidated Damages \$ _____
Additions (+)	\$ _____		Amount Disbursed \$ _____
Reductions (-)	\$ _____		Amount Retained \$ _____
Sub-Total	\$ <u>0.00</u>		
Sales Tax Rate _____%			
<small>(If various rates apply, please send a breakdown)</small>			
Sales Tax Amount	\$ _____		
TOTAL	\$ <u>0.00</u>		TOTAL \$ <u>0.00</u>

NOTE: These two totals must be equal

Comments:

Note: The Disbursing Officer must submit this completed notice immediately after acceptance of the work done under this contract.

NO PAYMENT SHALL BE MADE FROM RETAINED FUNDS until receipt of all release certificates.

Submitting Form: Please submit the completed form by email to all three agencies below.

Contact Name: _____ Title: _____
Email Address: _____ Phone Number: _____



REV 31 0020e (10/26/15) F215-038-000 10-2014

**EXHIBIT B
CITY OF FEDERAL WAY
CONTRACT CHANGE ORDER AGREEMENT**

PROJECT NUMBER

CHANGE ORDER NUMBER

EFFECTIVE DATE

PROJECT TITLE

CONTRACTOR

SUMMARY OF PROPOSED CHANGES:

The time provided for completion in the Contract is Unchanged Increased Decreased by ____ Calendar Days. This Document shall become an Amendment to the Contract and all provisions of the Contract not amended herein will apply to this Change Order.

Will this change affect expiration or extent of Insurance coverage?
If "Yes" Will the Policies Be Extended?

Yes No
 Yes No

PRICE CHANGE

LUMP SUM: INCREASE \$
UNIT PRICE:

DECREASE \$

THE ITEMS ARE APPROXIMATE OR ESTIMATED QUANTITIES INVOLVED IN THIS CHANGE

ITEM NO.	ITEM	QTY.	UNIT PRICE	ADD OR DELETE
_____	_____	_____	_____	_____

TOTAL NET CONTRACT:

INCREASE \$ _____

DECREASE \$ _____

STATEMENT:

Payment for the above work will be in accordance with applicable portions of the standard specifications, and with the understanding that all materials, workmanship and measurements shall be in accordance with the provisions of the standard specifications, the contract plans, and the special provisions governing the types of construction. The execution of this Change Order shall constitute full satisfaction and a waiver of any and all claims by the Contractor arising out of, or relating in any way to, the Work identified, to be performed, or deleted pursuant to this Change Order except as specifically described in this Change Order.

DEPARTMENT RECAP TO DATE:

ORIGINAL CONTRACT AMOUNT	\$ _____
PREVIOUS CHANGE ORDERS	\$ _____
THIS CHANGE ORDER	\$ _____
*ADJUSTMENTS	\$ _____
NEW CONTRACT AMOUNT	\$ _____

CONTRACTOR'S SIGNATURE

DATE

DIRECTOR'S SIGNATURE

DATE

ADJUSTMENTS

CHANGE ORDER ESTIMATE IS HEREBY INCREASED \$ _____
 DECREASED \$ _____
PAY THIS ADJUSTED AMOUNT: \$ _____

DIRECTOR'S SIGNATURE

DATE

**EXHIBIT C
CONTRACTOR'S RETAINAGE OPTION**

IDENTIFICATION AND DESCRIPTION

Project Title: _____

RFB No: _____

Contractor: _____

GENERAL REQUIREMENTS

1. In accordance with applicable State Statutes, a contract retainage not to exceed five percent of the moneys earned by the contractor will be reserved by the City.
2. All investments selected are subject to City approval.
3. The final disposition of the contract retainage will be made in accordance with applicable State Statutes.

CONTRACTOR'S INSTRUCTIONS

Pursuant to RCW 60.28.011 I hereby notify the City of Federal Way of my instructions for the retainage withheld under the terms of this contract:

- Option 1: Retained in a fund by the City of Federal Way. No interest will be paid to the contractor.
- Option 2: Deposited in an interest bearing account in a bank, mutual savings bank, or savings and loan association. Interest paid to the contractor. Contractor shall have the bank (or other) execute a separate "City of Federal Way Retainage Bank Acceptance Agreement" upon contract award. The City will provide the agreement to the Contractor if this option is selected.
- Option 3: Placed in escrow with a bank or trust company. Contractor shall execute, and have escrow account holder execute a separate "City of Federal Way Construction Retainage Escrow Agreement" upon contract award. The City will provide the agreement to the Contractor if this option is selected. All investments are subject to City approval. The cost of the investment program, and risk thereof, is to be borne entirely by the contractor.
- Option 4: Contractor shall submit a "Retainage Bond" on City-provided form (Exhibit D of this Agreement).

Contractor Signature

Date

EXHIBIT D
RETAINAGE BOND TO CITY OF FEDERAL WAY
2019 ASPHALT OVERLAY PROJECT

KNOW ALL PERSONS BY THESE PRESENTS that we, the undersigned, _____, as principal ("Principal"), and _____, a Corporation organized and existing under the laws of the State of _____, as a surety Corporation, and qualified under the laws of the State of Washington to become surety upon bonds of Contractors with Municipal Corporations, as surety ("Surety"), are jointly and severally held and firmly bonded to the City of Federal Way ("City") in the penal sum of: _____ (\$ _____) for the payment of which sum we bind ourselves and our successors, heirs, administrators or personal representatives, as the case may be.

A. This obligation is entered into in pursuant to the statutes of the State of Washington and the ordinances, regulations, standards and policies of the City, as now existing or hereafter amended or adopted.

B. Pursuant to proper authorization, the Mayor is authorized to enter into a certain contract with the Principal, providing for the _____ Project, which contract is incorporated herein by this reference ("Contract"), and

C. Pursuant to State law, Chapter 60.28 RCW, the City is required to reserve from the monies earned by the Principal pursuant to the contract, a sum not to exceed five percent (5%), said sum to be retained by the City as a trust fund for the protection and payment of any person or persons, mechanic, subcontractor or material men who shall perform any labor upon such contract or the doing of such work, and all persons who shall supply such person or persons or subcontractors with provisions and supplies for the carrying on of such work, and the State with the respect to taxes imposed pursuant to Title 82 RCW which may be due from said Principal. Every person performing labor or furnishing supplies towards completion of said improvement or work shall have a lien on said monies so reserved, provided that such notice of the lien of such claimant shall be given in the manner and within the time provided in RCW 39.08.030 as now existing and in accordance with any amendments that may hereafter be provided thereto; and

D. State law further provides that with the consent of the City, the Principal may submit a bond for all or any portion of the amount of funds retained by the public body in a form acceptable to the public body conditioned upon such bond any proceeds therefrom being made subject to all claims and liens and in the same manner and priority as set forth retained percentages pursuant to Chapter 60.28 RCW; and

E. The Principal has accepted, or is about to accept, the Contract, and undertake to perform the work therein provided for in the manner and within the time set forth, for the amount of \$ _____; and

F. The City is prepared to release any required retainage money previously paid by the Principal prior to acceptance and successful operation and fulfillment of all other terms of said contract upon being indemnified by these presents,

NOW, THEREFORE, if the Principal shall perform all the provisions of the Contract in the manner and within the time period prescribed by the City, or within such extensions of time as may be granted under the Contract, and shall pay all laborers, mechanics, subcontractors and material men or women, and all persons who shall supply the Principal or subcontractors with provisions and supplies for the carrying on of said work, and if the Principal shall pay to the State all taxes imposed pursuant to Title 82 RCW which may be due from such Principal as a result of this contract then and in the event this obligation shall be void; but otherwise it shall be and remain in full force and effect.

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

The Surety hereby agrees that modifications and changes may be made in the terms and provisions of the Contract without notice to Surety, and any such modifications or changes increasing the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this Retainage Bond in a like amount, such increase, however, not to exceed twenty-five percent (25%) of the original amount of this bond without consent of the Surety.

Within forty-five (45) days of receiving notice that the Principal has defaulted on all or part of the terms of the Contract, the Surety shall make written commitment to the City that it will either: (a) cure the default itself within a reasonable time period, or (b) tender to the City, the amount necessary for the City to remedy the default, including legal fees incurred by the City, or (c) in the event that Surety's evaluation of the dispute is not complete or in the event the Surety disputes the City's claim of default, the Surety shall notify the City of its finding and its intent, if any, to interplead. The Surety shall then fulfill its obligations under this bond, according to the option it has elected. Should Surety elect option (a) to cure the default, the penal sum of the Bond shall be reduced in an amount equal to the costs actually incurred by the Surety in curing the default. If the Surety elects option (b), then upon completion of the necessary work, the City shall notify the Surety of its actual costs. The City shall return, without interest, any overpayment made by the Surety and the Surety shall pay to the City any actual costs which exceed the City estimate, limited to the bond amount. Should the Surety elect option (c), the Parties shall first complete participation in mediation, described in the below paragraph, prior to any interplead action.

In the event a dispute should arise between the Parties to this Bond with respect to the City's declaration of default by the Principal, the Parties agree to participate in at least four hours of mediation to resolve said dispute. The Parties shall proportionately share in the cost of the mediation. The mediation shall be administered by Judicial Dispute Resolution, LLC, 1425 Fourth Avenue, Suite 300, Seattle, Washington 98101. The Surety shall not interplead prior to completion of the mediation.

The parties have executed this instrument under their separate seals this ____ day of _____, 20____, the name and corporate seal of each corporate party hereto affixed, and these presents duly signed by its undersigned representatives pursuant to authority of its governing body.

CORPORATE SEAL:

PRINCIPAL

By: _____

Title: _____

Address: _____

CORPORATE SEAL:

SURETY

By: _____

Attorney-in-Fact
(Attach Power of Attorney)

Title: _____

Address: _____

CERTIFICATES AS TO CORPORATE SEAL

I hereby certify that I am the (Assistant) Secretary of the Corporation named as Principal in the within bond; that _____, who signed the said bond on behalf of the Principal, was _____ of said Corporation; that I know his or her signature thereto is genuine, and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

Secretary or Assistant Secretary

I hereby certify that I am the (Assistant) Secretary of the Corporation named as Surety in the within bond; that _____, who signed the said bond on behalf of the Surety, was _____ of the said Corporation; that I know his or her signature thereto is genuine, and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

Secretary or Assistant Secretary

APPROVED AS TO FORM:

J. Ryan Call, City Attorney

EXHIBIT E
NOTICE TO LABOR UNIONS OR OTHER EMPLOYMENT ORGANIZATIONS
NONDISCRIMINATION IN EMPLOYMENT

TO: ALL EMPLOYEES
AND TO: _____
(Name of Union or Organization)

The undersigned currently holds contract(s) with _____ involving funds or credit of the City of Federal Way, Washington, or (a) subcontract(s) with a prime contractor holding such contract(s).

You are advised that, under the provisions of the above contract(s) or subcontract(s) and in accordance with Section 202 of Executive Order 11246 dated September 24, 1965, the undersigned is obliged not to discriminate against any employee or applicant of employment because of race, color, creed or national origin. This obligation not to discriminate in employment includes, but is not limited to, the following:

EMPLOYMENT, UPGRADING, TRANSFER OR DEMOTION

RECRUITMENT AND ADVERTISING

RATES OF PAY OR OTHER FORMS OF COMPENSATION

SELECTION FOR TRAINING INCLUDING APPRENTICESHIP, LAYOFF OR TERMINATION

This notice is furnished to you pursuant to the provisions of the above contract(s) or subcontractor(s) and Executive Order 11246.

Copies of this Notice will be posted by the undersigned in conspicuous places available to employees or applicants for employment.

Complaints may be submitted to: Jeff Huynh
City of Federal Way
33325 8th Avenue South
Federal Way, WA 98003

(Contractor or subcontractor)

Date

**EXHIBIT F
CERTIFICATE OF INSURANCE**

**EXHIBIT G
CITY OF FEDERAL WAY
PERFORMANCE/PAYMENT BOND**

KNOW ALL PEOPLE BY THESE PRESENTS:

We, the undersigned _____, ("Principal") and _____, the undersigned corporation organized and existing under the laws of the State of _____ and legally doing business in the State of Washington as a surety ("Surety"), are held and firmly bonded unto the City of Federal Way, a Washington municipal corporation ("City") in the penal sum of _____ Dollars and no/100 (\$_____) for the payment of which we firmly bind ourselves and our legal representatives, heirs, successors and assigns, jointly and severally.

This obligation is entered into pursuant to the statutes of the State of Washington and the ordinances, regulations, standards and policies of the City, as now existing or hereafter amended or adopted.

The Principal has entered into an Agreement with the City dated _____, 20__ for _____.

NOW, THEREFORE, if the Principal shall perform all the provisions of the Agreement in the manner and within the time period prescribed by the City, or within such extensions of time as may be granted under the Agreement, and shall pay all laborers, mechanics, subcontractors and material men or women, and all persons who shall supply the Principal or subcontractors with provisions and supplies for the carrying on of said work, and shall hold the City, their officials, agents, employees and volunteers harmless from any loss or damage occasioned to any person or property by reason of any carelessness or negligence on the part of the Principal, or any subcontractor in the performance of said work, and shall indemnify and hold the City harmless from any damage or expense by reason of failure of performance as specified in the Agreement within a period of one (1) year after its final acceptance thereof by the City, then and in the event this obligation shall be void; but otherwise, it shall be and remain in full force and effect.

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

The Surety hereby agrees that modifications and changes may be made in terms and provisions of the Agreement without notice to Surety, and any such modifications or changes increasing the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this Performance Bond in a like amount, such increase, however, not to exceed twenty-five percent (25%) of the original amount of this bond without the consent of the Surety.

Within forty-five (45) days of receiving notice that the Principal has defaulted on all or part of the terms of the Agreement, the Surety shall make a written commitment to the City that it will either: (a) cure the default itself within a reasonable time period, or (b) tender to the city, the amount necessary for the City to remedy the default, including legal fees incurred by the City, or (c) in the event that Surety's evaluation of the dispute is not complete or in the event the Surety disputes the City's claim of default, the Surety shall notify the City of its finding and its intent, if any, to interplead. The Surety shall then fulfill its obligations under this bond, according to the option it has elected. Should Surety elect option (a) to cure the default, the penal sum of the Bond shall be reduced in an amount equal to the costs actually incurred by the Surety in curing the default. If the Surety elects option (b), then upon completion of the necessary work, the City shall notify the Surety of its actual costs. The City shall return, without interest, any overpayment made by the Surety and the Surety shall pay to the City any actual costs which exceed the City estimate, limited to the bond amount. Should the

Surety elect option (c), the Parties shall first complete participation in mediation, described in the below paragraph, prior to any interplead action.

In the event a dispute should arise between the Parties to this Bond with respect to the City's declaration of default by the Principal, the Parties agree to participate in at least four hours of mediation to resolve said dispute. The Parties shall proportionately share in the cost of the mediation. The mediation shall be administered by Judicial Dispute Resolution, LLC, 1425 Fourth Avenue, Suite 300, Seattle, Washington 98101. The Surety shall not interplead prior to completion of the mediation.

DATED this ___ day of _____, 20__.

CORPORATE SEAL OF PRINCIPAL:

PRINCIPAL

By: _____
(Name of Person Executing Bond)

Its: _____
(Title)

(Address)

(Phone)

CERTIFICATE AS TO CORPORATE SEAL

I hereby certify that I am the (Assistant) Secretary of the Corporation named as Principal in the within bond; that _____, who signed the said bond on behalf of the Principal, was _____ of the said Corporation; that I know his or her signature thereto is genuine, and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

Secretary of Assistant Secretary

[For LLC's with one officer only, use the notary block below and DELETE Certificate of Corporate Seal]

STATE OF WASHINGTON)
) ss.
COUNTY OF _____)

On this day personally appeared before me _____, to me known to be the _____ of _____ that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said limited liability company, for the uses and purposes therein mentioned, and on oath stated that he/she was authorized to execute said instrument.

GIVEN my hand and official seal this _____ day of _____, 20__.

Notary's signature _____
Notary's printed name _____
Notary Public in and for the State of Washington.
My commission expires _____

CORPORATE SEAL OF SURETY:

SURETY

By: _____
Attorney-in-Fact
(Attach Power of Attorney)

(Name of Person Executing Bond)

(Address)

(Phone)

APPROVED AS TO FORM:

J. Ryan Call, City Attorney

EXHIBIT H
TITLE VI ASSURANCES

During the performance of this contract, the contractor/consultant, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations

The contractor shall comply with the Regulations relative to non-discrimination in federally assisted programs of United States Department of Transportation (USDOT), Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

2. Non-discrimination

The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, sex, or national origin in the selection and retention of sub-contractors, including procurement of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

3. Solicitations for Sub-contracts, Including Procurement of Materials and Equipment

In all solicitations either by competitive bidding or negotiations made by the contractor for work to be performed under a sub-contract, including procurement of materials or leases of equipment, each potential sub-contractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to non-discrimination on the grounds of race, color, sex, or national origin.

4. Information and Reports

The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the contracting agency or the appropriate federal agency to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to WSDOT or the USDOT as appropriate, and shall set forth what efforts it has made to obtain the information.

5. Sanctions for Non-compliance

In the event of the contractor's non-compliance with the non-discrimination provisions of this contract, the contracting agency shall impose such contract sanctions as it or the USDOT may determine to be appropriate, including, but not limited to: Withholding of payments to the contractor under the contract until the contractor complies, and/or; Cancellation, termination, or suspension of the contract, in whole or in part

6. Incorporation of Provisions

The contractor shall include the provisions of paragraphs (1) through (5) in every sub-contract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any sub-contractor or procurement as the contracting agency or USDOT may direct as a means of enforcing such provisions including sanctions for non-compliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a sub-contractor or supplier as a result of such direction, the contractor may request WSDOT enter into such litigation to protect the interests of the state and, in addition, the contractor may request the USDOT enter into such litigation to protect the interests of the United States.

**AMENDMENTS TO THE
STANDARD SPECIFICATIONS**

INTRO.AP1
INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the 2018 Standard Specifications for Road, Bridge, and Municipal Construction.

AMENDMENTS TO THE STANDARD SPECIFICATIONS

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

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

1-01.AP1
**Section 1-01, Definitions and Terms
August 6, 2018**

1-01.3 Definitions

The following new term and definition is inserted before the definition for “Shoulder”:

Sensitive Area – Natural features, which may be previously altered by human activity, that are present on or adjacent to the project location and protected, managed, or regulated by local, tribal, state, or federal agencies.

The following new term and definition is inserted after the definition for “Working Drawings”:

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

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

1-02.AP1
**Section 1-02, Bid Procedures and Conditions
October 30, 2018**

1-02.4(1) General

This section is supplemented with the following:

Prospective Bidders are advised that the Contracting Agency may include a partially completed Washington State Department of Ecology (Ecology) Transfer of Coverage (Ecology Form ECY 020-87a) for the Construction Stormwater General Permit (CSWGP)

as part of the Bid Documents. When the Contracting Agency requires the transfer of coverage of the CSWGP to the Contractor, an informational copy of the Transfer of Coverage and the associated CSWGP will be included in the appendices. As a condition of Section 1-03.3, the Contractor is required to complete sections I, III, and VIII of the Transfer of Coverage and return the form to the Contracting Agency.

The Contracting Agency is responsible for compliance with the CSWGP until the end of day that the Contract is executed. Beginning on the day after the Contract is executed, the Contractor shall assume complete legal responsibility for compliance with the CSWGP and full implementation of all conditions of the CSWGP as they apply to the Contract Work.

1-02.5 Proposal Forms

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

At the request of a Bidder, the Contracting Agency will provide a physical Proposal Form for any project on which the Bidder is eligible to Bid.

1-02.6 Preparation of Proposal

Item number 1 of the second paragraph is revised to read:

1. A unit price for each item (omitting digits more than two places to the right of the decimal point),

In the third sentence of the fourth paragraph, "WSDOT Form 422-031" is revised to read "WSDOT Form 422-031U".

The following new paragraph is inserted before the last paragraph:

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form (WSDOT Form 272-009). Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

1-03.AP1

Section 1-03, Award and Execution of Contract January 2, 2018

1-03.3 Execution of Contract

The first paragraph is revised to read:

Within 20 calendar days after the Award date, the successful Bidder shall return the signed Contracting Agency-prepared Contract, an insurance certification as required by Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the Transfer of Coverage form for the Construction Stormwater General Permit with sections I, III, and VIII completed when provided, and shall be registered as a contractor in the state of Washington.

1-03.5 Failure to Execute Contract

The first sentence is revised to read:

Failure to return the insurance certification and bond with the signed Contract as required in Section 1-03.3, or failure to provide Disadvantaged, Minority or Women's Business Enterprise information if required in the Contract, or failure or refusal to sign the Contract, or failure to register as a contractor in the state of Washington, or failure to return the completed Transfer of Coverage for the Construction Stormwater General Permit to the Contracting Agency when provided shall result in forfeiture of the proposal bond or deposit of this Bidder.

1-05.AP1

Section 1-05, Control of Work August 6, 2018

1-05.5 Vacant

This section, including title, is revised to read:

1-05.5 Tolerances

Geometrical tolerances shall be measured from the points, lines, and surfaces defined in Contract documents.

A plus (+) tolerance increases the amount or dimension to which it applies, or raises a deviation from level. A minus (-) tolerance decreases the amount or dimension to which it applies, or lowers a deviation from level. Where only one signed tolerance is specified (+ or -), there is no specified tolerance in the opposing direction.

Tolerances shall not be cumulative. The most restrictive tolerance shall control.

Tolerances shall not extend the Work beyond the Right of Way or other legal boundaries identified in the Contract documents. If application of tolerances causes the extension of the Work beyond the Right of Way or legal boundaries, the tolerance shall be reduced for that specific instance.

Tolerances shall not violate other Contract requirements. If application of tolerances causes the Work to violate other Contract requirements, the tolerance shall be reduced for that specific instance. If application of tolerances causes conflicts with other components or aspects of the Work, the tolerance shall be reduced for that specific instance.

1-05.9 Equipment

The following new paragraph is inserted before the first paragraph:

Prior to mobilizing equipment on site, the Contractor shall thoroughly remove all loose dirt and vegetative debris from drive mechanisms, wheels, tires, tracks, buckets and undercarriage. The Engineer will reject equipment from the site until it returns clean.

This section is supplemented with the following:

Upon completion of the Work, the Contractor shall completely remove all loose dirt and vegetative debris from equipment before removing it from the job site.

1-06.AP1

**Section 1-06, Control of Material
October 30, 2018**

1-06.1(3) Aggregate Source Approval (ASA) Database

This section is supplemented with the following:

Regardless of status of the source, whether listed or not listed in the ASA database the source owner may be asked to provide testing results for toxicity in accordance with Section 9-03.21(1).

1-06.2(2)D Quality Level Analysis

This section is supplemented with the following new subsection:

1-06.2(2)D5 Quality Level Calculation – HMA Compaction

The procedures for determining the quality level and pay factor for HMA compaction are as follows:

1. Determine the arithmetic mean, X_m , for compaction of the lot:

$$X_m = \frac{\sum x}{n}$$

Where:

x = individual compaction test values for each subplot in the lot.
 $\sum x$ = summation of individual compaction test values
 n = total number test values

2. Compute the sample standard deviation, “S”, for each constituent:

$$S = \left[\frac{n \sum x^2 - (\sum x)^2}{n(n-1)} \right]^{\frac{1}{2}}$$

Where:

$\sum x^2$ = summation of the squares of individual compaction test values
 $(\sum x)^2$ = summation of the individual compaction test values squared

3. Compute the lower quality index (Q_L):

$$Q_L = \frac{X_m - LSL}{S}$$

Where:

LSL = 91.5

4. Determine P_L (the percent within the lower Specification limit which corresponds to a given Q_L) from Table 1. For negative values of Q_L , P_L is equal to 100 minus the table P_L . If the value of Q_L does not correspond exactly to a figure in the table, use the next higher value.
5. Determine the quality level (the total percent within Specification limits):

Quality Level = P_L
6. Using the quality level from step 5, determine the composite pay factor (CPF) from Table 2.
7. If the CPF determined from step 6 is 1.00 or greater: use that CPF for the compaction lot; however, the maximum HMA compaction CPF using an LSL = 91.5 shall be 1.05.
8. If the CPF from step 6 is not 1.00 or greater: repeat steps 3 through 6 using an LSL = 91.0. The value thus determined shall be the HMA compaction CPF for that lot; however, the maximum HMA compaction CPF using an LSL = 91.00 shall be 1.00.

1-06.2(2)D4 Quality Level Calculation

The first paragraph (excluding the numbered list) is revised to read:

The procedures for determining the quality level and pay factors for a material, other than HMA compaction, are as follows:

1-06.6 Recycled Materials

The first three sentences of the second paragraph is revised to read:

The Contractor shall submit a Recycled Material Utilization Plan on WSDOT Form 350-075A within 30 calendar days after the Contract is executed. The plan shall provide the Contractor's anticipated usage of recycled concrete aggregates for meeting the requirements of these Specifications. The quantity of recycled concrete aggregate will be provided in tons and as a percentage of the Plan quantity for eligible material listed in Section 9-03.21(1)E Table on Maximum Allowable percent (By Weight) of Recycled Material.

The last paragraph is revised to read:

Within 30 calendar days after Physical Completion, the Contractor shall report the quantity of recycled concrete aggregates that were utilized in the construction of the project for each eligible item listed in Section 9-03.21(1)E. The Contractor's report shall be provided on WSDOT Form 350-075A, Recycled Materials Reporting.

1-06.6(1)A General

Item 1(a) in the second paragraph is revised to read:

- a. The estimated costs for the Work for each material with 25 percent recycled concrete aggregate. The cost estimate shall include for each material a documented price quote from the supplier with the lowest total cost for the Work.

1-07.AP1

Section 1-07, Legal Relations and Responsibilities to the Public August 6, 2018

1-07.5 Environmental Regulations

This section is supplemented with the following new subsections:

1-07.5(5) U.S. Army Corps of Engineers

When temporary fills are permitted, the Contractor shall remove fills in their entirety and the affected areas returned to pre-construction elevations.

If a U.S. Army Corps of Engineers permit is noted in Section 1-07.6 of the Special Provisions, the Contractor shall retain a copy of the permit or the verification letter (in the case of a Nationwide Permit) on the worksite for the life of the Contract. The Contractor shall provide copies of the permit or verification letter to all subcontractors involved with the authorized work prior to their commencement of any work in waters of the U.S.

1-07.5(6) U.S. Fish/Wildlife Services and National Marine Fisheries Service

The Contracting Agency will provide fish exclusion and handling services if the Work dictates. However, if the Contractor discovers any fish stranded by the project and a Contracting Agency biologist is not available, they shall immediately release the fish into a flowing stream or open water.

1-07.5(1) General

The first sentence is deleted and replaced with the following:

No Work shall occur within areas under the jurisdiction of resource agencies unless authorized in the Contract.

The third paragraph is deleted.

1-07.5(2) State Department of Fish and Wildlife

This section is revised to read:

In doing the Work, the Contractor shall:

1. Not degrade water in a way that would harm fish, wildlife, or their habitat.
2. Not place materials below or remove them from the ordinary high water line except as may be specified in the Contract.
3. Not allow equipment to enter waters of the State except as specified in the Contract.

4. Revegetate in accordance with the Plans, unless the Special Provisions permit otherwise.
5. Prevent any fish-threatening silt buildup on the bed or bottom of any body of water.
6. Ensure continuous stream flow downstream of the Work area.
7. Dispose of any project debris by removal, burning, or placement above high-water flows.
8. Immediately notify the Engineer and stop all work causing impacts, if at any time, as a result of project activities, fish are observed in distress or a fish kill occurs.

If the Work in (1) through (3) above differs little from what the Contract requires, the Contracting Agency will measure and pay for it at unit Contract prices. But if Contract items do not cover those areas, the Contracting Agency will pay pursuant to Section 1-09.4. Work in (4) through (8) above shall be incidental to Contract pay items.

1-07.5(3) State Department of Ecology

This section is revised to read:

In doing the Work, the Contractor shall:

1. Comply with Washington State Water Quality Standards.
2. Perform Work in such a manner that all materials and substances not specifically identified in the Contract documents to be placed in the water do not enter waters of the State, including wetlands. These include, but are not limited to, petroleum products, hydraulic fluid, fresh concrete, concrete wastewater, process wastewater, slurry materials and waste from shaft drilling, sediments, sediment-laden water, chemicals, paint, solvents, or other toxic or deleterious materials.
3. Use equipment that is free of external petroleum-based products.
4. Remove accumulations of soil and debris from drive mechanisms (wheels, tracks, tires) and undercarriage of equipment prior to using equipment below the ordinary high water line.
5. Clean loose dirt and debris from all materials placed below the ordinary high water line. No materials shall be placed below the ordinary high water line without the Engineer's concurrence.
6. When a violation of the Construction Stormwater General Permit (CSWGP) occurs, immediately notify the Engineer and fill out WSDOT Form 422-011, Contractor ECAP Report, and submit the form to the Engineer within 48 hours of the violation.
7. Once Physical Completion has been given, prepare a Notice of Termination (Ecology Form ECY 020-87) and submit the Notice of Termination electronically to

the Engineer in a PDF format a minimum of 7 calendar days prior to submitting the Notice of Termination to Ecology.

8. Transfer the CSWGP coverage to the Contracting Agency when Physical Completion has been given and the Engineer has determined that the project site is not stabilized from erosion.
9. Submit copies of all correspondence with Ecology electronically to the Engineer in a PDF format within four calendar days.

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 Presumed Asbestos-Containing Material (PACM), the Contractor shall comply with the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Any requirements included in Federal and State regulations regarding air quality that applies to the "owner or operator" shall be the responsibility of the Contractor.

1-07.7(1) General

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

When the Contractor moves equipment or materials on or over Structures, culverts or pipes, the Contractor may operate equipment with only the load-limit restrictions in Section 1-07.7(2).

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

Unit prices shall cover all costs for operating over Structures, culverts and pipes.

1-07.9(1) General

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

Generally, the Contractor initiates the request by preparing standard form 1444 Request for Authorization of Additional Classification and Rate, available at <https://www.dol.gov/whd/recovery/dbsurvey/conformance.htm>, and submitting it to the Engineer for further action.

1-07.9(2) Posting Notices

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

The Contractor shall ensure the most current edition of the following are posted:

In items 1 through 10, the revision dates are deleted.

1-07.11(2) Contractual Requirements

In this section, "creed" is revised to read "religion".

Item numbers 1 through 9 are revised to read 2 through 10, respectively.

After the preceding Amendment is applied, the following new item number 1 is inserted:

1. The Contractor shall maintain a Work site that is free of harassment, humiliation, fear, hostility and intimidation at all times. Behaviors that violate this requirement include but are not limited to:
 - a. Persistent conduct that is offensive and unwelcome.
 - b. Conduct that is considered to be hazing.
 - c. Jokes about race, gender, or sexuality that are offensive.
 - d. Unwelcome, unwanted, rude or offensive conduct or advances of a sexual nature which interferes with a person's ability to perform their job or creates an intimidating, hostile, or offensive work environment.
 - e. Language or conduct that is offensive, threatening, intimidating or hostile based on race, gender, or sexual orientation.
 - f. Repeating rumors about individuals in the Work Site that are considered to be harassing or harmful to the individual's reputation.

1-07.11(5) Sanctions

This section is supplemented with the following:

Immediately upon the Engineer's request, the Contractor shall remove from the Work site any employee engaging in behaviors that promote harassment, humiliation, fear or intimidation including but not limited to those described in these specifications.

1-07.11(6) Incorporation of Provisions

The first sentence is revised to read:

The Contractor shall include the provisions of Section 1-07.11(2) Contractual Requirements (1) through (5) and the Section 1-07.11(5) Sanctions in every subcontract including procurement of materials and leases of equipment.

1-07.15(1) Spill Prevention, Control, and Countermeasures Plan

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

An SPCC Plan template and guidance information is available at <http://www.wsdot.wa.gov/environment/technical/disciplines/hazardous-materials/spill-prevent-report>.

1-07.18 Public Liability and Property Damage Insurance

Item number 1 is supplemented with the following new sentence:

This policy shall be kept in force from the execution date of the Contract until the Physical Completion Date.

1-08.AP1

Section 1-08, Prosecution and Progress August 6, 2018

1-08.1 Subcontracting

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

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

1-08.5 Time for Completion

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

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

1-08.7 Maintenance During Suspension

The fifth paragraph is revised to read:

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

1-09.AP1

Section 1-09, Measurement and Payment August 6, 2018

1-09.2(1) General Requirements for Weighing Equipment

The last paragraph is supplemented with the following:

When requested by the Engineer, the Contractor's representative shall collect the tickets throughout the day and provide them to the Engineer's designated receiver, not later than the end of shift, for reconciliation. Tickets for loads not verified as delivered will receive no pay.

1-09.2(2) Specific Requirements for Batching Scales

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

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

2-02.AP2

Section 2-02, Removal of Structures and Obstructions April 2, 2018

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

In item number 3 of the first paragraph, the second sentence is revised to read:

For concrete pavement removal, a second vertical full depth relief saw cut offset 12 to 18 inches from and parallel to the initial saw cut is also required, unless the Engineer allows otherwise.

2-09.AP2

Section 2-09, Structure Excavation April 2, 2018

2-09.2 Materials

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

Cement	9-01
Fine Aggregate for Concrete	9-03.1(2)

2-09.3(3)D Shoring and Cofferdams

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

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

3-01.AP3

Section 3-01, Production from Quarry and Pit Sites April 2, 2018

3-01.1 Description

The first paragraph is revised to read:

This Work shall consist of manufacturing and producing crushed and screened aggregates including pit run aggregates of the kind, quality, and grading specified for use in the construction of concrete, hot mix asphalt, crushed surfacing, maintenance rock, ballast, gravel base, gravel backfill, gravel borrow, riprap, and bituminous surface treatments of all descriptions.

4-04.AP4

**Section 4-04, Ballast and Crushed Surfacing
April 2, 2018**

4-04.3(5) Shaping and Compaction

This section is supplemented with the following new paragraph:

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

5-01.AP5

**Section 5-01, Cement Concrete Pavement Rehabilitation
August 6, 2018**

5-01.2 Materials

The section reference for Concrete Patching Material is revised to read “9-20.1”.

5-01.3(1)A1 Concrete Patching Materials

In this section, each reference to “9-20” is revised to read “9-20.1”.

5-01.3(4) Replace Cement Concrete Panel

The last sentence of the fourth to last paragraph is revised to read:

If the replacement panel is located in an area that will be ground as part of concrete pavement grinding in accordance with Section 5-01.3(9), the surface smoothness shall be measured, by the Contractor, in conjunction with the smoothness measurement done in accordance with Section 5-01.3(10).

5-04.AP5

**Section 5-04, Hot Mix Asphalt
April 2, 2018**

5-04.1 Description

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

The manufacture of HMA may include additives or processes that reduce the optimum mixing temperature (Warm Mix Asphalt) or serve as a compaction aid in accordance with these Specifications.

5-04.2 Materials

The reference to “Warm Mix Asphalt Additive” is revised to read “HMA Additive”.

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

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

- Do not include HMA additives that reduce the optimum mixing temperature or serve as a compaction aid when developing a mix design or submitting a mix design for QPL evaluation. The use of HMA additives is not part of the process for obtaining approval for listing a mix design on the QPL. Refer to Section 5-04.2(2)B.

In the table, “WSDOT Standard Practice QC-8” is revised to read “WSDOT Standard Practice QC-8 located in the WSDOT Materials Manual M 46-01”.

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

Item number 3 of the first paragraph is revised to read:

3. Changes in modifiers used in the asphalt binder.

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

This section, including title, is revised to read:

5-04.2(2)B Using HMA Additives

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

- Do not use additives that reduce the mixing temperature in accordance with Section 5-04.3(6) in the production of High RAP/Any RAS mixtures.
- Before using additives, obtain the Engineer’s approval using WSDOT Form 350-076 to describe the proposed additive and process.

5-04.3(3)A Mixing Plant

In item number 5 of the first paragraph, “WSDOT T 168” is revised to read “FOP for AASHTO T 168”.

5-04.3(4) Preparation of Existing Paved Surfaces

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

Unless otherwise allowed by the Engineer, use cationic emulsified asphalt CSS-1, CSS-1h, or Performance Graded (PG) asphalt for tack coat.

5-04.3(6) Mixing

The first paragraph is revised to read:

The asphalt supplier shall introduce recycling agent and anti-stripping additive, in the amount designated on the QPL for the mix design, into the asphalt binder prior to shipment to the asphalt mixing plant.

The seventh paragraph is revised to read:

Upon discharge from the mixer, ensure that the temperature of the HMA does not exceed the optimum mixing temperature shown on the accepted Mix Design Report by more than 25°F, or as allowed by the Engineer. When an additive is included in the manufacture of HMA, do not heat the additive (at any stage of production including in binder storage tanks) to a temperature higher than the maximum recommended by the manufacturer of the additive.

5-04.3(7) Spreading and Finishing

The last row of the table is revised to read:

3/8 inch	0.25 feet	0.30 feet
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5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA

The following new paragraph is inserted after the first paragraph:

The Contracting Agency’s combined aggregate bulk specific gravity (Gsb) blend as shown on the HMA Mix Design will be used for VMA calculations until the Contractor submits a written request for a Gsb test. The new Gsb will be used in the VMA calculations for HMA from the date the Engineer receives the written request for a Gsb retest. The Contractor may request aggregate specific gravity (Gsb) testing be performed by the Contracting Agency twice per project. The Gsb blend of the combined stockpiles will be used to calculate voids in mineral aggregate (VMA) of any HMA produced after the new Gsb is determined.

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

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

VMA	Minimum PF _i of 0.95 based on the criteria in Section 5-04.3(9)B4 ²	None ⁴
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5-04.3(9)A2 Test Section – Evaluating the HMA Mixture in a Test Section

In Table 9a, the test property “Gradation, Asphalt Binder, and V_a” is revised to read “Gradation, Asphalt Binder, VMA, and V_a”

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

In Table 11, “V_a” is revised to read “VMA and V_a”

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

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

Voids in Mineral Aggregate (VMA)	2
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5-04.3(9)B7 Mixture Statistical Evaluation – Retests

The second to last sentence is revised to read:

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 = 91.0, 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.

Calculating HMA Compaction Price Adjustment (CPA)	
Value of CPF	Equation for Calculating CPA
When CPF > 1.00	$CPA = [0.80 \times (CPF - 1.00)] \times Q \times UP$
When CPF = 1.00	CPA = \$0
When CPF < 1.0	$CPA = [0.40 \times (CPF - 1.00)] \times Q \times UP$

Where

CPA = Compaction Price Adjustment for the compaction lot (\$)

CPF = Composite Pay Factor for the compaction lot (maximum is 1.05)

Q = Quantity in the compaction lot (tons)

UP = Unit price of the HMA in the compaction lot (\$/ton)

5-04.3(13) Surface Smoothness

The second to last paragraph is revised to read:

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

5-04.5 Payment

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

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

5-05.AP5

Section 5-05, Cement Concrete Pavement August 6, 2018

5-05.1 Description

In the first paragraph, “portland cement concrete” is revised to read “cement concrete”.

5-05.2 Materials

In the first paragraph, the reference to “Portland Cement” is revised to read:

Cement	9-01
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In the first paragraph, the section reference for Concrete Patching Material is revised to read “9-20.1”.

5-05.3(1) Concrete Mix Design for Paving

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

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

5-05.3(4) Measuring and Batching Materials

Item number 2 is revised to read:

2. **Batching Materials** – On all projects requiring more than 2,500 cubic yards of concrete for paving, the batching plant shall be equipped to proportion aggregates and cement by weight by means of automatic and interlocked proportioning devices of accepted type.

7-05.AP7

Section 7-05, Manholes, Inlets, Catch Basins, and Drywells August 6, 2018

7-05.3 Construction Requirements

The fourth sentence of the third paragraph is deleted.

7-08.AP7

**Section 7-08, General Pipe Installation Requirements
April 2, 2018**

7-08.3(3) Backfilling

The fifth sentence of the fourth paragraph is revised to read:

All compaction shall be in accordance with the Compaction Control Test of Section 2-03.3(14)D except in the case that 100% Recycled Concrete Aggregate is used.

The following new sentences are inserted after the fifth sentence of the fourth paragraph:

When 100% Recycled Concrete Aggregate is used, the Contractor may submit a written request to use a test point evaluation for compaction acceptance. Test Point evaluation shall be performed in accordance with SOP 738.

8-01.AP8

**Section 8-01, Erosion Control and Water Pollution Control
April 2, 2018**

8-01.1 Description

This section is revised to read:

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

The Contracting Agency may have a National Pollution Discharge Elimination System Construction Stormwater General Permit (CSWGP) as identified in the Contract Special Provisions. The Contracting Agency may or may not transfer coverage of the CSWGP to the Contractor when a CSWGP has been obtained. The Contracting Agency may not have a CSWGP for the project but may have another water quality related permit as identified in the Contract Special Provisions or the Contracting Agency may not have water quality related permits but the project is subject to applicable laws for the Work. Section 8-01 covers all of these conditions.

8-01.2 Materials

The first paragraph is revised to read:

Materials shall meet the requirements of the following sections:

Corrugated Polyethylene Drain Pipe	9-05.1(6)
Quarry Spalls	9-13
Erosion Control and Roadside Planting	9-14
Construction Geotextile	9-33

8-01.3(1) General

This section is revised to read:

Adaptive management shall be employed throughout the duration of the project for the implementation of erosion and water pollution control permit requirements for the current condition of the project site. The adaptive management includes the selection and utilization of BMPs, scheduling of activities, prohibiting unacceptable practices, implementing maintenance procedures, and other managerial practices that when used singularly or in combination, prevent or reduce the release of pollutants to waters of the State. The adaptive management shall use the means and methods identified in this section and means and methods identified in the Washington State Department of Transportation's Temporary Erosion and Sediment Control Manual or the Washington State Department of Ecology's Stormwater Management Manuals for construction stormwater.

The Contractor shall install a high visibility fence along the site preservation lines shown in the Plans or as instructed by the Engineer.

Throughout the life of the project, the Contractor shall preserve and protect the delineated preservation area, acting immediately to repair or restore any fencing damaged or removed.

All discharges to surface waters shall comply with surface water quality standards as defined in Washington Administrative Code (WAC) Chapter 173-201A. All discharges to the ground shall comply with groundwater quality standards WAC Chapter 173-200.

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:

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

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

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

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

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

Western Washington (West of the Cascade Mountain Crest)	
October 1 through April 30	2 days maximum
May 1 to September 30	7 days maximum

Eastern Washington (East of the Cascade Mountain Crest)	
October 1 through June 30	5 days maximum
November 1 through March 31	10 days maximum

When applicable, the Contractor shall be responsible for all Work required for compliance with the CSWGP including annual permit fees.

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

Nothing in this Section shall relieve the Contractor from complying with other Contract requirements.

8-01.3(1)A Submittals

This section's content is deleted.

This section is supplemented with the following new subsection:

8-01.3(1)A1 Temporary Erosion and Sediment Control

A Temporary Erosion and Sediment Control (TESC) plan consists of a narrative section and plan sheets that meets the Washington State Department of Ecology's Stormwater Pollution Prevention Plan (SWPPP) requirement in the CSWGP. Abbreviated TESC plans are not required to include plan sheets and are used on small projects that disturb soil and have the potential to discharge but are not covered by the CSWGP. The contract uses the term "TESC plan" to describe both TESC plans and abbreviated TESC plans. When the Contracting Agency has developed a TESC plan for a Contract, the narrative is included in

the appendix to the Special Provisions and the TESC plan sheets, when required, are included in the Contract Plans. The Contracting Agency TESC plan will not include off-site areas used to directly support construction activity.

The Contractor shall either adopt the TESC Plan in the Contract or develop a new TESC Plan. If the Contractor adopts the Contracting Agency TESC Plan, the Contractor shall modify the TESC Plan to meet the Contractor's schedule, method of construction, and to include off-site areas that will be used to directly support construction activity such as equipment staging yards, material storage areas, or borrow areas. Contractor TESC Plans shall include all high visibility fence delineation shown on the Contracting Agency Contract Plans. All TESC Plans shall meet the requirements of the current edition of the WSDOT Temporary Erosion and Sediment Control Manual M 3109 and be adaptively managed as needed throughout construction based on site inspections and discharge samples to maintain compliance with the CSWGP. The Contractor shall develop a schedule for implementation of the TESC work and incorporate it into the Contractor's progress schedule.

The Contractor shall submit their TESC Plan (either the adopted plan or new plan) and implementation schedule as Type 2 Working Drawings. At the request of the Engineer, updated TESC Plans shall be submitted as Type 1 Working Drawings.

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

This section is revised to read:

The Contractor shall identify the ESC Lead at the preconstruction discussions and in the TESC Plan. The ESC Lead shall have, for the life of the Contract, a current Certificate of Training in Construction Site Erosion and Sediment Control from a course approved by the Washington State Department of Ecology. The ESC Lead must be onsite or on call at all times throughout construction. The ESC Lead shall be listed on the Emergency Contact List required under Section 1-05.13(1).

The ESC Lead shall implement the TESC Plan. Implementation shall include, but is not limited to:

1. Installing, adaptively managing, and maintaining temporary erosion and sediment control BMPs to assure continued performance of their intended function. Damaged or inadequate BMPs shall be corrected immediately.
2. Updating the TESC Plan to reflect current field conditions.
3. Discharge sampling and submitting Discharge Monitoring Reports (DMRs) to the Washington State Department of Ecology in accordance with the CSWGP.
4. Develop and maintain the Site Log Book as defined in the CSWGP. When the Site Log Book or portion thereof is electronically developed, the electronic documentation must be accessible onsite. As a part of the Site Log Book, the Contractor shall develop and maintain a tracking table to show that identified TESC compliance issues are fully resolved within 10 calendar days. The table shall include the date an issue was identified, a description of how it was resolved, and the date the issue was fully resolved.

The ESC Lead shall also inspect all areas disturbed by construction activities, all on-site erosion and sediment control BMPs, and all stormwater discharge points at least once every calendar week and within 24-hours of runoff events in which stormwater discharges from the site. Inspections of temporarily stabilized, inactive sites may be reduced to once every calendar month. The Washington State Department of Ecology's Erosion and Sediment Control Site Inspection Form, located at <https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Construction-stormwater-permit>, shall be completed for each inspection and a copy shall be submitted to the Engineer no later than the end of the next working day following the inspection.

8-01.3(1)C Water Management

This section is supplemented with the following new subsections:

8-01.3(1)C5 Water Management for In-Water Work Below Ordinary High Water Mark (OHWM)

Work over surface waters of the state (defined in WAC 173-201A-010) or below the OHWM (defined in RCW 90.58.030) must comply with water quality standards for surface waters of the state of Washington.

8-01.3(1)C6 Environmentally Acceptable Hydraulic Fluid

All equipment containing hydraulic fluid that extends from a bridge deck over surface waters of the state or below the OHWM, shall be equipped with an environmentally acceptable hydraulic fluid. The fluid shall meet specific requirements for biodegradability, aquatic toxicity, and bioaccumulation in accordance with the United States Environmental Protection Agency (EPA) publication EPA800-R-11-002. Acceptance shall be in accordance with Section 1-06.3, Manufacturer's Certification of Compliance.

The designation of environmentally acceptable hydraulic fluid does not mean fluid spills are acceptable. The Contractor shall respond to spills to land or water in accordance with the Contract.

8-01.3(1)C7 Turbidity Curtain

All Work for the turbidity curtain shall be in accordance with the manufacturer's recommendations for the site conditions. Removal procedures shall be developed and used to minimize silt release and disturbance of silt. The Contractor shall submit a Type 2 Working Drawing, detailing product information, installation and removal procedures, equipment and workforce needs, maintenance plans, and emergency repair/replacement plans.

Turbidity curtain materials, installation, and maintenance shall be sufficient to comply with water quality standards.

The Contractor shall notify the Engineer 10 days in advance of removing the turbidity curtain. All components of the turbidity curtain shall be removed from the project.

8-01.3(1)C1 Disposal of Dewatering Water

This section is revised to read:

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

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

8-01.3(1)C2 Process Wastewater

This section is revised to read:

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

8-01.3(1)C4 Management of Off-Site Water

This section is revised to read:

Prior to clearing and grubbing, the Contractor shall intercept all sources of off-site surface water and overland flow that will run-on to the project. Off-site surface water run-on shall be diverted through or around the project in a way that does not introduce construction related pollution. It shall be diverted to its preconstruction discharge location in a manner that does not increase preconstruction flow rate and velocity and protects contiguous properties and waterways from erosion. The Contractor shall submit a Type 2 Working Drawing consisting of the method for performing this Work.

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

In the table, the second column heading is revised to read:

**Eastern Washington¹
(East of the Cascade Mountain Crest)**

Footnote 1 in the table is revised to read:

Seeding may be allowed outside these dates when allowed or directed by the Engineer.

8-01.3(5) Plastic Covering

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

Erosion Control – Plastic coverings used to temporarily cover stockpiled materials, slopes or bare soils shall be installed and maintained in a way that prevents water from intruding under the plastic and prevents the plastic cover from being damaged by wind.

8-01.3(7) Stabilized Construction Entrance

The first paragraph is revised to read:

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

8-01.3(8) Street Cleaning

This section is revised to read:

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

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

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

8-01.3(12) Compost Socks

The first two sentences of the first paragraph are revised to read:

Compost socks are used to disperse flow and sediment. Compost socks shall be installed as soon as construction will allow but before flow conditions create erosive flows or discharges from the site. Compost socks shall be installed prior to any mulching or compost placement.

8-01.3(13) Temporary Curb

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

Temporary curbs shall be a minimum of 4 inches in height.

8-01.3(15) Maintenance

This section is revised to read:

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

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

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

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

Unless otherwise specified, when the depth of accumulated sediment and debris reaches approximately $\frac{1}{3}$ the height of the BMP the deposits shall be removed. Debris or contaminated sediment shall be disposed of in accordance with Section 2-03.3(7)C. Clean sediments may be stabilized on-site using BMPs as allowed by the Engineer.

8-01.3(16) Removal

This section is revised to read:

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

The Contractor shall remove BMPs and associated hardware in a way that minimizes soil disturbance. The Contractor shall permanently stabilize all bare and disturbed soil after removal of BMPs. If the installation and use of the erosion control BMPs have compacted or otherwise rendered the soil inhospitable to plant growth, such as construction entrances, the Contractor shall take measures to rehabilitate the soil to facilitate plant growth. This may include, but is not limited to, ripping the soil, incorporating soil amendments, or seeding with the specified seed.

At the request of the Contractor and at the sole discretion of the Engineer the CSWGP may be transferred back to the Contracting Agency. Approval of the Transfer of Coverage request will require the following:

1. All other Work required for Contract Completion has been completed.
2. All Work required for compliance with the CSWGP has been completed to the maximum extent possible. This includes removal of BMPs that are no longer needed and the site has undergone all Stabilization identified for meeting the requirements of Final Stabilization in the CSWGP.
3. An Equitable Adjustment change order for the cost of Work that has not been completed by the Contractor.
4. Submittal of the Washington State Department of Ecology Transfer of Coverage form (Ecology form ECY 020-87a) to the Engineer.

If the Engineer approves the transfer of coverage back to the Contracting Agency, the requirement in Section 1-07.5(3) for the Contractor's submittal of the Notice of Termination form to the Washington State Department of Ecology will not apply.

8-01.4 Measurement

This section's content is deleted and replaced with the following new subsections:

8-01.4(1) Lump Sum Bid for Project (No Unit Items)

When the Bid Proposal contains the item "Erosion Control and Water Pollution Prevention" there will be no measurement of unit or force account items for Work defined in Section 8-01 except as described in Sections 8-01.4(3) and 8-01.4(4). Also, except as described in Section 8-01.4(3), all of Sections 8-01.4(2) and 8-01.5(2) are deleted.

8-01.4(2) Item Bids

When the Proposal does not contain the items "Erosion Control and Water Pollution Prevention", Section 8-01.4(1) and 8-01.5(1) are deleted and the Bid Proposal will contain some or all of the following items measured as noted.

ESC lead will be measured per day for each day that an inspection is made and a report is filed.

Biodegradable erosion control blanket and plastic covering will be measured by the square yard along the ground slope line of surface area covered and accepted.

Turbidity curtains will be measured by the linear foot along the ground line of the installed curtain.

Check dams will be measured per linear foot one time only along the ground line of the completed check dam. No additional measurement will be made for check dams that are required to be rehabilitated or replaced due to wear.

Stabilized construction entrances will be measured by the square yard by ground slope measurement for each entrance constructed.

Tire wash facilities will be measured per each for each tire wash installed.

Street cleaning will be measured by the hour for the actual time spent cleaning pavement, refilling with water, dumping and transport to and from cleaning locations within the project limits, as authorized by the Engineer. Time to mobilize the equipment to or from the project limits on which street cleaning is required will not be measured.

Inlet protections will be measured per each for each initial installation at a drainage structure.

Silt fence, gravel filter, compost berms, and wood chip berms will be measured by the linear foot along the ground line of the completed barrier.

Wattles and compost socks will be measured by the linear foot.

Temporary curbs will be measured by the linear foot along the ground line of the completed installation.

Temporary pipe slope drains will be measured by the linear foot along the flow line of the pipe.

Coir logs will be measured by the linear foot along the ground line of the completed installation.

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

Tackifiers will be measure by the acre by ground slope measurement.

8-01.4(3) Reinstating Unit Items with Lump Sum Erosion Control and Water Pollution Prevention

The Contract Provisions may establish the project as lump sum, in accordance with Section 8-01.4(1) and also include one or more of the items included above in Section 8-01.4(2). When that occurs, the corresponding measurement provision in Section 8-01.4(2) is not deleted and the Work under that item will be measured as specified.

8-01.4(4) Items not included with Lump Sum Erosion Control and Water Pollution Prevention

Compost blanket will be measured by the square yard by ground slope surface area covered and accepted.

Mulching will be measured by the acre by ground slope surface area covered and accepted.

Seeding, fertilizing, liming, mulching, and mowing, will be measured by the acre by ground slope measurement.

Seeding and fertilizing by hand will be measured by the square yard by ground slope measurement. No adjustment in area size will be made for the vegetation free zone around each plant.

Fencing will be measured by the linear foot along the ground line of the completed fence.

8-01.5 Payment

This section's content is deleted and replaced with the following new subsections:

8-01.5(1) Lump Sum Bid for Project (No Unit Items)

Payment will be made for the following Bid item when it is included in the Proposal:

“Erosion Control and Water Pollution Prevention”, lump sum.

The lump sum Contract price for “Erosion Control and Water Pollution Prevention” shall be full pay to perform the Work as described in Section 8-01 except for costs compensated by Bid Proposal items inserted through Contract Provisions as described in Section 8-01.4(2). Progress payments for the lump sum item “Erosion Control and Water Pollution Prevention” will be made as follows:

1. The Contracting Agency will pay 15 percent of the bid amount for the initial set up for the item. Initial set up includes the following:
 - a. Acceptance of the TESC Plan provided by the Contracting Agency or submittal of a new TESC Plan,
 - b. Submittal of a schedule for the installation of the BMPs, and

- c. Identifying water quality sampling locations.
2. 70 percent of the bid amount will be paid in accordance with Section 1-09.9.
3. Once the project is physically complete and copies of the all reports submitted to the Washington State Department of Ecology have been submitted to the Engineer, and, if applicable, transference of the CSWGP back to the Contracting Agency is complete, the remaining 15 percent of the bid amount shall be paid in accordance with Section 1-09.9.

8-01.5(2) Item Bids

“ESC Lead”, per day.

“Turbidity Curtain”, per linear foot.

“Biodegradable Erosion Control Blanket”, per square yard.

“Plastic Covering”, per square yard.

“Check Dam”, per linear foot.

“Inlet Protection”, per each.

“Gravel Filter Berm”, per linear foot.

“Stabilized Construction Entrance”, per square yard.

“Street Cleaning”, per hour.

“Silt Fence”, per linear foot.

“Wood Chip Berm”, per linear foot.

“Compost Berm”, per linear foot.

“Wattle”, per linear foot.

“Compost Sock”, per linear foot.

“Coir Log”, per linear foot.

“Temporary Curb”, per linear foot.

“Temporary Pipe Slope Drain”, per linear foot.

“Temporary Seeding”, per acre.

“Outlet Protection”, per each.

“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.

8-02.AP8

**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.

8-04.AP8

**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:

Cement 9-01

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

The first paragraph is supplemented with the following:

Roundabout truck apron cement concrete curb and gutter shall be constructed with air entrained concrete Class 4000 conforming to the requirements of Section 6-02.

8-06.AP8

Section 8-06, Cement Concrete Driveway Entrances April 2, 2018

8-06.2 Materials

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

Cement 9-01

8-06.3 Construction Requirements

The first paragraph is revised to read:

Cement concrete driveway approaches shall be constructed with air entrained concrete Class 4000 conforming to the requirements of Section 6-02 or Portland Cement or Blended Hydraulic Cement Concrete Pavement conforming to the requirements of Section 5-05.

8-07.AP8

Section 8-07, Precast Traffic Curb April 2, 2018

8-07.3(1) Installing Curbs

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

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

The fourth paragraph is revised to read:

All joints between adjacent pieces of curb except joints for expansion and/or drainage as designated by the Engineer shall be filled with mortar composed of one part Portland cement or blended hydraulic cement and two parts sand.

8-11.AP8

Section 8-11, Guardrail August 6, 2018

8-11.3(1)C Terminal and Anchor Installation

The first paragraph is revised to read:

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

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

Assembly and installation of Beam Guardrail Non-flared Terminals for Type 31 guardrail shall be supervised at all times by a manufacturer's representative, or an installer who has been trained and certified by the manufacturer.

The last paragraph is revised to read:

Beam Guardrail Non-flared Terminals for Type 31 guardrail shall meet the crash test and evaluation criteria in the Manual for Assessing Safety Hardware (MASH).

8-11.4 Measurement

The third paragraph is revised to read:

Measurement of beam guardrail _____ terminal will be per each for the completed terminal.

The fourth paragraph is revised to read:

Measurement of beam guardrail Type 31 buried terminal Type 2 will be per linear foot for the completed terminal.

The sixth paragraph is revised to read:

Measurement of beam guardrail anchor Type 10 will be per each for the completed anchor, including the attachment of the anchor to the guardrail.

8-11.5 Payment

The Bid item "Beam Guardrail Anchor Type ____", per each is revised to read "Beam Guardrail Anchor Type 10", per each.

The Bid item "Beam Guardrail Buried Terminal Type 1", per each is deleted from this section.

The Bid item "Beam Guardrail Buried Terminal Type 2", per linear foot and the following paragraph are revised to read:

"Beam Guardrail Type 31 Buried Terminal Type 2", per linear foot.

The unit Contract price per linear foot for "Beam Guardrail Type 31 Buried Terminal Type 2" shall be full payment for all costs to obtain and provide materials and perform the Work as described in Section 8-11.3(1)C.

8-14.AP8

**Section 8-14, Cement Concrete Sidewalks
April 2, 2018**

8-14.2 Materials

In the first paragraph, the reference to “Portland Cement” is revised to read:

Cement 9-01

In the second paragraph, each reference to “Federal Standard 595” is revised to read “SAE AMS Standard 595”.

8-16.AP8

**Section 8-16, Concrete Slope Protection
April 2, 2018**

8-16.2 Materials

In the first paragraph, the last two material references are revised to read:

Poured Portland Cement or Blended Hydraulic Cement Concrete Slope Protection	9-13.5(2)
Pneumatically Placed Portland Cement or Blended Hydraulic Cement Concrete Slope Protection	9-13.5(3)

8-17.AP8

**Section 8-17, Impact Attenuator Systems
August 6, 2018**

8-17.3 Construction Requirements

This section is supplemented with the following:

Impact attenuators shall meet the crash test and evaluation criteria of NCHRP 350 or the Manual for Assessing Safety Hardware (MASH).

8-20.AP8

**Section 8-20, Illumination, Traffic Signal Systems, Intelligent Transportation
Systems, and Electrical
August 6, 2018**

8-20.1(1) Regulations and Code

The last paragraph is revised to read:

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

8-20.2(2) Equipment List and Drawings

This section is renumbered:

8-20.2(1) Equipment List and Drawings

8-20.3(4) Foundations

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

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

8-20.3(5)A General

The last two sentences of the last paragraph is deleted.

This section is supplemented with the following:

All conduits shall include a pull tape with the equipment grounding conductor. The pull tape shall be attached to the conduit near the end bell or grounded end bushing, or to duct plugs or caps if present, at both ends of the conduit.

8-20.3(8) Wiring

The seventeenth paragraph is supplemented with the following:

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

8-20.3(14)C Induction Loop Vehicle Detectors

Item number 2 is deleted.

Item numbers 3 through 12 are renumbered to 2 through 11, respectively.

8-21.AP8

Section 8-21, Permanent Signing January 2, 2018

8-21.3(9)F Foundations

Item number 3 of the twelfth paragraph is supplemented with the following new sentence:

Class 4000P concrete for roadside sign structures does not require air entrainment.

9-02.AP9

Section 9-02, Bituminous Materials April 2, 2018

9-02.1 Asphalt Material, General

The second paragraph is revised to read:

The Asphalt Supplier of Performance Graded (PG) asphalt binder and emulsified asphalt shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 2 "Standard Practice for Asphalt Suppliers That Certify Performance Graded and Emulsified Asphalts".

The Asphalt Supplier's QCP shall be submitted and receive the acceptance of the WSDOT State Materials Laboratory. Once accepted, any change to the QCP will require a new QCP to be submitted for acceptance. The Asphalt Supplier of PG asphalt binder and emulsified asphalt shall certify through the Bill of Lading that the PG asphalt binder or emulsified asphalt meets the Specification requirements of the Contract.

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

This section's title is revised to read:

Performance Graded (PG) Asphalt Binder

The first paragraph is revised to read:

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

The second paragraph, including the table, is revised to read:

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

		Additional Requirements by Performance Grade (PG) Asphalt Binders					
Property	Test Method	PG58S-22	PG58H-22	PG58V-22	PG64S-28	PG64H-28	PG64V-28
RTFO Residue: Average Percent Recovery @ 3.2 kPa	AASHTO T 350 ¹			30% Min.	20% Min.	25% Min.	30% Min.
¹ Specimen conditioned in accordance with AASHTO T 240 – RTFO.							

The third paragraph is revised to read:

The RTFO J_{nrdf} and the PAV direct tension specifications of AASHTO M 332 are not required.

This section is supplemented with the following:

If the asphalt binder verification sample test results fail to meet AASHTO Test Method T 350 "Standard Method of Test for Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)" for average percent recovery @ 3.2 kPa for the applicable grades of binder in accordance with Section 9-02.1(4), the Contracting

Agency may elect to test the sample using AASHTO Test Method T 301 “Standard Method of Test for Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer.”

When AASHTO T 301 is used, a minimum of 65% elastic recovery (ER) will be required when tested at 25 °C ± 0.5 °C.

9-02.1(6) Cationic Emulsified Asphalt

This section is revised to read:

Cationic Emulsified Asphalt meeting the requirements of AASHTO M 208 Table 1 of the grades specified in the Contract shall be used.

9-02.5 Warm Mix Asphalt (WMA) Additive

This section, including title, is revised to read:

9-02.5 HMA Additive

Additives for HMA shall be accepted by the Engineer.

9-03.AP9

Section 9-03, Aggregates

October 30, 2018

9-03.1 Aggregates for Portland Cement Concrete

This section’s title is revised to read:

Aggregates for Concrete

9-03.1(1) General Requirements

The first two sentences of the first paragraph are revised to read:

Concrete aggregates shall be manufactured from ledge rock, talus, or sand and gravel in accordance with the provisions of Section 3-01. Reclaimed aggregate may be used if it complies with the specifications for concrete.

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

Aggregates for concrete shall meet the following test requirements:

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

The Contractor shall submit test results according to ASTM C1567 through the Engineer to the State Materials Laboratory that demonstrate that the proposed fly ash when used with the proposed aggregates and cement will control the potential expansion to 0.20 percent or less before the fly ash and aggregate sources may be used in concrete.

9-03.1(2) Fine Aggregate for Portland Cement Concrete

This section’s title is revised to read:

Fine Aggregate for Concrete

9-03.1(4) Coarse Aggregate for Portland Cement Concrete

This section's title is revised to read:

Coarse Aggregate for Concrete

9-03.1(4)C Grading

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

Coarse aggregate for concrete when separated by means of laboratory sieves shall conform to one or more of the following gradings as called for elsewhere in these Specifications, Special Provisions, or in the Plans:

9-03.1(5) Combined Aggregate Gradation for Portland Cement Concrete

This section's title is revised to read:

Combined Aggregate Gradation for Concrete

9-03.1(5)B Grading

In the last paragraph, "WSDOT FOP for WAQTC/AASHTO T 27/T 11" is revised to read "FOP for WAQTC/AASHTO T 27/T 11".

9-03.2 Aggregate for Job-Mixed Portland Cement Mortar

This section's title is revised to read:

Aggregate for Job-Mixed Portland Cement or Blended Hydraulic Cement Mortar

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

Fine aggregate for portland cement or blended hydraulic cement mortar shall consist of sand or other inert materials, or combinations thereof, accepted by the Engineer, having hard, strong, durable particles free from adherent coating.

9-03.4(1) General Requirements

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

Aggregate for bituminous surface treatment shall be manufactured from ledge rock, talus, or gravel, in accordance with Section 3-01. Aggregates for Bituminous Surface Treatment shall meet the following test requirements:

9-03.8(1) General Requirements

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

Aggregates for Hot Mix Asphalt shall meet the following test requirements:

9-03.8(2) HMA Test Requirements

The two tables in the second paragraph are replaced with the following three tables:

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	
Voids Filled With Asphalt (VFA), %								
ESAL's (millions)	VFA							
< 0.3	70	80	70	80	70	80	67	80
0.3 to < 3	65	78	65	78	65	78	65	78
≥ 3	73	76	65	75	65	75	65	75
Dust/Asphalt Ratio	0.6	1.6	0.6	1.6	0.6	1.6	0.6	1.6

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	

	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

9-03.8(7) HMA Tolerances and Adjustments

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

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

Voids in Mineral Aggregate, VMA	-1.5%		
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9-03.9(1) Ballast

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

Aggregates for ballast shall meet the following test requirements:

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

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

The material shall be substantially free of shale or other soft, poor durability particles, and shall not contain recycled materials, such as glass, shredded tires, concrete rubble, or asphaltic concrete rubble.

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

This section is supplemented with the following new subsection:

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

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

Tier 1	
Approval Requirements	Approval of the Reclamation Facility is not required.
Acceptance Requirements	Certification of toxicity characteristics in accordance with Section 9-03.21(1). Field acceptance testing in accordance with Section 3-04.
Approved to provide the following Aggregate Materials:	
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	

Tier 2	
Approval Requirements	The Reclamation Facility shall have a Quality Control Plan (QCP) in accordance with WSDOT QC 9 “Standard Practice for Approval of Reclamation Facilities of WSDOT Recycled Concrete and Returned Concrete”. The Reclamation Facility’s QCP shall be submitted and approved by the WSDOT State Materials Laboratory. Once accepted, any changes to the QCP will require a new QCP to be submitted for acceptance. Evaluation of aggregate source properties (LA Wear and Degradation) for the recycled concrete aggregate is not required.
Acceptance Requirements	Certification of toxicity characteristics in accordance with Section 9-03.21(1), required if requested. Field acceptance testing in accordance with Section 3-04 is required. Provide certification in accordance with

	WSDOT QC 9 for every lot. A lot shall be no larger than 10,000 tons.
Approved to provide the following Aggregate Materials:	
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	

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

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 first column of the third row is revised to read:

Coarse Aggregate for Commercial Concrete and Class 3000 Concrete

9-04.AP9

Section 9-04, Joint and Crack Sealing Materials

April 2, 2018

9-04.1(2) Premolded Joint Filler for Expansion Joints

In this section, each reference to “AASHTO T 42” is revised to read “ASTM D 545”.

9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement

This section is supplemented with the following:

Hot poured sealant for cement concrete pavement is acceptable for installations in joints where cement concrete pavement abuts a bituminous pavement.

9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement

This section is supplemented with the following:

Hot poured sealant for bituminous pavement is acceptable for installations in joints where cement concrete pavement abuts a bituminous pavement.

9-04.2(1)B Sand Slurry for Bituminous Pavement

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

2. Two percent portland cement or blended hydraulic cement, and

9-04.3 Joint Mortar

The first paragraph is revised to read:

Mortar for hand mortared joints shall conform to Section 9-20.4(3) and consist of one part portland cement or blended hydraulic cement, three parts fine sand, and sufficient water to allow proper workability.

9-06.AP9

Section 9-06, Structural Steel and Related Materials

August 6, 2018

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

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 1-06.3. If the Engineer deems it appropriate, the Contractor shall provide a sample of the anchor bolt, anchor rod, nut, and washer for testing.

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

9-06.17 Vacant

This section, including title, is revised to read:

9-06.17 Noise Barrier Wall Access Door

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

Access doors shall be full flush 1-¾-inch thick seamless doors with a polystyrene core. Door faces shall be constructed with smooth seamless 14-gauge roller-levered, cold-rolled steel sheet conforming to ASTM A 792 Type SS, Grade 33 minimum, Coating Designation AZ55 minimum. The vertical edges shall be neat interlocked hemmed edge seam. The top and bottom of the door shall be enclosed with 14-gauge channels. Mortise and reinforcement for locks and hinges shall be 10-gauge steel. Welded top cap shall be ground and filled for exterior applications. The bottom channel shall have weep holes.

Each access door shall have three hinges. Access door hinges shall be ASTM A 276 Type 316 stainless steel, 4-½-inches square, with stainless steel ball bearing and non-removable pins.

Each access door shall have two pull plates. The pull plates shall be ASTM A 240 Type 316 stainless steel, with a grip handle of one-inch diameter and 8 to 10-inches in length.

The door assembly shall be fabricated and assembled as a complete unit including all hardware specified prior to shipment.

9-08.AP9

**Section 9-08, Paints and Related Materials
January 2, 2018**

9-08.1(2)K Orange Equipment Enamel

In the second sentence of the first paragraph, the reference to “Federal Standard 595” is revised to read “SAE AMS Standard 595”.

9-08.1(8) Standard Colors

In the first paragraph, the reference to “Federal Standard 595” is revised to read “SAE AMS Standard 595”.

9-13.AP9

**Section 9-13, Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion and Scour Protection and Rock Walls
April 2, 2018**

9-13.1(1) General

The last paragraph is revised to read:

Riprap and quarry spalls shall be free from segregation, seams, cracks, and other defects tending to destroy its resistance to weather and shall meet the following test requirements:

9-13.5 Concrete Slope Protection

This section is revised to read:

Concrete slope protection shall consist of reinforced portland cement or blended hydraulic cement concrete poured or pneumatically placed upon the slope with a rustication joint pattern or semi-open concrete masonry units placed upon the slope closely adjoining each other.

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

This section’s title is revised to read:

Poured Portland Cement or Blended Hydraulic Cement Concrete Slope Protection

9-13.5(3) Pneumatically Placed Portland Cement Concrete Slope Protection

This section’s title is revised to read:

Pneumatically Placed Portland Cement or Blended Hydraulic Cement Concrete Slope Protection

The first paragraph is revised to read:

Cement – This material shall be portland cement or blended hydraulic cement as specified in Section 9-01.

9-13.7(1) Rock for Rock Walls and Chinking Material

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

Rock for rock walls and chinking material shall be hard, sound and durable material, free from seams, cracks, and other defects tending to destroy its resistance to weather, and shall meet the following test requirements:

9-14.AP9

**Section 9-14, Erosion Control and Roadside Planting
August 6, 2018**

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

In Table 1, the last four rows are deleted.

9-14.4(2)A Long-Term Mulch

The first paragraph is supplemented with the following:

Products containing cellulose fiber produced from paper or paper components will not be accepted.

Table 2 is supplemented with the following new rows:

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

9-14.4(2)B Moderate-Term Mulch

This section is revised to read:

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

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

9-14.4(2)C Short-Term Mulch

This section is revised to read:

Short-Term Mulch shall effectively perform the intended erosion control function in accordance with Section 8-01.3(1) for a minimum of 2 months, or until temporary vegetation has been established, whichever comes first. Short-Term Mulch shall not be used in conjunction with permanent seeding.

9-16.AP9

**Section 9-16, Fence and Guardrail
August 6, 2018**

9-16.3(1) Rail Element

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

All rail elements shall be formed from 12-gage steel except for thrie beam reducer sections, reduced length thrie beam rail elements, thrie beams used for bridge rail retrofits, and Design F end sections, which shall be formed from 10-gage steel.

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.

9-18.AP9

**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.

9-20.AP9

**Section 9-20, Concrete Patching Material, Grout, and Mortar
August 6, 2018**

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:

Compressive Strength	ASTM Test Method	Specification
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at 3 hours	C 39	Minimum 3,000 psi
at 24 hours	C 39	Minimum 5,000 psi
Length Change		
at 28 days	C 157	0.15 percent maximum
Total Chloride Ion Content	C 1218	1 lb/yd ³ maximum
Bond Strength		
at 24 hours	C 882 (As modified by C 928, Section 9.5)	Minimum 1,000 psi
Scaling Resistance (at 25 cycles of freezing and thawing)	C 672 (As modified by C 928, Section 9.4)	1 lb/ft ² maximum

9-20.1(2) Patching Mortar Extended with Aggregate

Patching mortar extended with aggregate shall meet the following requirements:

Compressive Strength	ASTM Test Method	Specification
at 3 hours	C 39	Minimum 3,000 psi
at 24 hours	C 39	Minimum 5,000 psi
Length Change		
at 28 days	C 157	0.15 percent maximum
Bond Strength		
at 24 hours	C 882 (As modified by ASTM C928, Section 9.5)	Minimum 1,000 psi
Scaling Resistance (at 25 cycles of freezing and thawing)	C 672	2 Maximum Visual Rating
Freeze thaw	C 666	Maximum expansion 0.10% Minimum durability 90.0%

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:

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.

9-21.AP9

Section 9-21, Raised Pavement Markers (RPM) January 2, 2018

9-21.2 Raised Pavement Markers Type 2

This section's content is deleted.

9-21.2(1) Physical Properties

This section, including title, is revised to read:

9-21.2(1) Standard Raised Pavement Markers Type 2

The marker housing shall contain reflective faces as shown in the Plans to reflect incident light from either a single or opposite directions and meet the requirements of ASTM D 4280 including Flexural strength requirements.

9-21.2(2) Optical Requirements

This section, including title, is revised to read:

9-21.2(2) Abrasion Resistant Raised Markers Type 2

Abrasion Resistant Raised Markers Type 2 shall comply with Section 9-21.2(1) and meet the requirements of ASTM D 4280 with the following additional requirement: The coefficient of luminous intensity of the markers shall be measured after subjecting the entire lens surface to the test described in ASTM D 4280 Section 9.5 using a sand drop apparatus. After the exposure described above, retroreflected values shall not be less than 0.5 times a nominal unblemished sample.

9-21.2(3) Strength Requirements

This section is deleted in its entirety.

9-26.AP9

Section 9-26, Epoxy Resins

April 2, 2018

9-26.1(2) Packaging and Marking

The second paragraph is revised to read:

Containers shall be identified as “Component A” (contains the Epoxy Resin) and “Component B” (Contains the Curing Agent) and shall show the type, grade, class, and mixing directions as defined by these Specifications. Each container shall be marked by permanent marking with the name of the formulator, the lot or batch number, the date of packaging, expiration date and the quantity contained in pounds or gallons. If the two containers are furnished in a single cartridge, that cartridge shall be marked by permanent marking to the cartridge with the name of the formulator and the lots or batch numbers for both Component A and Component B, the date of packaging, expiration date, and the quantity contained in ounces or milliliters.

9-28.AP9

Section 9-28, Signing Materials and Fabrication

April 2, 2018

9-28.10 Vacant

This section, including title, is revised to read:

9-28.10 Digital Printing

Transparent and opaque durable inks used in digital printed sign messages shall be as recommended by the manufacturer. When properly applied, digital printed colors shall have a warranty life of the base retroreflective sign sheeting. Digital applied colors shall present a smooth surface, free from foreign material, and all messages and borders shall be clear and sharp. Digital printed signs shall conform to 70% of the retroreflective minimum values established for its type and color. Digitally printed signs shall meet the daytime color and luminance, and nighttime color requirements of ASTM D 4956. No variations in color or overlapping of colors will be permitted. Digital printed permanent traffic signs shall have an integrated engineered match component clear protective overlay recommended by the sheeting manufacturer applied to the entire face of the sign. On Temporary construction/maintenance signs printed with black ink only, the protective overlay film is optional, as long as the finished sign has a warranty of a minimum of three years from sign sheeting manufacturer.

All digital printed traffic control signs shall be an integrated engineered match component system. The integrated engineered match component system shall consist of retroreflective sheeting, durable ink(s), and clear overlay film all from the same manufacturer applied to aluminum substrate conforming to Section 9-28.8.

The sign fabricator shall use an approved integrated engineered match component system as listed on the Qualified Products List (QPL). Each approved digital printer shall only use the compatible retroreflective sign sheeting manufacturer's engineered match component system products.

Each retroreflective sign sheeting manufacturer/integrated engineered match component system listed on the QPL shall certify a department approved sign fabricator is approved to operate their compatible digital printer. The sign fabricator shall re-certify annually with the retroreflective sign manufacturer to ensure their digital printer is still meeting manufacturer's specifications for traffic control signs. Documentation of each re-certification shall be submitted to the QPL Engineer annually.

9-28.11 Hardware

The last paragraph is revised to read:

All steel parts shall be galvanized in accordance with AASHTO M111. Steel bolts and related connecting hardware shall be galvanized in accordance with ASTM F 2329.

9-29.AP9

Section 9-29, Illumination, Signal, Electrical August 6, 2018

9-29.1 Conduit, Innerduct, and Outerduct

This section is supplemented with the following new subsection:

9-29.1(10) Pull Tape

Pull tape shall be pre-lubricated polyester pulling tape. The pull tape shall have a minimum width of ½-inch and a minimum tensile strength of 500 pounds. Pull tape may have measurement marks.

9-29.2(1) Junction Boxes

The first paragraph is revised to read:

For the purposes of this Specification concrete is defined as portland cement or blended hydraulic cement concrete and non-concrete is all others.

9-29.2(1)A2 Non-Concrete Junction Boxes

The first paragraph is revised to read:

Material for the non-concrete junction boxes shall be of a quality that will provide for a similar life expectancy as portland cement or blended hydraulic cement concrete in a direct burial application.

9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes

In the table in the last paragraph, the fourth, fifth and sixth rows are revised to read:

Slip Resistant Lid	ASTM A36 steel
Frame	ASTM A36 steel
Slip Resistant Frame	ASTM A36 steel

9-29.6 Light and Signal Standards

In the first sentence of the third paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

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

2. The steel light and signal standard fabricator's shop drawing submittal, including supporting design calculations, submitted as a Type 2E Working Drawing in accordance with Section 8-20.2(1) and the Special Provisions.

9-29.6(1) Steel Light and Signal Standards

In the second paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

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

Steel used for light and signal standards shall have a controlled silicon content of either 0.00 to 0.06 percent or 0.15 to 0.25 percent.

9-29.6(5) Foundation Hardware

In the last paragraph, "AASHTO M232" is revised to read "ASTM F 2329".

9-29.12 Electrical Splice Materials

This section is supplemented with the following new subsections:

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.

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".

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.

9-34.AP9

**Section 9-34, Pavement Marking Material
January 2, 2018**

9-34.2(2) Color

Each reference to “Federal Standard 595” is revised to read “SAE AMS Standard 595”.

9-34.2(5) Low VOC Waterborne Paint

The heading “Standard Waterborne Paint” is supplemented with “Type 1 and 2”.

The heading “High-Build Waterborne Paint” is supplemented with “Type 4”.

The heading “Cold Weather Waterborne Paint” is supplemented with “Type 5”.

In the row beginning with “° @90°F”, each minimum value is revised to read “60”.

In the row beginning with “Fineness of Grind, (Hegman Scale)”, each minimum value is revised to read “3”.

The last four rows are replaced with the following:

Vehicle Composition	ASTM D 2621	100% acrylic emulsion	100% cross-linking acrylic ⁴	100% acrylic emulsion
Freeze-Thaw Stability, KU	ASTM D 2243 and D 562	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 5 cycles show no coagulation or change in viscosity greater than ± 10 KU	@ 3 cycles show no coagulation or change in viscosity greater than ± 10 KU
Heat Stability	ASTM D 562 ²	± 10 KU from the initial viscosity	± 10 KU from the initial viscosity	± 10 KU from the initial Viscosity
Low Temperature Film Formation	ASTM D 2805 ³	No Cracks*		No Cracks
Cold Flexibility ⁵	ASTM D522	Pass at 0.5 in mandrel*		
Test Deck Durability ⁶	ASTM D913	≥70% paint retention in wheel track*		
Mud Cracking	(See note 7)	No Cracks	No Cracks	

After the preceding Amendments are applied, the following new column is inserted after the “Standard Waterborne Paint Type 1 and 2” column:

Semi-Durable Waterborne Paint Type 3			
White		Yellow	
Min.	Max.	Min.	Max.

Within ± 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 ± 10 KU			
± 10 KU from the initial viscosity			
No Cracks			
Pass at 0.25 in mandrel			
≥70% paint retention in wheel track			
No Cracks			

The footnotes are supplemented with the following:

⁴Cross-linking acrylic shall meet the requirements of federal specification TT-P-1952F Section 3.1.1.

⁵Cold 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.

⁶NTPEP 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.

⁷Paint 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”.

9-34.7(1) Requirements

The first paragraph is revised to read:

Field performance evaluation is required for low VOC solvent-based paint per Section 9-34.2(4), Type A – liquid hot applied thermoplastic per Section 9-34.3(1), Type B – preformed fused thermoplastic per Section 9-34.3(2), Type C – cold applied preformed tape per Section 9-34.3(3), and Type D – liquid applied methyl methacrylate per Section 9-34.3(4).

The last paragraph is deleted.

9-34.7(1)C Auto No-Track Time

The first paragraph is revised to read:

Auto No-Track Time will only be required for low VOC solvent-based paint in accordance with Section 9-34.2(4).

The second and third sentences of the second paragraph are deleted.

INTRODUCTION TO THE SPECIAL PROVISIONS

(August 14, 2013 APWA GSP)

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

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

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

(March 8, 2013 APWA GSP)

(April 1, 2013 WSDOT GSP)

(April 12, 2018 CFW GSP)

Also incorporated into the Contract Documents by reference are:

- Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any
- WSDOT Standard Plans
- City of Federal Way Public Works Development Standards
- National Electric Code, current edition
- King County Road Standards - 2007

Contractor shall obtain copies of these publications, at Contractor's own expense.

DIVISION 1 GENERAL REQUIREMENTS

DESCRIPTION OF WORK

(March 13, 1995 WSDOT GSP)

This Contract provides for the improvement of the 2019 Asphalt Overlay Project Improvements and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

Supplement this Section with the following:

SCHEDULE A1 – 1st Ave S

1st Ave S

From SW 363rd Pl

To S 361st Pl

SCHEDULE A2 – 1st Ave S

1st Ave S

From S 361st Pl

To S 356th St

SCHEDULE B – S 336th S

S 336th St

From 10th Pl S

To 18th Ave S

SCHEDULE C – 1st Ave S

1st Ave S

From SW 312th St

To SW 301st St

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

Physical Completion Date

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

Completion Date

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

Final Acceptance Date

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

Supplement this Section with the following:

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

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

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

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

Additive

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

Alternate

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

Business Day

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

Contract Bond

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

Contract Documents

See definition for “Contract.”

Contract Time

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

Notice of Award

The written notice from the Contracting Agency to the successful Bidder signifying the Contracting Agency’s acceptance of the Bid Proposal.

Notice to Proceed

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

Traffic

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

1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this Section and replace it with the following:

1-02.1 Qualifications of Bidder

(January 24, 2011 APWA GSP)

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

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")	5	Furnished automatically upon award.
Contract Provisions	5	Furnished automatically upon award.
Large Plans (e.g., 22" x 34")	2	Furnished only upon request.

Additional Plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor’s own expense.

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

(June 27, 2011 APWA GSP)

1-02.4(1) General

(August 15, 2016 APWA GSP, Option B)

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

Any prospective Bidder desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing by close of business three (3) business days preceding the bid opening to allow a written reply to reach all prospective Bidders before the submission of their Bids.

1-02.4(2) Subsurface Information

(March 8, 2013 APWA GSP)

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

The Summary of Geotechnical Conditions and the boring logs, if and when included as an appendix to the Special Provisions, shall be considered as part of the Contract.

1-02.5 Proposal Forms

(July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

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

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

1-02.6 Preparation of Proposal

(July 11, 2018 APWA GSP)

Section 1-02.6 is supplemented the second paragraph with the following:

The City Of Federal Way invites bids on the form enclosed to be submitted at such time and place as is stated in the Call for Bids.

ALL BLANKS IN THE PROPOSAL FORMS MUST BE APPROPRIATELY FILLED IN AND ALL PRICES MUST BE STATED IN LEGIBLE FIGURES.

Bids or proposals shall be addressed as follows:

Purchasing Office
City of Federal Way
33325 8th Avenue South
Federal Way, WA 98003-6325

The envelope shall be plainly marked "2019 Asphalt Overlay Project".

Proposal envelopes sent by mail shall be further sealed in another envelope, addressed as above.

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form (WSDOT Form 272-009). Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

Supplement the second paragraph with the following:

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

Delete the last two paragraphs and replace them with the following:

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

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form, provided by the Contracting Agency. Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

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

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

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

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

(August 3, 2015 WSDOT GSP, OPTION 21)

Section 1-02.6 is supplemented with the following:

Cumulative Alternates Bidding

The Bid Proposal for this Contract requires the Bidder to bid cumulative Alternates as part of the bid. As such the Bidder is required to submit a Base Bid and a bid for each of the Alternate(s).

Bid Proposal

Bid Proposal includes the following:

1. Base Bid

The Schedules B and C shall include constructing all items included in the Proposal *except* those items contained in the Alternate(s).

2. Alternate(s)
 - a. Alternate A1
Based on construction of Schedule A1
The Bid items for Alternate A1 are as listed in the Bid Proposal.
 - b. Alternate A2
Based on construction Schedule A2
The Bid items for Alternate A2 are as listed in the Bid Proposal.

Bidding Procedures

To be considered responsive the Bidder shall submit a price on each and every Bid item included in the Base Bid and all Alternate(s).

Successful Bidder will be the Bidder submitting the lowest responsible Bid for the highest order Preference that is within the amount of available funds for the project. Available funds will be announced immediately prior to the opening of Bids. The following are listed in order from highest to lowest Preference:

1. Preference 1: Lowest total for Base Bid plus Alternate A1 plus Alternate A2.
2. Preference 2: Lowest total for Base Bid plus Alternate A2.
3. Preference 3: Lowest total for Base Bid plus Alternative A1.
4. Preference 4: Lowest total for Base Bid

The Contracting Agency may, at their discretion, award a Contract for the Base Bid, without any additional Alternates, in the event that all Bids exceed the available funds announced. In any case, the award will be subject to the requirements of Section 1-03.

1-02.7 Bid Deposit

(March 8, 2013 APWA GSP)

Supplement this section with the following:

Bid bonds shall contain the following:

1. Contracting Agency-assigned number for the project;
2. Name of the project;
3. The Contracting Agency named as obligee;
4. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the maximum bid amount that could be awarded;
5. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;

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

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

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

1-02.9 Delivery of Proposal
(May 17, 2018 APWA GSP, OPTION A)

Delete this section and replace it with the following:

Each Proposal shall be submitted in a sealed envelope, with the Project Name and Project Number as stated in the Call for Bids clearly marked on the outside of the envelope, or as otherwise required in the Bid Documents, to ensure proper handling and delivery be considered responsive on a FHWA-funded project, the Bidder may be required to submit the following items, as required by Section 1-02.6:

- UDBE Written Confirmation Document from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification (WSDOT 272-056U)
- Good Faith Effort (GFE) Documentation

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

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

The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids. The Contracting Agency will not open or consider any "Supplemental Information" (UDBE confirmations, or GFE documentation) that is received after the time specified above, or received in a location other than that specified in the Call for Bids.

1-02.10 Withdrawing, Revising, or Supplementing Proposal
(July 23, 2015 APWA GSP)

Delete this section, and replace it with the following:

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

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and
2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and

3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

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

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

1-02.13 Irregular Proposals
(June 20, 2017 APWA GSP)

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - b. The authorized Proposal form furnished by the Contracting Agency is not used or is altered;
 - c. The completed Proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
 - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
 - e. A price per unit cannot be determined from the Bid Proposal;
 - f. The Proposal form is not properly executed;
 - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
 - h. The Bidder fails to submit or properly complete an Underutilized Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
 - i. The Bidder fails to submit written confirmation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification that they are in agreement with the bidder's UDBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
 - j. The Bidder fails to submit UDBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
 - k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
 - l. More than one Proposal is submitted for the same project from a Bidder under the same or different names.
2. A Proposal may be considered irregular and may be rejected if:
 - a. The Proposal does not include a unit price for every Bid item;
 - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
 - c. Receipt of Addenda is not acknowledged;

- d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
- e. If Proposal form entries are not made in ink.

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

Delete this section and replace it with the following:

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

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

1. **Delinquent State Taxes**

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

2. **Federal Debarment**

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

3. **Subcontractor Responsibility**

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

Agency, and a written description of its procedure for validating the responsibility of subcontractors with which it contracts.

4. **Claims Against Retainage and Bonds**

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

5. **Public Bidding Crime**

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

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

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

7. **Lawsuits**

- A. Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, unless there are extenuating

circumstances and such circumstances are deemed acceptable to the Contracting Agency

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

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

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

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

Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders with concerns about the relevancy or restrictiveness of the Supplemental Bidder

Responsibility Criteria may make or submit requests to the Contracting Agency to modify the criteria. Such requests shall be in writing, describe the nature of the concerns, and propose specific modifications to the criteria. Bidders shall submit such requests to the Contracting Agency no later than five (5) business days prior to the bid submittal deadline and address the request to the Project Engineer or such other person designated by the Contracting Agency in the Bid Documents.

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

Revise this section to read:

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

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

1-03 AWARD AND EXECUTION OF CONTRACT

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

Revise the first paragraph to read:

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

1-03.1(1) Identical Bid Totals
(January 4, 2016 APWA GSP)

Revise this section to read:

After opening Bids, if two or more lowest responsive Bid totals are exactly equal, then the tie-breaker will be the Bidder with an equal lowest bid, that proposed to use the

highest percentage of recycled materials in the Project, per the form submitted with the Bid Proposal. If those percentages are also exactly equal, then the tie-breaker will be determined by drawing as follows: Two or more slips of paper will be marked as follows: one marked "Winner" and the other(s) marked "unsuccessful." The slips will be folded to make the marking unseen. The slips will be placed inside a box. One authorized representative of each Bidder shall draw a slip from the box. Bidders shall draw in alphabetic order by the name of the firm as registered with the Washington State Department of Licensing. The slips shall be unfolded and the firm with the slip marked "Winner" will be determined to be the successful Bidder and eligible for Award of the Contract. Only those Bidders who submitted a Bid total that is exactly equal to the lowest responsive Bid, and with a proposed recycled materials percentage that is exactly equal to the highest proposed recycled materials amount, are eligible to draw.

1-03.3 Execution of Contract
(October 1, 2005 APWA GSP)

Revise this section to read:

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

Within 10 calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

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

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

1-03.4 Contract Bond
(July 23, 2015 APWA GSP)

Delete the first paragraph and replace it with the following:

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

1. Be on Contracting Agency-furnished form(s);
2. Be signed by an approved surety (or sureties) that:
 - a. Is registered with the Washington State Insurance Commissioner, and

- b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner,
- 3. Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:
 - a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or
 - b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;
- 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and
- 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
- 6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

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 THE 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,
3. Special Provisions,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. Standard Specifications,
7. Contracting Agency's Standard Plans or Details (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

In case of discrepancies, the document(s) assigned the smaller number(s) shall govern over items having larger numbers. Units of measurement in the Bid Schedule shall govern over units of measurement in the Specifications and Provisions. In the Plans or drawings, correctly calculated dimensions shall govern over scaled or approximately stated dimensions. In case of any ambiguity or dispute over interpretation of the provisions of the Contract Documents, the decision of the Engineer shall be final.

1-05 CONTROL OF WORK

1-05.4 Conformity With and Deviations from Plans and Stakes

(April 2, 2018, WSDOT GSP, OPTION 4)

Section 1-05.4 is supplemented with the following:

Supplement this section with the following:

Roadway and Utility Surveys *(July 23, 2015 APWA GSP, Option 1)*

The Engineer shall furnish to the Contractor one time only all principal lines, grades, and measurements the Engineer deems necessary for completion of the work. These shall generally consist of one initial set of:

1. Slope stakes for establishing grading;
2. Curb grade stakes;
3. Centerline finish grade stakes for pavement sections wider than 25 feet; and
4. Offset points to establish line and grade for underground utilities such as water, sewers, and storm drains.

On alley construction projects with minor grade changes, the Engineer shall provide only offset hubs on one side of the alley to establish the alignment and grade.

1-05.5 Construction Stakes

(November 29, 2018**)***

Intent - It is the intent of this section to define the staking services that the Owner will furnish, and to set forth the responsibilities of the Contractor respecting the use and maintenance of same.

Scope - The Owner will furnish the stakes and reference marks for the construction of the improvements covered by this contract. No stakes other than those enumerated at the end of this section will be furnished, except as requested in writing by the Contractor and paid for by him. This applies to all re-staking for whatever reason, as well as for additional staking which the Contractor may request.

Notification - The Contractor shall keep the Engineer informed in advance as to when and where the Contractor intends to work, thus enabling the Engineer to set the engineering control points, lines, and grades with a minimum of delay and interference. The Contractor shall notify the Engineer at least forty-eight (48) hours in advance of the date when specific staking services are desired and shall stipulate at that time the particular stakes or marks required, giving the specific location and/or limiting stations, kind of stakes, offsets, and other pertinent information. Delays by reason of lack of stakes are deemed a risk to the Contractor and shall not be the basis for claims for additional compensation.

Control Stakes - Stakes which constitute reference points for all construction work will be conspicuously marked with an appropriate color of flagging tape. It will be the responsibility of the Contractor to inform its employees and his subcontractors of their importance, and the necessity for their preservation. The cost of replacing such controls, should it become necessary for any reason whatsoever, shall be at the Contractor's expense. If the removal of a control stake is required by the construction operations of the Contractor or its subcontractors, advance notice of at least forty-eight (48) hours shall be given to the Engineer, who will reference and remove said stake or stakes at no cost to the Contractor.

Checking Service - Should occasion arise where the validity of a stake is questioned, either as to its location or the offset marked thereon, or as to the elevation of cut or fill marked thereon, the Contractor shall notify the Engineer, who will check the stake or stakes in question. It shall be the Contractor's responsibility to examine the stakes before commencing operations. Any stakes found to be in error will be reset. There will be no charge to the Contractor for this service; and it is understood and agreed that the Owner will not be charged for any standby or "down" time as a result of such checking and/or resetting procedure.

Staking Services - The Owner will furnish the following stakes and reference marks as applicable:

1. Handicapped Ramps - Locations and limits of removal shall be established for removal and replacement of curb ramp.
2. Limits of overlay - Locations and limits of the asphalt overlay will be established.
3. Pavement Repair - Location and limits of pavement repair areas will be established.
4. Sidewalk, Curb and Gutter - Locations and limits of removal shall be established.

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.

No adjustment in Contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this section.

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

1-05.11 Final Inspection

(October 1, 2005 APWA GSP)

Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing

1-05.11(1) Substantial Completion Date

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

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

Upon receipt of written notice concurring in or denying substantial completion, whichever is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized interruption, the work necessary to reach Substantial and Physical Completion. The

Contractor shall provide the Engineer with a revised schedule indicating when the Contractor expects to reach substantial and physical completion of the work.

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

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

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

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

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

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

1-05.11(3) Operational Testing

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

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

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

1-05.12 Final Acceptance

Add the following new section.

1-05.12(1) One-Year Guarantee Period
(March 8, 2013 APWA GSP)

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

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

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

1-05.12 (2) Maintenance Periods
(January 19, 2016 **)***

On non-FHWA projects, when the work involves such items as machinery or other mechanical equipment, either furnished or installed by the Contractor or, furnished by the Owner and installed by the Contractor; buildings; or work which may otherwise be of such a nature that it is desirable by the Owner to have the Contractor maintain and/or test the work for a period of time after final inspection by the Engineer, the following shall apply.

It is the intent of the Owner to have at final acceptance, a complete and operable system. Therefore, such items of work as may be listed in the Contract documents shall be fully tested under operating conditions to ensure their acceptability prior to final acceptance. The Contractor shall, upon completion of the work and following final inspection, operate the complete system under the observation of the Engineer for a test period of no less than fourteen (14) consecutive calendar days. During and following this test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first-class operating condition. All equipment, electrical controls, meters and other devices to be tested

during this period will be tested under the supervision of the Engineer so as to determine their suitability for the purpose for which they were installed. All costs for power, gas, labor material, supplies and incidentals, shall be borne by the Contractor unless specifically set for otherwise in the Contract Documents.

When such periods are desired by the Owner, such periods shall not affect any manufacturer's guarantees or warranties furnished to the Owner under the terms of the Contract.

The Contractor's attention is called to Section 1-05.18 of these Special Provisions.

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

Delete the sixth and seventh paragraphs of this section.

1-05.14 Cooperation with Other Contractors
(March 13, 1995 WSDOT GSP, OPTION 1)

Section 1-05.14 is supplemented with the following:

Other Contracts or Other Work

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

1. Puget Sound Energy Company
2. CenturyLink Communications
3. AT&T Telephone Company
4. Comcast Cable Communications
5. Lakehaven Utility District
6. City of Tacoma Public Utilities
7. Midway Sewer District
8. Highline Water District
9. City of Federal Way Surface Water Management Division
10. City of Federal Way Traffic Division
11. King County Public Works Department
12. Washington State Department of Transportation

The Contractor shall adjust catch basins and storm manholes to grade. The Contractor shall be responsible for coordinating his work with the Owner to accommodate this work.

1-05.14(A) Notifications Relative to Contractor's Activities

(City of Federal Way)

Section 1-05.14(A) is supplemented with the following:

Notification shall be written, with a copy delivered to the Engineer within a minimum of one week prior to the commencement of work.

City of Federal Way
Police Department
33325 8th Avenue South
Federal Way, WA 98003-6325

South King Fire & Rescue
31617 1st Ave S
Federal Way, WA 98003
Telephone: 253-946-7253

Telephone: 253-835-6701

King County Metro
1270 6th Avenue South, Bldg. 2
MS:QS
Seattle, WA 98134
Construction.coord@kingcounty.gov

Federal Way School District
Transportation Department
1211 South 332nd Street
Federal Way, WA 98003
Attn: Michelle Turner
Telephone: 253-945-5965
mturner@fwps.org

Puget Sound Energy (Gas)
6905 South 228th St
Kent, WA 98032
Attn: Glenn Helton
Telephone: 425-559-4647

CenturyLink Communications
23315 66th Ave S
Kent, WA 98032
Attn: Leslie Ferguson
Telephone: 206-345-3488

Puget Sound Energy (Power)
14103 8th Street East
Sumner, WA 98390
Attn: Dennis Booth
Telephone: 253-606-4787

Comcast Cable Communications
410 Valley Ave NW, Suite 12-C
Puyallup, WA 98371
Attn: Bill Walker
Telephone: 206-255-6975

Lakehaven Water & Sewer District
31623 1st Ave S
Federal Way, WA 98003
Attn: Wes Hill
Telephone: 253-946-5440

AT&T Cable Maintenance
11241 Willow Road NE, Suite 130
Redmond, WA 98052
Attn: Dan McGeough
Telephone: 425-896-9830

King County Traffic Operations
155 Monroe Avenue NE
Renton, WA 98056
Attn: Mark Parrett
Telephone: 206-296-8153

Pierce Transit
3701 96th Street SW
Lakewood, WA 98499
Attn: Barbara Strong-Nelson
Telephone: 253-405-4433
bnelson@piercetransit.org

1-05.15 Method of Serving Notices

(March 25, 2009 APWA GSP)

Revise the second paragraph to read:

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

Add the following new section:

1-05.16 Water and Power

(October 1, 2005 APWA GSP)

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

1-05.19 Defects Arising in One Year and Remedies

(April 12, 2018 CFW GSP)

Section 1-05.19 is a new section:

The Contractor shall be responsible for correcting all defects in workmanship and material within one year after acceptance of this work by the City of Federal Way. When corrections of defects are made, the Contractor shall be responsible for correcting all defects in workmanship and/or materials in the corrected work for one year after acceptance of the corrections by the Owner. The Contractor shall start work to remedy such defects within seven (7) calendar days of mailing notice of discovery thereof by the Owner and shall complete such work within a reasonable time. In emergencies, where damage may result from delay or where loss of services may result, such corrections may be made by the Owner, in which case the cost shall be borne by the Contractor. In the event the Contractor does not accomplish corrections at the time specified, the work will be otherwise accomplished and the cost of same shall be paid by the Contractor. These actions will be pursuant to the provisions of Section 1-05.8 of the Standard Specifications.

The Contractor shall be liable for any costs, losses, expenses, or damages, including consequential damages suffered by the Owner resulting from defects in the Contractor's work including, but not limited to, cost of materials and labor extended by Owner in making emergency repairs and cost of engineering, inspection and supervision by the Owner or the Engineer. The Contractor shall hold the Owner harmless from any and all claims which may be made against the Owner as a result of any defective work, and the Contractor shall defend any such claims at his own expense.

The Contractor agrees the above one-year limitation shall not exclude or diminish the Owner's rights under any law to obtain damages and recover costs resulting from defective and unauthorized work discovered after one year but prior to the expiration of the legal time period set forth in RCW 9.16.040 limiting actions upon a contract in writing or liability, expressed or implied, arising out of a written agreement.

1-06 CONTROL OF MATERIAL

1-06.2(2) Statistical Evaluation of Materials for Acceptance

Delete this section in its entirety.

1-06.6 Recycled Materials

(January 4, 2016 APWA GSP)

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

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

Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete

aggregate, recycled glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled Materials Reporting.

1-07 LEGAL RELATIONS AND RESPONSIBILITIES 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 doctor's care, persons, including employees, who may have been injured on the project site. Employees should not be permitted to work on the project site before the Contractor has established and made known procedures for removal of injured persons to a hospital or a doctor's care.

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

Section 1-07.1 is supplemented with the following:

(April 3, 2006 WSDOT GSP, OPTION 3)

Confined Space

Confined spaces are known to exist at the following locations:

Existing storm drainage, sanitary sewer, and other utility systems, vaults, and structures, along with all new similar new construction items that meet the requirements of WAC 296-809-100.

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

The Contractor shall prepare and implement a confined space program for each of the confined spaces identified above. The Contractor's Confined Space program shall be sent to the contracting agency at least 30 days prior to the Contractor beginning work in or adjacent to the confined space. No work shall be performed in or adjacent to the confined space until the plan is submitted to the Engineer as required. The Contractor

shall communicate with the Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both the Contracting Agency's and Contractor's workers when working in or near a confined space.

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

1-07.2 State Taxes

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

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

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

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

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

1-07.2(1) State Sales Tax — Rule 171

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

1-07.2(2) State Sales Tax — Rule 170

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

and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

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

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

1-07.2(3) Services

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

1-07.5 Environmental Regulations

Section 1-07.5 is supplemented with the following:

(September 20, 2010, WSDOT GSP, OPTION 1)

Environmental Commitments

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

(August 3, 2009 WSDOT GSP, OPTION 1(V))

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

(August 3, 2009, WSDOT GSP, OPTION 2)

Payment

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

In addition to the requirements of Section 1-07.5 of the Standard Specifications, the Contractor shall comply with all applicable Federal, State, County and City environmental provisions of law including, but not limited to, the following:

City of Federal Way:

Zoning Code and Noise Ordinance

King County:

Ordinance No. 1488
Resolution No. 18801
Resolution No. 25789

Puget Sound Air Pollution Control Agency: Regulation No. 1
Resolution No. 194

The above environmental provisions are incorporated into this contract by this reference as if set forth herein in full. Copies of the City of Federal Way Provisions are available for perusal at the Public Works Department.

The Contractor shall be liable for the payment of all fines and penalties resulting from failure to comply with the federal, state, and local pollution control regulations.

1-07.6 Permits and Licenses

(April 12, 2018 CFW GSP)

Section 1-07.6 is supplemented with the following:

Survey Monuments

In accordance with RCW 58.24.040(8), no cadastral or geodetic survey monument may be disturbed without a valid permit to remove or destroy a survey monument, issued by the Washington State Department of Natural Resources. Permit applications can be obtained on the DNR Public Land Survey Office website. The permit application must be stamped by a registered Washington State Land Surveyor. The Contractor shall obtain the permit to Remove or Destroy a Survey Monument as necessary. All costs to obtain and comply with the permit shall be considered incidental to other bid items and no additional payment will be made.

1-07.7 Load Limits

(March 13, 1995 WSDOT GSP, OPTION 6)

Section 1-07.7 is supplemented with the following:

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

1-07.9 Wages

1-07.9(1) General

(January 5, 2018 WSDOT GSP, OPTION 1)

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

The Federal wage rates incorporated in this contract have been established by the Secretary of Labor under United States Department of Labor General Decision No. WA180001.

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

(April 2, 2007 WSDOT GSP, OPTION 4)

Application of Wage Rates For The Occupation Of Landscape Construction

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

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

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

Laborers with the occupation description, Landscaping or Planting, or

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

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

Contractors are responsible for determining the appropriate crafts necessary to perform the contract work. If a classification considered necessary for performance of the work is missing from the Federal Wage Determination applicable to the contract, the Contractor shall initiate a request for approval of a proposed wage and benefit rate. The Contractor shall prepare and submit Standard Form 1444, Request for Authorization of Additional Classification and Wage Rate available at <http://www.wdol.gov/docs/sf1444.pdf>, and submit the completed form to the Engineer's office. The presence of a classification wage on the Washington State Prevailing Wage Rates For Public Works Contracts does not exempt the use of form 1444 for the purpose of determining a federal classification wage rate.

1-07.16 Protection and Restoration of Property

1-07.16(1) Private/Public Property

Section 1-07.16(1) is supplemented with the following:

The Contractor shall protect private or public property on or in the vicinity of the work site. The Contractor shall ensure that it is not removed, damaged, destroyed, or prevented from being used unless the contract so specifies.

The Contractor shall not trespass upon private property and shall be responsible for all injury or damage to persons or property, directly or indirectly, resulting from his operations in completing this Work. The Contractor shall comply with the laws and regulations of the Owner, County, and State and Federal governments, relating to the safety of persons and property, and will be held responsible for and required to make good any injury or damage to persons or property caused by carelessness or neglect on the part of the Contractor or subcontractor(s), or any agent or employee of either during the progress of the Work and until its final acceptance.

Property includes land, utilities, trees, landscaping, improvements legally on the right-of-way, markers, monuments, buildings, structures, pipe, conduit, sewer or

water lines, signs, and other property of all description whether shown in the Plans or not.

If the Engineer requests in writing, or if otherwise necessary, the Contractor shall at its expense install protection, acceptable to the Engineer, for property such as that listed in the previous paragraph. The Contractor is responsible for locating all property that is subject to damage by his operation.

If the Contractor (or its agents/employees) damage, destroy, or interfere with the use of such property, the Contractor shall restore it to original condition at the Contractor's expense. He shall also halt any interference with the property's use. The Engineer may have such property restored by other means and subtract the cost from money that will be or is due the Contractor if it refuses or does not respond immediately.

The Contractor shall restore to a condition equal to the original condition improvements such as pavements, driveways, gravel shoulders, ditches, culverts, curb, curb and gutter, sidewalks, fences, pavement markings, mailboxes, traffic signs, traffic signal loops, landscaping, public and private utilities etc., which are damaged or removed (and not indicated to be removed) during construction, whether shown in the plans or not.

All existing survey monuments and property corner markers shall be protected from movement by the Contractor. All existing markers and/or monuments that must be removed for construction purposes are to be referenced by survey ties and then replaced by a professional land surveyor registered in the State of Washington. All existing property corner markers disturbed or removed by the Contractor's operations which, in the opinion of the Engineer, were not required to be removed for construction purposes shall be replaced at the Contractor's own expense by a Professional Land Surveyor registered in the State of Washington. Any of these monuments damaged must be reset to second order, first class specifications.

Sprinkler irrigation systems found to encroach within the limits of improvements shall be modified as necessary to ensure satisfactory operation upon completion of the improvements. This work will include, but not be limited to, cutting and capping existing pipe, relocating existing risers and sprinkler heads new pipe heads and connections, and testing of the system. All work shall be done in conformance to acceptable standards. This will be per force account.

The Contractor shall contact the owners of any ditches, irrigation lines and appurtenances which interfere with the Work. The Contractor shall be liable for any damage due to irrigation facilities damaged by his operations and shall repair such damaged facilities to an "equal or better than" original condition.

1-07.16(2) Vegetation Protection and Restoration

Delete the fourth paragraph and replace it with the following:

If due to, or for any other reason related to the Contractor's operation, any tree, shrub, ground cover or herbaceous vegetation is destroyed, seriously damaged, or disfigured, that was not ordered removed, the Contractor shall replace it with approved nursery stock of the same species. In addition to replacement, the Contractor will be assessed any appropriate liquidated damages for trees as described below. The assessment will be deducted from monies due the Contractor.

For non-merchantable timber, the Contractor will be assessed liquidated damages of \$10 for each inch of difference in circumference when a replacement tree is smaller than the original.

For merchantable timber, the Contractor will be assessed liquidated damages of either \$10 for each circumferential inch or the estimated market value delivered to a mill, whichever is the larger amount.

The Engineer will measure circumference twelve inches (12") above ground level. The replanting shall be according to Section 8-02 and during the first fall or spring planting period after damage, or as the Engineer directs.

It may be necessary to trim trees or bushes in order to have the necessary clearance for planing and paving equipment on streets that are to be overlaid. Any costs for trimming of trees or bushes required for the construction of the overlay will be considered incidental to the contract.

1-07.17 Utilities and Similar Facilities
(April 2, 2007 WSDOT GSP, OPTION 1)

Section 1-07.17 is supplemented with the following:

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

Puget Sound Energy (Gas)

Attn: Glenn Helton
6905 South 228th St
Kent, WA 98032
Telephone: (253) 395-6926

Century Link

Attn: Leslie Ferguson
23315 66th Ave S
Kent, WA 98032
Telephone: (206) 345-3488

Lakehaven Water & Sewer District

Attn: Wes Hill
31627 1st Avenue S
Federal Way, WA 98003
Telephone: (253)946-5440

Comcast

Attn: Bill Walker
410 Valley Ave NW, Suite 12-C
Puyallup, WA 98371
Telephone: (206) 255-6975

King County Traffic Operations

Attn: Mark Parrett
155 Monroe Ave NE
Renton, WA 98056
Telephone: (206) 296-8153

AT&T

Attn: Daniel McGeough
11241 Willows Rd NE, #130
Redmond, WA 98052
Telephone: (425) 896-9830

Zayo

Attn: Scott Morrison
22651 83rd Ave S
Kent, WA 98032
Telephone: (206) 832-4862

City of FW IT Dept (City Fiber)

Attn: Thomas Fichtner
33325 8th Ave S
Federal Way, WA 98003
Telephone: (253) 835-2547

ADDITIONAL CONTACTS

King County METRO Transit

81270 6th Ave S, Bldg 2
Seattle, WA 98134
Telephone: (206) 684-2785

South King Fire & Rescue

31617 1st Ave S
Federal Way, WA 98003
Telephone: (253) 946-7253

City of Federal Way Police

33325 8th Ave S
Federal Way, WA 98003
Telephone: (253) 835-6701
(for officer traffic control scheduling)
Telephone: (253) 835-6767
(for traffic / road closure issues)

Federal Way School District

Attn: Transportation Department
1211 S. 332nd St
Federal Way, WA 98003
Telephone: (253) 945-5960

1-07.18 Public Liability and Property Damage Insurance

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

1-07.18 Insurance

(January 4, 2016 APWA GSP)

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. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form

of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.

- 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 at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- H. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

1-07.18(2) Additional Insured

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

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers
- The consultant that completed the preparation of the engineering design and project plans, and its officers, employees, agents, and subconsultants
- Consultants hired by the Contracting Agency for design, construction support, or materials testing.

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

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

1-07.18(3) Subcontractors

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

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

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

1-07.18(4) Verification of Coverage

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

Verification of coverage shall include:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement.
3. Any other amendatory endorsements to show the coverage required herein.
4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.

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

1-07.18(5) Coverages and Limits

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

All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible

or self-insured retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability subject to any policy's deductibles or self-insured retention, said deductibles or self-insured retention shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop gap liability, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract. There shall be no exclusion for liability arising from explosion, collapse or underground property damage.

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.

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.

Such policy must provide the following minimum limits:

\$1,000,000	Each Occurrence
\$2,000,000	General Aggregate
\$2,000,000	Products & Completed Operations Aggregate
\$1,000,000	Personal & Advertising Injury each offense
\$1,000,000	Stop Gap / Employers' Liability each Accident

1-07.18(5)B Automobile Liability

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

Such policy must provide the following minimum limit:

\$1,000,000	Combined single limit each accident
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1-07.18(5)C Workers' Compensation

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

1-07.18(5)D Excess or Umbrella Liability

(January 4, 2016 APWA GSP)

The Contractor shall provide Excess or Umbrella Liability insurance with limits of not less than \$3,000,000 each occurrence and annual aggregate. This excess or umbrella liability coverage shall be excess over and as least as broad in coverage as the Contractor's Commercial General and Auto Liability insurance.

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

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

1-07.18(5)J Pollution Liability
(January 4, 2016 APWA GSP)

The Contractor shall provide a Contractors Pollution Liability policy, providing coverage for claims involving bodily injury, property damage (including loss of use of tangible property that has not been physically injured), cleanup costs, remediation, disposal or other handling of pollutants, including costs and expenses incurred in the investigation, defense, or settlement of claims, arising out of any one or more of the following:

1. Contractor's operations related to this project.
2. Remediation, abatement, repair, maintenance or other work with lead-based paint or materials containing asbestos.
3. Transportation of hazardous materials away from any site related to this project.

All entities listed under 1-07.18(2) of these Special Provisions shall be named by endorsement as additional insureds on the Contractors Pollution Liability insurance policy.

Such Pollution Liability policy shall provide the following minimum limits:

\$1,000,000 each loss and annual aggregate

1-07.23 Public Convenience and Safety

1-07.23(1) Construction under Traffic
(January 2, 2012 WSDOT GSP, OPTION 2)

Section 1-07.23(1) 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 objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other contract requirements.

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

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

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

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

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

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

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

(January 5, 2015 WSDOT GSP, OPTION 5)

Section 1-07.23(1) is supplemented with the following:

Lane closures are subject to the following restrictions:

- Schedule A1 – 1st Ave S between SW 363rd PI and S 361st PI and Schedule A2 – 1st Ave S between S 361st PI to S 356th St, only one lane of traffic may be closed to traffic between the hours of 8:00AM and 5:00PM.
Schedule B – S 336th St between 10th PI S and 18th Ave S and Schedule C – 1st Ave S between SW 312th St to SW 301st St, only one lane of traffic may be closed to traffic between the hours of 7:00AM and 4:00PM.
Approval to close one lane per each direction at the same time will require prior approval by the Project Engineer.
- Left turns may be restricted (by the Contractor) within the project limits at the discretion of the Project Engineer.
- Any closures outside of previously noticed hours require approval by the City.
- If a lane closure is required, at least one lane of traffic (alternating directions / flagger controlled) shall be maintained at all times.
- Unless otherwise approved or shown on plans, the Contractor shall maintain two-way traffic during construction. The Contractor shall maintain continuous two-way traffic along streets throughout the project site. The Contractor shall have the option, with the approval of the Engineer, of momentarily interrupting the continuous two-way traffic to allow one-way traffic. Such interruptions shall utilize qualified flaggers placed in strategic locations to insure the public safety and minimize driver confusion. A momentary interruption shall be defined as a period of time not to exceed two (2) minutes. Regardless of the period of time no queue greater than ten (10) cars in length will be allowed.

- The Contractor shall keep all pedestrian routes & access points (including, but not limited to, sidewalks, and crosswalks when located within the project limits) open and clear at all times unless permitted otherwise by the Engineer in an approved traffic control plan. An ADA accessible route must be provided through the project site at all times.
- Pedestrians must have access to pedestrian push buttons at all times.
- The Contractor shall provide flaggers, signs, and other traffic control devices. The Contractor shall erect and maintain all construction signs, warning signs, detour signs, and other traffic control devices necessary to warn and protect the public at all times from injury or damage as a result of the Contractor's operations which may occur on highways, roads, streets, sidewalks, or paths. No work shall be done on or adjacent to any traveled way until all necessary signs and traffic control devices are in place.
- All signs and traffic control devices for the permitted closures shall only be installed during the specified hours. Construction signs, if placed earlier than the specified hours of closure, shall be turned or covered so as not to be visible to motorists
- The Contractor shall be responsible for notifying all affected property owners prior to commencing the barricading of streets, sidewalks and driveways.
- The Contractor shall, at all times throughout the project, conduct the work in such a manner as will obstruct and inconvenience vehicular and pedestrian traffic as little as possible. The streets, sidewalks and private driveways shall be kept open by the Contractor except for the brief periods when actual work is being done. The Contractor shall so conduct his operations so as to have under construction no greater length or amount of work than he can prosecute vigorously and he shall not open up sections of the work and leave them in an unfinished condition.
- Lane closures shall not impact business accesses. All business accesses will remain open during business hours.
- Lane closures shall not restrict vehicular access for buses through the project site. Bus stops shall remain ADA accessible to pedestrians at all times throughout the project

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

Lane closures are not allowed on any of the following:

1. A holiday,
2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.

3. After 12:00 PM (noon) on the day prior to a holiday or holiday weekend, and
4. Before 7:00 AM on the day after the holiday or holiday weekend.

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

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.

Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

Whenever any of the work is accomplished on or through property other than public Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

Whenever easements or rights of entry have not been acquired prior to advertising, these areas are so noted in the Plans. The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Engineer certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. If the Contractor is delayed due to acts of omission on the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

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

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

(April 12, 2018 CFW GSP)

Section 1-07.24 is supplemented with the following::

The Contractor shall be responsible to abide by the right-of-entry agreements with adjacent property owners that have been obtained (if any) by the City for this project. Please note these agreements may be included as an appendix or will be made available upon request of the Contractor.

Right-of-entries on adjacent private property have been secured for purposes such as: construction of driveways, slope restoration, drainage, utilities, irrigation, and/or property restoration. The Contractor is expressly forbidden from using right-of-entry areas for vehicle or equipment storage or material stockpiling without first receiving written approval from the property owner. A copy of the written approval shall be provided to the Engineer before the Contractor stores any equipment or materials. Written permission from property owners does not relieve the Contractor of their obligation to receive permission from the City Community Development Department for the use of sites as staging areas, if required.

Right-of-entry agreements may include responsibilities for the Contractor, such as: listing property owners as additional insured; providing advance notice to certain representatives; or daily site cleanup requirements. These responsibilities are listed as examples only and the right-of-entry documents should be reviewed by the Contractor to determine all necessary requirements.

1-07.28 Communication with Businesses and Property Owners

(April 12, 2018 CFW GSP)

Section 1-07.28 is added:

The Contractor will be responsible for communicating all work activities with the property owners / tenants that are located adjacent to the project. The Contractor, along with the City’s inspector & project engineer, shall have one formal meeting (door-to-door project walk-through) with the property owners/tenants prior to the start of construction. It will be the Contractor’s responsibility to initiate and set up the meeting.

Thereafter, the Contractor shall keep the property owners / tenants informed of their general work locations and upcoming activities by distributing a monthly status/schedule memo to the businesses. The memo shall be approved by the City’s Project Engineer prior to distribution.

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 meeting 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.

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

Add the following new section:

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

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

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

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

1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency representatives who worked during such times. (The Engineer may require designated representatives to be present during the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence.)

2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.
3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the non-working day for the week will be charged as a working day.
5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll.

(May 17, 2018 APWA GSP, OPTION B)

Delete the eighth paragraph.

Revise the ninth paragraph to read:

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

1-08.3 Progress Schedule

Section 1-08.3 is supplemented with the following:

Schedule C – 1st Ave S (SW 312th St to SW 301st St): The Contractor shall not start any work within Schedule C until June 1, 2019, unless otherwise approved by the Engineer.

The Contractor is restricted to have two (2) schedules under construction at a time unless otherwise approved by the Engineer. "Under construction" for the purpose of this Section means any work up to and including the final pavement overlay.

Adequate equipment and forces based on the construction schedule shall be made available by the Contractor to start work immediately upon order of the Engineer and to carry out the schedule to completion of the contract by the date specified.

Sidewalk and curb ramps shall be completed within 10 working days of removal. No more than one (1) quadrant may be under construction at a time.

Should it become evident at any time during construction that operations will or may fall behind the schedule, the Contractor shall, upon request, promptly submit a revised schedule in the same form as specified herein, setting out operations, methods, and equipment, added labor forces or working shifts, night work, etc., by which time lost will be made up, and confer with the Engineer until an approved modification of the original schedule has been secured. Further, if at any time any portion of the accepted schedule is

found to conflict with the contract provisions, it shall, upon request, be revised by the Contractor and the work shall be performed in compliance with the contract provisions. Payments of any further estimates to the Contractor after such request is made and until an approved modified schedule has been provided by the Contractor may be withheld. Execution of the work according to the accepted schedule of construction, or approved modifications thereof, is hereby made an obligation of the contract.

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

Revise this section to read:

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

1-08.4 Prosecution of Work

Delete this section and replace it with the following:

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

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

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

1-08.5 Time for Completion
(September 12, 2016 APWA GSP, OPTION A)

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the Notice to Proceed Date.

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The

statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

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

1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
 - a. Certified Payrolls (per Section 1-07.9(5)).
 - b. Material Acceptance Certification Documents
 - c. Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
 - d. Final Contract Voucher Certification
 - e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
 - f. Property owner releases per Section 1-07.24

(March 13, 1995 WSDOT GSP, OPTION 7)

Section 1-08.5 is supplemented with the following:

This project shall be physically complete within **80 working days**.

1-08.9 Liquidated Damages

(August 14, 2013 APWA GSP)

Revise the fourth paragraph to read:

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine that the work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, the formula for liquidated damages shown above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the

Contractor shall furnish a written schedule for completing the physical Work on the Contract.

1-09 MEASUREMENT AND PAYMENT

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.

1-09.7 Mobilization (April 12, 2018 CFW GSP)

Supplement Section 1-09.7 with the following:

Obtaining a site for the Contractor's mobilization, field office(s), storage of materials, and other general operations shall be the responsibility of the Contractor. The Contractor shall provide the City with a copy of agreement(s) with property owner. All costs associated with securing sites shall be included in the other bid items on the project and no other compensation will be made.

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.

The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction Conference, to enable the Project Engineer to determine the Work performed on a monthly basis. A breakdown is not required for lump sum items that include a basis for incremental payments as part of the respective Specification. Absent

a lump sum breakdown, the Project Engineer will make a determination based on information available. The Project Engineer's determination of the cost of work shall be final.

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

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

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

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

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

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

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

1-09.9(1) Retainage

(June 27, 2011 WSDOT GSP, OPTION 1)

Section 1-09.9(1) content and title is deleted and replaced with the following:
Vacant

1-09.11 Disputes and Claims

1-09.11(3) Time Limitation and Jurisdiction

(July 23, 2015 APWA GSP)

Revise this section to read:

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

1-09.13 Claim Resolution

1-09.13(3) Claims \$250,000 or Less ***(October 1, 2005 APWA GSP)***

Delete this Section and replace it with the following:

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

1-09.13(3)A Administration of Arbitration ***(July 23, 2015 APWA GSP)***

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.05 shall control venue and jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

1-10 TEMPORARY TRAFFIC CONTROL

1-10.1 General

1-10.1(2) Description ***(April 12, 2018 CFW GSP)***

Section 1-10.1(2) is supplemented with the following:

Business Open During Construction Signs

The Contractor shall provide a "Business Open During Construction" sign at every non-residential driveway approach within the project limits. Business Open During Construction Signs shall be considered Construction Signs Class A.

City of Federal Way Project Signs

City of Federal Way Project signs shall be considered Construction Signs Class A. The Contractor shall provide two (2) project signs (4' x 8') per the detail available from the City.

1-10.2 Traffic Control Management

1-10.2(1) General

(January 3, 2017 WSDOT GSP, OPTION 1)

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

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 135th 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)B Traffic Control Supervisor

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

A Traffic Control Supervisor (TCS) shall be present on the project whenever flagging or other traffic control labor is being utilized. The City will not pay for any work performed by the TCS as described under Section 1-10.2(1)B but considered incidental to other bid items.

1-10.2(2) Traffic Control Plans

(April 12, 2018 CFW GSP)

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

The following minimum Traffic Control requirements shall be maintained during the construction of the project:

1. If the Contractor opts to utilize traffic control plans other than those provided in these Contract Documents, the Contractor shall provide traffic control plans to the City of Federal Way for review and approval a minimum of five (5) working days prior to implementation. These plans shall supplement

Construction Staging Plans. The plans as provided by the Contractor shall include and not be limited to the following information:

- Stop line locations with station and offset to verify safety of intersection turning radius for vehicles.
 - Minimum lane widths provided for vehicular travel.
 - Turn pocket length, gap, and tapers in conformance with the City of Federal Way Standard Detail DWG 3-19A.
2. Detours will not be allowed except as noted herein or Section 1-07.23(2) as amended.
 3. Temporary paint striping, reflective marking tape, and/or retroreflective tubular markers shall be required for each shift of traffic control. The Contractor shall provide temporary striping, reflective marking tape, and/or reflective tubular markers as required at the direction of the Engineer.
 4. The Contractor provided Traffic Control Plans shall lay out traffic control device spacing, tapers, etc., to scale, and shall contain accurate dimensions and legends and shall be signed by the preparer.

1-10.3 Traffic Control Labor, Procedures and Devices

1-10.3(1) Traffic Control Labor ***(April 12, 2018 CFW GSP)***

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

Off-Duty Uniformed Police Officer

The City shall reimburse the Contractor for the use of off-duty uniformed police officers at the invoiced cost with no mark-up per Standard Specifications 1-09.6 Force Account.

Off-duty uniformed police officer will be required only when the signal system is in flashing mode or is not operational or when otherwise deemed necessary by the Project Engineer.

The Contractor shall direct all Extra Duty requests, questions, or issues to Lynette Allen with the Federal Way Police Department at (253) 835-6701, or lynette.allen@cityoffederalway.com. On Fridays (or other times you cannot reach Lynette), please call (253) 835-6700 and ask for Diane Shines or Tami Parker.

If the Contractor needs to cancel a job on Saturday or Sunday, please call (253) 835-6851 and ask them to inform the officer that the job is cancelled. Follow that up with an email to Lynette Allen.

When scheduling off-duty uniformed police officers in the City of Federal Way, City of Federal Way Police Department (CFWPD) officers must be contacted first. If CFWPD cannot fill the job, off-duty King County Sheriff's Officers or Washington State Patrol Officers are allowed to work within the City of Federal Way, but must receive the CFWPD Chief's prior permission to work extra duty and fill the Contractor's request. No other agencies or private companies are authorized to perform off duty work within the City of Federal Way without project-specific approval from the CFWPD Chief or their designee. The CFWPD

Chief has designated Lynette Allen as the program administrator so she can give the required permission.

The use of off-duty uniformed police officers shall be in accordance with the City of Federal Way Police Department's guidelines as follows:

- The Contractor will be billed for the entire duration of the job as it was requested. For example, if the Contractor requested an officer for 8 hours and the job was completed in 4 hours, the Contractor will still be billed for the entire 8 hours. A minimum of three (3) hours call out time shall be paid by the Contractor for each request for off-duty police officers.
- If a job is cancelled with less than 24 hours' notice, the Contractor will be required to pay a 3 hour minimum. It shall be the Contractor's responsibility to arrange a work schedule to minimize any additional costs incurred by the minimum three (3) hour call out requirement. No reimbursement of any portion of the minimum callout will be allowed where Contractor-made schedule revisions occur after an off-duty officer has been procured.
- The Contractor's request for a police officer does not guarantee they will get one. The Contractor must provide the date(s), times, location, and other details of their request and the CFWPD will put the job out to the officers. Whether an officer signs up for it depends on many variables, especially their availability on the day requested. The more advance notice provided by the Contractor, the more likely it is that the job will be filled. Requests shall be made a minimum of forty-eight (48) hours before the use of the off-duty police officers on the project site.
- The officer usually arrives at the extra duty job in a police car.
- Officers cannot work extra duty jobs in plain clothes; they must wear their police uniform.
- If a major emergency occurs, the off-duty officer may be pulled from the project. An officer may also get pulled off the job if he/she is required to appear in court.
- Officers must be given breaks and lunch according to the Federal Labor Standards Act (FLSA).

1-10.4 Measurement

Section 1-10.4 is supplemented with the following:

Flaggers and Spotters will be measured by the hour.

Other Traffic Control Labor will be measured by the hour.

Traffic Control Supervisor will not be measured.

Off Duty Uniformed Police Officer will be measured by force account.

Construction Signs Class A will be measured by square feet.

Portable Changeable Message Signs will be measured per day.

1-10.5 Payment

Section 1-10.5 is supplemented with the following:

"Flaggers and Spotters", per hour.

"Other Traffic Control Labor", per hour.

"Traffic Control Supervisor", incidental to other bid items.

"Off Duty Uniformed Police Officer", per force account.

"Construction Signs Class A", per square feet.

"Portable Changeable Message Sign", per day.

Payment shall be limited to the labor required for flagging and handling signs and traffic control devices which are placed and removed or adjusted daily.

It will be the Contractor's responsibility to provide, for the Engineer's concurrence, a detailed summary of time expended on this item at the end of each working day. Pay quantities will be prepared on the basis of these daily summaries. Time which does not appear on these daily summaries will not be honored for payment.

All other items of work included in this section and/or which are necessary for traffic control are incidental to the Contract, and no separate payment will be made. This includes but is not limited to: Traffic Control Supervisor, special signs required specifically for the project, costs for cones, barricades, sequential arrow-boards, temporary pavement markings and other construction signing used on the project.

Any special signs used will become property of the Owner upon completion of the project and will be delivered to the Owner by the Contractor (refer also to Section 8-30 of these Special Provision).

The unit contract price per day for "Portable Changeable Message Signs" shall include all costs for furnishing the PCMS, transporting the PCMS to and from each project site, and maintaining the PCMS.

END OF DIVISION 1

DIVISION 2 EARTHWORK

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.1 Description

(March 13, 1995 WSDOT GSP, OPTION 1)

Section 2-01.1 is supplemented with the following:

(City of Federal Way)

Clearing and grubbing on this project shall be performed within the limits shown in the plans.

2-01.3 Construction Requirements

2-01.4 Measurement

Section 2-01.4 is supplemented with the following:

(City of Federal Way)

No specific unit of measurement will apply to the force account item of "Roadside Cleanup".

2-01.5 Payment

(April 12, 2018 CFW GSP)

Section 2-01.5 is supplemented with the following:

"Roadside Cleanup", force account.

2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

2-02.1 Description

(September 30, 1996 WSDOT GSP, OPTION 4)

Section 2-02.1 is supplemented with the following:

The Contractor is advised that asbestos may be present on this project.

2-02.3 Construction Requirements

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

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

1. All removed concrete pieces shall become the property of the Contractor and shall be removed from the project.
2. Prior to removal, the Contractor shall make a full-depth vertical sawcut between any sidewalk, curb ramp or curb and gutter that is to remain and the portion to be removed. The sawcut shall be at the nearest joint to form a neat line for removal from the project site.
3. The Contractor shall replace at no expense to the Owner and to the satisfaction of the Engineer any existing pavement, sidewalk, curb ramp, or curb and gutter designated to remain that is damaged during the removal operation.

4. The contractor shall make a neat full depth vertical sawcut in the existing pavement at a minimum distance of one (1) foot from the curb and gutter to be removed to provide a large enough area to build to curb and place and compact a pavement section. The approximate thickness of the existing asphalt concrete pavement in the roadway varies. Contractor's attention is also drawn to Section 8-04.3 of the Special Provisions. See Standard Plans for details.
5. The equipment and procedures used to make the full-depth sawcut shall be approved by the engineer. No waste water from the sawcutting operation shall be released directly to any stream or storm sewer system.
6. Extra care shall be taken to protect existing traffic loops that are to remain, when removing and replacing curb and gutter. Any traffic loops damaged by the Contractor shall be replaced at the Contractor's expense.
7. Pedestrian and wheel chair access to sidewalks must be maintained to one side of each street at all times. The Contractor shall only remove and replace existing cement concrete sidewalk(s), curb and gutter(s), curb ramp(s) at one quadrant of an intersection at a time. If it is not possible to restrict access to one side quadrant of a street, the Contractor must provide proper wheelchair accessible pedestrian detours, per the MUTCD, around closed sidewalk areas.

2-02.3(4) Removal of Pavement Markings

New Section

(City of Federal Way)

All pavement markings, including, but not limited to: paint, lane markers, traffic buttons, plastic markings, and adhesive residue shall be removed prior to overlay. This work shall be incidental to other bid items of the contract, and no separate payment will be made.

2-02.4 Measurement

(April 12, 2018 CFW GSP)

Section 2-02.4 Vacant shall be deleted and replaced with the following:

"Asphalt Conc. Pavement Sawcutting" will be measured by the linear foot and full-depth sawcut.

"Cement Conc. Sawcutting" will be measured by the linear foot and full-depth sawcut.

"Removal of Cement Conc. Sidewalk" will be measured by square yard.

"Removal of Cement Conc. Type C Traffic Curb" will be measured by linear foot.

"Removal of Mountable Cement Conc. Curb" will be measured by linear foot.

Removal of asphalt concrete pavement and base associated with the Removal of Cement Conc. Curb and Gutters, will not be measured, but will be considered as part of "Removal Cement Conc. Curb and Gutter" and "Removal of Cement Conc. Sidewalk".

2-02.5 Payment

(April 12, 2018 CFW GSP)

Section 2-02.5 is supplemented with the following:

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

“Asphalt Conc. Pavement Sawcutting”, per linear foot.

“Cement Conc. Sawcutting”, per linear foot.

“Removal of Cement Conc. Sidewalk” per square yard.

“Removal of Cement Conc. Type C Traffic Curb”, per linear foot.

“Removal of Mountable Cement Conc. Curb”, per linear foot.

“Asphalt Conc. Pavement Sawcutting” will be paid for sawcutting asphalt concrete pavement in front of the curb and gutter. Sawcutting will not be paid for HMA pavement repair.

“Cement Conc. Sawcutting” will be paid for sawcutting associated with cement concrete sidewalk, ramp, and curb and gutter removal.

The unit contract price per square yard for “Removal of Cement Conc. Sidewalk” shall include removal, haul, and disposal of existing concrete sidewalk, curb ramps, and curb and gutter.

2-03 ROADWAY EXCAVATION AND EMBANKMENT

2-03.2 Pavement Removal

(April 12, 2018 CFW GSP)

Section 2-03.2 is replaced with the following:

Where shown in the Plans or where designated by the Engineer, the Contractor shall remove asphalt, concrete, Portland cement concrete pavement, sidewalks and curbs.

Prior to removal, the Contractor shall make a full-depth sawcut to delineate the areas of pavement removal from those areas of pavement to remain. The Engineer shall approve the equipment and procedures used to make the full-depth sawcut. No wastewater from the sawcutting operation shall be released directly to any stream or storm sewer system. Alternatively, the Contractor may elect grinding for pavement removal, where appropriate.

The removed pavement shall become the property of the Contractor and shall be removed from the project. Damage caused to portions of the pavement to remain, due to the Contractor's operation, shall be repaired by the Contractor at the Contractor's expense and to the satisfaction of the Engineer.

Removal of asphalt conc. pavement throughout the project shall be measured and paid as “Roadway Excavation Incl. Haul” and no additional payment will be made.

2-03.3 Construction Requirements

Section 2-03.3(14)N Wet Weather Earthwork

(April 12, 2018 CFW GSP)

Section 2-03.3(14)N is a new section:

Earthwork completed in wet weather or under wet conditions shall be accomplished in small sections to minimize exposure to wet weather. Each section shall be sufficiently small so that the removal of soil and placement of backfill can be accomplished on the same day. No soil shall be left uncompacted and exposed to water. Soil that is too wet for compaction shall be removed and replaced with Gravel Borrow material. Grading and earthwork should not be accomplished during periods of heavy continuous rainfall.

2-03.4 Measurement

Section 2-03.4 is supplemented with the following:

"Roadway Excavation Incl. Haul" measurement for roadway excavation including haul shall be in accordance with Section 2-03.4 of the Standard Specifications.

2-03.5 Payment

(April 12, 2018 CFW GSP)

Section 2-03.5 is supplemented with the following:

"Roadway Excavation Incl. Haul" shall be paid by the cubic yard. No separate payment will be made for haul or wasting excavated material.

Payment per cubic yard for "Roadway Excavation Incl. Haul" shall be for pavement repair only. Sidewalk, curb ramp, and curb and gutter removal shall be paid under removal of cement conc. sidewalk.

2-06 SUBGRADE PREPARATION

Subgrade preparation for Pavement Repair and Roadway Widening shall be accomplished in accordance with section 2-06.

2-06.3(2) Subgrade for Pavement

Section 2-06.3(2) is supplemented with the following:

At locations designated in the field by the Engineer, the existing roadway will be widened or reconstructed. The existing and final pavement widths vary, and shall be as determined by the Engineer.

2-06.5 Measurement and Payment

Section 2-06.5 is supplemented with the following:

All costs for providing materials and construction for subgrade preparation, shall be included in the contract prices for "Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul", and "HMA Class 1/2" PG 58H-22 for Pavement Repair and Roadway Widening", respectively.

2-07 WATERING

2-07.1 Description

Section 2-07.1 is supplemented with the following:

Water required for compacting embankments, construction subgrade, placing crushed surfacing, grinding, pulverizing, dust control, and as the Engineer requires shall be provided in accordance with Section 2-07.3 of the Standard Specifications.

2-07.5 Payment

Section 2-76.5 is supplemented with the following:

All costs for providing and applying water shall be considered incidental to and included in the unit contract prices for the various items involved.

END OF DIVISION 2

**DIVISION 3
AGGREGATE PRODUCTION AND ACCEPTANCE**

3-01 PRODUCTION FROM QUARRY AND PIT SITES

3-01.4 Contractor Furnished Material Sources

3-01.4(1) Acquisition and Development

(April 12, 2018 CFW GSP)

Section 3-01.4(1) is supplemented with the following:

No source has been provided for any materials necessary for the construction of these improvements.

If the source of material provided by the Contractor necessitates hauling over roads other than City streets, the Contractor shall, at his own cost and expense, make all arrangements for the use of haul routes.

END OF DIVISION 3

DIVISION 4 BASES

Wherever specifications are made for "Pavement Repair and Roadway Widening" in the following division, they shall also apply to "Shoulder Reconstruction and Shoulder Widening".

4-04 BALLAST AND CRUSHED SURFACING

4-04.1 Description

Section 4-04.1 is supplemented with the following:

Crushed Surfacing Top Course for Pavement Repair and Roadway Widening, Incl. Haul shall be accomplished in accordance with Section 4-04 of the Standard Specifications.

4-04.2 Materials

Section 4-04.2 is supplemented with the following:

5/8" Minus crushed rock may be substituted for Maintenance Rock for Shoulder Reconstruction.

4-04.4 Measurement

Section 4-04.4 is supplemented with the following:

"Maintenance Rock for Shoulder Reconstruction, Incl. Haul" will be measured by the ton.

4-04.5 Payment

Section 4-04.5 is supplemented with the following:

Payment will be made for the following bid items:

1. "Maintenance Rock for Shoulder Reconstruction, Incl. Haul", per ton.

The Contract bid price above, including all incidental work, shall be full compensation for all labor, materials, tools, and equipment necessary to satisfactorily complete the work as defined in the Standard Specifications and these Special Provisions.

END OF DIVISION 4

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.

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

Section 5-04.2 is supplemented with the following:

All HMA shall be HMA Cl. 1/2" PG 58H-22
Crack Sealing CSS-1 emulsified asphalt
Tack Coat CSS-1 emulsified asphalt

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

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

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

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

5-04.3(2) Paving Under Traffic

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

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

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

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

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

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant

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

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

5-04.3(3)B Hauling Equipment

Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall have a cover of canvas or other suitable material of sufficient size to protect the mixture from adverse weather. Whenever the weather conditions during the work shift include, or are

forecast to include, precipitation or an air temperature less than 45°F or when time from loading to unloading exceeds 30 minutes, the cover shall be securely attached to protect the HMA.

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

5-04.3(3)D Material Transfer Device/Vehicle

Section 5-04.3(3)D is supplemented with the following:

Delete Section 5-04.3(3)D entirely.

5-04.3(4)A Crack Sealing

5-04.3(4)A1 General

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

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

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

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

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

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

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

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

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

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

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

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

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

5-04.3(4)C Pavement Repair

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

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

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

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

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

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

5-04.3(6) Mixing

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

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

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

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

5-04.3(7) Spreading and Finishing

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

HMA Class 1"	0.35 feet
HMA Class ¾" and HMA Class ½"	

wearing course	0.30 feet
other courses	0.35 feet
HMA Class 3/8"	0.15 feet

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

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

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

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

5-04.3(9) HMA Mixture Acceptance

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

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

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

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

HMA Tolerances and Adjustments

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

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

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

For Aggregates in the mixture:

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

Aggregate	Percent	Non-Statistical	Commercial Evaluation

Passing	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%

- b. Second, adjust the preliminary upper and lower acceptance limits determined from step (a) the minimum amount necessary so that none of the aggregate properties are outside the control points in Section 9-03.8(6). The resulting values will be the upper and lower acceptance limits for aggregates, as well as the USL and LSL required in Section 1-06.2(2)D2.
2. Job Mix Formula Adjustments – An adjustment to the aggregate gradation or asphalt binder content of the JMF requires approval of the Engineer. Adjustments to the JMF will only be considered if the change produces material of equal or better quality and may require the development of a new mix design if the adjustment exceeds the amounts listed below.
 - a. **Aggregates** –2 percent for the aggregate passing the 1½", 1", ¾", ½", ⅜", and the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and 0.5 percent for the aggregate passing the No. 200 sieve. The adjusted JMF shall be within the range of the control points in Section 9-03.8(6).
 - b. **Asphalt Binder Content** – The Engineer may order or approve changes to asphalt binder content. The maximum adjustment from the approved mix design for the asphalt binder content shall be 0.3 percent

5-04.3(9)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:

- 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 Va will at the option of the Contracting Agency. If tested, compliance of Va 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 (Va) (where applicable)	20

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

5-04.3(9)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, Va. 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.

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(10) HMA Compaction Acceptance

HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including lanes for intersections, ramps, truck climbing, weaving, and speed change, and having a specified compacted course thickness greater than 0.10-foot, shall be compacted to a specified level of relative density. The specified level of relative density shall be a Composite Pay Factor (CPF) of not less than 0.75 when evaluated in accordance with Section 1-06.2, using a LSL of 92.0 (minimum of 92 percent of the maximum density). The maximum density shall be determined by WSDOT FOP for AASHTO T 729. The specified level of density attained will be determined by the evaluation of the density of

the pavement. The density of the pavement shall be determined in accordance with WSDOT FOP for WAQTC TM 8, except that gauge correlation will be at the discretion of the Engineer, when using the nuclear density gauge and WSDOT SOP 736 when using cores to determine density.

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

If the Contracting Agency uses a nuclear density gauge to determine density the test procedures FOP for WAQTC TM 8 and WSDOT SOP T 729 will be used on the day the mix is placed and prior to opening to traffic.

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

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

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

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

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

Test Results

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

When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the subplot have been provided or made available to the Contractor. Core locations shall be outside of wheel paths and as determined by the Engineer. Traffic control shall be provided by the

Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for cores. When the CPF for the lot based on the results of the HMA cores is less than 1.00, the cost for the coring will be deducted from any monies due or that may become due the Contractor under the Contract at the rate of \$200 per core and the Contractor shall pay for the cost of the traffic control.

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

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

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

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

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

5-04.3(10)D HMA Nonstatistical Compaction

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

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

A lot is represented by randomly selected samples of the same mix design that will be tested for acceptance. A lot is defined as the total quantity of material or work produced for each Job Mix Formula placed. Only one lot per JMF is expected. A subplot shall be equal to one day's production or 400 tons, whichever is less except that the final subplot will be a minimum of 200 tons and may be increased to 800 tons. Testing for compaction will be at the rate of 5 tests per subplot per WSDOT T 738.

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

HMA mixture accepted by commercial evaluation and HMA constructed under conditions other than those listed above shall be compacted on the basis of a test point evaluation

of the compaction train. The test point evaluation shall be performed in accordance with instructions from the Engineer. The number of passes with an approved compaction train, required to attain the maximum test point density, shall be used on all subsequent paving.

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

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

The location of the HMA compaction acceptance tests will be randomly selected by the Engineer from within each subplot, with one test per subplot.

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

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

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

5-04.3(11) Reject Work

5-04.3(11)A Reject Work General

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

5-04.3(11)B Rejection by Contractor

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

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

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

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

5-04.3(13) Surface Smoothness

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Contractor performs the planing operations no more than seven (7) calendar days ahead of the time the planed area is to be paved with HMA, unless otherwise allowed by the Engineer in writing.

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

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

Should such metal be identified, promptly notify the Engineer.

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

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

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

5-04.3(14)B1 General

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

1. Intersections:
 - a. Keep intersections open to traffic at all times, except when paving or planing operations through an intersection requires closure. Such closure must be kept to the minimum time required to place and compact the HMA mixture, or plane as appropriate. For paving, schedule such closure to individual lanes or portions thereof that allows the traffic volumes and schedule of traffic volumes required in the approved traffic control plan. Schedule work so that adjacent intersections are not impacted at the same time and comply with the traffic control restrictions required by the Traffic Engineer. Each individual intersection closure or partial closure, must be addressed in the traffic control plan, which must be submitted to and accepted by the Engineer, see Section 1-10.2(2).
 - b. When planing or paving and related construction must occur in an intersection, consider scheduling and sequencing such work into quarters of the intersection, or half or more of an intersection with side street detours. Be prepared to sequence the work to individual lanes or portions thereof.
 - c. Should closure of the intersection in its entirety be necessary, and no trolley service is impacted, keep such closure to the minimum time required to place and compact the HMA mixture, plane, remove asphalt, tack coat, and as needed.
 - d. Any work in an intersection requires advance warning in both signage and a number of Working Days advance notice as determined by the Engineer, to alert traffic and emergency services of the intersection closure or partial closure.
 - e. Allow new compacted HMA asphalt to cool to ambient temperature before any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until approval has been obtained from the Engineer.
2. Temporary centerline marking, post-paving temporary marking, temporary stop bars, and maintaining temporary pavement marking must comply with Section 8-23.
3. Permanent pavement marking must comply with Section 8-22.

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

The Contractor must submit a separate planing plan and a separate paving plan to the Engineer at least 5 Working Days in advance of each operation's activity start date. These plans must show how the moving operation and traffic control are coordinated, as they will be discussed at the pre-planing briefing and pre-paving briefing. When requested by the Engineer, the Contractor must provide each operation's traffic control

plan on 24 x 36 inch or larger size Shop Drawings with a scale showing both the area of operation and sufficient detail of traffic beyond the area of operation where detour traffic may be required. The scale on the Shop Drawings is 1 inch = 20 feet, which may be changed if the Engineer agrees sufficient detail is shown.

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

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

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

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

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

At least 2 Working Days before the first paving operation and the first planing operation, 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:
 - a. The actual times of starting and ending daily operations.
 - b. In intersections, how to break up the intersection, and address traffic control and signalization for that operation, including use of peace officers.
 - c. The sequencing and scheduling of paving operations and of planing operations, as applicable, as it relates to traffic control, to public convenience and safety, and to other contractors who may operate in the Project Site.
 - d. Notifications required of Contractor activities, and coordinating with other entities and the public as necessary.
 - e. Description of the sequencing of installation and types of temporary pavement markings as it relates to planning and to paving.
 - f. Description of the sequencing of installation of, and the removal of, temporary pavement patch material around exposed castings and as may be needed
 - g. Description of procedures and equipment to identify hidden metal in the pavement, such as survey monumentation, monitoring wells, street car rail, and castings, before planning, see Section 5-04.3(14)B2.
 - h. Description of how flaggers will be coordinated with the planing, paving, and related operations.
 - i. Description of sequencing of traffic controls for the process of rigid pavement base repairs.
 - j. Other items the Engineer deems necessary to address.
2. Paving – additional topics:
 - a. When to start applying tack and coordinating with paving.
 - b. Types of equipment and numbers of each type equipment to be used. If more pieces of equipment than personnel are proposed, describe the sequencing of the personnel operating the types of equipment. Discuss the continuance of operator personnel for each type equipment as it relates to meeting Specification requirements.
 - c. Number of JMFs to be placed, and if more than one JMF how the Contractor will ensure different JMFs are distinguished, how pavers and MTVs are distinguished if more than one JMF is being placed at the time, and how pavers and MTVs are cleaned so that one JMF does not adversely influence the other JMF.
 - d. Description of contingency plans for that day's operations such as equipment breakdown, rain out, and Supplier shutdown of operations.
 - e. Number of sublots to be placed, sequencing of density testing, and other sampling and testing.

5-04.3(15) Sealing Pavement Surfaces

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

5-04.3(16) HMA Road Approaches

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

5-04.4 Measurement

Section 5-04.4 is supplemented with the following:

HMA Cl. 1/2" PG 58H-22 will be measured by the ton.

HMA Cl. 1/2" PG 58H-22 for Preleveling will be measured by the ton.

HMA Cl. 1/2" PG 58H-22 for Pavement Repair will be measured by the ton.

Planing Bituminous Pavement will be measured by the square yard.

Tack Coat will not be measured.

Soil Residual Herbicide will be measured by force account.

5-04.5 Payment

Section 5-04.5 is supplemented with the following:

"HMA Cl. 1/2" PG 58H-22", per ton.

"HMA Cl. 1/2" PG 58H-22 for Preleveling", per ton.

"HMA Cl. 1/2" PG 58H-22 for Pavement Repair", per ton.

"Planing Bituminous Pavement", per square yard.

"Tack Coat" will be incidental.

"Soil Residual Herbicide", per force account.

The unit Contract price per ton for "HMA Cl. 1/2" PG 58H-22", "HMA Cl. 1/2" PG 58H-22 for Preleveling" and "HMA Cl. 1/2" PG 58H-22 for Pavement Repair" 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.

"Crack Sealing", by force account.

"Crack Sealing" will be paid for by force account as specified in Section 1-09.6. For the purpose of providing a common Proposal for all Bidders, the Contracting Agency has entered an amount in the Proposal to become a part of the total Bid by the Contractor.

"Planing Bituminous Pavement", per square yard.

The unit Contract price per square yard for "Planing Bituminous Pavement" shall be full payment for all costs incurred to perform the Work described in Section 5-04.3(14).

END OF DIVISION 5

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

7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS

7-05.3 Construction Requirements

(April 12, 2018 CFW GSP)

Section 7-05.3 is supplemented with the following:

Storm drain cleanouts shall be provided for retaining wall drainage and connected to the storm drainage system at the locations specified on the plans or as directed by the Engineer.

All lids located within sidewalk areas must meet ADA requirements and be slip-resistant.

The following requirements shall be applicable to both existing and proposed structures, as shown on the plans, or as designated by the Engineer:

Vaned Grate vs Solid Lid

A vaned grate and associated frame shall be installed on manholes and catch basins located where they will accept runoff. Bi-directional vaned grates shall be installed at all roadway sag locations and at low points along curb returns.

All structures not receiving surface runoff shall include solid lids, unless otherwise indicated on the plans or directed by the Engineer.

Locking vs Non-Locking Lid

All lids and frames shall be locking unless shown as non-locking on plans or directed otherwise by the Engineer. The Contractor shall place anti-seize compound on all locking lid bolts prior to the final project punch list inspection.

Round vs Square Lid

All structures, new or existing, shall utilize round lids, except for those that accept surface runoff (i.e. those located along a gutter flow line). Catch basins shall include conversion risers to accommodate round lids where indicated in the plans or directed by the Engineer.

Heavy-Duty Hinged Frames and Covers

Heavy-duty hinged frames and covers shall be installed whenever round, solid lids are required as outlined above.

7-05.3(1) Adjusting Manholes, Valve Boxes and Catch Basins to Grade

(April 12, 2018 CFW GSP)

Section 7-05.3 is supplemented with the following:

Manholes, valve boxes, catch basins, and other structures shall not be adjusted to final grade until the adjacent pavement is completed, at which time the center of each structure shall be carefully relocated from references previously established by the Contractor. The asphalt concrete pavement shall be removed to a neat circular shape for circular grates and covers and a neat rectangular

shape for rectangular grates and covers. The edge of the cut shall be 1.5 feet from the outside edge of the cast iron frame of the structure. The base materials and crushed rock shall be removed to the full depth of adjustment plus 2 inches. The manhole and catch basin frames shall be lifted and reset to the final grade, plumb to the roadway, and shall remain operational and accessible. (Reference City of Federal Way Standard Drawing 3-55 for Utility Adjustment).

The Contractor shall adjust manholes and catch basins with pre-cast grade rings, and mortar and high impact adjustment risers with a maximum 2-inch thickness where required for heavy-duty frames and covers within the travelled roadway. Metal adjustment rings shall not be used. If more than three grade rings are required to adjust a manhole or Type 2 catch basin to final grade, including existing grade rings, the Contractor shall remove the existing cone section or top slab, install a pre-cast manhole section of sufficient height to limit the number of grade rings to a maximum of three, and reinstall the cone section or top slab prior to paving operations. Grade adjustment rings and high impact riser installation shall be inspected by the Engineer prior to frame installation. Cover and grate frames shall be securely grouted to the structure.

Where existing structures are located within the wheel path of a proposed travel lane, catch basins adjusted to grade shall also include conversion risers and heavy duty locking frames and covers and high-impact risers per Section 7-05.3(6).

Following frame installation, the edges of the removed asphalt pavement and the outer edge of the reset frame shall be painted with asphalt for tack coat. The entire void around the adjustment shall then be filled with Commercial HMA, placed and compacted in maximum 3-inch lifts, to match the adjacent pavement surface. The joint between the patch and existing pavement shall then be painted with asphalt for tack coat and immediately covered with dry paving sand before the asphalt for tack coat solidifies.

All catch basin frames and grates removed shall remain the property of the City and shall be delivered by the Contractor to the City as directed by the Engineer.

7-05.3(5) Repair, Rebuild or Re-align Manholes and Catch Basins

(April 12, 2018 CFW GSP)

Section 7-05.3(5) is supplemented with the following:

Where existing manholes and catch basins were poured monolithic with the curb and gutter and removal of the adjacent curb and gutter damages the existing structure; or where the horizontal alignment of the existing manhole or catch basin requires re-aligning and adjusting the structure elevation; or where manholes or catch basins are damaged during grinding, the contractor shall remove the existing frame and grate, adjustment bricks and adjustment risers down to the structure base and rebuild the structure per Section 7-05.3.

7-05.3(6) Adjust Existing Utility to Grade

(April 12, 2018 CFW GSP)

Section 7-05.3(6) is a new section:

As shown in the Plans, existing utilities such as monuments, manholes, water valves, and meter boxes shall be adjusted to finished grade. The Contractor

shall familiarize itself with the existing utility locations prior to the beginning of any work. The Contractor shall adjust City-owned utilities. Final adjustment shall be smooth and flush with finished grade. The Contractor shall mark the location of all utilities prior to paving the new surface. Unless otherwise provide in the Special Provisions and Proposal, costs for adjusting utilities to grade, including coordinating the work with other utilities, shall be incidental to the various items of work and no additional compensation will be allowed.

Existing facilities shall be adjusted to the finished grade as shown in the Plans and as further specified herein. Existing box, ring, grate, and cover shall be reset in a careful and workmanlike manner to conform to the new grade. Special care shall be exercised in all operations. Any damage occurring to the manholes, concrete catch basins, monument cases, valve boxes, or water mains, due to the Contractor's operations, shall be repaired at the Contractor's own expense. Adjustments shall be made using bricks, concrete blocks, or cement, and the interior of the manhole adjustment shall be mortared smoothly. All covers and frames shall be thoroughly cleaned. The Contractor shall be responsible for referencing and keeping a record of such references of all manholes, catch basins, monument cases, meter boxes, and valve boxes encountered, and shall submit a copy of these references to the Engineer.

7-05.3(7) Re-grout Catch Basin
(April 12, 2018 CFW GSP)

Section 7-05.3(7) is supplemented with the following:

Existing Catch Basins interior walls and joints shall be grouted and watertight as directed by the Engineer. The joints shall be grouted using a ¾ inch layer of non-shrink mortar. Plastered smooth inside the frame and pipe joints. Mortar shall conform to the requirements of Section 9-20.4(3).

7-05.4 Measurement

Section 7-05.4 is supplemented with the following:

- "Adjust Manhole", will be measured per each.
- "Adjust Catch Basin", will be measured per each.
- "Replace Existing Frame and Grate with Ergo Frame and Lid and Adjust to Finished Grade", will be measured per each.
- "Repair or Rebuild Manhole", will be measured per each.
- "Adjust Existing Utility to Grade", will be measured per each.
- "Re-grout Catch Basin", will be measured per each.

7-05.5 Payment

Payment will be made for each of the following bid items that are included in the proposal:

- "Adjust Manhole", per each.
- "Adjust Catch Basin", per each.
- "Replace Existing Frame and Grate with Ergo Frame and Lid and Adjust to Finished Grade", per each.
- "Repair or Rebuild Manhole", per each.
- "Adjust Existing Utility to Grade", per each.
- "Re-grout Catch Basin", per each

The unit contract price for catch basins and/or manholes shall be full pay for furnishing all labor, tools, equipment, and materials necessary to complete each unit according to the Plans and Specifications. This includes all sawcutting, pavement removal and disposal, excavation, dewatering (if required), temporary flow bypass, connections to existing and new pipe, foundation material, bedding, imported or native backfill, compaction, surface restoration, testing, and furnishing and placing of all accessories and conversion risers, temporary patching hot mix to allow for the passage of traffic, and other items as applicable. Frames and grates or rings and covers, grade rings and adjustment risers including conversion risers shall be considered incidental to this bid item and will not be measured for separate payment.

The unit contract price for “Adjust Manhole” and/or “Adjust Catch Basin” and/or “Adjust Existing Utility to Grade” applies to existing storm drainage catch basins, inlets, and manholes that require adjustment to grade by addition or removal of adjustment risers. The unit contract price includes all labor, tools, equipment, and materials necessary to adjust drainage structures to finished grade, sawcutting, temporary patching hot mix to allow for the passage of traffic, restoration of the area around the adjusted structure, and providing new rings and covers or frames and grates. Grade rings and adjustment risers (concrete or high-impact) shall be considered incidental to this bid item and will not be measured for separate payment.

The City of Federal Way will provide ERGO heavy duty frames and covers, and Infra-Riser high impact rubber composite adjustment risers for specified manholes or catch basins.

END OF DIVISION 7

DIVISION 8 MISCELLANEOUS CONSTRUCTION

8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

8-01.3 Construction Requirements

8-01.3(1) General

Section 8-01.3(1) is supplemented with the following:

(City of Federal Way)

The Contractor shall, prior to disruption of the normal water course, intercept the offsite stormwater and pipe it either through or around the project site in such a manner that it is not combined with offsite stormwater and it is discharged at its preconstruction outfall point in such a manner that there is no increase in erosion below the site

The method for performing this work shall be included in the Contractor's temporary erosion control plan.

8-01.3(1)A Submittals

(April 12, 2018 CFW GSP)

Section 8-01.3(1)A is revised to read:

A Stormwater Pollution Prevention Plan (SWPPP) shall be prepared by the Contractor and submitted for approval to the Engineer. The plan shall consist of the Contractor's complete strategy to meet the requirements of the Department of Ecology's NPDES and State Waste Discharge General Permit for Stormwater Discharges Associated With Construction Activity (General Permit). The SWPPP shall include and modify as necessary the Site Preparation and Erosion Control Plan drawings provided as part of the Contract Plans. The Contractor shall prepare review and modify the SWPPP as necessary to be consistent with the actual work schedule, sequencing, and construction methods that will be used on the project. The Contractor's SWPPP shall meet the requirements of the general permit. The Contractor's modifications to the SWPPP shall also incorporate the content and requirements for the Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with Section 1-07.15(1).

The SWPPP shall document all the erosion and sediment control Best Management Practices (BMPs) proposed, whether permanent or temporary. The plan shall document installation procedures, materials, scheduling, and maintenance procedures for each erosion and sediment control BMP. The Contractor shall submit the SWPPP for the Engineer's approval before any work begins. The Contractor shall allow at least five working days for the Engineer's review of the initial SWPPP or any revisions to the modified SWPPP. Failure to approve all or part of any such plan shall not make the Contracting Agency liable to the Contractor for any work delays. The Contractor may not begin work without an approved Contractor's SWPPP.

The Contractor shall complete and modify the SWPPP to meet the Contractor's schedule and method of construction. All TESC Plans shall meet the

requirements of the current edition of the WSDOT Temporary Erosion and Sediment Control Manual M 3109 and be adapted as needed throughout construction based on site inspections and discharge samples to maintain compliance with the CSWGP. The Contractor shall develop a schedule for implementation of the SWPPP work and incorporate it into the Contractor's progress schedule.

In addition, the SWPPP shall outline the procedures to be used to prevent high pH stormwater or dewatering water from entering surface waters. The plan shall include how the pH of the water will be maintained between pH 6.5 and pH 8.5 prior to being discharged from the project or entering surface waters. Prior to beginning any concrete or grinding work, the Contractor shall submit the plan, for the Engineer's review and approval.

As a minimum, the SWPPP shall include all the SWPPP requirements identified in the General Permit, including:

Narrative discussing and justifying erosion control decisions (12 elements)

Drawings illustrating BMPs types and locations

Engineering calculations for ponds and vaults used for erosion control

A schedule for phased installation and removal of the proposed BMPs, including:

- A. BMPs that will be installed at the beginning of project startup.
- B. BMPs that will be installed at the beginning of each construction season.
- C. BMPs that will be installed at the end of each construction season.
- D. BMPs that will be removed at the end of each construction season.
- E. BMPs that will be removed upon completion of the project.

An Ecology template is available to the Contractor for producing the SWPPP, using project- specific information added by the Contractor. The template and instructions are available at:

<http://www.ecy.wa.gov/programs/wq/stormwater/construction/>

Turbidity and pH Exceedances

Following any exceedances of the turbidity or pH benchmarks, the Contractor shall provide the following at no additional cost to the Contracting agency:

1. The necessary SWPPP revisions and on-site measures/revisions including additional source control, BMP maintenance, and/or additional stormwater treatment BMPs that are necessary to prevent continued exceedance of turbidity and/or pH benchmarks.
2. The regulatory notification to the Dept. of Ecology and to the Engineer of any monitoring results requiring regulatory notification.

3. The additional daily sampling and reporting measures described in the General Permit to verify when project site runoff is in compliance.

8-01.4 Measurement

Section 8-01.4 is supplemented with the following:

Inlet Protection Insert will not be measured.

8-01.5 Payment

Section 8-01.5 is supplemented with the following:

“Inlet Protection Insert” is incidental.

All costs associated with the treatment of pH in high pH stormwater or dewatering water shall be included in the applicable concrete, grinding or sawcutting items of work.

8-2 ROADSIDE RESTORATION

8-02.2 Materials

Section 8-02.2 is supplemented with the following:

Materials shall meet the requirements of the following sections:

Soil	9-14.1
Sod	9-14.6(8)

8-02.3(13) Plant Establishment

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

(City of Federal Way)

Plant establishment shall consist of insuring resumption and continued growth of all planted material including trees, shrubs, ground cover, lawn sod and seeded areas for a period of one (1) year. This shall include, but is not limited to labor and materials necessary for removal and replacement of any rejected plant material planted under this contract.

8-02.4 Measurement

The first paragraph of Section 8-02.4 is revised as follows:

(City of Federal Way)

Sod Lawn, Incl. 4 in Topsoil will be measured per square yard.

8-02.5 Payment

Section 8-02.5 is supplemented with the following:

(January 14, 2017)

“Sod Lawn, Incl. 4 in Topsoil”, per square yard.

8-03 IRRIGATION SYSTEMS

8-03.3 Construction Requirements

The first paragraph of Section 8-03.3 is supplemented with the following:

(City of Federal Way)

Private sprinkler irrigation systems found to encroach within the limits of improvements shall be modified as necessary to remove the encroachment and to ensure satisfactory operation of the remaining system. The Contractor shall ensure that existing private systems remain in operation during the construction of this project. The Contractor shall furnish temporary water to disconnected existing irrigation systems. Private irrigation systems that have been damaged during construction activities shall be repaired within 5 working days. The Contractor shall repair such damaged facilities to an "equal or better than" original condition. This work will include, but not be limited to, cutting and capping existing pipe, relocating existing risers and sprinkler heads new pipe heads and connections, and testing of the system. Payment will be included in the unit bid item price for Repair Existing Irrigation System per Section 8-03 these Standard Specifications.

8-03.4 Measurement

Section 8-03.4 is supplemented with the following:

Repair Existing Irrigation Systems will be measured by force account.

8-03.5 Payment

Section 8-03.5 is supplemented with the following:

"Repair Existing Irrigation Systems", per force account.

8-04 CURBS, GUTTERS, AND SPILLWAYS

8-04.3 Construction Requirements

(April 12, 2018 CFW GSP)

Section 8-04.3 is supplemented with the following:

The sub-base for curb and gutter sections shall be compacted to 95 percent density at or below optimum moisture content, as per Section 2-03.3(14)D revised, before placing the curb and gutter.

White-pigmented curing compounds will not be allowed.

The top of the finished concrete shall not deviate more than one-eighth (1/8") in ten feet (10') or the alignment one-fourth (1/4") in ten feet (10').

Where shown on the Plans, the concrete curb will be ramped for wheel chairs as shown in the City Standard Plan Details.

The existing concrete curb and gutter shall be removed in accordance with Section 2-02.3(3) which leaves one (1) feet gap. This gap shall have its subgrade prepared and be paved with a minimum of four inches (4") CSTC and three inches (3") HMA Class 1/2" PG 58H -22 (compacted depths), or match existing depths whichever is greater. Total HMA overlay depth shall be 5" thickness minimum. See standard plans for details.

Cement Conc. Curb and Gutter at existing curb ramps shall be removed and replaced as shown in the Plans or at designated locations as directed by the City.

Cement Conc. Curb forms shall not be removed any sooner than four (4) hours after concrete placement.

Mountable Cement Conc. Curb shall be painted with two full coats of paint formula No. H-2-83 or H-3-83 as shown in the Plans or as designated by the Engineer. The paint can be applied by brush or spray. The second coat shall have glass traffic paint beads sprinkled in the wet paint at the rate of 12 pounds per 100 linear foot of curbing. The beads shall conform to the requirements of Section 9-34.4.

8-04.4 Measurement

(April 12, 2018 CFW GSP)

Section 8-04.4 is supplemented with the following:

Painting of curbs, where required, will not be measured and is considered incidental to the unit price of the type of curb.

Cement Conc. Curb and Gutter will be measured by linear foot.

Mountable Cement Conc. Curb will be measured by linear foot.

Cement Conc. Curb and Gutter in front of Curb Ramp shall be incidental to the "Cement Conc. Curb Ramp Type ____".

Cement Conc. Barrier Curb associated with ADA ramps shall be incidental to the "Cement Conc. Curb Ramp Type ____".

8-04.5 Payment

(April 12, 2018 CFW GSP)

Section 8-04.5 is supplemented with the following:

"Painting of curbs, where requires", shall be incidental.

"Cement Conc. Curb and Gutter", per linear foot.

"Mountable Cement Conc. Curb", per linear foot.

"Cement Conc. Curb and Gutter in front of Curb Ramp", incidental to Curb Ramp Type ____.

"Cement Conc. Barrier Curb" associated with ADA ramps shall be incidental to the Cement Conc. Curb Ramp Type ____.

The unit contract price per linear foot for "Cement Conc. Curb and Gutter" shall be full payment for all incidental work including forms, preparation of subgrade, placement, backfill and compaction, HMA Class 1/2" PG 58H-22 and CSTC for pavement repair, and all other materials, tools, equipment, and labor required for the construction of same.

8-07 PRECAST TRAFFIC CURB

8-07.1 Description

(December 12, 2012 CFW GSP)

Section 8-07.1 is deleted and replaced with the following:

This Work consists of furnishing and installing precast traffic curb, block traffic curb, sloped mountable curb, or dual faced sloped mountable curb of the design and type specified in the Plans in accordance with these Specifications and the Standard Plans, in the locations indicated in the Plans or as identified by the Engineer.

8-07.2 Materials

(August 9, 2014 CFW GSP)

Section 8-07.2 is supplemented with the following:

8-07.3 Construction Requirements**8-07.3(1) Installing Curbs**
(March 30, 2018 CFW GSP)

Section 8-07.3(1) is supplemented with the following:

For both types of curb, nosing pieces, connecting dividers, and radial sections, as detailed in the Plans, will be required at the ends of the curb lines, at transitions from Type C traffic curb to Type A traffic curb, and at Type A traffic curb installation with radii less than 10 feet. The curb shall be placed no later than seven (7) calendar days after the final lift of paving has been completed in each schedule where required.

8-07.4 Measurement
(August 9, 2014 CFW GSP)

Section 8-07.4 is supplemented with the following:

Precast Dual Faced Sloped Mountable Curb will be measured by the linear foot.
Precast Sloped Mountable Curb will be measured by the linear foot.

8-07.5 Payment
(August 9, 2014 CFW GSP)

Section 8-07.5 is supplemented with the following:

“Precast Dual Faced Sloped Mountable Curb,” per linear foot.
“Precast Sloped Mountable Curb,” per linear foot.

The unit contract price per linear foot for “Precast Sloped Mountable Curb” and “Precast Dual Faced Sloped Mountable Curb” shall be full payment for all incidental work, including pavement repair and all other materials, tools, equipment, and labor required for the construction of same.

8-09 RAISED PAVEMENT MARKERS**8-09.1 Description**
(December 12, 2012 CFW GSP)

Section 8-09.1 is supplemented with the following:

RPM's shall be installed per City of Federal Way Standard Details.

8-09.2 Materials
(December 12, 2012 CFW GSP)

Section 8-09.2 is supplemented with the following:

RPM's shall not be ceramic.

8-11 GUARDRAIL**8-11.3(1)E Raising Guardrail**

Section 8-11.3(1)E is supplemented with the following:

Delete first paragraph.

8-11.4 Measurement

Raising Beam Guardrail by linear foot.

8-11.5 Payment

"Raising Beam Guardrail", per linear foot.

8-13 MONUMENT CASES

8-13.1 Description

(March 13, 1995 WSDOT GSP, OPTION 1)

Section 8-13.1 is deleted and replaced by the following:

This work shall consist of furnishing and placing monument cases, covers, and pipes in accordance with the Standard Plans and these Specifications, in conformity with the lines and locations shown in the Plans or as staked by the Engineer.

8-13.3 Construction Requirements

(April 12, 2018 CFW GSP)

Section 8-13.3 is supplemented with the following:

The existing cast iron ring and cover on monument cases shall be removed and replaced at the new finished elevation; frame ring extensions may not be used. Contractor shall submit catalog cuts of extensions for approval.

Following monument case adjustment, the monument shall be verified for position by the City. If the monument has been displaced by the Contractor's operations, the Contractor shall at his own expense, remove and replace the case and reestablish the monument with a licensed professional surveyor.

8-13.4 Measurement

(March 13, 1995 WSDOT GSP, OPTION 1)

Section 8-13.4 is deleted and replaced by the following:

Measurement of monument case and cover will be per each.

8-13.5 Payment

(April 12, 2018 CFW GSP)

Section 8-13.5 is supplemented with the following:

"Adjust Monument Case and Cover", per each.

8-14 CEMENT CONCRETE SIDEWALKS

8-14.1 Description

Section 8-14.1 is supplemented with the following:

Existing cement concrete sidewalks, driveway approaches, truncated dome retrofit and existing curb ramps shall be removed and replaced at designated locations as directed by the City. New curb ramps and warning strips shall conform to the details on the design plans and Current WAC for Barrier Free Design.

If any section of sidewalk is damaged due to vandalism, such as writing, by vehicles or pedestrians, the entire section, between joints, shall be removed and replaced, at no cost to the City.

8-14.2 Materials

Section 8-14.2 is supplemented with the following:

Material requirements for sidewalks shall also be applied to driveway approaches and curb ramps.

8-14.3 Construction Requirements

(April 3, 2017 WSDOT GSP, OPTION 1)

Section 8-14.3 is supplemented with the following :

The Contractor shall request a pre-meeting with the Engineer to be held 2 to 5 working days before any work can start on cement concrete sidewalks, curb ramps or other pedestrian access routes to discuss construction requirements. Those attending shall include:

1. The Contractor and Subcontractor in charge of constructing forms, and placing, and finishing the cement concrete.
2. Engineer (or representative) and Project Inspectors for the cement concrete sidewalk, curb ramp or pedestrian access route Work.

Items to be discussed in this meeting shall include, at a minimum, the following:

1. Slopes shown on the Plans.
2. Inspection
3. Traffic control
4. Pedestrian control, access routes and delineation
5. Accommodating utilities
6. Form work
7. Installation of detectable warning surfaces
8. Contractor ADA survey and ADA Feature as-built requirements
9. Cold Weather Protection

(April 3, 2017 WSDOT GSP, OPTION 3)

Section 8-14.3 is supplemented with the following:

Layout and Conformance to Grades

The Contractor shall meet the requirements depicted in the Contract documents. Using the information provided in the Contract documents, the Contractor shall layout, grade, and form each new curb ramp, sidewalk, and curb and gutter.

(April 12, 2018 CFW GSP)

Section 8-14.3 is supplemented with the following :

Cement concrete sidewalk thickness shall be as shown on the Plans. Score joints shall be constructed at a maximum distance of 5 feet from each full depth expansion joint, except where specific dimensions are detailed on the Plans. Asphalt mastic joint fillers in the sidewalk shall be 3/8" x 4" and of the same material as that used in the curb, and shall be placed in the same location as that in the curb.

No concrete for sidewalk shall be poured against dry forms or dry subgrade.

The Contractor may provide suitable vibrating finishers for use in finishing concrete sidewalks. The type of vibrator and its method of use shall be subject to the approval of the City.

All completed work shall be so barricaded as to prevent damage. Any damaged sections shall be removed and replaced at the Contractor's expense. Landscaped areas disturbed during construction shall be restored to original condition at the Contractor's expense.

Scored Cement Concrete Sidewalk shall be broom finished and scored as detailed on the Plans.

8-14.3(5) Detectable Warning Surface

(April 12, 2018 CFW GSP)

Section 8-14.3(5) is supplemented with the following:

MMA-Style Truncated Dome Detectable Warning Surfaces applied to asphalt surfaces shall be liquid-applied Vanguard ADA Systems, or approved equal.

8-14.4 Measurement

(April 12, 2018 CFW GSP)

Section 8-14.4 is supplemented with the following:

Cement Conc. Sidewalk will be measured by the square yard.
Cement Conc. Curb Ramp Type 1 Parallel will be measured per each.
Cement Conc. Curb Ramp Type 2 Parallel will be measured per each.
Cement Conc. Curb Ramp Type Perpendicular will be measured per each.
Cement Conc. Curb Ramp Type Single Direction will be measured per each.
MMA-Style Truncated Dome Detectable Warning Surface will be measured per square feet.

8-14.5 Payment

(April 12, 2018 CFW GSP)

Section 8-14.5 is supplemented with the following:

"Cement Conc. Sidewalk", per square yard.
"Cement Conc. Curb Ramp Type 1 Parallel", per each.
"Cement Conc. Curb Ramp Type 2 Parallel", per each.
"Cement Conc. Curb Ramp Type Perpendicular", per each.
"Cement Conc. Curb Ramp Type Single Direction", per each.
"MMA-Style Truncated Dome Detectable Warning Surface", per square feet.

The unit contract price for the above, including all incidental work, and shall be full compensation for all labor, materials, tools, and equipment necessary to satisfactorily complete the work.

8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, ELECTRICAL

8-20.1 Description

Section 8-20.1 is replaced with the following:

All work shall be performed as shown in the Plans in accordance with applicable Standard Specifications and Standard Plans included herein and the following Special Provisions. Work shall include the supply, testing, and installation of loop detectors.

The work involves, but shall not be limited to, the following:

1. Loop detection
2. Conduit and wire
3. Pedestrian Push Buttons

The existing traffic signal system shall be kept in full operation during construction until the new system is in place and ready for turn-on.

8-20.1(1) Regulations and Code

(March 13, 2012 CFW GSP)

Section 8-20.1(1) is supplemented with the following:

Where applicable, materials shall conform to the latest requirements of Puget Sound Energy and the Washington State Department of Labor and Industries.

8-20.1(2) Industry Codes and Standards

(March 13, 2012 CFW GSP)

The following is added at the end of the first paragraph of this section:

National Electrical Safety Code (NESC) Committee, IEEE Post Office Box 1331445 Hoes Lane, Piscataway, NJ 08855-1331.

8-20.1(3) Permitting and Inspections

(April 12, 2018 CFW GSP)

Section 8-20.1(3) is supplemented with the following:

The Contractor shall be responsible for obtaining all required electrical permits, including all required City electrical permits. All costs to obtain and comply with electrical permits shall be included in the applicable bid items for the work involved.

8-20.2 Materials

Section 8-20.2 is supplemented with the following:

(March 13, 2012 CFW GSP)

Control density fill shall meet the requirements of Washington Aggregates and Concrete Association.

Bedding material shall consist of 5/8-inch minus crushed rock free of any deleterious substances (Section 9-03.1(5)A of the Standard Specifications).

8-20.2(1) Equipment List And Drawings

(January 26, 2012 CFW GSP)

The first paragraph is deleted and replaced with the following:

Within one (1) week following the pre-construction conference, the Contractor shall submit to the Engineer a completed "Request for Approval of Materials" that describes the material proposed for use to fulfill the Plans and Specifications. Manufacturer's technical information shall be submitted for signal, Safe City Cameras and related equipment (Pan-Tilt-Zoom, Fisheye, Bullet and License

Plate Reader), electrical and luminaire equipment, all wire, conduit, junction boxes, and all other items to be used on the project. Approvals by the Engineer must be received before material will be allowed on the job site. Materials not approved will not be permitted on the job site.

8-20.3 Construction Requirements

8-20.3(1) General

(May 15, 2000 WSDOT NWR GSP, OPTION 2)

Section 8-20.3(1) is supplemented with the following:

Energized Equipment

Work shall be coordinated so that electrical equipment, with the exception of the service cabinet, is energized within 72 hours of installation.

(October 31, 2005 WSDOT NWR GSP, OPTION 5)

Section 8-20.3(1) is supplemented with the following:

Construction Core Installation

The Contractor shall coordinate installation of construction cores with Contracting Agency maintenance staff through the Engineer. The Contractor shall provide written notice to the Engineer, a minimum of seven working days in advance of proposed installation. The Contractor shall advise the Engineer in writing when construction cores are ready to be removed.

(May 15, 2000 WSDOT NWR GSP, OPTION 6)

Section 8-20.3(1) is supplemented with the following:

Electrical Equipment Removals

Removals associated with the electrical system shall not be stockpiled within the job site without the Engineer's approval.

(January 26, 2012 CFW GSP)

Section 8-20.3(1) is supplemented with the following:

Contractor Owned Removals

All removals associated with an electrical system, which are not designated to remain the property of the Contracting Agency, shall become the property of the Contractor and shall be removed from the project.

The Contractor shall:

1. Remove all wires for discontinued circuits from the conduit system or as directed by the Engineer.
2. Remove elbow sections of abandoned conduit entering junction boxes or as directed by the Engineer.
3. Abandoned conduit encountered during excavation shall be removed to the nearest outlets or as directed by the Engineer.
4. Remove foundations entirely, unless the Plans state otherwise.
5. Backfill voids created by removal of foundations and junction boxes. Backfilling and compaction shall be performed in accordance with Section 2-09.3(1)E.

(November 14, 2014 CFW GSP)

Section 8-20.3(1) is supplemented with the following:

Delivery of Removed Items

The Engineer shall decide the ownership of all salvaged signal materials. All salvaged signal materials not directed by the Engineer to remain property of the City shall become the property of the Contractor, except the existing controller cabinet and all its contents shall remain as property of the City.

Removed signal and electrical equipment which remains the property of the City shall be delivered to:

King County Signal Shop
Attn: Mark Parrett
155 Monroe Avenue NE
Renton, Washington 98056
Phone: 206-396-3763

Forty eight (48) working hours advance notice shall be communicated to both the Engineer and the Signal Technician at the address listed above. Delivery shall occur during the hours of 8:00 a.m. to 2:00 p.m. Monday through Friday. Material will not be accepted without the required advance notice.

The Contractor shall be responsible for unloading the equipment where directed by the Engineer or Signal Tech at the delivery site.

Equipment damaged during removal or delivery shall be repaired or replaced to the Engineer's satisfaction at no cost to the City.

8-20.3(2) Excavating and Backfilling

(January 8, 2013 CFW GSP)

Section 8-20.3(2) is supplemented with the following:

The Contractor shall supply all trenching necessary for the complete and proper installation of the traffic signal system, interconnect conduit and wiring, and illumination system. Trenching shall conform to the following:

1. In paved areas, edges of the trench shall be sawcut the full depth of the pavement and sawcuts shall be parallel. All trenches for placement of conduit shall be straight and as narrow in width as practical to provide a minimum of pavement disturbance. The existing pavement shall be removed in an approved manner. The trench bottom shall be graded to provide a uniform grade.
2. Trenches located under existing traveled ways shall provide a minimum of 24 inches cover over conduits and shall be backfilled with 21 inches of controlled density fill, vibrated in place, followed by either 3 inches minimum of HMA CI 1/2" PG 58 -22 , or a surface matching the existing pavement section, whichever is greatest. The asphalt concrete surface cuts shall be given a tack coat of asphalt emulsion (CSS-1) or approved equal immediately before resurfacing, applied to the entire edge and full depth of the pavement cut. Immediately after compacting the new asphalt surface to conform to the adjacent paved surface, all joints between new

and original pavement shall be filled with joint sealant meeting the requirements of Section 9-04.2.

3. Trenches for Schedule 40 PVC conduits to be located under existing sidewalks shall be installed to conform with the City of Federal Way Luminaire Electrical Trench Detail. Such trenches shall be backfilled with bedding material two inches (2") above and below the conduit, with the remaining depth of trench backfilled with native material. If the Engineer determines that the native material is unsuitable, Gravel Borrow shall be used. Sidewalks and driveways shall be removed and replaced as specified.
4. Trenches for Schedule 40 PVC conduits to be located within the right-of-way and outside the traveled way shall have a minimum of twenty-four inches (24") cover over conduits. Such trenches shall be backfilled with bedding material two inches (2") above and below the conduit, with the remaining depth of trench backfilled with bank run gravel unless the Engineer determines that spoils from the trench excavation are suitable for backfill.
5. When trenches are not to be placed under sidewalks or driveways, the backfill shall match the elevation of the surrounding ground, including a matching depth of top soil, mulch and/or sod if necessary to restore the trench area to its prior condition.
6. Contractor shall use joint trench where possible.

Backfill shall be carefully placed so that the backfilling operation will not disturb the conduit in any way. The backfill shall be thoroughly mechanically tamped in eight-inch (8") layers with each layer compacted to ninety-five percent (95%) of maximum density in traveled ways, and ninety percent (90%) of maximum density elsewhere at optimum soil moisture content.

Bank run gravel for backfill shall conform to Section 2.01 of the Standard Specifications. Bedding material shall conform to Section 2.01 of the Standard Specifications.

All trenches shall be properly signed and/or barricaded to prevent injury to the public.

All traffic control devices to be installed or maintained in accordance with Part VI of the Manual on Uniform Traffic Control Devices for Streets and Highways, latest edition, and as specified elsewhere in these Specifications.

Excavation for foundations shall be completed by vector excavation. This excavation shall be incidental to the signal or illumination bid items.

(April 12, 2018 CFW GSP)

Section 8-20.3(2) is supplemented with the following:

Underground utilities of record are shown on the construction plans insofar as information is available. These, however, are shown for convenience only and the City assumes no responsibility for improper locations or failure to show utility locations on the construction plans.

The location of existing underground utilities, when shown on the plans, is approximate only, and the Contractor shall be responsible for determining their exact location. The Contractor shall check with the utility companies concerning any possible conflict prior to commencing excavation in any area, as not all utilities may be shown on the plans.

The Contractor shall be responsible for potholing for conflicts with underground utility locations prior to determining exact locations of signal and luminaire pole foundations, underground vaults and directional boring operations. Prior to construction, if any conflicts are expected, it shall be brought to the attention of the Engineer for resolution.

The Contractor shall be entirely responsible for coordination with the utility companies and arranging for the movement or adjustment, either temporary or permanent, of their facilities within the project limits.

If a conflict is identified, the Contractor shall contact the Engineer. The Contractor and City shall locate alternative locations for poles, cabinet, or junction boxes. The Contractor shall get approval from the Engineer prior to installation. The Contractor may consider changing depth or alignment of conduit to avoid utility conflicts.

Before beginning any excavation work for foundations, vaults, junction boxes or conduit runs, the contractor shall confirm that the location proposed on the Contract Plans does not conflict with utility location markings placed on the surface by the various utility companies. If a conflict is identified, the following process shall be used to resolve the conflict:

1. Contact the Engineer and determine if there is an alternative location for the foundation, junction box, vault or conduit trench.
2. If an adequate alternate location is not obvious for the underground work, select a location that may be acceptable and pothole to determine the exact location of other utilities. Potholing must be approved by the Engineer.
3. If an adequate alternate alignment still cannot be identified following potholing operations, the pothole area should be restored and work in the area should stop until a new design can be developed.

The Contractor shall not attempt to adjust the location of an existing utility unless specifically agreed to by the utility owner.

8-20.3(4) Foundations
(December 18, 2009 CFW GSP)

Section 8-20.3(4) is supplemented with the following:

Excavation for foundations shall be completed by vector excavation. This excavation shall be incidental to the signal or illumination bid items.

Pole foundations within the sidewalk area shall be constructed in a single pour to the bottom of the cement concrete sidewalk. The sidewalk shall be constructed in a separate pour.

Pole foundations not within the sidewalk area shall incorporate a 3-foot by 3-foot by 4-inch-thick cement concrete pad set flush with the adjacent ground. Where the pad abuts a sidewalk, the pad shall extend to the sidewalk and the top of the pad shall be flush with the sidewalk. A construction joint shall be provided between the two units.

The foundation for the controller and service cabinets shall conform to the detail on the Plans. Conduits shall be centered horizontally except service conduit, which shall be placed at the side of the power panel.

Foundations for Type I traffic signal poles shall conform to Standard Plan J-21.10-01.

Foundations for Type II and Type III traffic signal poles shall conform to details on the Signal Standard Sheet in the Plans.

Foundations for streetlight poles shall conform to City of Federal Way Drawing Number 3-39 except that foundation depth shall be as noted on the Illumination Pole Schedule.

Foundations for the decorative streetlight poles shall conform to City of Federal Way Drawing Number 3-43 except that foundation depth shall be as noted on the Illumination Pole Schedule.

8-20.3(5) Conduit

8-20.3(5)A General ***(March 16, 2011 CFW GSP)***

Section 8-20.3(5) is supplemented with the following:

All conduit trenches shall be straight and as narrow in width as is practical to provide a minimum of pavement disturbance.

When conduit risers are installed, they shall be attached to the pole every 4 feet and shall be equipped with weather heads.

Conduit for the service wires between the Puget Sound Energy pole and the service panel and all above ground conduit shall be hot-dip galvanized rigid steel.

All conduits shall be clearly labeled at each junction box, handhole, vault or other utility appurtenance. Labeling shall be permanent and shall consist of the owner/type name and a unique conduit number or color. The owner name shall be approved by the Engineer prior to starting work. The recommended owner/type abbreviations are:

PSE – Puget Sound Energy
QWEST – Qwest
COMCAST(AT&T)/C – Cable
COMCAST(AT&T)/F – Fiber
SIC – City Signal Interconnect
City Spare – City spares
Cobra – COBRA luminaire system

Traffic signal interconnect shall be placed, wherever feasible, in the joint utility trench being constructed under this contract (if applicable). This work shall be coordinated with the other utilities to ensure a 2" minimum conduit is provided solely for the traffic signal interconnect. Conduit size shall be verified with City Traffic Engineer prior to installation.

8-20.3(5)B Conduit Type
(March 16, 2011 CFW GSP)

Section 8-20.3(5)B is supplemented with the following:

All conduits for signal cable raceways under driveways shall be rigid galvanized steel or Schedule 80 polyvinyl chloride (PVC).

Whenever PVC conduit is used a ground wire shall be provided.

8-20.3(5)E3 Boring
(October 16, 2006 WSDOT NWR, OPTION 1)

Section 8-20.3(5)E3 is supplemented with the following:

In addition to the requirements for boring with casing, the Contractor shall submit to the Engineer for approval a pit plan and a proposed method of boring that includes, but is not limited to, the following:

- 1) A pit plan depicting:
 - a) Protection of traffic and pedestrians.
 - b) The dimension of the pit.
 - c) Shoring, bracing, struts, walers or sheet piles.
 - d) Type of casing.
- 2) The proposed method of boring, including:
 - a) The boring system.
 - b) The support system.
 - c) The support system under and at the bottom of the pit.

The shoring and boring pit plan shall be prepared by and bear the seal and signature of a Washington State licensed Professional Civil Engineer.

Installed casing pipe shall be free from grease, dirt, rust, moisture and any other deleterious contaminants.

Commercial concrete meeting the requirements of Section 6-02.3(2)B may be used to seal the casing.

8-20.3(6) Junction Boxes, Cable Vaults, and Pull Boxes
(March 13, 2012 CFW GSP)

Section 8-20.3(6) is supplemented with the following:

Unless otherwise noted in the Plans or approved by the Engineer, junction boxes, cable vaults and pull boxes shall not be placed within the traveled way or shoulders.

All junction boxes, cable vaults, and pull boxes placed within the traveled way or paved shoulders shall be heavy-duty.

Junction boxes shall not be located within the traveled way, wheelchair ramps, or driveways, or interfere with any other previous or relocated installation. The lid of the junction box shall be flush with the surrounding area and be adequately supported by abutting pavements or soils.

Junction boxes, cable vaults and pull boxes which are placed within the sidewalk shall have slip resistant lids which meet the requirements of Americans with Disabilities Act (ADA) and Public Right-of-Way Accessibility Guideline (PROWAG). Approved products are:

- 1.) Mebac1 (their most aggressive surface) manufactured by IKG Industries
- 2.) SlipNOT Grade 3-coarse manufactured by W.S. Molnar Company.

All streetlight junction boxes not placed in the sidewalk shall be placed immediately adjacent to a sidewalk or curb surrounded by concrete (or asphalt if adjacent to roadway) to prevent the box from lifting out of the dirt.

All streetlight junction box lids shall be welded shut after final inspection and approval by King County.

Approved slip resistant surfaces shall have coefficient of friction of no less than 0.6 and have a proven track record of outdoor application which lasts for at least 10 years.

Wiring shall not be pulled into any conduit until all associated junction boxes have been adjusted to, or installed in, their final grade and location, unless installation is necessary to maintain system operation. If wire is installed for this reason, sufficient slack shall be left to allow for future adjustment.

Wiring shall be replaced for full length if sufficient slack as specified in Section 8-20.3(8) is not maintained. No splicing will be permitted.

Junction boxes Type 1 and 2 shall meet the requirements of WSDOT Standard Plan J-40.10-01. Type 8 junction boxes shall meet the requirements of WSDOT Standard Plan J-40.30-01. Junction boxes shall be inscribed based upon system per WSDOT Standard Plan J-40.30.01. Junction box lids and frames shall be grounded per Section 8-20.3(9).

Junction boxes shall be located at the station and offset indicated on the Plans except that field adjustments may be made at the time of construction by the Engineer to better fit existing field conditions.

Junction boxes for copper and/or fiber signal interconnect shall be placed at a maximum interval of 300 feet and shall be inscribed with "TS" as described on WSDOT Standard Plan J-40.30-01.

Communications/fibers vaults shall be provided for the purpose of storing slack cabling and installing splice enclosures. The location of all communication vaults shall be as indicated on the Plans and shall be field verified by the Contractor.

Communication/fibers vaults shall be configured such that the tensile and bending limitations of the fiber optic cable are not compromised. Vaults shall be

configured to mechanically protect the fiber optic cable against installation force as well as inert forces after cable pulling operations.

Where indicated in the Plans, new vaults shall be installed as described herein and shown in the Plans. The Contractor shall furnish and install racking hardware for cable storage in all new vaults and in all existing vaults where cable storage is identified on the plans. The Contractor shall secure and store the cable in the racking hardware per manufacturer's instruction.

Fiber vaults shall be installed in accordance with the following:

1. All openings around conduits shall be sealed and filled with grout to prevent water and debris from entering the vaults or pull boxes. The grout shall meet the specifications of the fiber vault manufacturers.
2. Backfilling around the work shall not be allowed until the concrete or mortar has set.
3. Upon acceptance of work, fiber vaults shall be free of debris and ready for cable installation. All grounding requirements shall be met prior to cable installation.
4. Fiber vaults shall be adjusted to final grade using risers or rings manufactured by the fiber vault and pull box manufacturer. Fiber vaults with traffic bearing lids shall be raised to final grade using ring risers to raise the cover only. All voids created in and around the vault while adjusting it to grade shall be filled with grout.
5. Fiber vaults shall be installed at the approximate location shown in the Drawings. Final location to be approved by the Engineer.
6. All existing conduits will need to be open and exposed for access within the vault. Care shall be taken to identify which conduits have existing cables. All conduits will extend 2 inches within the vault walls. At the 2-inch mark the excess conduit on the existing structure will need to be removed and all cables exposed.
7. Once the conduits are located, excavate a hole large enough to install the fiber vault. The vault shall have a concrete floor as indicated on the Drawings. The floor shall be installed on 6 inches of crushed surfacing top course. If a fiber vault is installed outside a paved area, an asphalt pad shall be constructed surrounding the junction box. Ensure that the existing conduits are at a minimum of 4 inches above the top of the floor. If the existing conduits contain existing cables, the new vault will need to be bottomless to allow the existing conduit and cable to be routed into the new vault.

8-20.3(8) Wiring

(March 13, 1995 WSDOT NWR, OPTION 2)

Section 8-20.3(8) is supplemented with the following:

Wire Splices

All splices shall be made in the presence of the Engineer.

(May 1, 2006 WSDOT NWR, OPTION 3)

Section 8-20.3(8) is supplemented with the following:

Illumination Circuit Splices

Temporary splices shall be the heat shrink type.

(March 6, 2012 CFW GSP)

Section 8-20.3(8) is supplemented with the following:

Cable entering cabinets shall be neatly bundled and wrapped. Each wire shall bear the circuit number and be thoroughly tested before being connected to the appropriate terminal.

Circuit conductors shall be standard copper wire in all conduit runs with size specified on the Plans. Conductors from luminaire bases to the luminaire fixture shall be minimum No. 14 AWG pole and bracket cable.

(March 6, 2012 CFW GSP)

The following is inserted between the 3rd and 4th paragraph of this section:

Loop wires will be spliced to lead in wires at the junction box with an approved mastic tape, 3-M 06147 or equal, leaving 3 feet of loose wire.

Connectors will be copper and sized for the wire. Mastic splice material will be centered on the wire and folded up around both sides and joined at the top. Splice will then be worked from the center outward to the ends. The ends will be visible and fully sealed around the wire. The end of the lead-in cables shall have the sheathing removed 8 inches and shall be dressed external to the splice.

The 8th paragraph of this section is deleted and replaced with the following:

Fused quick disconnect kits shall be of the SEC type or equivalent. Underground illumination splices shall be epoxy or underground service buss/lighting connector kits. Installation shall conform to details in the Standard Plans.

The following is inserted between the 11th and 12th paragraphs of this section:

Field Wiring Chart (IMSA Standards)

501	+Input	506	AC+Control	511	Remote-All Red
502	AC-	507	AC+Crosswalk	512-520	Special
503	AC+Lights	508	AC+Detectors	551-562	Interconnect
504	AC+Lights	509	AC+12 Volts	593-598	Rail Road Preemption
505	AC+Lights	510	Remote-Flash		

Phases		1	2	3	4	5	6	7	8	A	B
Emergency Vehicle Preemption	Orange (B+)		581		584		587		590		
	Yellow (Call)		582		585		588		591		
	Blue (BB)		583		586		589		592		
Vehicle Heads	Red	611	621	631	641	651	661	671	681	691	601
	Orange	612	622	632	642	652	662	672	682	692	602
	Green	613	623	633	643	653	663	673	683	693	603
	Black	614	624	634	644	654	664	674	684	694	604
	White (Common)	616	626	636	646	656	666	676	686	696	606
Pedestrian Heads and PPB	Red (Hand)	711	721	731	741	751	761	771	781	791	701
	Green (Man)	712	722	732	742	752	762	772	782	792	702
	White (Common for Lights)	716	726	736	746	756	766	776	786	796	706
	Orange (Push button)	714	724	734	744	754	764	774	784	794	704
	Black (Common for Push button)	715	725	735	745	755	764	775	785	795	705
Vehicle Detectors	Loop 1	811	821	831	841	851	861	871	881	891	801
	Loop 1	812	822	832	842	852	862	872	882	892	802
	Loop 2	813	823	833	843	853	863	873	883	893	803
	Loop 2	814	824	834	844	854	864	874	884	894	804
	Loop 3	815	825	835	845	855	865	875	885	895	805
	Loop 3	816	826	836	846	856	866	876	886	896	806
	Loop 4	817	827	837	847	857	867	877	887	897	807
	Loop 4	818	828	838	848	858	868	878	888	898	808
Vehicle Detectors/ Count Loops	Loop 1	911	921	931	941	951	961	971	981	991	901
	Loop 1	912	922	932	942	952	962	972	982	992	902
	Loop 2	913	923	933	943	953	963	973	983	993	903
	Loop 2	914	924	934	944	954	964	974	984	994	904
	Loop 3	915	925	935	945	955	965	975	985	995	905
	Loop 3	916	926	936	946	956	966	976	986	996	906
	Loop 4	917	927	937	947	957	967	977	987	997	907
	Loop 4	918	928	938	948	958	968	978	988	998	908

8-20.3(9) Bonding, Grounding
(August 21, 2006 WSDOT NWR)

Section 8-20.3(9) is supplemented with the following:

Where shown in the Plans or where designated by the Engineer, the metal frame and lid of existing junction boxes shall be grounded to the existing equipment grounding system. The existing equipment grounding system shall be derived

from the service serving the raceway system of which the existing junction box is a part.

(March 13, 2012 CFW GSP)

Section 8-20.3(9) is supplemented with the following:

Contractor shall provide and install bonding and grounding wires as described in Standard Specifications and the National Electric Code for any new metallic junction boxes and any modified existing junction boxes. For the purposes of this section, a box shall be considered "modified" if new current-carrying conductors are installed, including low-voltage conductors.

At points where shields of shielded conductors are grounded, the shields shall be neatly wired and terminated on suitable grounding lugs.

Junction box lids and frames shall be grounded in accordance with Department of Labor and Industries standards, and shall be grounded so that the ground will not break when the lid is removed and laid on the ground next to the junction box.

All conduits which are not galvanized steel shall have bonding wires between junction boxes.

Ground rods shall be copper clad steel, 3/4-inch in diameter by 10-feet long, connections shall be made with termite welds.

At points where wiring shields of shielded conductors are grounded, the shields shall be neatly wired and terminated on suitable grounding lugs.

8-20.3(14)A Signal Controllers

(December 18, 2009 CFW GSP)

Section 8-20.3(14) is supplemented with the following:

The new signal controller and cabinet shall conform to all of the sections and requirements within and under the Sections and Sub Sections of 9-29.13 Traffic Signal Controllers within the Standard Specifications and these Special Provisions.

Signal controller and cabinet shall be tested by King County at their shop located at 155 Monroe Avenue NE in Renton, Washington. The contractor shall deliver the controller and cabinet to the shop and shall pick up the units at the end of the test period, deliver to the job site, and install.

8-20.3(14)C Induction Loop Vehicle Detectors

(January 31, 2014 CFW GSP)

Item 2 and the last two sentences of Item 4 are deleted.

Item 5 of this section is deleted and replaced with the following:

- 5) Each loop shall have 3 turns of loop wire.

Item 11 of this section is deleted and replaced with the following:

- 11) The detector loop sealant shall be a flexible traffic loop wire encapsulment. Encapsulment shall be designated to enable vehicular traffic to pass over the properly filled sawcut within five minutes after installation without cracking

of material. The encapsulment shall form a surface skin allowing exposure to vehicular traffic within 30 minutes at 75 degrees F. and completely cure to a tough rubber-like consistency within two to seven days after installation. Properly installed and cured encapsulment shall exhibit resistance to defects of weather, vehicle abrasion, motor oil, gasoline, antifreeze solutions, brake fluid, deicing chemicals and salt normally encountered in such a manner that the performance of the vehicle detector loop wire is not adversely affected.

Section 8-20.3(14)C is supplemented with the following:

One-quarter-inch (1/4") saw cuts shall be cleared of debris with compressed air before installing three turns of loop wire. All detector loops shall be 6-foot-diameter circle with diagonal mini-cut corners (no 90 degree corners) of not more than 1-inch on the diagonal. From the loops to the junction box, the loop wires shall be twisted two turns per foot and labeled at the junction box in accordance with the loop schematics included in these Plans. A 3/8-inch saw cut will be required for the twisted pair. No saw cut will be within 3 feet of any manhole or utility risers located in the street. Loops and lead-ins will not be installed in broken or fractured pavement. Where such pavement exists it will be replaced in kind with minimum 12-foot sections. Loops will also not be sawed across transverse joints in the road. Loops to be placed in concrete will be located in full panels, a minimum 18 inches from any expansion joint.

Existing Traffic Loops

The Contractor shall notify the City of Federal Way Traffic Engineer a minimum of five working days in advance of pavement removal in the loop areas. The Contractor shall install and maintain interim video detection until the permanent systems are in place. The interim video detection shall be operational simultaneously with decommission of the existing pavement loops.

If the Engineer suspects that damage to any loop, not identified in the Plans as being replaced, may have resulted from Contractor's operations, the Engineer may order the Contractor to perform the field tests specified in Section 8 20.3(14)D. The test results shall be recorded and submitted to the Engineer. Loops that fail any of these tests shall be replaced.

Loops that fail the tests, as described above, and are replaced shall be installed in accordance with current City of Federal Way design standards and Standard Plans, as determined by the Engineer.

If traffic signal loops that fail the tests, as described above, are not replaced and operational within 48 hours, the Contractor shall install and maintain interim video detection until the replacement loops are operational. The type of interim video detection furnished shall be approved by the Engineer prior to installation.

8-20.3(14)D Test for Induction Loops and Lead-in Cable ***(October 5, 2009 WSDOT NWR – OPTION 3)***

Section 8-20.3(14)D is supplemented with the following:

Existing Lead-in Cable Test

When new induction loops are scheduled to be installed and spliced to an existing two-conductor shielded detector lead-in cable, the Contractor shall perform the following:

1. Disconnect the existing detector lead-in cable in the controller cabinet and at the loop splice.
2. Megger test both detector lead-in cable conductors. A resistance reading of less than 100-megohms is considered a failure.
3. Detector lead-in cables that fail the test shall be replaced and then retested.
4. After final testing of the detector lead-in cable, the loop installation shall be completed and the loop system tested according to Tests A, C and D. Connect the detector lead-in cables in the controller cabinet.

(October 5, 2009 WSDOT NWR – OPTION 4)

Section 8-20.3(14)D is supplemented with the following:

Existing Loop Test

When two-conductor shielded detector lead-in cable is scheduled to be installed and spliced to an existing loop, the Contractor shall perform the following:

1. Disconnect the existing loop from the detector lead-in splice.
2. Megger test the existing loop wire. A resistance reading of less than 100-megohms is considered a failure.
3. Loops that fail the test shall be replaced and then retested.
4. After the final testing of the loops, the detector lead-in cable installation shall be completed and the loop system tested according to Tests A, C and D.

(March 31, 2012 CFW GSP)

Section 8-20.3(14)D is supplemented with the following:

Test A – The resistance shall not exceed values calculated using the given formula.

Resistance per 1000 ft of 14 AWG, $R = 3.26 \text{ ohms} / 1000 \text{ ft}$

$$R = \frac{3.26 \times \text{distance of lead-in cable (ft)}}{1000 \text{ ft}}$$

Test B and Test C in this section are deleted and replaced with the following: Meggar readings of the detection wire to ground shall read 200 megohms at the amplifier connection. The 200 megohms or more shall be maintained after the splices are tested by submerging them in detergent water for at least 24 hours. The tests will be conducted with County personnel at the request of the Contractor. All costs incurred to meet this minimum standard will be the responsibility of the Contractor.

8-20.3(18) Pedestrian Pushbuttons

8-20.3(18)A Materials

Section 8-20.3(18)A is supplemented with the following:

The Pedestrian Pushbutton and Foundation shall consist of the following components:

1. Foundation, including excavation, haul, and forms

2. Pole assembly and hardware
3. Pushbutton and sign assembly
4. Trenching, installation of new conduits, backfill, and surface restoration.
5. Wiring and enclosures

8-20.3(18)B Construction Requirements

Section 8-20.3(18)A is supplemented with the following:

The Contractor shall remove and replace Campbell Company's Accessible Pedestrian Pushbuttons for the following locations.

SW Corner of 1st Ave S and SW 356th St

1. Construct 1 new foundation and pole and install 1 new Pedestrian Push Button (PPB) per WSDOT Standard Plan J-20.10-03, Plan sheet A02 and Detail sheet A10.
2. Remove and dispose 1 existing Pedestrian Push button from traffic signal pole.

SW Corner of 1st Ave S and S 356th St

3. Construct 1 new foundation and pole and install 1 new Pedestrian Push Button (PPB) per WSDOT Standard Plan J-20.10-03, Plan sheet A02 and Detail sheet A11.
4. Remove and dispose 1 existing Pedestrian Push button from traffic signal pole.

The Contractor shall provide and install accessible pedestrian pushbuttons as shown on the plans. The position of the accessible pedestrian pushbuttons shall be aligned parallel to the direction of travel for the crosswalk which the pushbutton is intended to serve; however, final positioning for the optimum effectiveness shall be approved by the Engineer.

The sign legend to be used shall be sign designation R62e as shown in the Standard Details and shall be nine (9) inches by fifteen (15) inches. All mounting bolts shall be non-corrosive stainless steel.

The pedestrian pushbutton housing shall be aluminum and shall be painted black. Unit(s) shall operate at a temperature range of -35C to 85C. Power requirements shall be 120 VAC, 60 Hz (100 ma, typical +/- 20%).

8-20.4 Measurement

Section 8-20.4 is supplemented with the following:

"Pedestrian Pushbutton and Foundation" will be measured by lump sum.

"Detector Loop" will be measured by each.

8-20.5 Payment

(April 12, 2018 CFW GSP)

Section 8-20.5 is deleted and replaced with the following:

Payment will be made in accordance with the following:

"Detector Loop", per each.

"Pedestrian Pushbutton and Foundation", per lump sum.

The contract bid price for the above, including all incidental work, and shall be full compensation for all labor, materials, tools, and equipment necessary to satisfactorily complete the work.

The unit contract price per lump sum for “Pedestrian Pushbutton and Foundation” shall be full compensation for full and complete installation including foundation construction and restoration, acquisition and installation of pole, base and hardware, push-button, controller, wiring, and signs such that the installed unit is fully operational per this specifications.

The unit contract price for “Detector Loop” shall be full compensation for full and complete installation including wire, sealant and all other labor, materials, tools and equipment required to complete the installation in accordance with the Plans, specifications, and Standard Plans. The unit price shall also include providing and installing loop home runs, conduit stub-outs, and soldered splices. Sawcutting shall be considered incidental to the loop installation. Payment shall not be made for this item until the loop is fully functional as determined by the Engineer.

SECTION 8-21 PERMANENT SIGNING

8-21.1 Description

(March 13, 2012 CFW GSP)

Section 8-21.1 is deleted and replaced with the following:

This work shall consist of furnishing and installing permanent signing, sign removal, sign relocation, and the project sign installation and removal, in accordance with the Plans, these Specifications, the Standard Plans, MUTCD, and the City of Federal Way Standard Details at the locations shown in the Plans or where designated by the Engineer. Signs to be removed as shown on the Plans, shall be returned to the Owner.

Colors of all permanent signs shall be submitted to the City for approval prior to installation in the field. Installed signs that do not have color approved by the City may be required to be removed and replaced in an acceptable color at the Contractor’s expense.

8-21.3 Construction Requirements

8-21.3(1) Location of Signs

Section 8-21.3(1) is replaced with the following:

Sign is located in the plans by reference to a general stationary monument and shown an estimated distance for installation and placement. No survey stations are provided, but dimensions are shown. These are tentative locations, subject to change by the Engineer, and shall be field verified by the inspector prior to installations. Timber posts and break away pole lengths shall be per the plan details. Sign heights shall be per the plan details.

8-21.4 Measurement

(April 12, 2018 CFW GSP)

Section 8-21.4 is deleted and replaced with the following:

“R9-3A Sign and Post” will be measured on a lump sum.

8-21.5 Payment

(April 12, 2018 CFW GSP)

Section 8-21.5 is deleted and replaced with the following:

“R9-3A Sign and Post”, per lump sum.

The unit contract price per lump sum for “R9-3A Sign and Post” will be full compensation for the costs of all labor, tools, equipment, and materials necessary or incidental to furnishing, installing signs and posts as shown in the Plans.

SECTION 8-22 PAVEMENT MARKING

8-22.1 Description

(December 18, 2009 CFW GSP)

Section 8-22.1 is supplemented with the following:

Pavement markings shall conform to City of Federal Way Standard Details. Profiled and plastic lines shall conform to the pattern as shown on WSDOT Standard Plan M-20.20-01.

8-22.2 Materials

(October 23, 2014 CFW GSP)

Section 8-22.2 Sentence #3 is deleted and replaced with the following:

Glass beads for Type A plastic shall be as recommended by the manufacturer.

Section 8-22.2 is supplemented with the following:

Glass beads for Type D plastic and Bonded Core Elements shall be as shown in Section 9-34.4.

8-22.3 Construction Requirements

(April 12, 2018 CFW GSP)

Section 8-22.3 is supplemented with the following:

Temporary Pavement Marking

Temporary pavement markings shall be installed and maintained by the Contractor whenever permanent pavement markings are included in the Contract and traffic is released onto public streets or roadways prior to installation of permanent pavement markings. The Contractor shall perform preliminary layout work to the satisfaction of the Engineer prior to installation of temporary pavement markings. After approval of permanent lane markings, the Contractor shall remove the temporary lane markings to the satisfaction of the Engineer.

The Contractor shall install and remove approved 4-inch-wide reflective traffic tape, paint line, RPMs and pavement markings per City of Federal Way Standard Details Dwg 3-17, Dwy 3-18, and Dwg 3-19, as shown on the Plans, specified in the Special Provisions for this Contract, or as directed by the Engineer.

Appropriately colored 4-inch-wide reflective traffic tape shall be installed with a skip pattern based on a 10-foot unit consisting of a 1-foot line of tape and a 9-foot gap, unless otherwise specified on the Plans or in the Special Provisions. Reflective traffic tape markings shall generally follow the alignment for the permanent pavement markings and double lines shall be used when specified for the permanent pavement markings.

Reflective tape shall not be used when the temporary pavement markings are to be exposed to traffic for more than two weeks without the written approval of the Engineer.

Paint lines shall be provided for temporary pavement marking conditions not applicable for reflective tape.

All costs in connection with the use of (placement and removal) reflective traffic tape as temporary pavement markings shall be incidental to other bid items. All costs for paint lines and reflective pavement markers used for temporary traffic control will be paid under those respective bid items.

8-22.3(3) Marking Application

8-22.3(3)E Installation ***(April 12, 2018 CFW GSP)***

Section 8-22.3(3)E is supplemented with the following:

Profiled Type D lines shall be installed per WSDOT Standard Plan M20.20-01.

8-22.3(3)G Glass Beads ***(March 13, 2012, CFW GSP)***

Section 8-22.3(3)G is supplemented with the following:

Glass beads shall be applied to Type D markings at a rate of eight (8) to ten (10) pounds per one hundred square feet.

Bonded core elements shall be applied to Type D markings at a rate of ten (10) grams per four (4) inch wide by one (1) linear foot of marking.

8-22.3(6) Removal of Pavement Markings ***(April 12, 2018 CFW GSP)***

Section 8-22.3(6) is supplemented with the following:

All pavement markings, including, but not limited to: paint, lane markers, traffic buttons, plastic markings, and adhesive residue shall be removed prior to overlay. This work shall be incidental to other bid items of the contract, and no separate payment will be made.

8-22.4 Measurement ***(December 13, 2012 CFW GSP)***

Section 8-22.4 is supplemented with the following:

Removal of Pavement Markings will not be measured.

8-22.5 Payment ***(April 12, 2018 CFW GSP)***

Section 8-22.5 is modified as follows:

- “Paint Line”, per linear foot.
- “Painted Wide Line”, per linear foot.
- “Painted Bicycle Lane Symbol”, per each.
- “Profiled Plastic Line”, per linear foot.
- “Plastic Edge Line”, per linear foot.
- “Profiled Plastic Wide Line”, per linear foot.
- “Plastic Crosswalk Line”, per linear foot.
- “Plastic Stop Line”, per linear foot.
- “Plastic Traffic Arrow”, per each.

The unit contract price for the above, including all incidental work, and shall be full compensation for the costs of all labor, tools, equipment, and materials necessary or incidental to removing all types of markings and disposing of offsite.

8-23 TEMPORARY PAVEMENT MARKINGS

Section 8-23 is supplemented with the following:

All costs in connection with the use of reflective traffic tape as temporary pavement markings shall be incidental to other bid items. All costs for paint lines and reflective pavement markers used for temporary traffic control shall be paid under other bid items.

Temporary Pavement Markings

Temporary pavement markings shall be installed and maintained by the Contractor whenever permanent pavement markings are included in the Contract and traffic is released onto public streets or roadways prior to installation of permanent pavement markings. The Contractor shall perform preliminary layout work to the satisfaction of the Engineer prior to installation of the temporary pavement markings. The temporary pavement markings shall be installed and maintained to the satisfaction of the Engineer until the permanent pavement markings are installed and approved in writing by the Engineer. After approval of permanent lane markings, the Contractor shall remove the temporary lane markings to the satisfaction of the Engineer.

Appropriately colored 4-inch-wide reflective traffic tape shall be installed with a skip pattern based on a 10-foot unit consisting of a 1 foot line of tape and a 9-foot gap, unless otherwise specified in the Plans or in the Special Provisions for this Contract. Reflective traffic tape markings shall generally follow the alignment for the permanent pavement markings and double lines shall be used when specified for the permanent pavement markings. Reflective tape shall not be used when the temporary pavement markings are to be exposed to traffic for more than 2 weeks without the written approval of the Engineer.

The Contractor shall provide paint lines per Sections 8-22 and 9-34, and RPMs per Sections 8-09 and 9-21, at the direction of the Engineer for temporary pavement markings for construction staging. Paint lines shall be provided for temporary pavement markings for any conditions not applicable for reflective tape. Paint lines and RPMs for temporary pavement markings shall be paid under "Paint Line" and "Raised Pavement Marker Type 2".

Temporary pavement marking shall be per Section 5-04.3(17) of these Special Provisions

8-23.4 Measurement

Section 8-23.4 is modified and replaced with the following:

Temporary Raised Pavement Markers will not be measured.
Temporary Pavement Marking will not be measured.

8-23.5 Payment

Section 8-23.5 is supplemented with the following:

"Temporary Pavement Marking", incidental to pavement markings.

END OF DIVISION 8

DIVISION 9 MATERIALS

9-03 AGGREGATES

9-03.12 Gravel Backfill

9-03.12(6) Pit Run Sand

(April 12, 2018 CFW GSP)

Section 9-03.12(6) is a new section:

<u>Sieve Size</u>	<u>Percent Passing</u>
3/8" square	100
U.S. No. 4	90
Sand Equivalent	30 minimum

9-03.14(3) Common Borrow

(April 12, 2018 CFW GSP)

Section 9-03.14(3) is modified with the following requirements:

Material from on-site excavations meeting the requirements for Common Borrow shall be used to the extent practicable. Material for common borrow shall consist of granular soil and/or aggregate which is free of trash, wood, debris, and other deleterious material.

Common Borrow material shall be at the proper moisture content for compaction. This material is generally moisture sensitive. The natural moisture content shall range from not more than 1 percent wet of optimum to not more than 3 percent dry of optimum as determined in accordance with Section 2-03.3(14)D. The material shall not pump or yield under the weight of compaction equipment and construction traffic. The Contractor is responsible for protecting the material from excess moisture wherever/whenever possible. To the extent practicable, this material should be handled only during non-rainy periods and should be removed, hauled, placed, and compacted into final embankments without intermediate handling or stockpiling. Surfaces should be graded and sloped to drain and should not be left uncompacted.

Common Borrow shall meet the following gradation limits:

Sieve Size	Percent Passing (by weight)
6" square ¹	100
4" square	90 – 100
2" square	75 - 100
U.S. No. 4	50 - 80
U.S. No. 40	50 max.
U.S. No 200	25 max.

¹ For geosynthetic reinforced walls or slopes, 100percent passing 1¼-inch square sieve and 90 to 100 percent passing the 1-inch square sieve.

Common Borrow shall contain sufficient fines for compaction and to bind the compacted soil mass together to form a stable surface when heavy construction equipment is operated on its surface.

9-14 EROSION CONTROL AND ROADSIDE PLANTING

9-14.1 Topsoil

9-14.1(1) Topsoil Type A ***(April 12, 2018 CFW GSP)***

Section 9-14.1(1) is supplemented with the following:

Topsoil Type A mix shall be 50% pure organic compost and 50% sand or sandy loam. The soil shall be high in organic content and comprised of fully composted and mature organic materials.

Refer to Section 9-14.4(8) of the Standard Specifications for compost requirements. No fresh sawdust or other fresh wood by-products shall be added to extend the volume after the composting process.

Chemical and physical characteristics of Topsoil Type A shall comply with the following:

Screen Size	7/16" Maximum
Total Nitrogen	0.25% Minimum
Organic Matter	10% Minimum
pH Range	5.5 to 7.5
Conductivity	5 mmhos/cm Maximum

9-14.6(8) Sod ***(April 12, 2018 CFW GSP)***

Section 9-14.6(8) is supplemented with the following:

Sod Lawn shall be three-way Tall Fescue Blend Sod, 33.33% Firecracker LS Tall Fescue, 33.33% Spyder LS Tall Fescue, 33.33% Raptor II Tall Fescue with degradable netting, or approved equal.

SECTION 9-18 PRECAST TRAFFIC CURB AND BLOCK TRAFFIC CURB

9-18.3 Vacant ***(December 12, 2012 CFW GSP)***

Section 9-18.3 is deleted and replaced with the following new Section:

9-18.3 Block Traffic Curb

In construction of the block traffic curb, the Contractor shall have the option of using either length block shown in the plans, provided the same length block is used throughout the entire project.

The curb units shall be made from portland cement and high quality sand and gravel, the proportions of which will be left to the discretion of the producer as long as the unit develops a minimum compressive strength of 1,600 psi at 28 days when tested for end loading.

The proportions of sand, gravel, and cement, the type of forms used, and the method of compacting the concrete in the forms shall all be such that as dense, smooth, and uniform a surface as is practicable for a concrete masonry unit is obtained on the finished curb units. The faces that are to be exposed shall be free from chips, cracks, air holes, honeycomb, or other imperfections except that if not more than 5 percent of the curb units contain slight cracks, small chips not larger than 1/2 inch, or air holes not more than 1/2 inch in diameter or depth, this shall not be deemed grounds for rejection. The units used in any contiguous line of curb shall have approximately the same color and surface characteristics.

SECTION 9-21 RAISED PAVEMENT MARKERS (RPM)

9-21.2(1) Physical Properties

(March 13, 2012 CFW GSP)

Section 9-21.2(1) is supplemented with the following:

Type 2 raised pavement markers shall NOT be ceramic.

SECTION 9-28 SIGNING MATERIALS AND FABRICATION

9-28.1 General

(January 8, 2013 CFW GSP)

Paragraph three is deleted and replaced with the following:

All regulatory (R series), school (S series), and warning (W and X series) signs, except for parking regulation, parking prohibition signing and signs of fluorescent yellow color shall be constructed with Type III Glass Bead Retroreflective Element Material sheeting in accordance with Section 9-28.12 of the Standard Specifications. This sheeting has a retro reflection rating of 250 candelas/foot candle/square foot for white-silver sheeting with a divergence angle of 0.2 degrees and an incidence angle of minus 4 degrees. This high intensity sheeting shall be Type III sheeting or greater. All street name (D-3) sign sheeting shall meet this specification. The reflectivity standard of supplemental plaques shall match that of the primary sign.

All overhead signing, all regulatory (R series) of fluorescent yellow color and all school (S series) of florescent yellow color shall meet the specifications of Type IX Micro Prismatic Retroreflective Element Material sheeting in accordance with Section 9-28.12 of the Standard Specifications. This standard applies to all signs mounted above the roadway, on span wire or signal mast arms and all regulatory (R series) and school (S series) signs of fluorescent yellow color. The reflectivity standard of supplemental plaques shall match that of the primary sign.

Motorist information and parking signing shall be constructed with Type I Glass Bead Retroreflective Element Material sheeting in accordance with Section 9-28.12 of the Standard Specifications. The reflectivity standard of supplemental plaques shall match that of the primary sign.

9-28.2 Manufacturer's Identification and Date

(October 23, 2014 CFW GSP)

Section 9-28.2 is deleted and replaced with the following:

All signs shall show the manufacturer's name and date of manufacture on the back.

9-28.8 Sheet Aluminum Signs

(January 8, 2013 CFW GSP)

Section 9-28.8 table is deleted and replaced with the following:

<u>Maximum Dimension</u>	<u>Blank Thickness</u>
Less than 30 inches	0.080 inches
Greater than 30 inches, less than 48 inches	0.100 inches
Greater than 48 inches	0.125 inches

Section 9-28.8 is supplemented with the following:

All permanent signs shall be constructed from aluminum sign blanks unless otherwise approved by the Engineer. Sign-blank minimum thicknesses, based on maximum dimensions, shall be as follows:

All D-3 street-name signs shall be constructed with 0.100-inch-thick blanks. The Contractor shall install permanent signs which meet or exceed the minimum reflectivity standards. All sign face sheeting shall be applied to sign blanks with pressure sensitive adhesives.

9-28.9 Fiberglass Reinforced Plastic Signs

(December 18, 2009 CFW GSP)

Section 9-28.9 is deleted in its entirety.

9-28.14 Sign Support Structures

(December 18, 2009 CFW GSP)

Section 9-28.14 is supplemented with the following:

Unless otherwise noted on the plans or approved by the engineer, all sign posts shall be timber sign posts.

9-28.14(1) Timber Sign Posts

(December 18, 2009 CFW GSP)

Section 9-28.14(1) is supplemented with the following:

All ground-mounted sign posts shall use pressure treated hem-fir wood posts unless approved otherwise by the Engineer. All wood posts shall be buried a minimum of 30 inches below the finished ground line. Post backfill shall be compacted at several levels to minimize settling. All posts shall be two-way plumb.

SECTION 9-29 ILLUMINATION, SIGNAL, ELECTRICAL

9-29.1 Conduit, Innerduct, and Outerduct

(June 5, 2000 WSDOT NWR)

Section 9-29.1 is supplemented with the following:

Conduit Coatings

Conduit fittings for steel conduit shall be coated with galvanizing repair paint in the same manner as conduit couplings. Electroplated fittings are not allowed.

Steel conduit entering concrete shall be wrapped in 2-inch-wide pipe wrap tape with a minimum 1-inch overlap for 12 inches on each side of the concrete face. Pipe wrap tape shall be installed per the manufacturer's recommendations.

(October 23, 2014 CFW GSP)

Fiber optic cable conduit shall be supplied as a system from a single manufacturer providing all of the conduit, all required fittings, termination and other installation accessories; all in accordance with the Contract Documents.

9-29.1(1) Rigid Metal Conduit, Galvanized Steel Outerduct, and Fittings

(August 10, 2009 WSDOT NWR)

Section 9-29.1(1) is supplemented with the following:

Conduit Sealing

Mechanical plugs for cabinet conduit sealing shall be one of the following:

1. Tyco Electronics - TDUX
2. Jackmoon – Triplex Duct Plugs
3. O-Z Gedney – Conduit Sealing Bushings

The mechanical plug shall withstand a minimum of 5 psi of pressure.

9-29.1(2) Rigid Metal Conduit Fittings and Appurtenances

(August 10, 2009 WSDOT NWR)

Section 9-29.1(2) is supplemented with the following:

Conduit Coatings

Electroplated couplings are not allowed.

(March 4, 2009 WSDOT NWR)

Surface Mounting Conduit Attachment Components

Channel supports and all fastening hardware components shall be Type 304 stainless steel.

9-29.2 Junction Boxes, Cable Vaults and Pull Boxes

9-29.2(1)A Standard Duty Junction Boxes

(April 12, 2018 CFW GSP)

Section 9-29.2(1) is supplemented with the following:

Concrete Junction Boxes

Both the slip-resistant lid and slip-resistant frame shall be treated with Mebac#1 as manufactured by IKG industries, or SlipNOT Grade 3-coarse as manufactured by W.S. Molnar Co. Where the exposed portion of the frame is 1/2 inch wide or less the slip-resistant treatment may be omitted on that portion of the frame. The slip-resistant lid shall be identified with permanent marking on the underside indicating the type of surface treatment (“M1” for Mebac 1; or “S3” for SlipNOT Grade 3-coarse) and the year manufactured. The permanent marking shall be 1/8 inch line thickness formed with a mild steel weld bead.

9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes

(April 12, 2018 CFW GSP)

Section 9-29.2(2)A is supplemented with the following:

Both the slip-resistant lid and slip-resistant frame shall be treated with Mebac#1 as manufactured by IKG industries, or SlipNOT Grade 3-coarse as manufactured by W.S. Molnar Co. Where the exposed portion of the frame is 1/2 inch wide or less the slip-resistant treatment may be omitted

on that portion of the frame. The slip-resistant lid shall be identified with permanent marking on the underside indicating the type of surface treatment (“M1” for Mebac 1; or “S3” for SlipNOT Grade 3-coarse) and the year manufactured. The permanent marking shall be 1/8 inch line thickness formed with a mild steel weld bead.

9-29.2(5)E Fiber Vaults

(March 15, 2012 CFW GSP)

Section 9-20.2(5)E is a new section:

Where fiber vaults are called for on the Drawings, the Contractor shall provide pre-cast utility vaults meeting ASTM C 478 with twenty-eight (28) day 5500 psi minimum compressive strength concrete and designed for H-20 loading unless otherwise indicated on the Drawings.

The communications/fibers vault, shall be a type 444-LA manufactured by Oldcastle Precast, Inc. or approved equivalent, or a WSDOT Pull Box or cable vault per WSDOT Standard Plan J.90.10 and J.90.20. The fiber vaults are to be provided with a racking hardware package for cable storage and mounting of the splice case. The vault cover shall have a bolt-down, non-skid surface and a ground strap.

Fiber vaults shall contain a splice enclosure.

Fiber Optic Splice Closure shall be a Coyote Closure manufactured by Preformed Line Products or equivalent, shall be suitable for both vault and aerial applications, and shall meet the following requirements:

1. Be made of two injection-molded high-density thermoplastic shells, be 22 inches in length and 6 inches in diameter, and have capacity to store up to four splice trays.
2. Each splice case shall have two end plates; one end plate shall have no ports, the other endplate shall consist of a three section end plate with six ports - two 3/4-inch ports and four 7/8-inch ports. Each unused port shall have a grommet installed. The end plates shall be durable glass-filled high-density thermoplastic shells.
3. The splice enclosure shall be suitable for outdoor applications with a temperature range of -10°C to 60°C.
4. The splice enclosure shall provide sufficient space to allow entry of fiber optic cable without exceeding the cable minimum bending radius.
5. The enclosure shall protect the splices from moisture and mechanical damage and shall be resistant to corrosion.
6. The enclosure shall be waterproof, re-enterable and shall have a neoprene gasket sealing system to prevent water from entering.
7. The enclosure shall permit selective splicing to allow one or more fibers to be cut and spliced without disrupting other fibers.
8. The enclosure shall have strain relief for the cable to prevent accidental tension from disturbing the splices.
9. Each splice tray will be able to store 36 splices securely. Each splice shall be individually mounted and mechanically protected on the splice tray. Vinyl markers shall be supplied to identify each

fiber spliced within the enclosure.

9-29.3 Fiber Optic Cable, Electrical Conductors and Cable
(December 13, 2012 CFW GSP)

Section 9-29.3 is supplemented with the following:

Video cable from the camera (sensor) to the controller cabinet shall conform to the video detection manufacturer's recommendations.

9-29.3(2)F Detector Loop Wire
(April 12, 2018 CFW GSP)

Section 9-29.3(2)F is modified as follows:

Detector loop wire shall use 14 AWG stranded copper conductors, and shall conform to IMSA Specification 51-7, with cross-linked polyethylene (XLPE) insulation encased in a polyethylene outer jacket (PE tube).

9-29.3(2)H Three-Conductor Shielded Cable
(March 13, 2012 CFW GSP)

Section 9-29.3(2)H is supplemented with the following:

Lead-in cable back to the controller for pre-emption units shall be GTT detector 138 cable or equivalent.

9-29.3(2)I Twisted Pair Communications Cable
(October 23, 2014 CFW GSP)

Section 9-29.3(2)I is deleted in its entirety. See Section 8-20.3(8)A.

9-29.19 Pedestrian Push Buttons
(August 1, 2012 CFW GSP)

Section 9-29.19 is deleted and replaced with the following:

The Contractor shall provide and install accessible pedestrian pushbuttons and signs, as shown on the Plans. The position of the pedestrian pushbuttons shall be located in a manner such that the tactile arrow is aligned parallel to the direction of travel for the crosswalk which the pushbutton is intended to serve; however final positioning for the optimum effectiveness shall be approved by the Engineer. Accessible Pedestrian Pushbutton units shall be Campbell Company Guardian Model Advisor Guide Accessible Pedestrian Station (AGPS) or approved equal. The station shall have a black body color and white actuator button and shall meet the following requirements:

SECTION 9-34 PAVEMENT MARKING MATERIAL

9-34.3 Plastic

9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate
(March 13, 2012 CFW GSP)

Section 9-34.3(4) is supplemented with the following:

The methyl methacrylate (MMA) material shall be formulated as a long-life durable pavement marking system capable of providing a minimum of two years of continuous performance. The material shall be a catalyzed methyl methacrylate (MMA), wet-continuous reflective product and placed shall have a dry time (cure) to the touch of no more than 30 minutes. The material shall be capable of retaining reflective glass beads and ceramic micro-crystalline

elements of the drop-on or spray-on type as specified by the manufacturer. The binder shall be lead free and suitable for bituminous and concrete pavements.

9-34.4 Glass Beads for Pavement Marking Materials

(March 13, 2012 CFW GSP)

Section 9-34.4 is supplemented with the following:

Methyl Methacrylate Pavement Markings Optics

Glass Beads

Surface-drop glass beads shall be the “Utah Blend” with a Methacrylate compatible coupling agent approved by the material manufacturer.

Glass beads shall be applied at a rate of eight (8) to ten (10) pounds per one hundred square feet.

Bonded Core Elements

Surface-drop ceramic elements shall be the Series 50M or 70M with a Methacrylate compatible coupling agent approved by the material manufacturer. Elements shall meet or exceed a minimum initial value of 150 mcd for white and 125 mcd for yellow per ASTM 2176.

The bonded core reflective elements shall contain either clear or yellow tinted microcrystalline ceramic beads bonded to the opacified core. These elements shall not be manufactured using lead, chromate or arsenic. All “dry-performing” microcrystalline ceramic beads bonded to the core shall have a minimum index of refraction of 1.8 when tested using the liquid oil immersion method. All “wet performing” microcrystalline ceramic beads bonded to the core shall have a minimum index of refraction of 2.30 when tested using the liquid oil immersion method.

There are two gradations for the bonded core elements, standard size and “S” series. “S” series is a slightly finer gradation of elements compared to standard.

Element Gradations			
Mass Percent Passing (ASTM D1214)			
US Mesh	Micron	Standard Elements	“S” Series
12	1700	80-100	85-100
14	1410	45-80	70-96
16	1180	5-40	50-90
18	1000	0-20	5-60
20	850	0-7	0-25
30	600		0-7

A sample of bonded core reflective elements supplied by the manufacturer shall show resistance to corrosion of their surface after exposure to a 1% solution (by weight) of sulfuric acid. The 1% acid solution shall be made by adding 5.7 cc of concentrated acid into 1000cc of distilled water. CAUTION: Always add the concentrated acid into the water, not the reverse.

The bonded core elements are surface treated to optimize embedment and adhesion to the MMA binder. Elements treated for use with MMA shall have identification on packaging or label to indicate use with the MMA binder.

Bonded core elements shall be applied at a rate of ten (10) grams per four (4) inch wide by one (1) linear foot of marking.

Reflectance

Typical initial retro reflectance values are shown in the Table below. Typical retro reflectivity is averaged over many readings. Minimum Retro reflectivity results represent average performance for smooth pavement surfaces. Values represent both standard and "S" Series elements. Results may vary due to differences in pavement type and surface roughness. Increased element drop rate may be necessary to compensate for increased surface area characteristic of rough pavement surfaces. The initial retro reflectance of a single installation shall be the average value determined by the measurement procedures outlined in ASTM E 1710, using a 30-meter (98.4 feet) retro-reflectometer. RL shall be expressed in units of millicandelas per square foot per foot-candle [mcd(ft-2)(fc-1)].

The optics incorporated into the pavement marking system shall be tested and certified by an independent laboratory to meet ASTM E2177 for wet-recovery and ASTM E2176 for wet-continuous performance levels.

The pavement marking system installed shall meet a minimum Dry reflectance value of 700 MCD/M2/LX for white pavement markings and 500 MCD/M2/LX for yellow pavement markings and wet-recovery (as described by ASTM 2177) reflectance value of 375 MCD/M2/LX for white pavement markings and 280 MCD/M2/LX for yellow pavement markings, and wet-continuous (as described by ASTM 2176 testing) reflectance values of 150 MCD/M2/LX for white pavement markings and 125 MCD/M2/LX for yellow pavement markings as measured with a 30 meter device approved by the Traffic Engineering Division (TED).

The Contractor will be required to take and record readings every 500 feet utilizing a 30 meter device approved by the Traffic Engineering Division. These readings shall be recorded on the daily report and submitted to the project engineer at the end of each work day or shift.

Minimum Initial Retro Reflectance Values		
	White	Yellow
Dry (ASTM E1710)	700	500
Wet recovery (ASTM E2177)	375	280
Wet continuous (ASTM E2176)	150	125

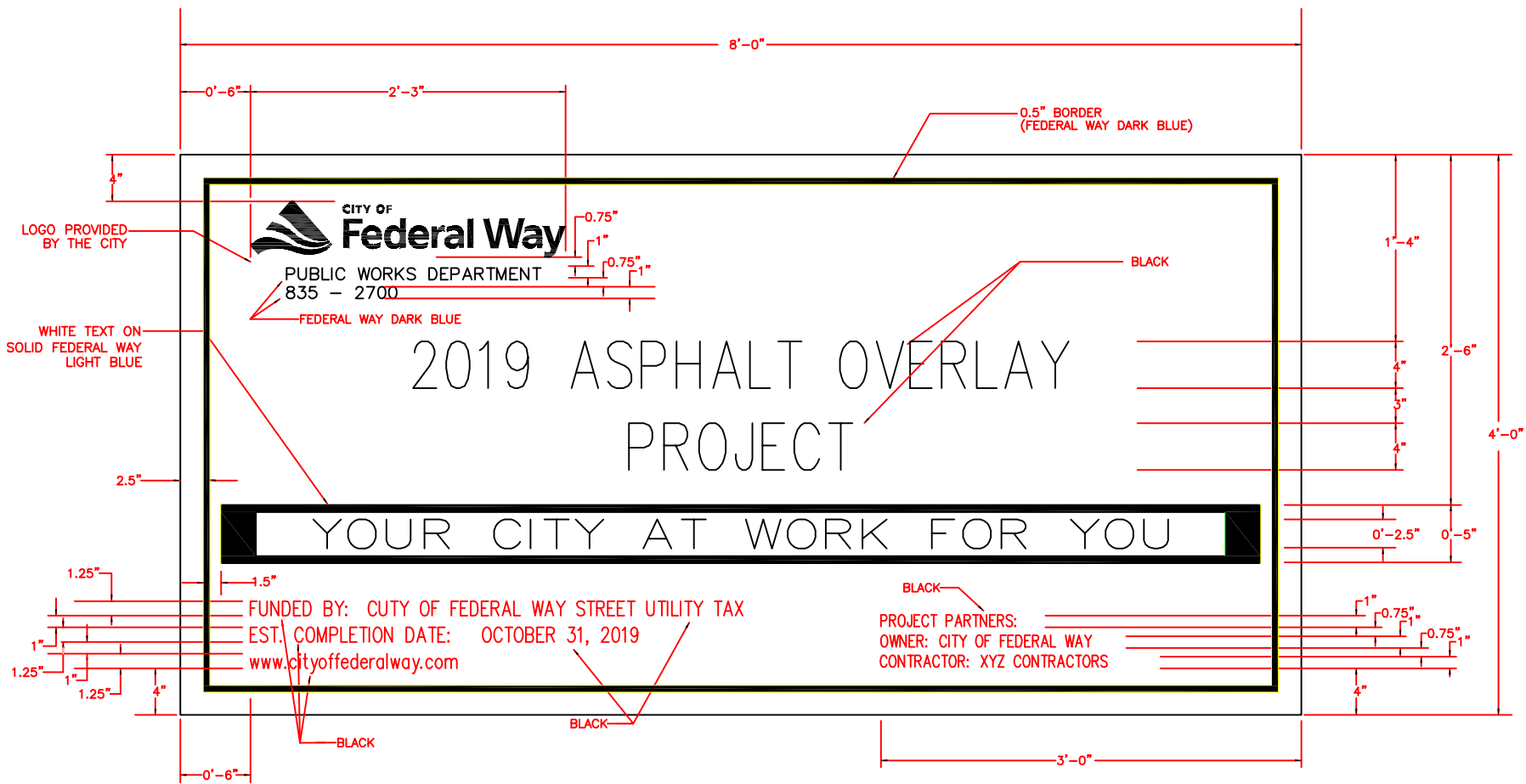
END DIVISION 9

APPENDIX A

STANDARD PLANS AND DETAILS

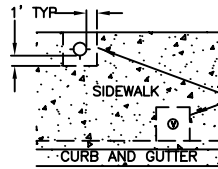
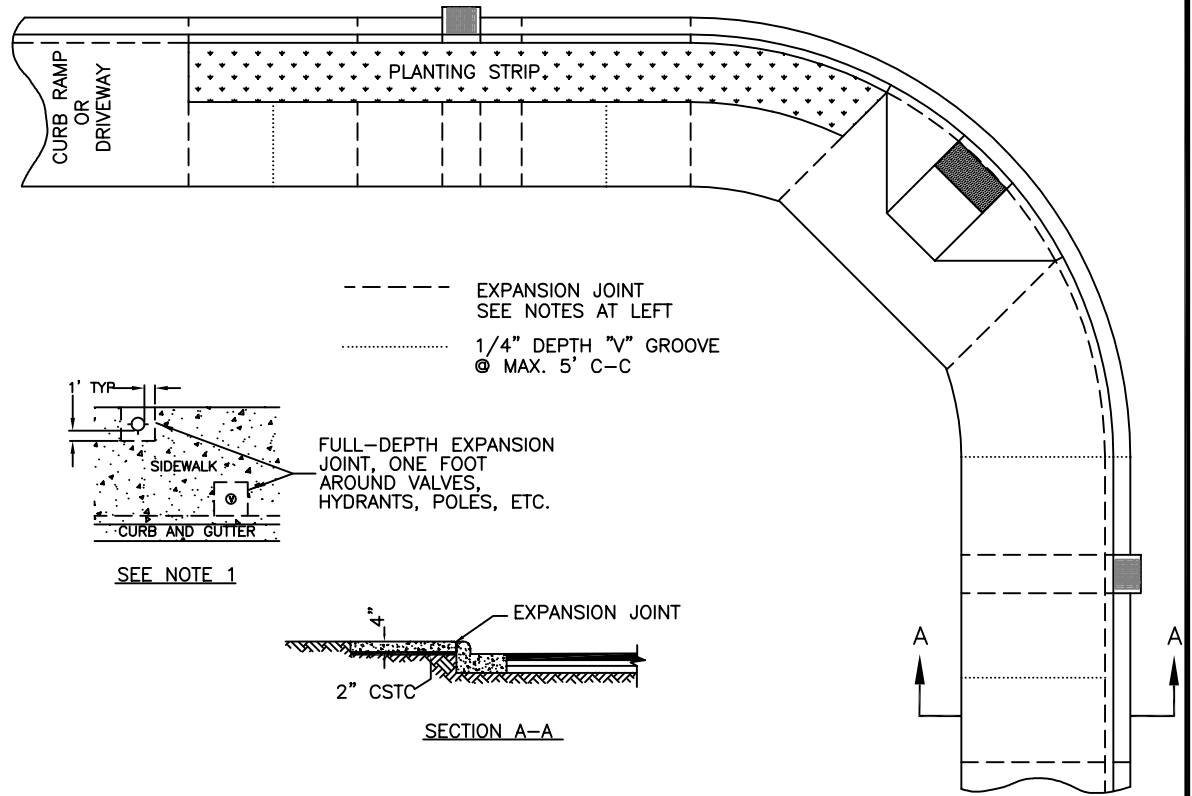
NOTES:

1. SIGN TO BE CONSTRUCTED OF 3/4" MARINE GRADE PLYWOOD
2. SIGN TO BE SEALED ON ALL SIDES WITH MARINE GRADE ENAMEL (WHITE).
3. PROVIDE 4"x 4" POSTS, PRESSURE TREATED. SITE CONDITIONS MAY REQUIRE DIFFERENT POST LENGTHS TO KEEP SIGN A PROPER DISTANCE ABOVE PREVAILING GRADE TO PERMIT PUBLIC VIEWING.

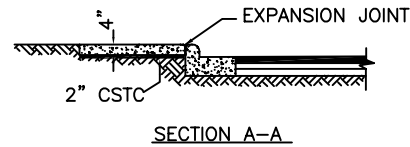


NOTES:

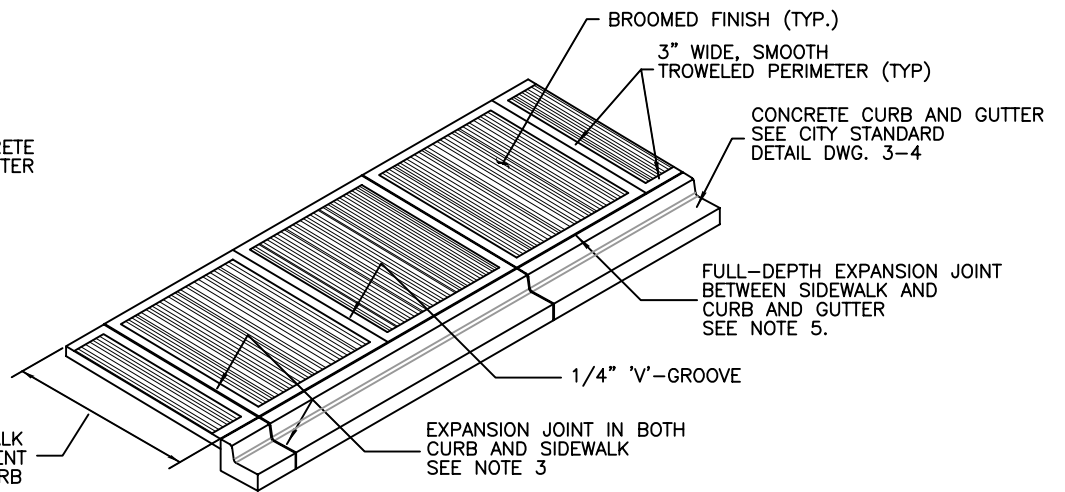
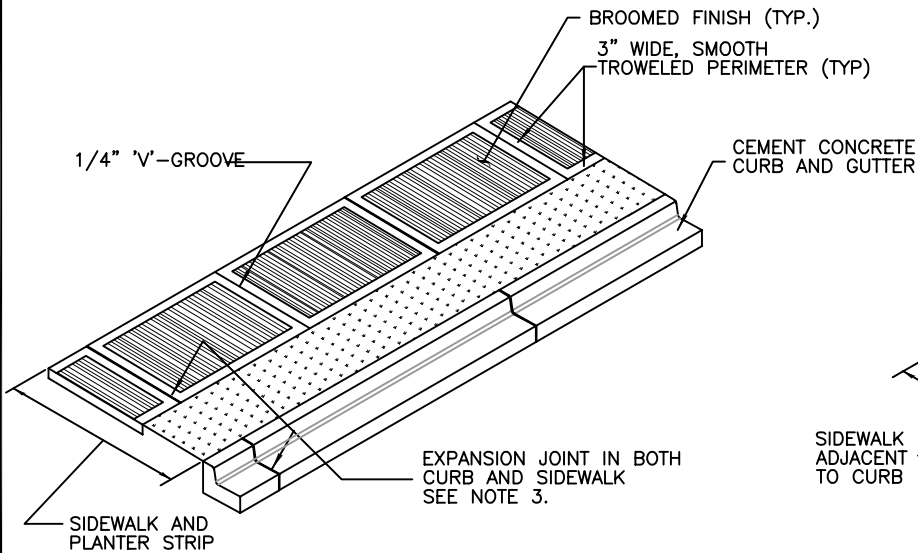
1. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED FULL DEPTH AROUND HYDRANTS, POLES, POSTS, AND UTILITY CASTINGS. SEE DETAIL AT RIGHT.
2. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED IN THE UPPER 2 INCHES OF CURBS AND SIDEWALKS AT 10 FOOT INTERVALS AND AT SIDES OF DRAINAGE INLETS. (JOINT MATERIAL OF 2 1/2" DEPTH MAY BE USED IN LIEU OF 2" DEPTH).
3. EXPANSION JOINTS IN SIDEWALK SHALL BE LOCATED SO AS TO MATCH THE JOINTS IN THE CURB AND GUTTER, WHETHER THE SIDEWALK IS ADJACENT TO THE CURB OR SEPARATED BY A PLANTER STRIP.
4. TOOL MARKS, CONSISTING OF 1/4-INCH 'V'-GROOVES SHALL BE MADE IN THE SIDEWALK AT 5 FOOT INTERVALS, INTERMEDIATE TO THE EXPANSION JOINTS.
5. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED FULL-DEPTH BETWEEN THE CURB AND ADJACENT SIDEWALK.
6. EXPANSION JOINT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM D994 (AASHTO M33).
7. MONOLITHIC POURS OF CURB AND SIDEWALK ARE NOT ALLOWED.



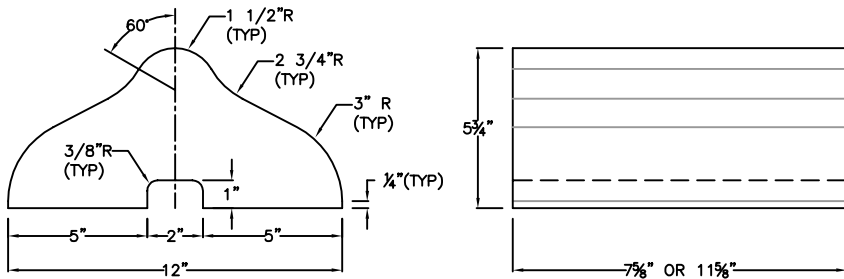
SEE NOTE 1



SECTION A-A

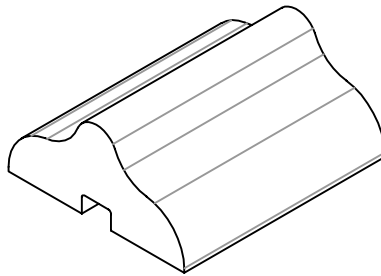


REV FEB 2017



SECTION

ELEVATION

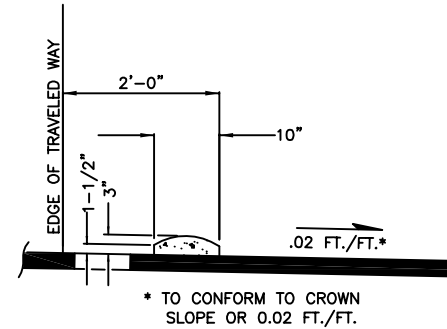


ISOMETRIC

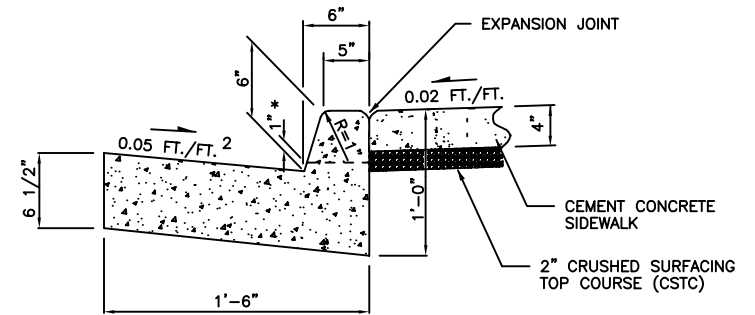
TYPE 'C' BLOCK TRAFFIC CURB

NOTES:

1. SEE DWG. 3-3 FOR JOINT REQUIREMENTS.
2. ROLL GUTTER TO MATCH POSITIVE SUPERELEVATION.
3. TO BE USED ONLY AS APPROVED BY THE PUBLIC WORKS DEPT.

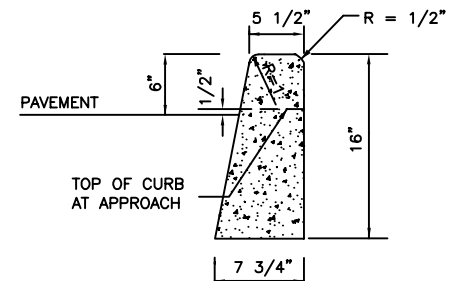


MOUNTABLE CEMENT CONCRETE CURB³



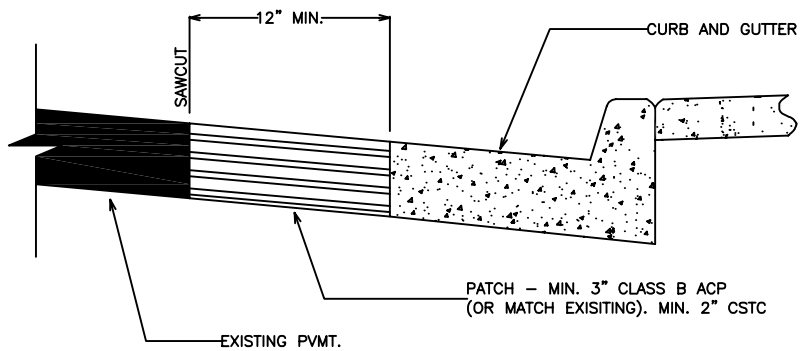
* NOTE: TOP OF LIP AT DRIVEWAYS.

NEW CEMENT CONCRETE CURB & GUTTER



CEMENT CONCRETE BARRIER CURB

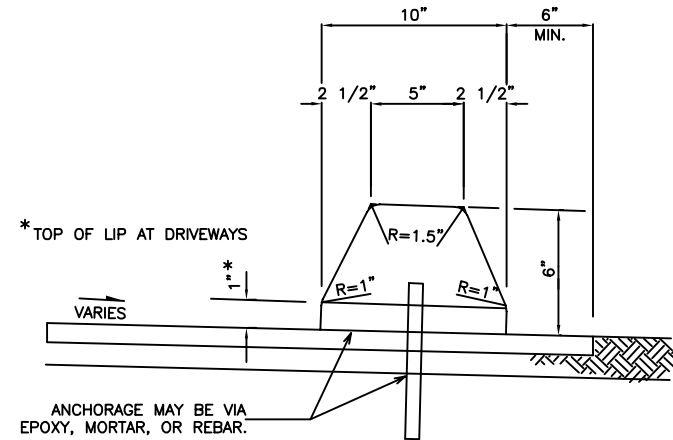
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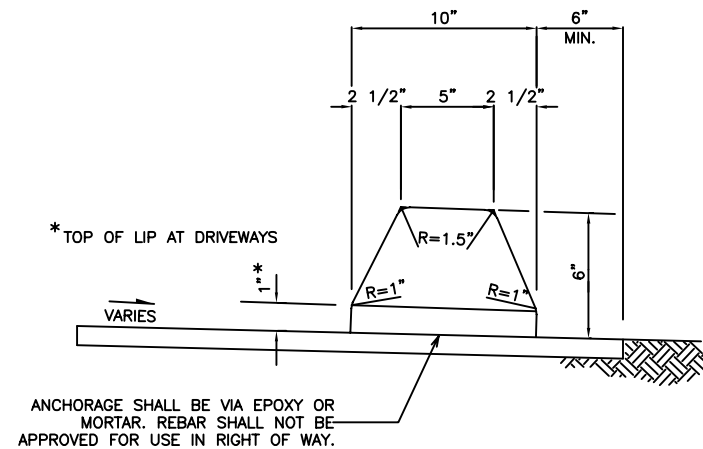
CEMENT CONCRETE CURB & GUTTER REPLACEMENT¹

NOTES:

1. EXISTING CURB REPLACEMENT WILL REQUIRE REMOVAL OF ASPHALT A MINIMUM OF 12" FROM FACE OF GUTTER.

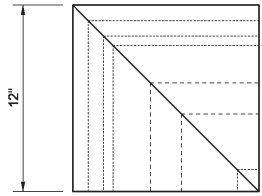


EXTRUDED ASPHALT OR CEMENT CONCRETE CURB
IN PRIVATE PARKING AREAS ONLY

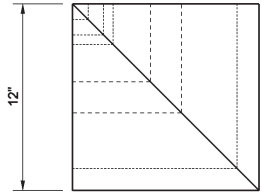


EXTRUDED CEMENT CONCRETE CURB
FOR USE IN PUBLIC RIGHT OF WAY

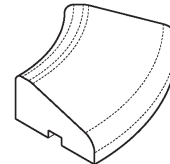
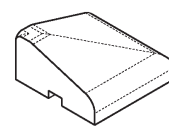
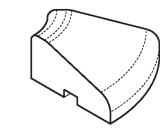
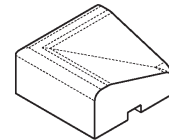
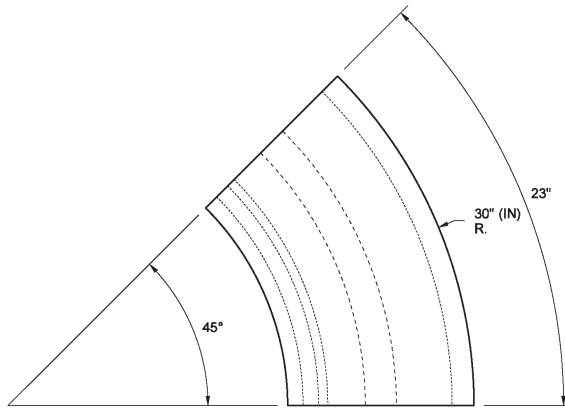
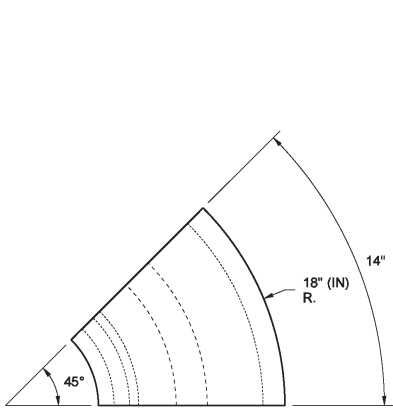
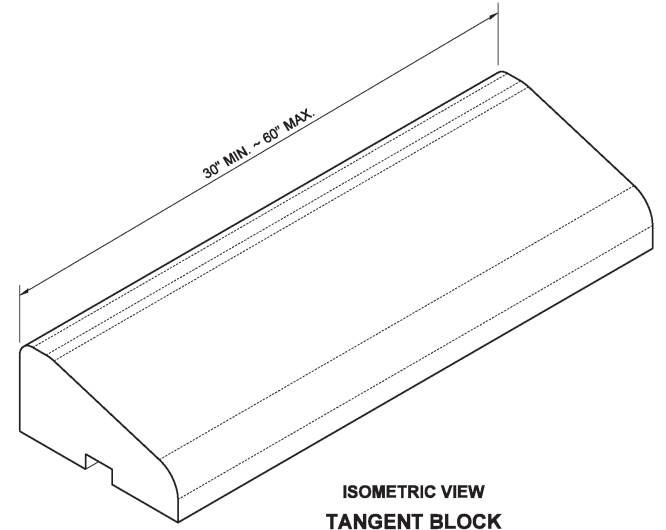
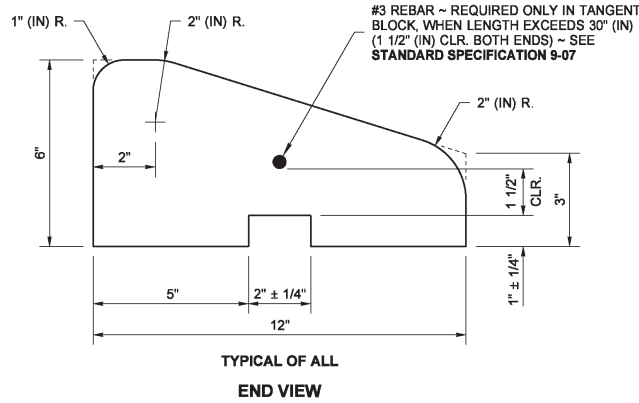
APRIL 2012



TOP VIEW
INSIDE CORNER BLOCK



TOP VIEW
OUTSIDE CORNER BLOCK



ISOMETRIC VIEWS

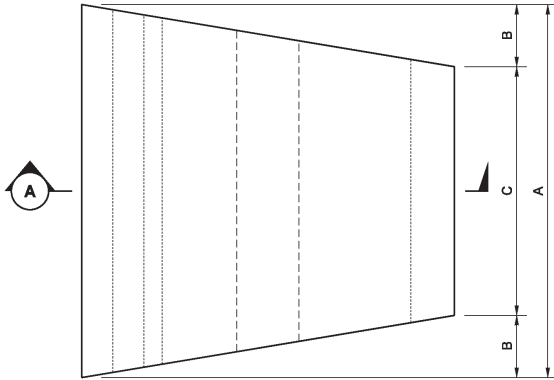


Bakotch, Pasco
Apr 22 2014 9:18 AM

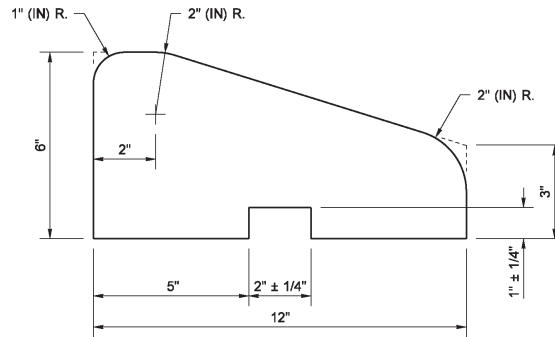
PRECAST SLOPED MOUNTABLE CURB
STANDARD PLAN F-10.62-02
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Bakotch, Pasco
Apr 22 2014 9:18 AM

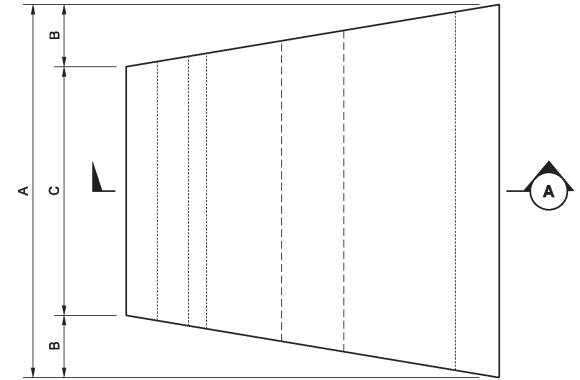
STATE DESIGN ENGINEER
Washington State Department of Transportation



TOP VIEW
INSIDE RADIUS BLOCK



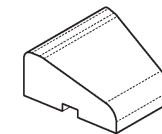
SECTION A



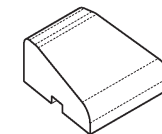
TOP VIEW
OUTSIDE RADIUS BLOCK

CURB RADIUS TABLE			
CURB RADIUS	DIMENSION A	DIMENSION B	DIMENSION C
3'	12"	2"	8"
4' TO 5'	12"	1 1/2"	9"
6'	12"	1"	10"
7'	12"	7/8"	10 1/4"
8'	18"	1 1/8"	15 3/4"
9'	18"	1"	16"
10'	18"	7/8"	16 1/4"
11' TO 13'	18"	3/4"	16 1/2"
14' TO 15'	18"	5/8"	16 3/4"
16' TO 17'	24"	3/4"	22 1/2"
18' TO 22'	24"	5/8"	22 3/4"
23' TO 29'	24"	1/2"	23"
30' TO 34'	30"	1/2"	29"
35' TO 48'	30"	3/8"	29 1/4"
49' TO 60'	30"	1/4"	29 1/2"
OVER 60'	USE TANGENT BLOCK, SEE SHEET 1		

THIS TABLE LISTS THE CALCULATED DIMENSIONS FOR CASTING BLOCKS SUITABLE FOR CONSTRUCTING VARIOUS CURB RADI. CURVED BLOCKS, OR BLOCKS WITH DIFFERENT DIMENSIONS MAY BE ACCEPTABLE WITH PRIOR APPROVAL OF THE ENGINEER.



INSIDE RADIUS BLOCK



OUTSIDE RADIUS BLOCK

ISOMETRIC VIEWS

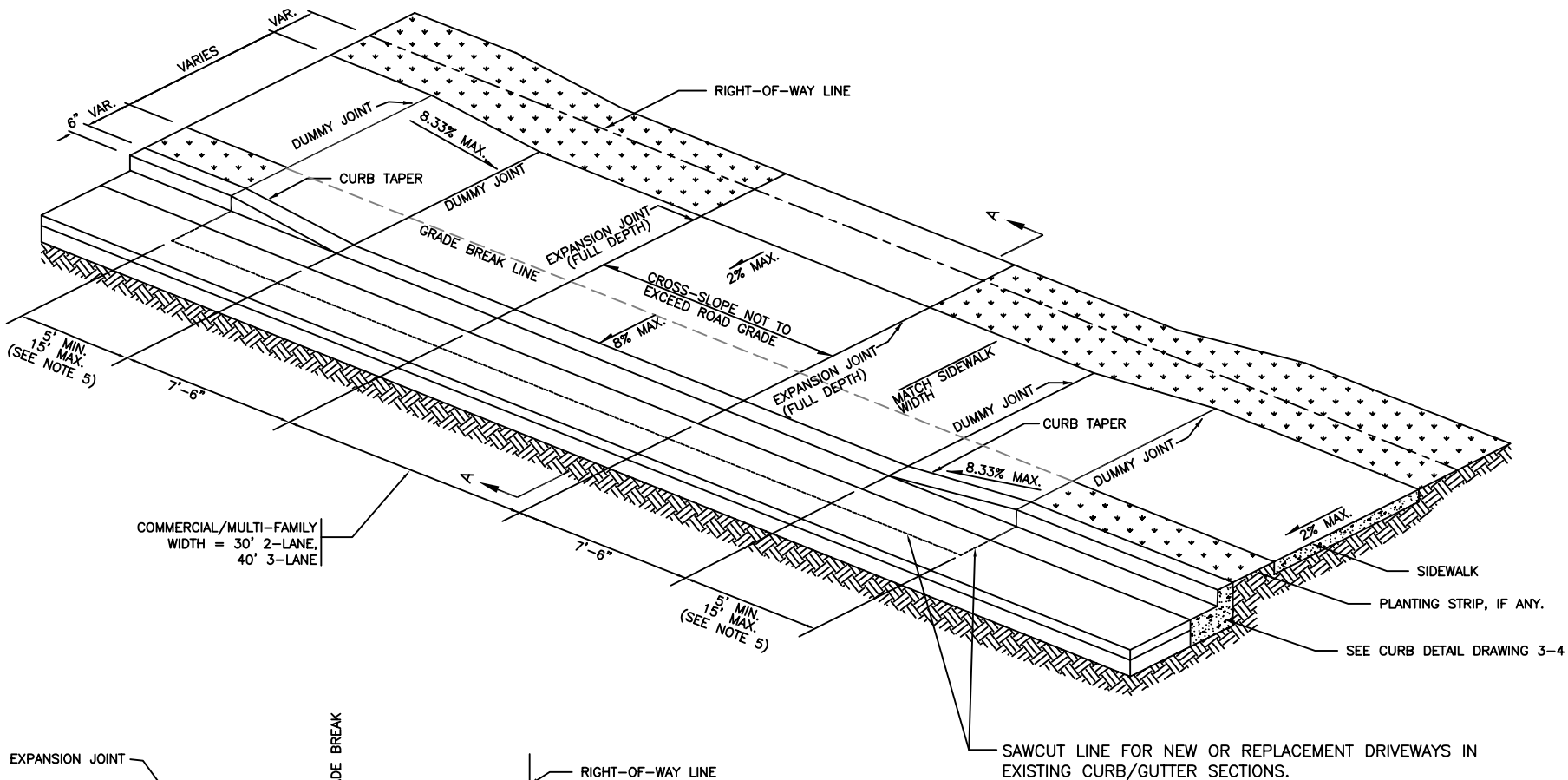


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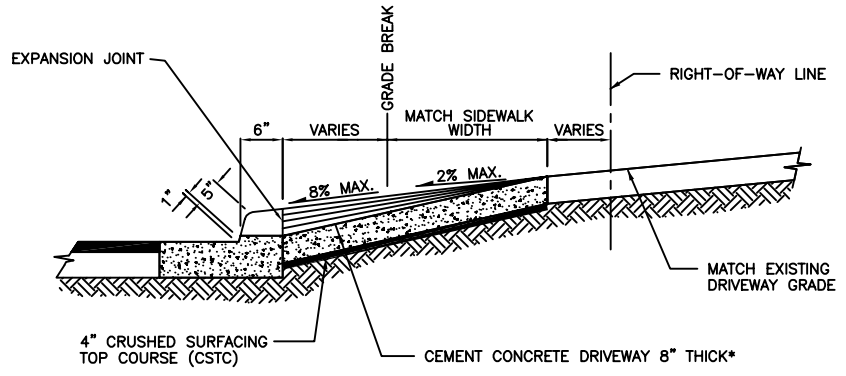
PRECAST SLOPED MOUNTABLE CURB
STANDARD PLAN F-10.62-02

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Bakotich, Pasco
Apr 22 2014 9:20 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation



COMMERCIAL/MULTI-FAMILY
 WIDTH = 30' 2-LANE,
 40' 3-LANE



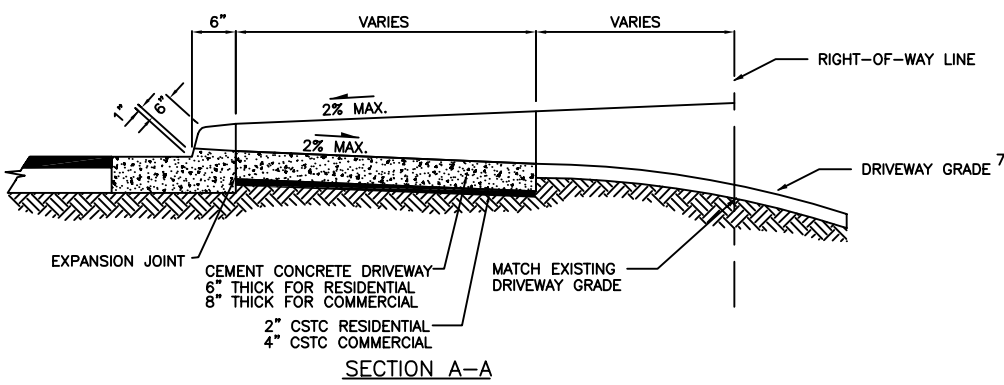
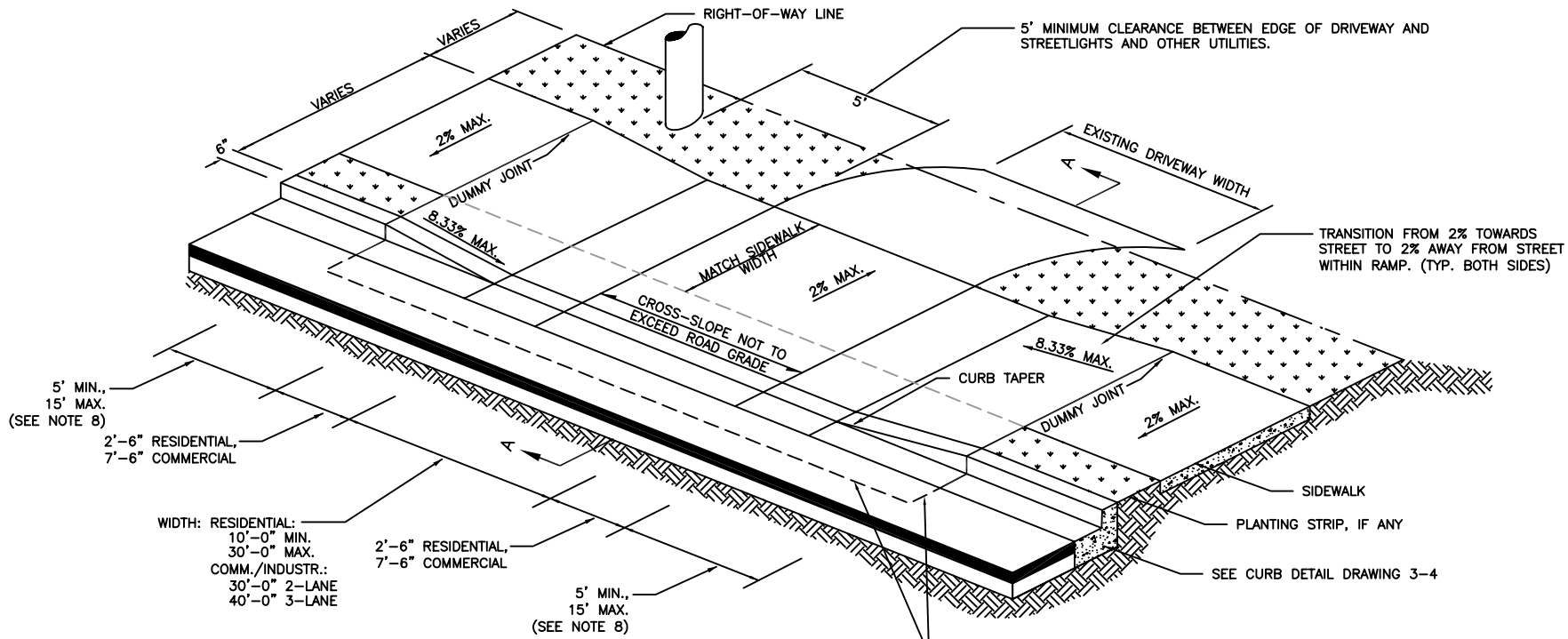
SECTION A-A

* BASED ON TYPE OF EXPECTED VEHICLE USE

NOTES:

1. COMMERCIAL/INDUSTRIAL DRIVEWAYS WIDER THAN 40' MAY BE APPROVED BY THE ENGINEER CONSIDERING TRAFFIC SAFETY AND NEEDS OF THE ACTIVITY SERVED. ALL COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL HAVE AN EXPANSION JOINT LOCATED MID-WIDTH. SEE KCRS SEC. 3.04.
2. SEE SEC. 3.2.13 AND CURB DETAIL DRAWING 3-4.
3. CEMENT CONCRETE DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH CEMENT CONCRETE CLASS 4000 WITH 4% TO 6% AIR ENTRAINMENT.
4. FULL DEPTH EXPANSION JOINT IF DRIVEWAY WIDTH IS 15' OR GREATER.
5. LENGTH OF RAMP SHALL VARY AS NEEDED TO MEET ADA SLOPE REQUIREMENTS.

REV. FEBRUARY 2014

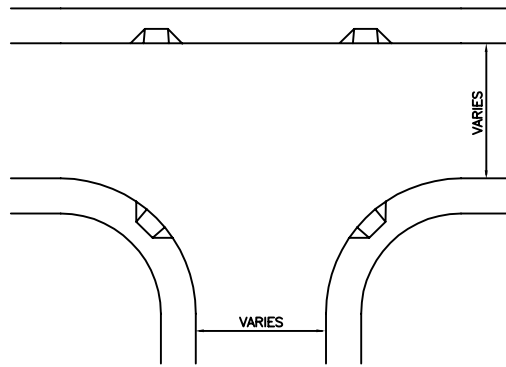


SAWCUT LINE FOR NEW OR REPLACEMENT DRIVEWAYS IN EXISTING CURB/GUTTER SECTIONS.

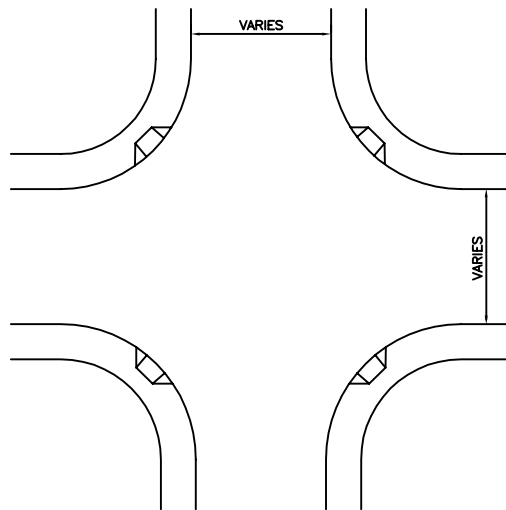
NOTES:

1. A REVERSE SLOPE DRIVEWAY IS SUBJECT TO APPROVAL BY ENGINEER CONSIDERING NEED FOR AND COMPATIBILITY OF THIS FEATURE.
2. COMMERCIAL/INDUSTRIAL DRIVEWAYS WIDER THAN 40' MAY BE APPROVED CONSIDERING TRAFFIC SAFETY AND NEEDS OF THE ACTIVITY SERVED. ALL COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL HAVE AN EXPANSION JOINT LOCATED MID-WIDTH. SEE KCRS SEC. 3.04.
3. A STORM SEWER INLET SHALL BE LOCATED WITHIN 20' BUT NO CLOSER THAN 10' UPGRADE FROM NEAREST EDGE OF CURB TAPER.
4. SEE SEC. 3.2.13 AND CURB DETAIL DRAWING 3-4
5. CEMENT CONCRETE DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH CEMENT CONCRETE CLASS 4000 WITH 4% TO 6% AIR ENTRAINMENT.
6. FULL DEPTH EXPANSION JOINT IF DRIVEWAY WIDTH IS 15' OR GREATER.
7. SEE SECTION 3.2.13 FOR MAX CHANGE IN DRIVEWAY GRADE
8. LENGTH OF RAMP SHALL VARY AS NEEDED TO MEET ADA SLOPE REQUIREMENTS.

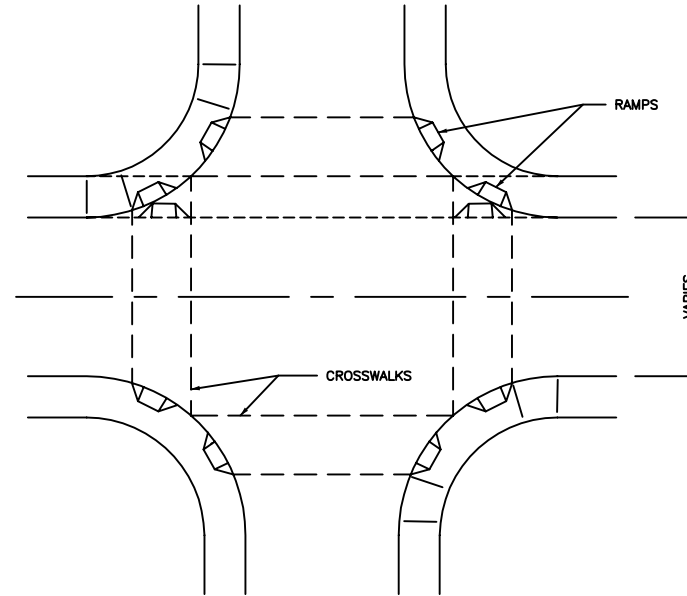
REV. FEBRUARY 2014



ACCEPTABLE
RAMP LOCATIONS
FOR RETROFIT OR ALTERATION



FOR NEW CONSTRUCTION
OR STANDARD RECONSTRUCTION

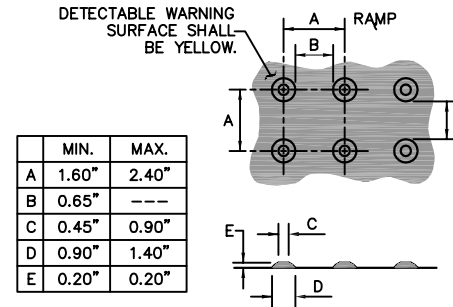
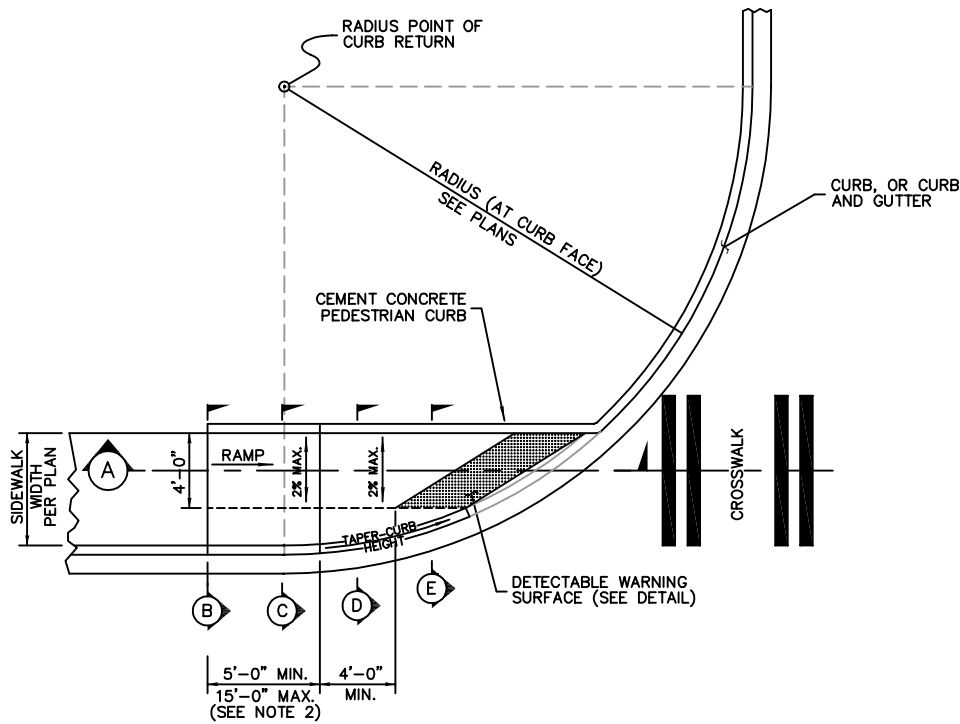


RAMP LOCATIONS
FOR NEW CONSTRUCTION
OR STANDARD RECONSTRUCTION

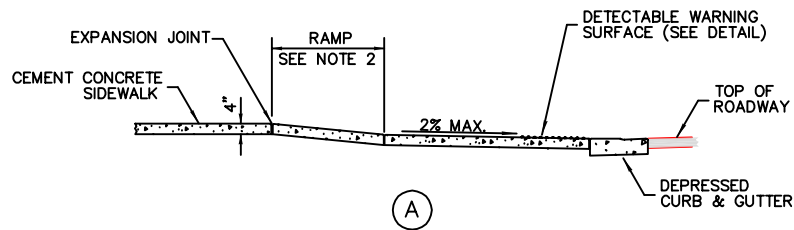
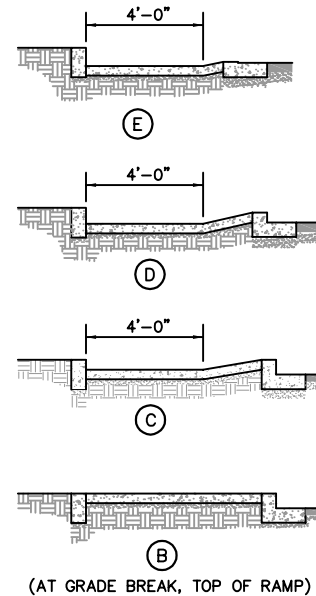
NOTES:

1. CATCH BASIN AND INLETS SHALL BE OUTSIDE THE CURB RAMP (24" MIN. CLEARANCE FROM RAMP).
2. CARE SHALL BE TAKEN TO KEEP THE RAMP FROM CONFLICTING WITH HYDRANTS, POLES, INLETS, AND OTHER UTILITIES.
3. CONSTRUCT RAMP IN ACCORDANCE WITH STANDARD DRAWING 3-10 OR 3-11.
4. CROSSWALKS ARE NOT ALWAYS MARKED.
5. WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING LOCATIONS ON OPPOSITE SIDE OF STREET.

REV. 4/11/08



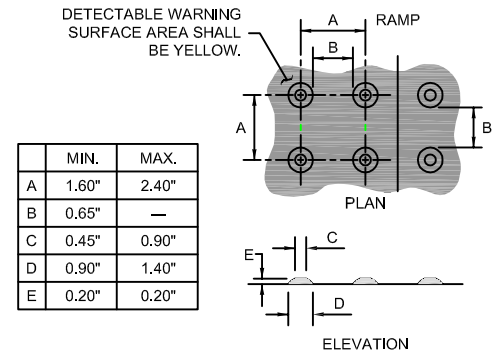
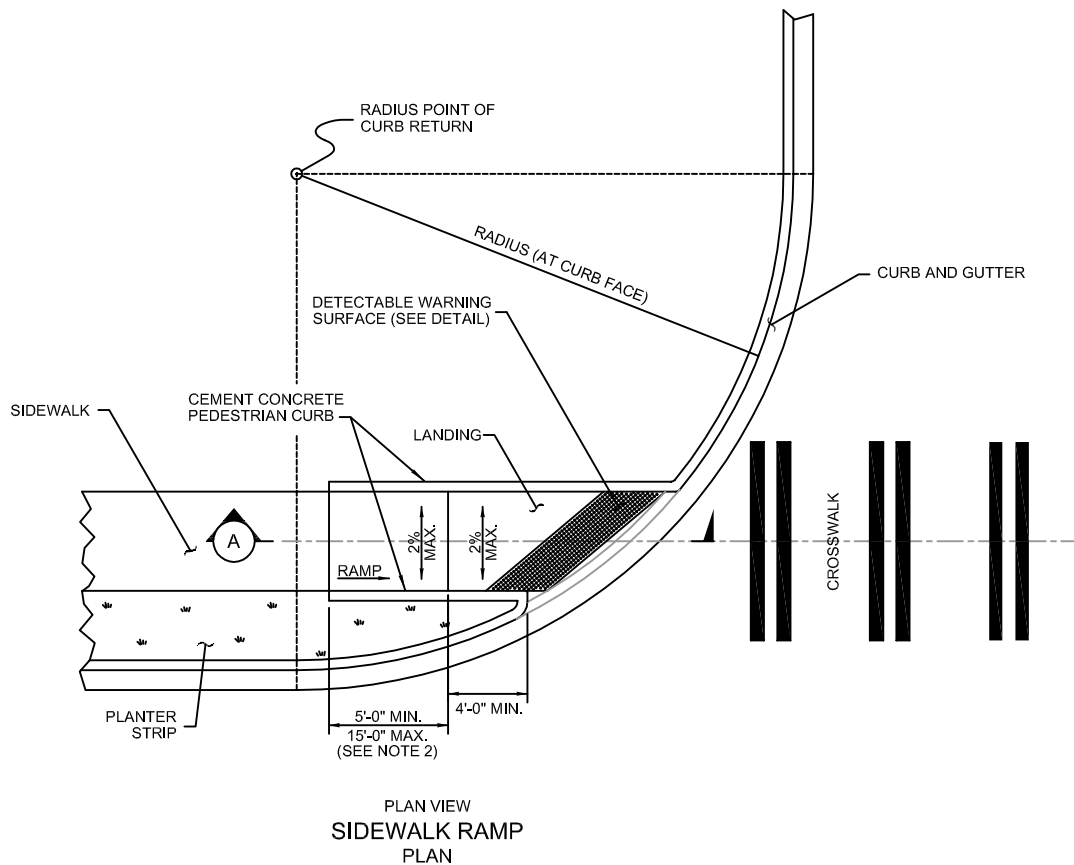
TRUNCATED DOMES



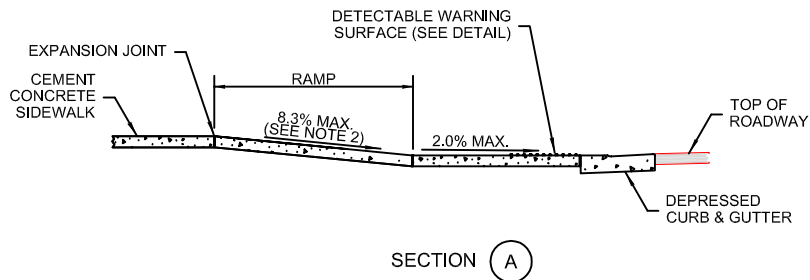
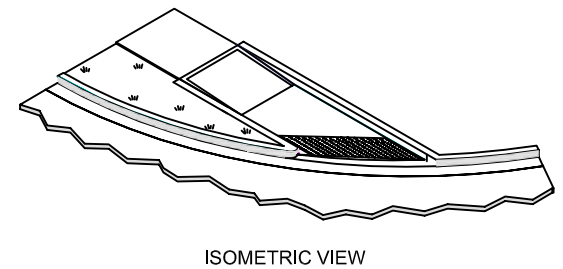
NOTES:

- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS OR OTHER APPURTANENCES IN FRONT OF THE RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP SLOPES. WHEN APPLYING THE 15 FOOT MAX. LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.

FEB. 2013



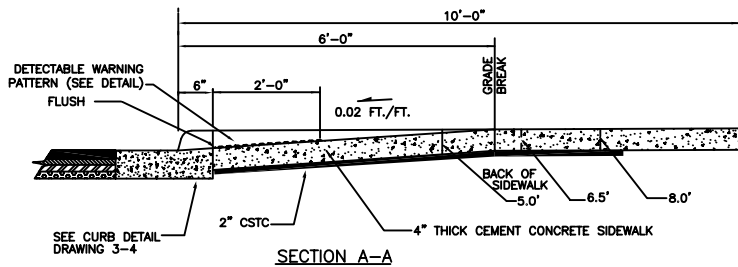
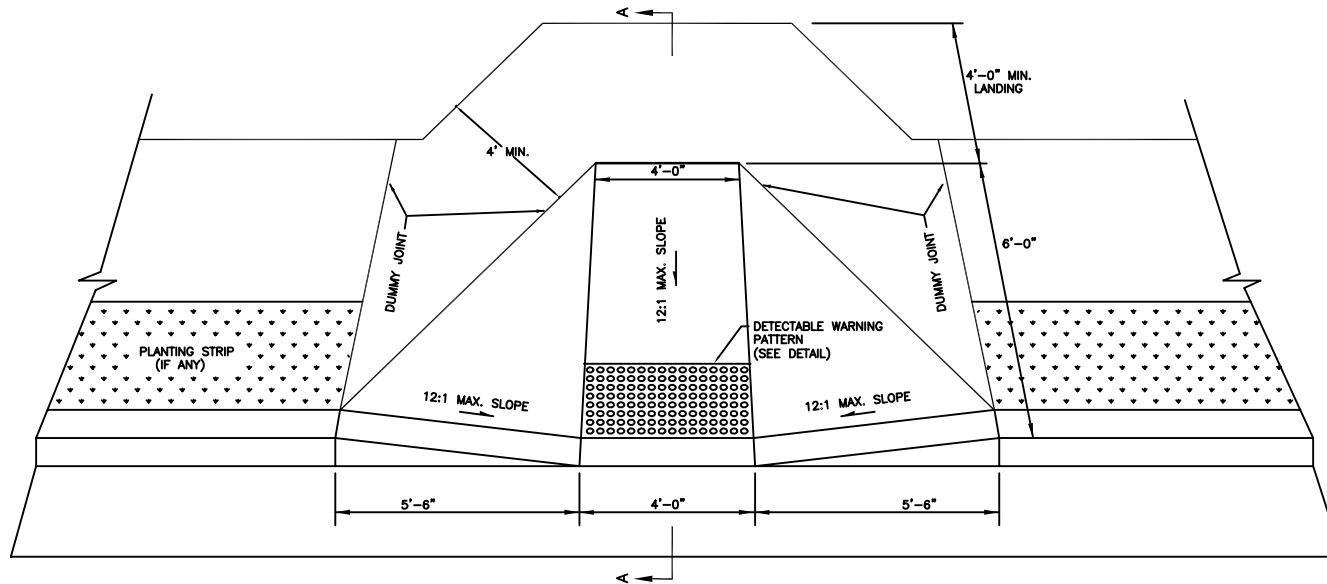
TRUNCATED DOMES
DETECTABLE WARNING
SURFACE DETAIL



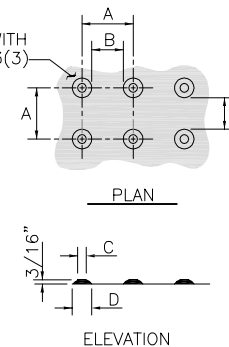
NOTES:

- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS OR OTHER APPURTANENCES IN FRONT OF THE RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP SLOPES. WHEN APPLYING THE 15 FOOT MAX. LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.

REV. JAN 2013



DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, IN COMPLIANCE WITH WSDOT STD. SPEC. 8-14.3(3)

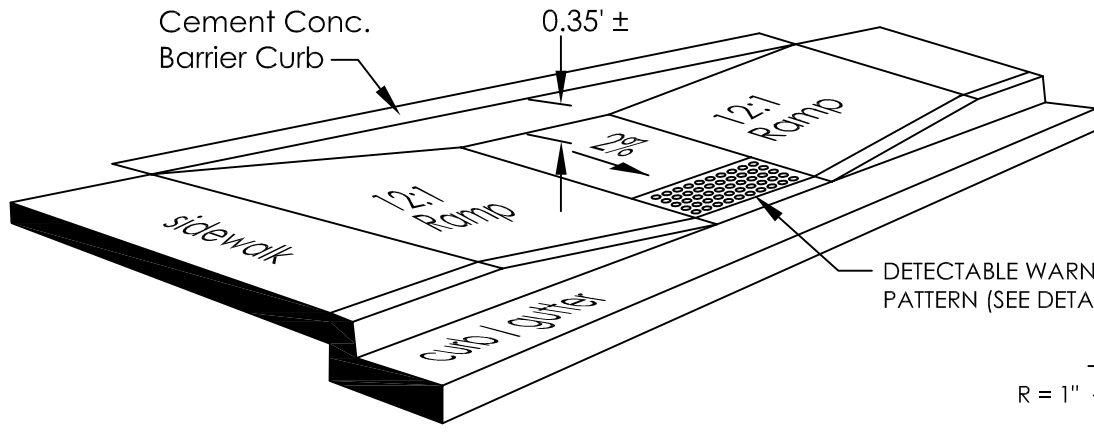
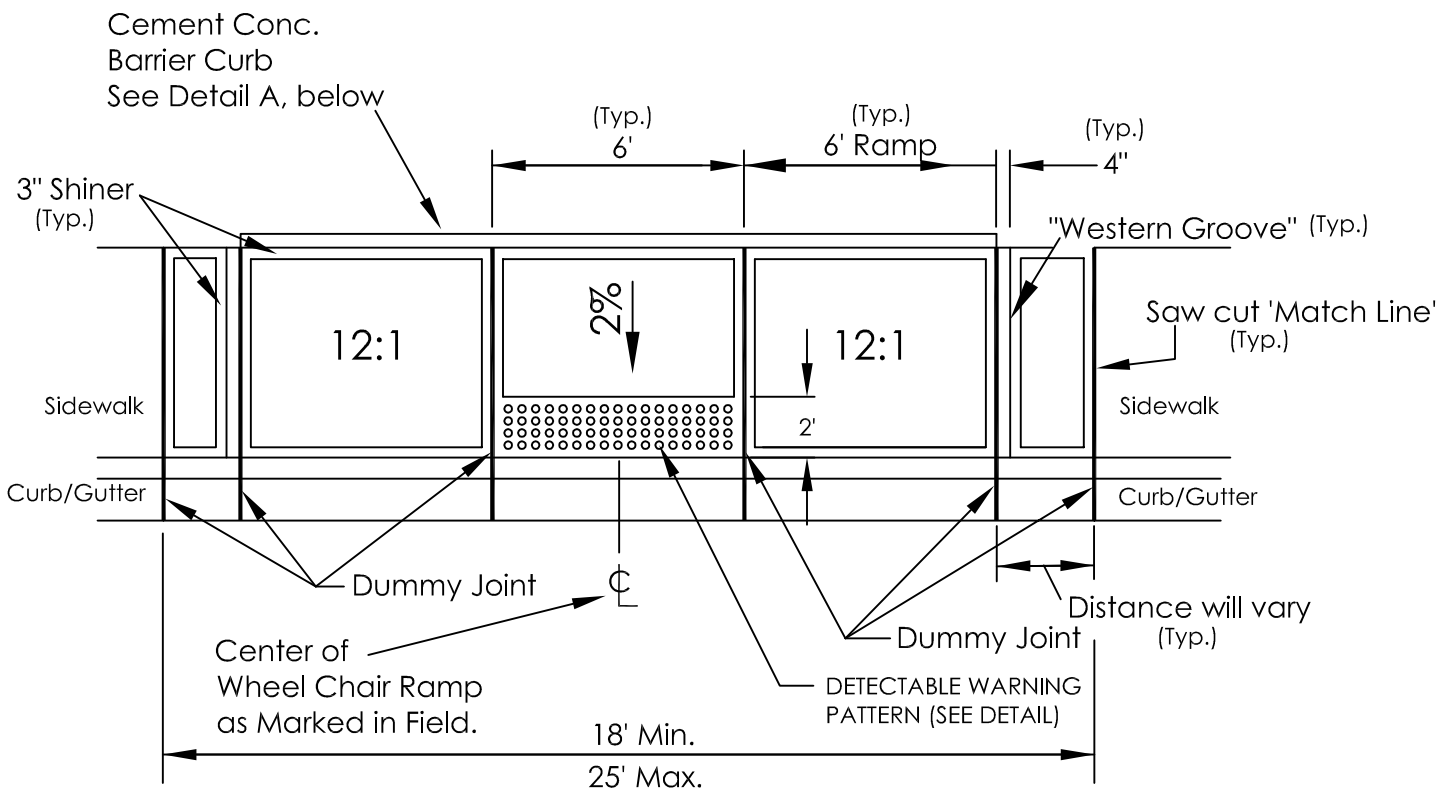


	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"

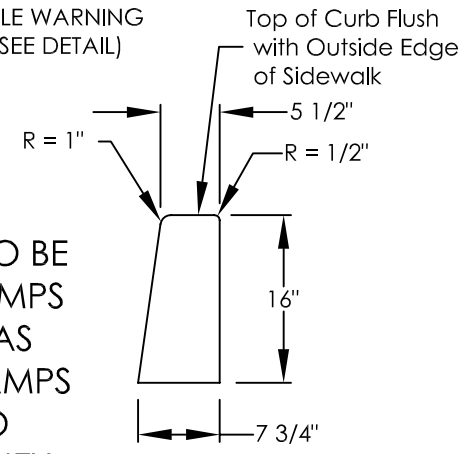
NOTES:

- RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCL. HYDRANTS, POLES, AND INLETS.
- RAMP CENTER LINE SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY ENGINEER.
- WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF THE STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREET. SEE DWG. NO. 3-9.
- ON ARTERIAL STREETS, IN GENERAL CASE, CURB RAMPS SHALL BE CONSTRUCTED TWO PER RADIUS, IN OR PREFERABLY ADJACENT TO THE MAIN PEDESTRIAN PATHS.
- ON RESIDENTIAL STREETS OR WHERE UTILITIES ARE IN CONFLICT OR STREET GRADE EXCEEDS 4.0% CURB RAMPS MAY BE CONSTRUCTED ONE PER RADIUS, AT MIDPOINT OF CURB RETURN OR AT MAIN PEDESTRIAN PATH.

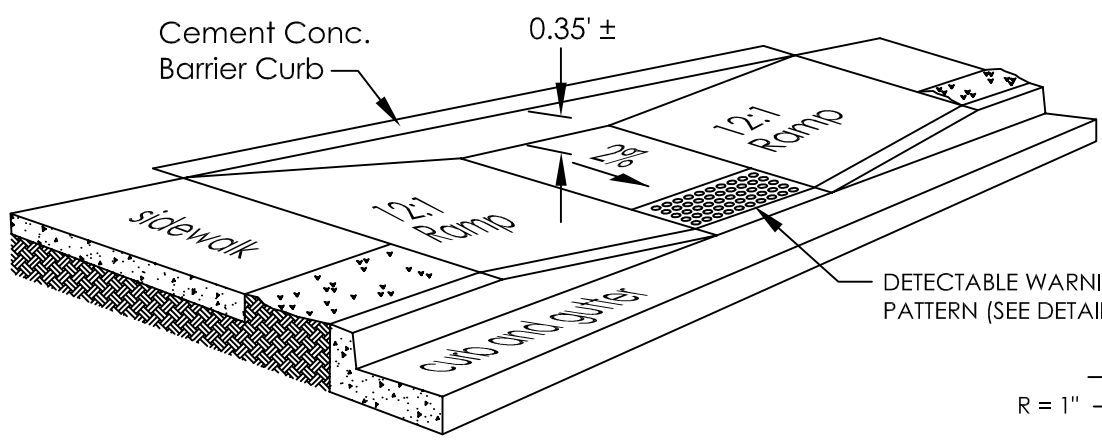
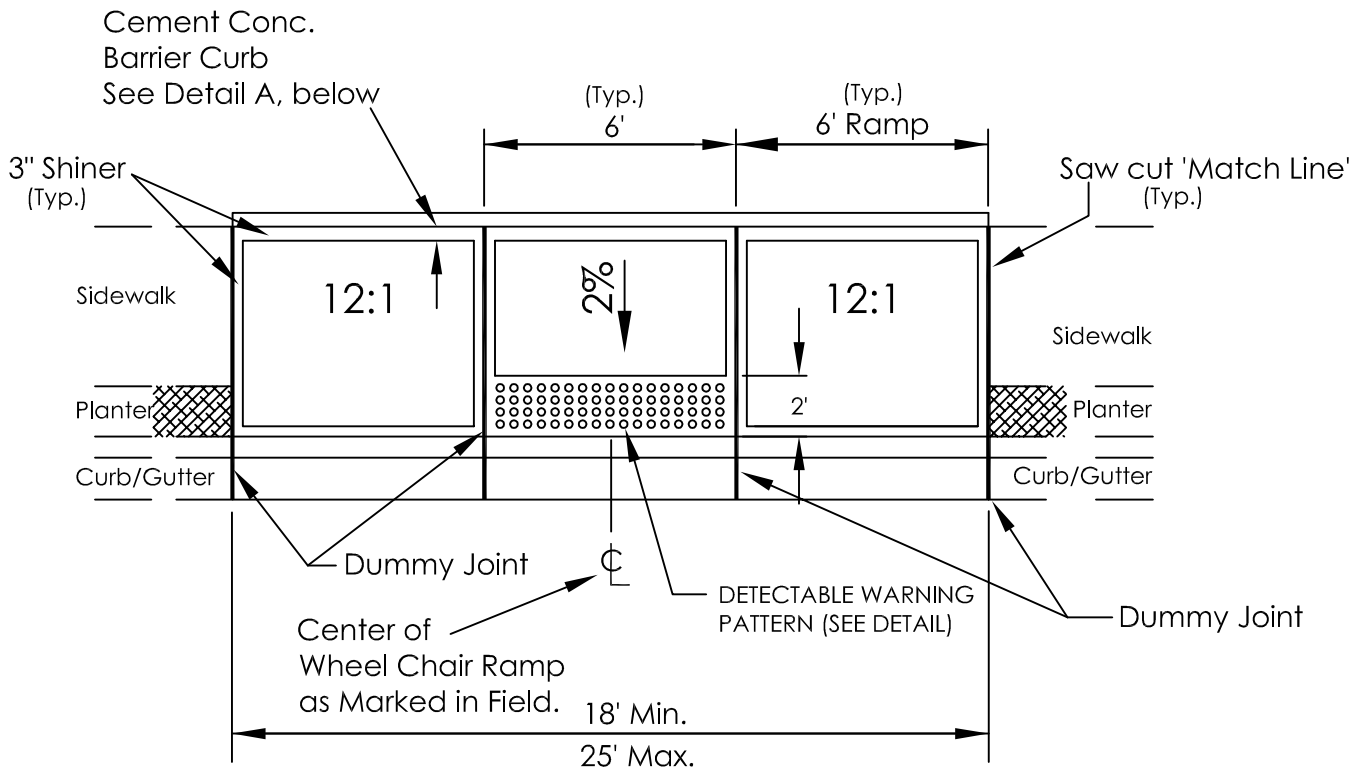
REV. MAR 2011



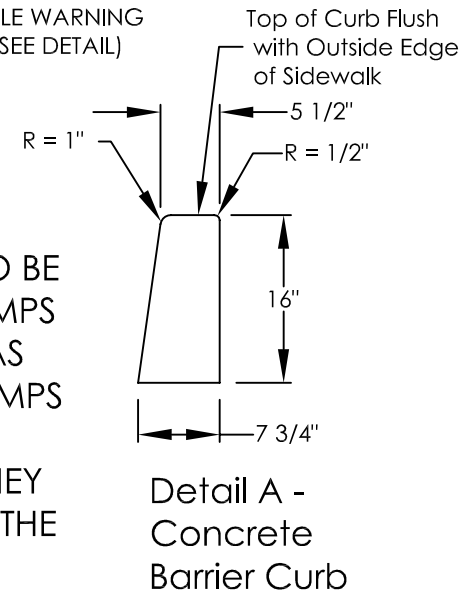
NOTE: CONCRETE BARRIER CURB TO BE ONLY USED IN RAMPS NOTED IN PLANS AS TYPE 2. TYPE 1 RAMPS ARE IDENTICAL TO TYPE 2, EXCEPT THEY DO NOT INCLUDE THE BARRIER CURB.

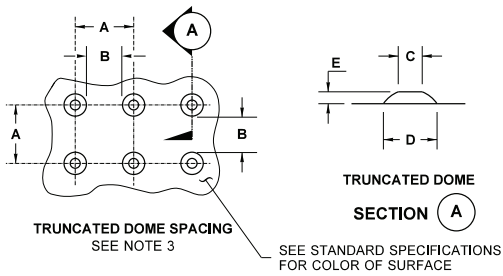


Detail A - Concrete Barrier Curb



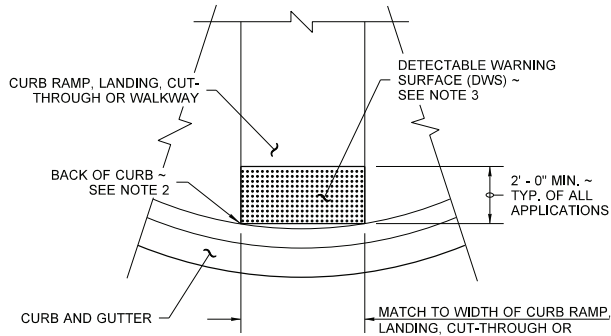
NOTE: CONCRETE BARRIER CURB TO BE ONLY USED IN RAMPS NOTED IN PLANS AS TYPE 2. TYPE 1 RAMPS ARE IDENTICAL TO TYPE 2, EXCEPT THEY DO NOT INCLUDE THE BARRIER CURB.





	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	—
C	0.45"	0.90"
D	0.9"	1.40"
E	0.2"	0.2"

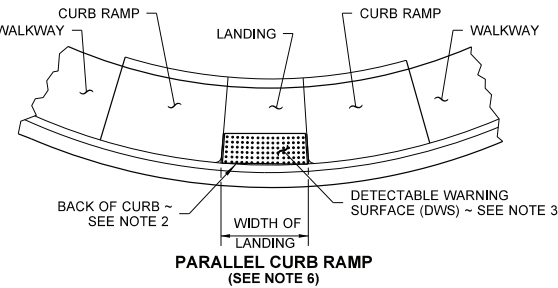
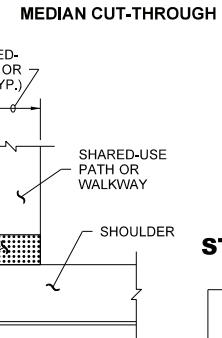
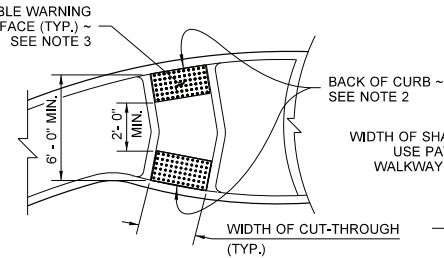
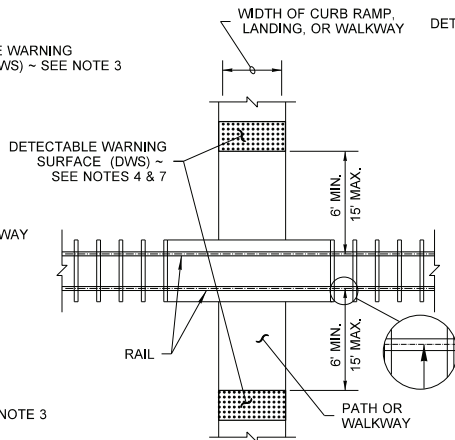
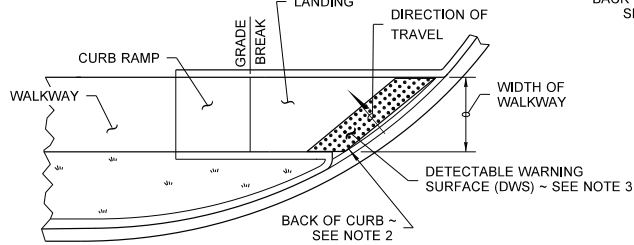
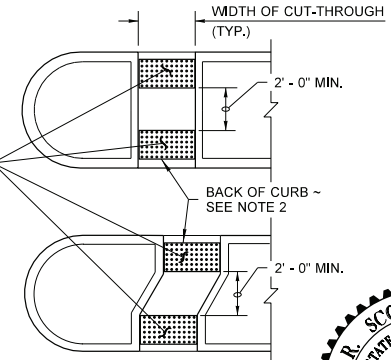
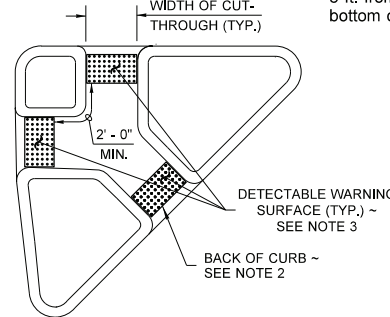
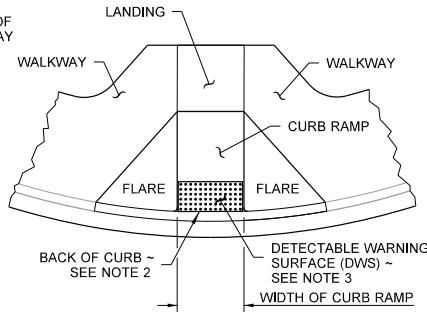
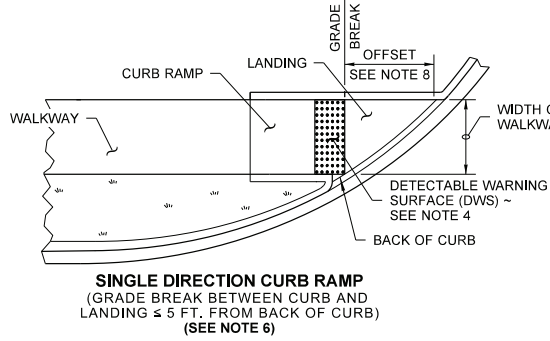
TRUNCATED DOME DETAILS



DETECTABLE WARNING SURFACE DETAIL

NOTES

1. The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp, landing, or other roadway entrance as applicable. Exception: If the Manufacturer of the DWS requires a concrete border around the DWS, a variance of up to 2 inches on each side of the DWS is permitted.
2. The Detectable Warning Surface (DWS) shall be placed at the back of curb, with the two leading corners of the DWS panel placed adjacent to the back of the curb, and with no more than a 2 inch gap between the DWS and the back of the curb measured at the center of the DWS panel. Exception: If the Manufacturer of the selected DWS requires a concrete border around the DWS, a variance of up to 2 inches from the back of the curb is permitted (measured at the leading corners of the DWS panel).
3. The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
4. The rows of truncated domes shall be aligned to be parallel to the direction of travel.
5. If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
6. See **Standard Plans** for sidewalk and curb ramp details.
7. If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
8. When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp directly above the grade break.



PLACEMENT GUIDELINES

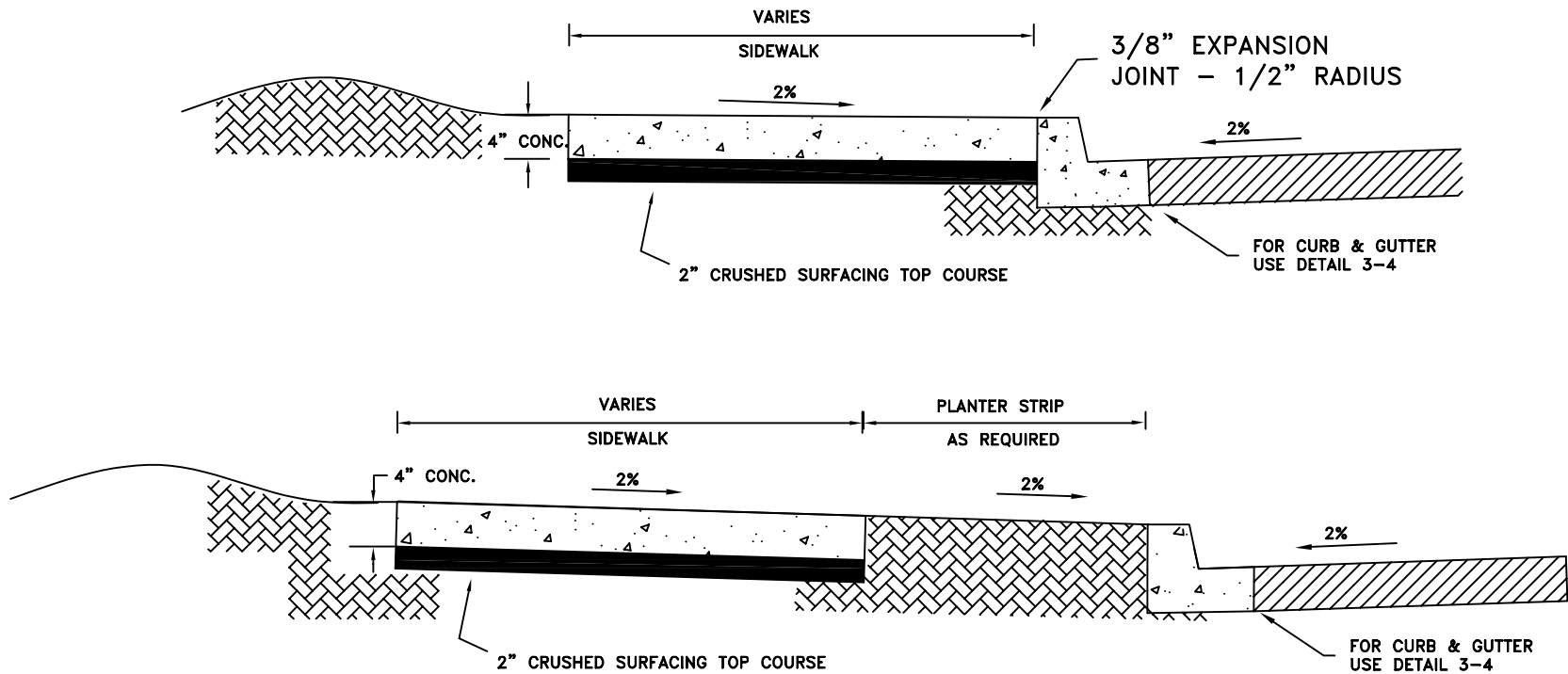


Zeller, Scott
Jul 12 2016 4:25 PM

DETECTABLE WARNING SURFACE
STANDARD PLAN F-45.10-02
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff Carpenter, Jeff
 Jul 15 2016 2:26 PM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

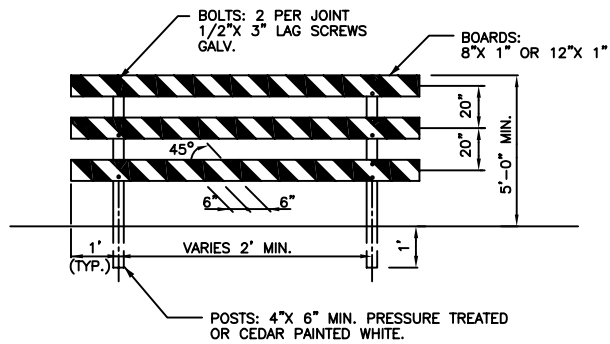
DRAWN BY: FERN LIDDELL



NOTES:

1. FOR JOINTS AND SCORING, SEE FEDERAL WAY STANDARD FOR SIDEWALK SPACING, EXPANSION JOINTS, AND SCORE MARKS.
2. SEE DETAILS 3-6, 3-6A, & 3-7 FOR MINIMUM DEPTH OF CONCRETE THROUGH DRIVEWAY SECTIONS.
3. WHEN CHECKED WITH A 10 FOOT STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH AND ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.
4. CONCRETE SHALL BE CLASS 3000, WSDOT SPEC. 8-14.

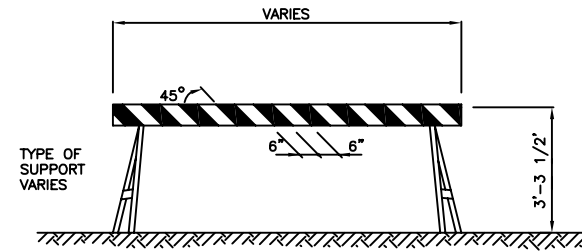
REV. MAR 2011



FIXED (PERMANENT)
TYPE III BARRICADE



MOVABLE (TEMPORARY)
TYPE III BARRICADE

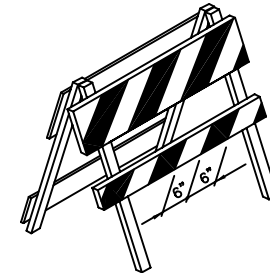


TYPE I BARRICADE

STRIPE NOTES:

ORANGE & WHITE IF TEMPORARY.
RED & WHITE IF PERMANENT.
REFLECTORIZED
SLANT DOWNWARD, RIGHT OR LEFT,
IN DIRECTION TRAFFIC WILL PASS.
SLANT BOTH DIRECTIONS FROM MIDDLE
IF TRAFFIC PASSES BOTH ENDS.
WIDTH 6" EXCEPT 4" IF RAILS ARE
LESS THAN 3' LONG.
SLANT DOWNWARD TO MIDDLE AT END
OF CLOSED ROAD.

SEE MUTCD SEC. 6F.60.



TYPE II BARRICADE

NOTE:
FOR DIMENSIONS NOT
SHOWN, SEE TABLE.

BARRICADE NOTES:

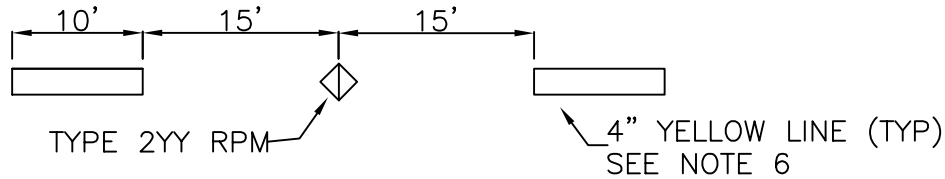
TYPE	I	II	III
WIDTH OF RAIL	8" MIN. 12" MAX.	8" MIN. 12" MAX.	8" MIN. 12" MAX.
LENGTH OF RAIL	2' MIN.	2' MIN.	4' MIN.
HEIGHT	3' MIN.	3' MIN.	5' MIN.
TYPE OF FRAME	DEMOUNTABLE OR HEAVY "A"	LIGHT "A" FRAME	POST OR SKIDS
FLEXIBILITY	ESSENTIALLY MOVABLE	PORTABLE	ESSENTIALLY PERMANENT

INFORMATIONAL SIGN

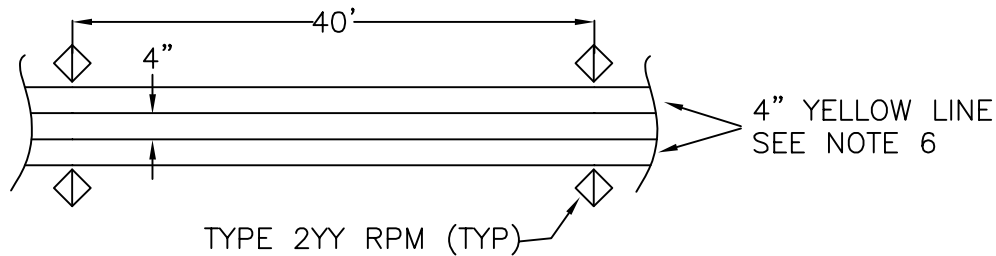
**STREET PLANNED FOR EXTENSION
WITH FUTURE DEVELOPMENT.
FOR MORE INFORMATION CALL
CITY OF FEDERAL WAY
PUBLIC WORKS DEPARTMENT
253-835-2700.**

TO BE INSTALLED ON BARRICADES
WHERE STREET IS PLANNED FOR
FUTURE EXTENSION - AS DIRECTED BY
PUBLIC WORKS DEPARTMENT

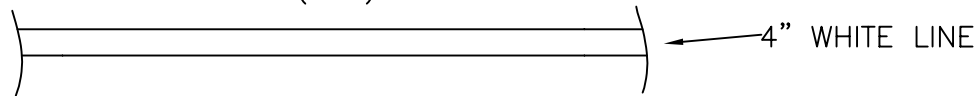
SKIP CENTER LINE (SCL)



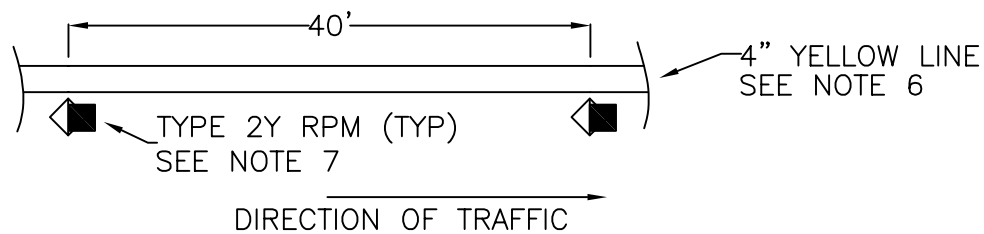
DOUBLE YELLOW CENTER LINE (DYCL)



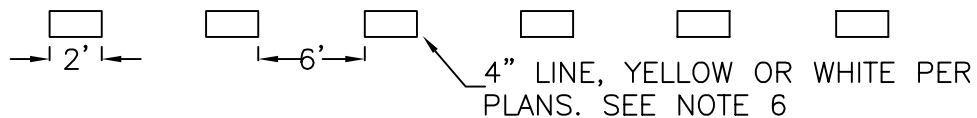
WHITE EDGE LINE (WEL)



YELLOW EDGE LINE (YEL)



DOTTED EXTENSION LINE (WDEL, YDEL)



GENERAL NOTES:

1. LONGITUDINAL STRIPING ON ARTERIALS SHALL BE PLASTIC TYPE D METHYLMETHACRYLATE (MMA). TRANSVERSE MARKINGS SHALL BE PLASTIC TYPE A. ALL OTHER STRIPING SHALL BE PAINT.
2. ALL STRIPING WITHIN INTERSECTIONS SHALL BE PLASTIC TYPE A OR D.
3. ALL RPM'S SHALL BE LOCATED TO PROVIDE 4 INCHES BETWEEN STRIPING AND RPM'S.
4. TYPE 2 RPM'S SHALL BE USED ON ALL ARTERIALS AND COLLECTORS, IF STRIPED
5. WHERE TYPE C CURB IS USED IN PLACE OF STRIPING, USE RPM PATTERN APPLICABLE TO THE STRIPING BEING REPLACED.

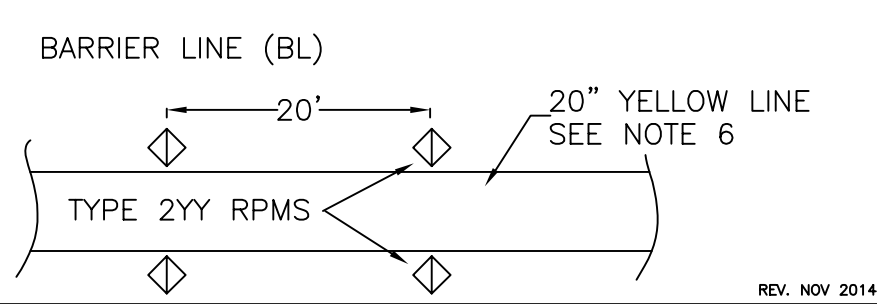
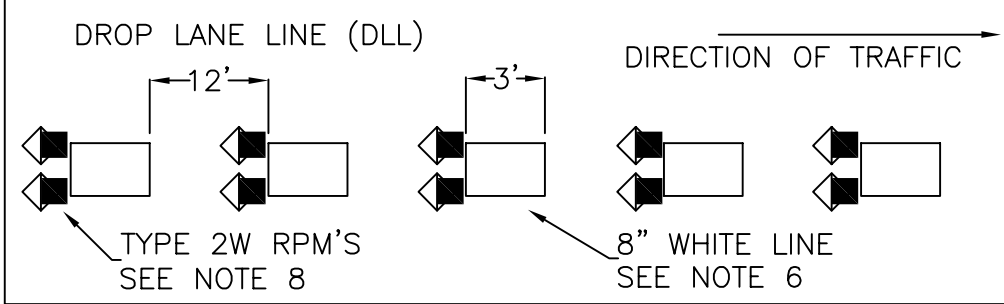
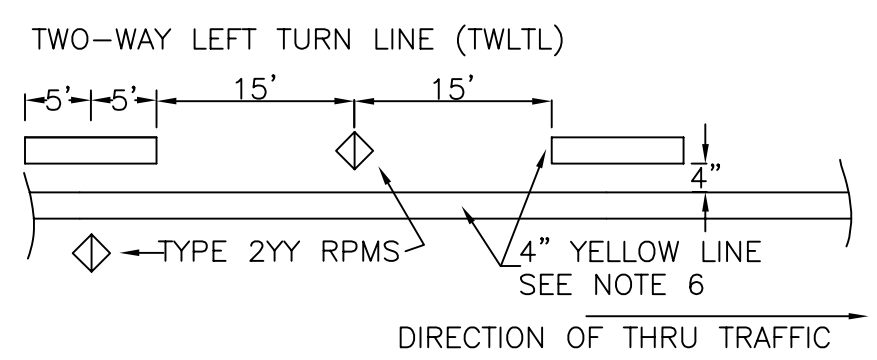
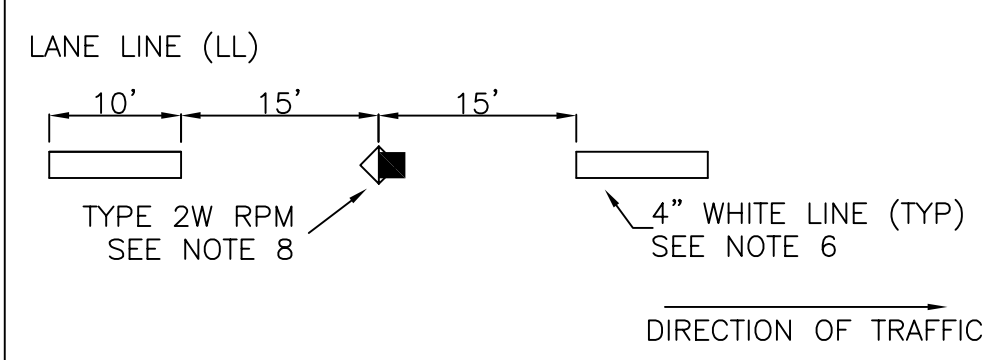
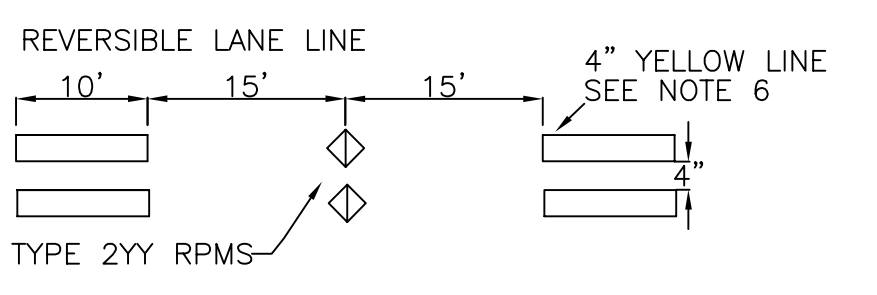
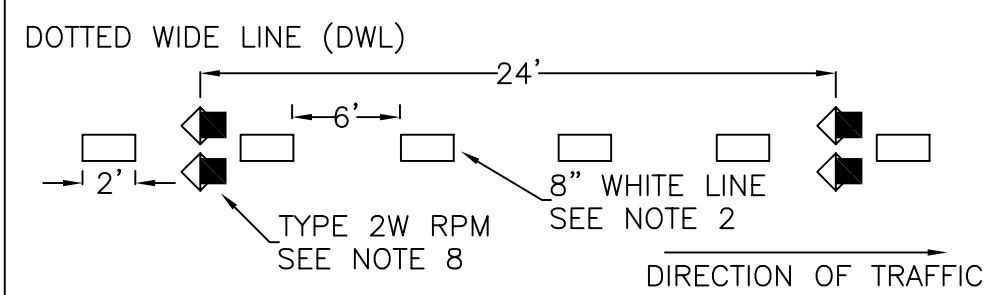
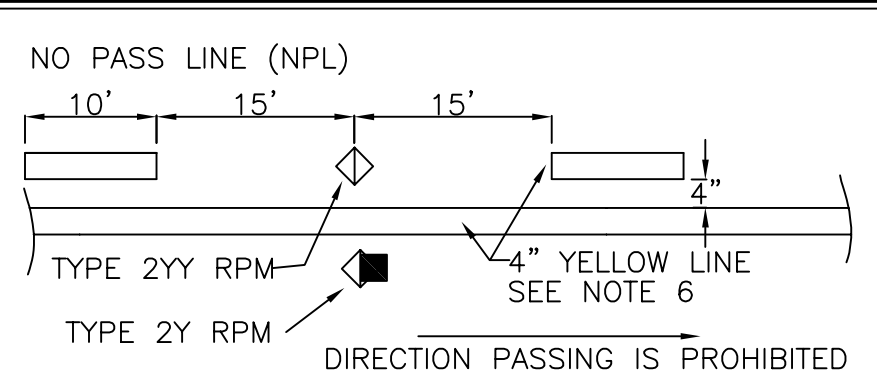
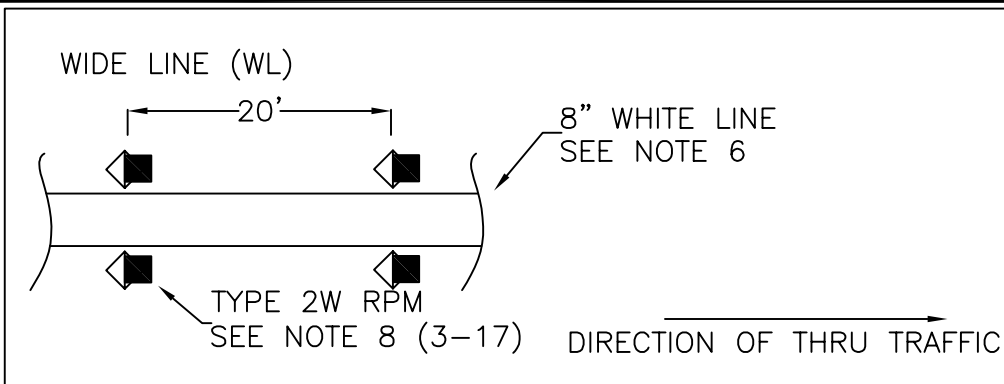
SPECIFIC NOTES:

6. IF MMA IS USED, MMA SHALL BE PROFILED.
7. WHERE RAISED MEDIAN OR TYPE C CURBING IS USED, USE TYPE 2YR RPM'S, WITH RED FACING OPPOSITE THE DIRECTION OF TRAFFIC.
8. WHERE RAISED MEDIAN OR TYPE C CURBING IS USED, USE TYPE 2WR RPM'S, WITH RED FACING OPPOSITE THE DIRECTION OF TRAFFIC.

LEGEND:

- ◀■ MONO-DIRECTIONAL RPM TYPE 2
- ◊ BI-DIRECTIONAL RPM TYPE 2

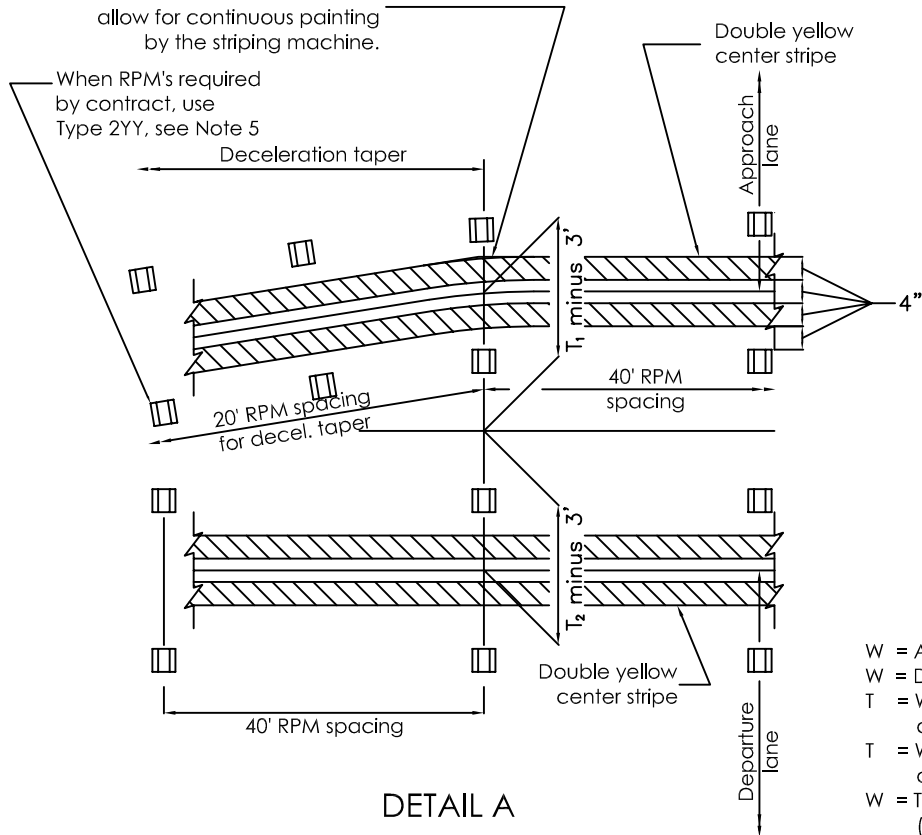
Rev. NOV 2014



REV. NOV 2014

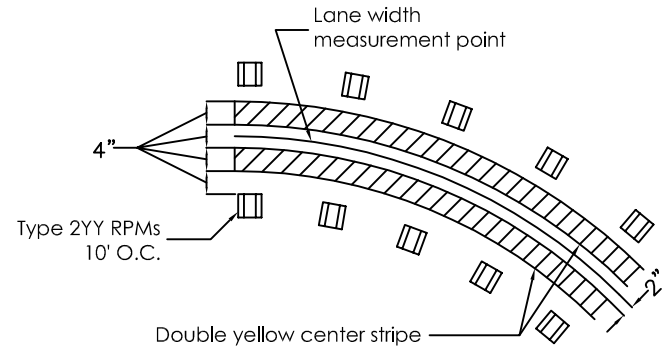
Pavement markings may be curved here as shown to allow for continuous painting by the striping machine.

When RPM's required by contract, use Type 2YY, see Note 5

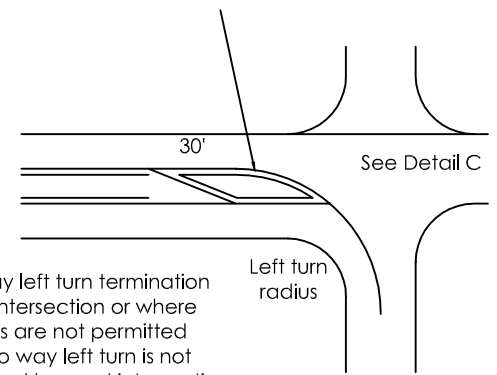


DETAIL A

- W = Approaching through lane
- W = Departing Lane
- T = Width of left turn lane on approach side of
- T = Width of left turn lane on departure side of
- W = Total width of channelization (W + W + T + T)



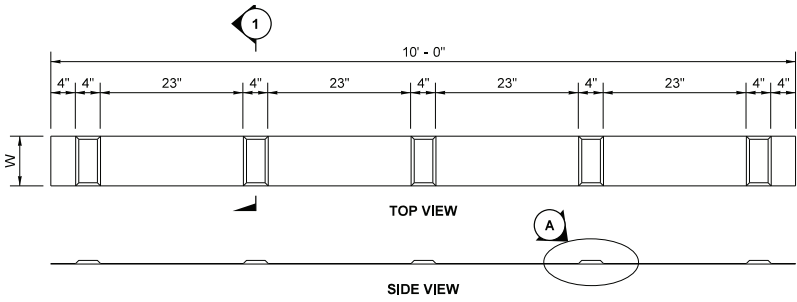
DETAIL B



Two way left turn termination at tee intersection or where left turns are not permitted and two way left turn is not continued beyond intersection.

END TWO-WAY LEFT TURN LANE

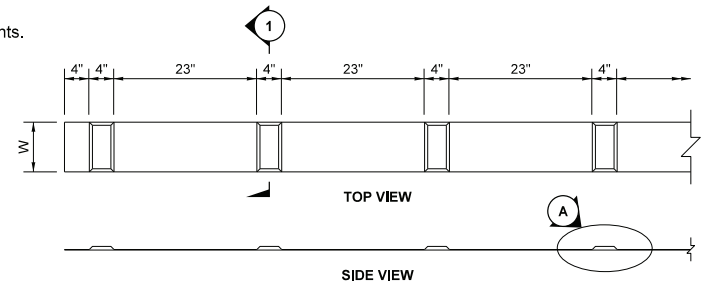
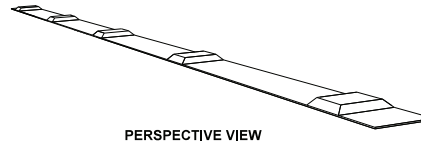
Rev. NOV 2014



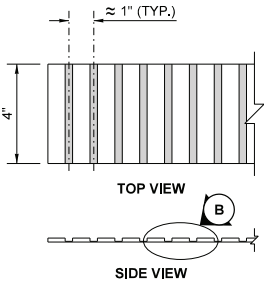
PROFILED PLASTIC (BROKEN LINE)
 FOR: CENTERLINE & LANE LINE ~ W = 4"
 NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE ~ W = 4"
 REVERSIBLE LANE LINE ~ W = 4"
 WIDE BROKEN LANE LINE ~ W = 8"

GENERAL NOTE

See **Standard Plan M-20.10** for pattern and color requirements.

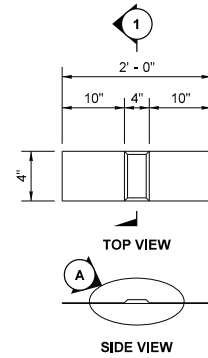
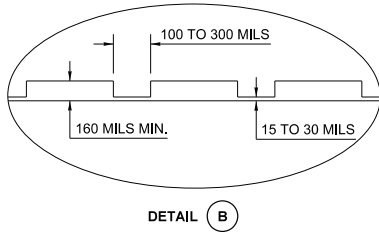


PROFILED PLASTIC (SOLID LINE)
 FOR: NO-PASS LINE ~ W = 4"
 TWO-WAY LEFT-TURN CENTERLINE ~ W = 4"
 DOUBLE CENTERLINE & DOUBLE LANE LINE ~ W = 4"
 EDGE LINE & SOLID LANE LINE ~ W = 4"
 WIDE LANE LINE & WIDE LINE ~ W = 8"
 DOUBLE WIDE LANE LINE ~ W = 8"
 BARRIER CENTERLINE ~ W = 20"

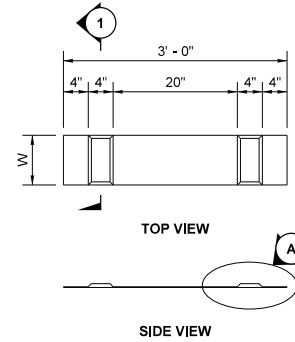


EMBOSSED PLASTIC (SOLID OR BROKEN LINE)
 FOR:

CENTERLINE & LANE LINE
 NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE
 REVERSIBLE LANE LINE
 DOUBLE CENTERLINE & DOUBLE LANE LINE
 EDGE LINE & SOLID LANE LINE

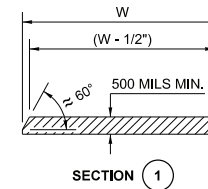
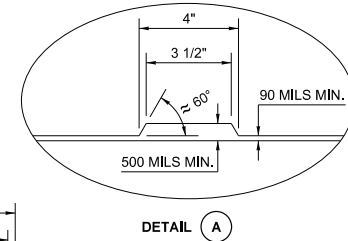


DOTTED EXTENSION LINE

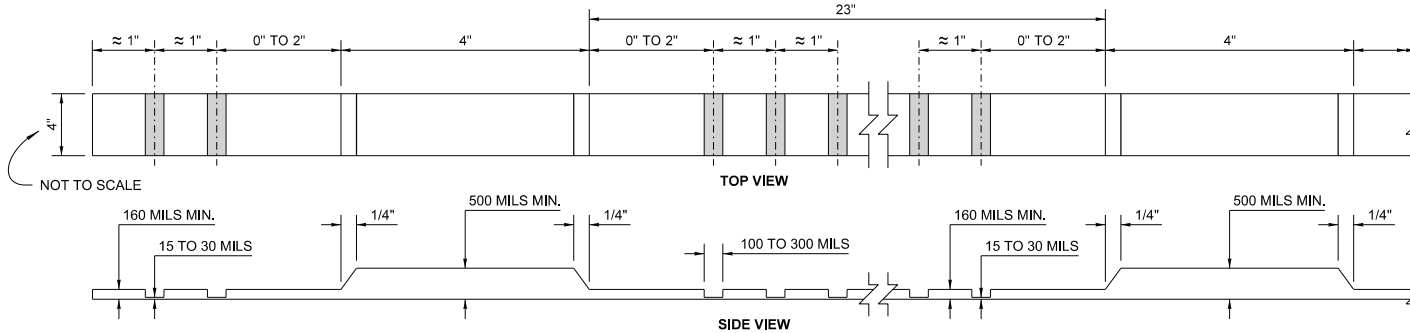


DOTTED LANE LINE ~ W = 4"
WIDE DOTTED LANE LINE ~ W = 8"

PROFILED PLASTIC (BROKEN LINE)



SECTION 1



PROFILED EMBOSSED PLASTIC (SOLID OR BROKEN LINE)

FOR: CENTERLINE & LANE LINE
 NO-PASS LINE
 TWO-WAY LEFT-TURN CENTERLINE

REVERSIBLE LANE LINE
 DOUBLE CENTERLINE & DOUBLE LANE LINE
 EDGE LINE & SOLID LANE LINE



Walsh, Brian
 Apr 16 2015 2:27 PM

PROFILED AND EMBOSSED PLASTIC LINES

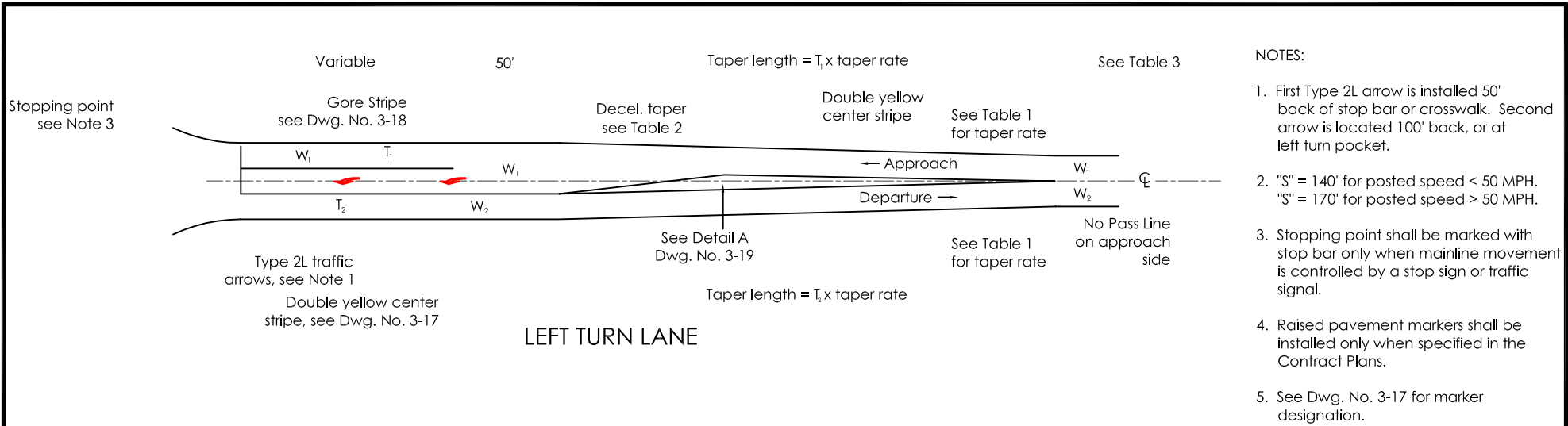
STANDARD PLAN M-20.20-02

SHEET 1 OF 1 SHEET

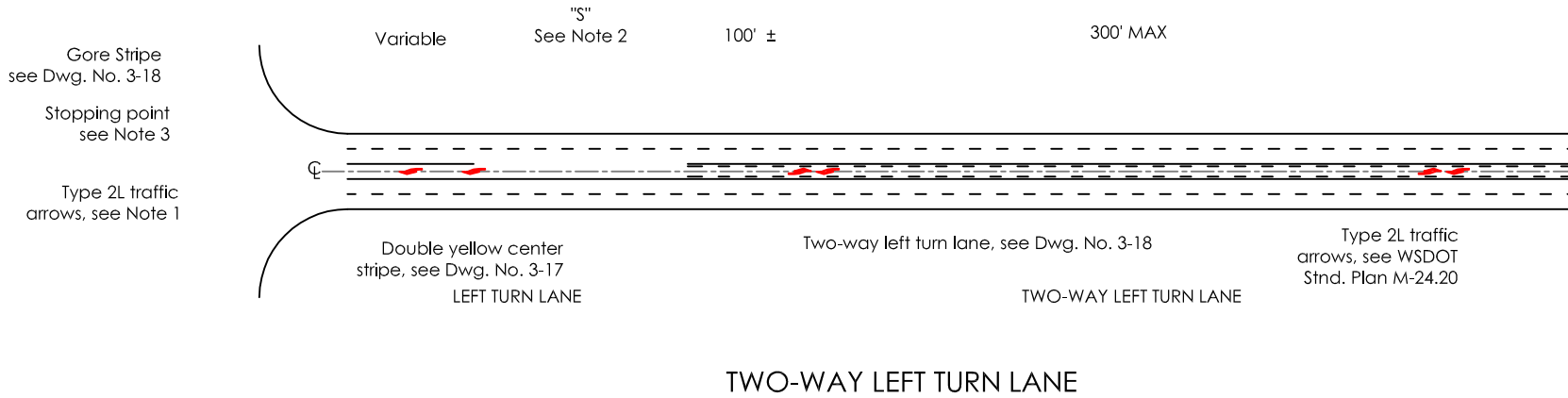
APPROVED FOR PUBLICATION

Russ B. B. B. Apr 20 2015 10:07 AM
 STATE DESIGN ENGINEER





- NOTES:**
1. First Type 2L arrow is installed 50' back of stop bar or crosswalk. Second arrow is located 100' back, or at left turn pocket.
 2. "S" = 140' for posted speed < 50 MPH.
"S" = 170' for posted speed > 50 MPH.
 3. Stopping point shall be marked with stop bar only when mainline movement is controlled by a stop sign or traffic signal.
 4. Raised pavement markers shall be installed only when specified in the Contract Plans.
 5. See Dwg. No. 3-17 for marker designation.

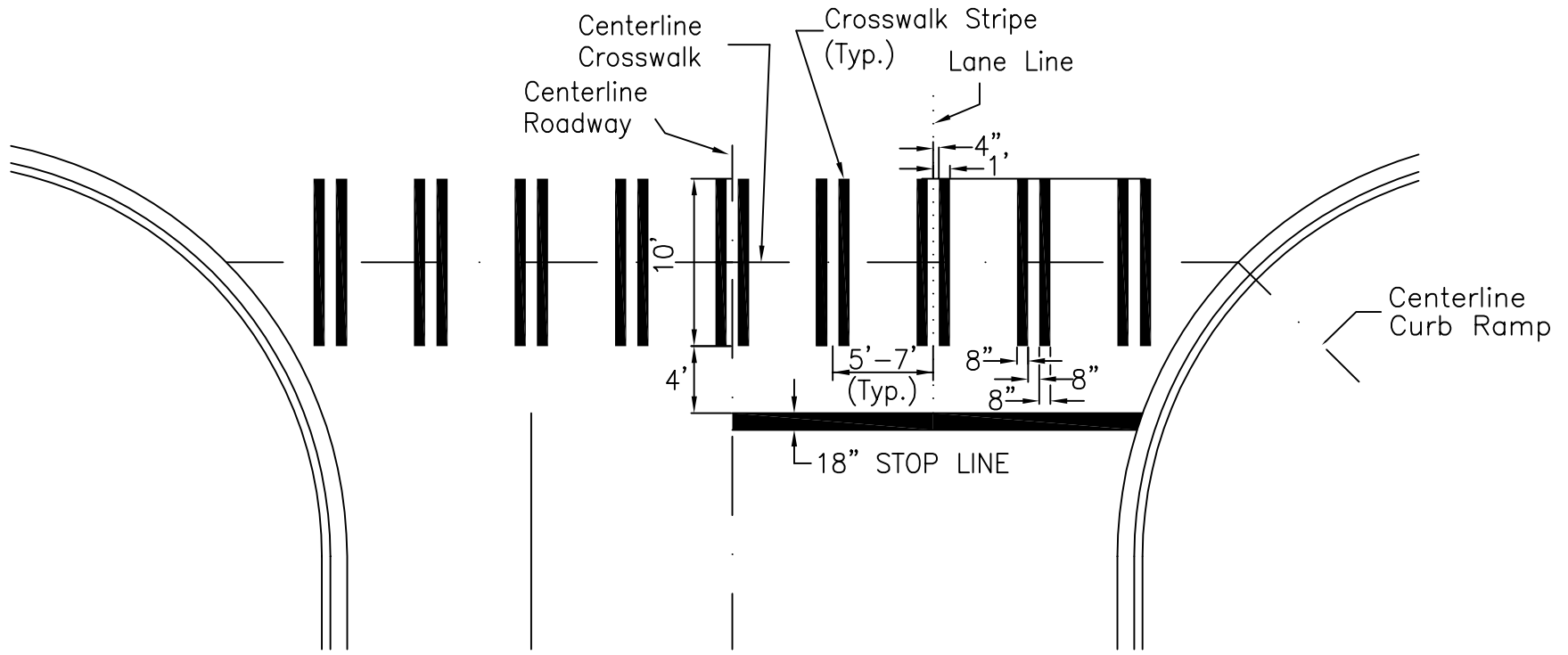


Posted Speed	Taper Rate
55 mph	55 : 1
50 mph	50 : 1
45 mph	45 : 1
40 mph	40 : 1
35 mph	35 : 1
30 mph	30 : 1
25 mph	25 : 1

Posted Speed	Decel. Taper Length
55 mph	165'
50 mph	150'
45 mph	135'
40 mph	120'
35 mph	105'
30 mph	90'
25 mph	75'

Posted Speed	No pass length (Minimum)
55 mph	725'
50 mph	660'
45 mph	590'
40 mph	360'
35 mph	260'
30 mph	200'
25 mph	150'

W_1 = Approaching through lane
 W_2 = Departing Lane
 T_1 = Width of left turn lane on approach side of
 T_2 = Width of left turn lane on departure side of
 W_T = Total width of channelization ($W_1 + W_2 + T_1 + T_2$)



CROSSWALK STRIPE DETAIL

TRAFFIC ARROWS TYPE 1S, 2SL, 2SR, 3SL, 3SR, 4S, AND 5S – SEE WSDOT STANDARD PLAN M-24.40

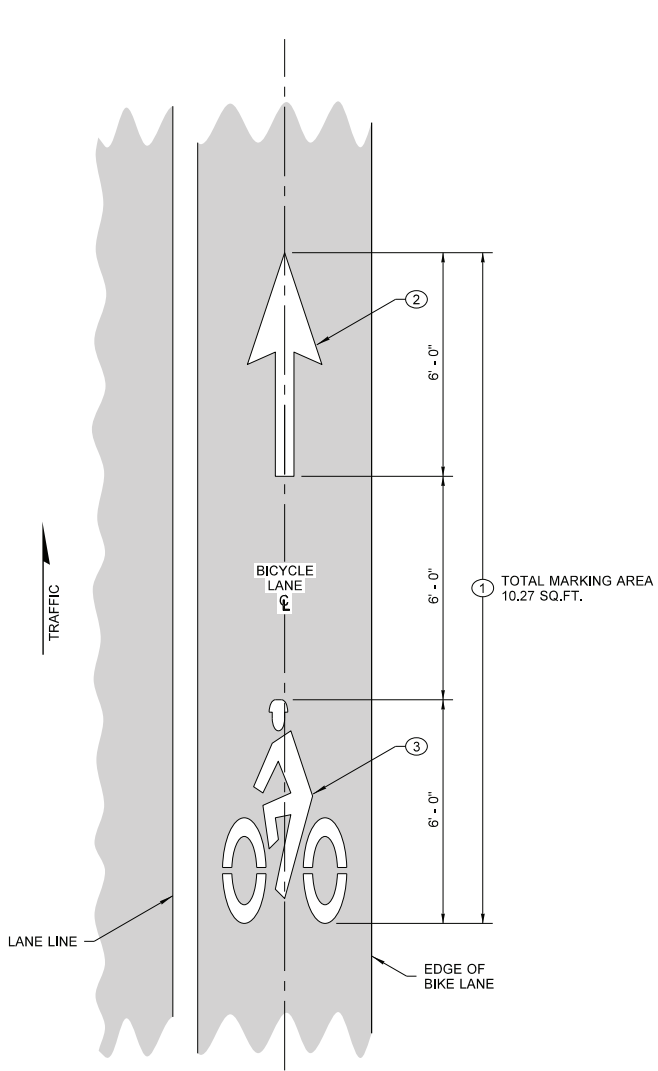
"SHARKS TOOTH" YIELD LINE SYMBOL – SEE WSDOT STANDARD PLAN M-24.60

HANDICAPPED PARKING STALL SYMBOL – SEE WSDOT STANDARD PLAN M-24.60

BIKE LANE SYMBOL – SEE WSDOT STANDARD PLAN M-9.50

PREFERENTIAL LANE SYMBOL – SEE WSDOT STANDARD PLAN M-7.50

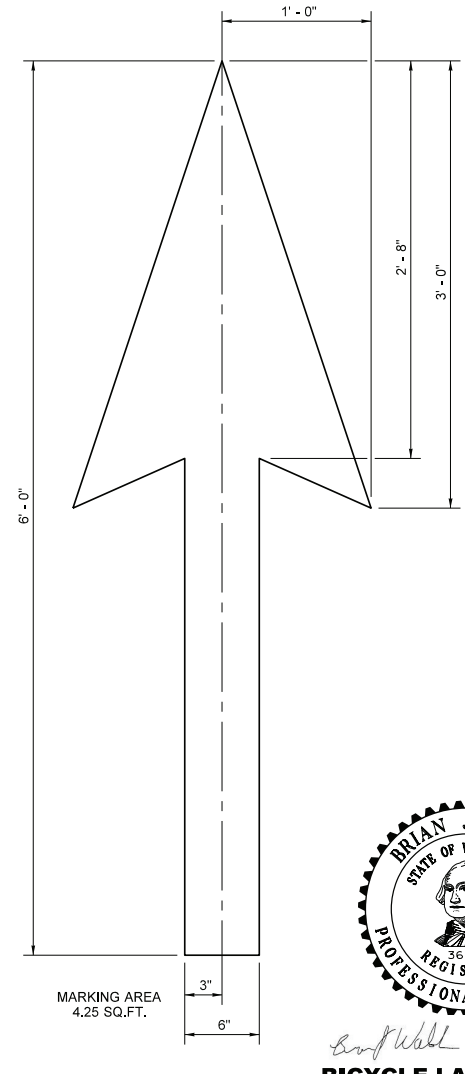
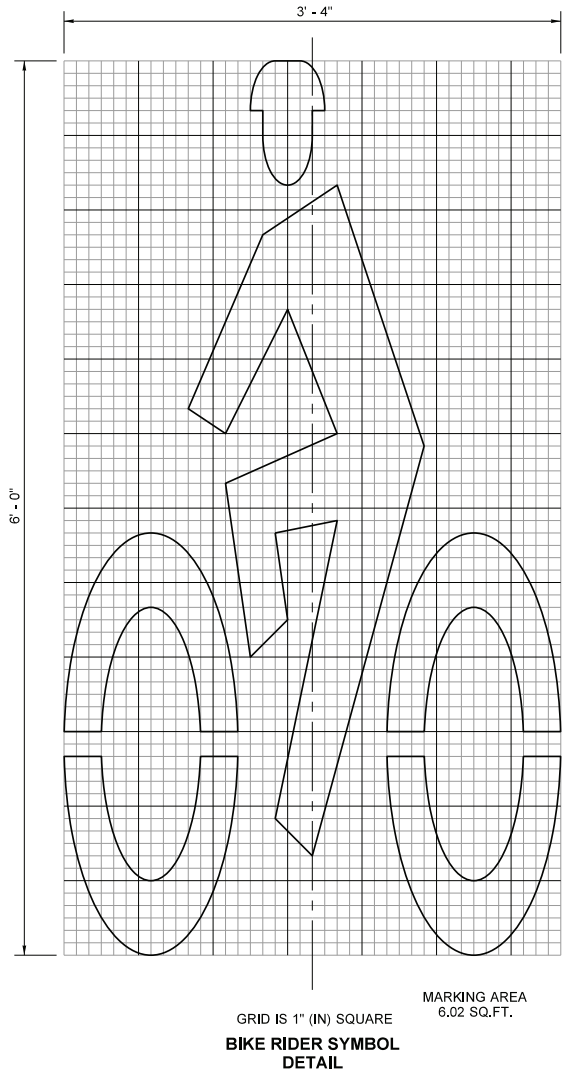
Rev. NOV 2014



BICYCLE LANE SYMBOL LAYOUT

KEY NOTES

- ① Bid Item "Bicycle Lane Symbol" includes Bike Lane Arrow and Bike Rider Symbol.
- ② 2' (ft) x 6' (ft) White Bike Lane Arrow.
- ③ Bike Rider Symbol.



**BIKE LANE ARROW
DETAIL**



Walsh, Brian
Jun 24 2014 1:53 PM

BICYCLE LANE SYMBOL LAYOUT

STANDARD PLAN M-9.50-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

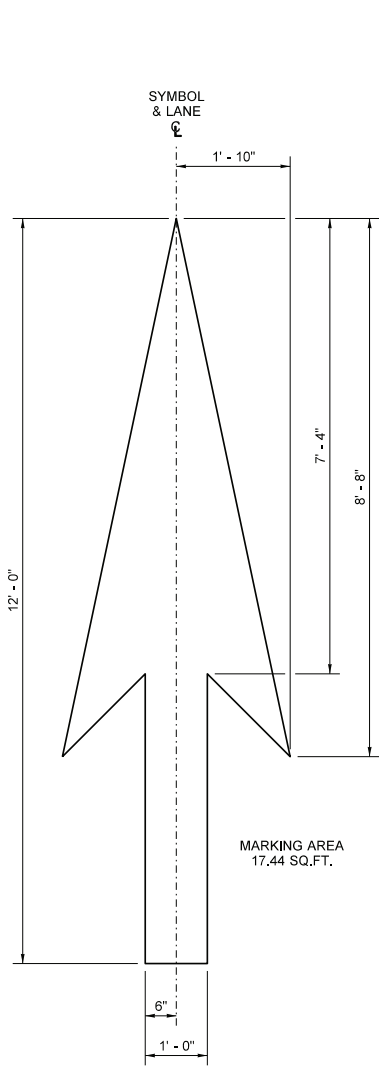
Russell B. Peterson
STATE DESIGN ENGINEER

Bakotich, Pasco
Jun 24 2014 4:42 PM

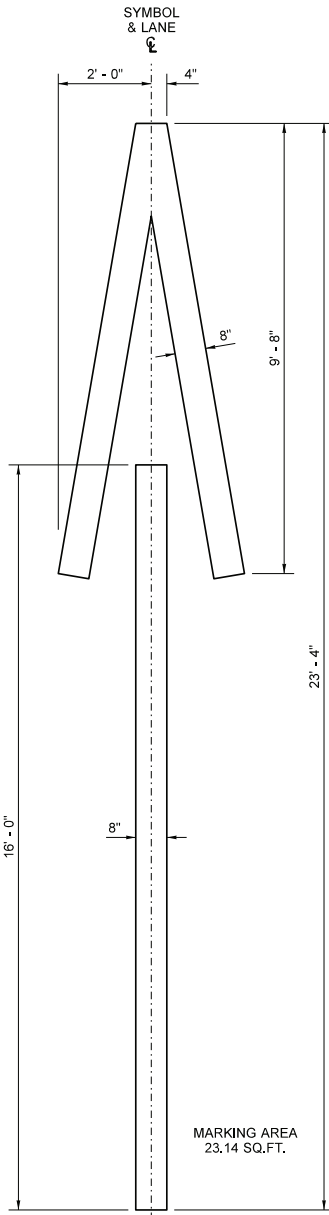
Washington State Department of Transportation

GENERAL NOTE

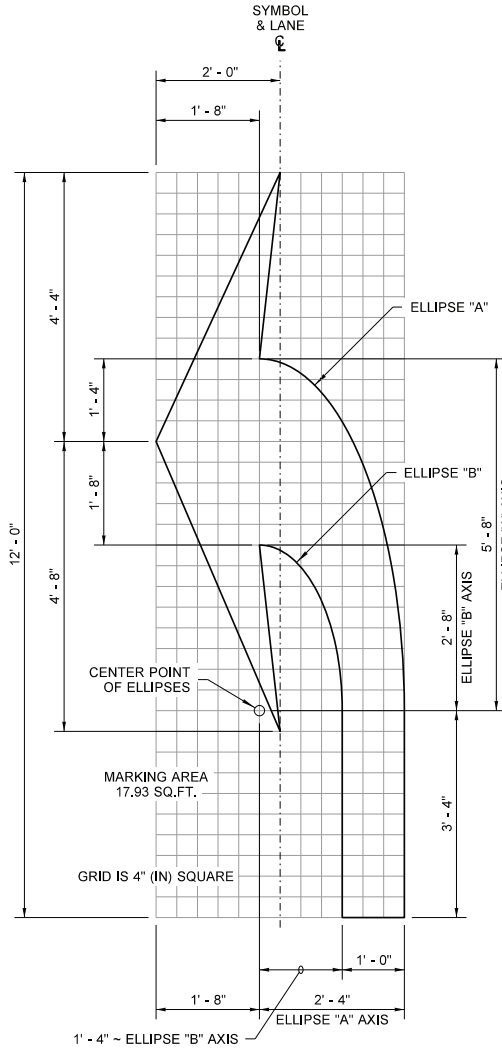
See Contract for location and material requirements.



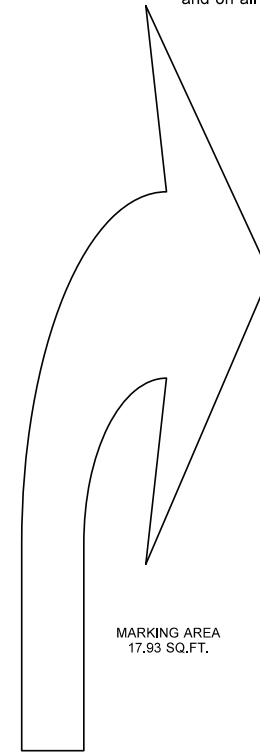
TYPE 1 TRAFFIC ARROW



TYPE 5 TRAFFIC ARROW



TYPE 2L (LEFT) TRAFFIC ARROW



TYPE 2R (RIGHT) TRAFFIC ARROW
MIRROR IMAGE OF TYPE 2L TRAFFIC ARROW

NOTE

Use the dimensions shown on this plan for each type of Traffic Arrow being placed on roadways with a posted speed limit of 45 mph or higher and on all on-ramps and off-ramps.



Brian J. Walsh Apr 16 2015 2:23 PM

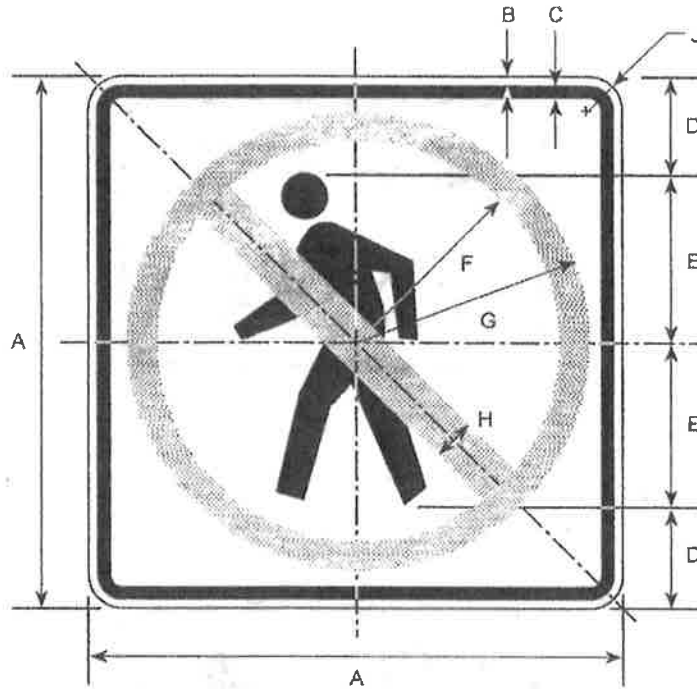
SYMBOL MARKINGS ~ TRAFFIC ARROWS FOR HIGH-SPEED ROADWAYS
STANDARD PLAN M-24.20-02

SHEET 1 OF 3 SHEETS

APPROVED FOR PUBLICATION
Paula B. Fletcher Apr 20 2015 10:10 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

R9-3A

11/94



* See appendix for standard symbol details

DIMENSIONS (MILLIMETERS)								
A	B	C	D	E	F	G	H	J
450	9	16	88	138	159	191	38	38
600	9	16	113	188	213	263	50	50
750	13	19	144	231	266	328	63	63

DIMENSIONS (INCHES)								
A	B	C	D	E	F	G	H	J
18	3/8	5/8	3 1/2	5 1/2	6 3/8	7 5/8	1 1/2	1 1/2
24	3/8	5/8	4 1/2	7 1/2	8 1/2	10 1/2	2	2
30	1/2	3/4	5 3/4	9 1/4	10 5/8	13 1/8	2 1/2	2 1/2

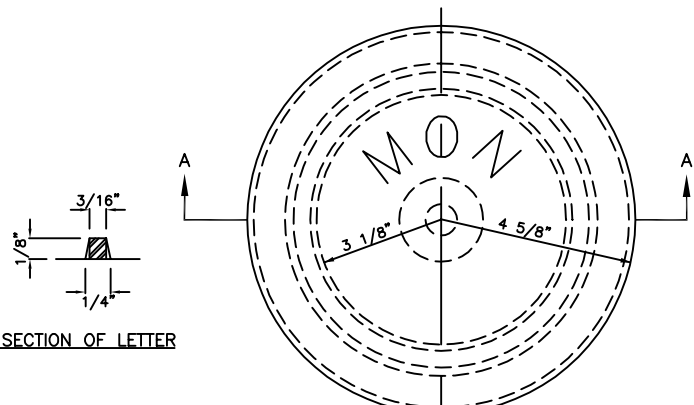
COLORS

- CIRCLE & DIAGONAL — RED (REFL)
- SYMBOL & BORDER — BLACK (NON-REFL)
- BACKGROUND — WHITE (REFL)

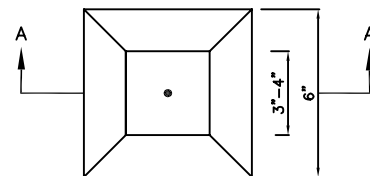
NOTES:

1. CASTINGS SHALL BE GRAY IRON ASTM A48, AASHTO M 105, CLASS 30.
2. COVER AND SEAT SHALL BE MACHINED FOR PERFECT CONTACT AROUND CIRCUMFERENCE AND FULL WIDTH OF BEARING SURFACE.
3. APPROXIMATE WEIGHTS, STANDARD.

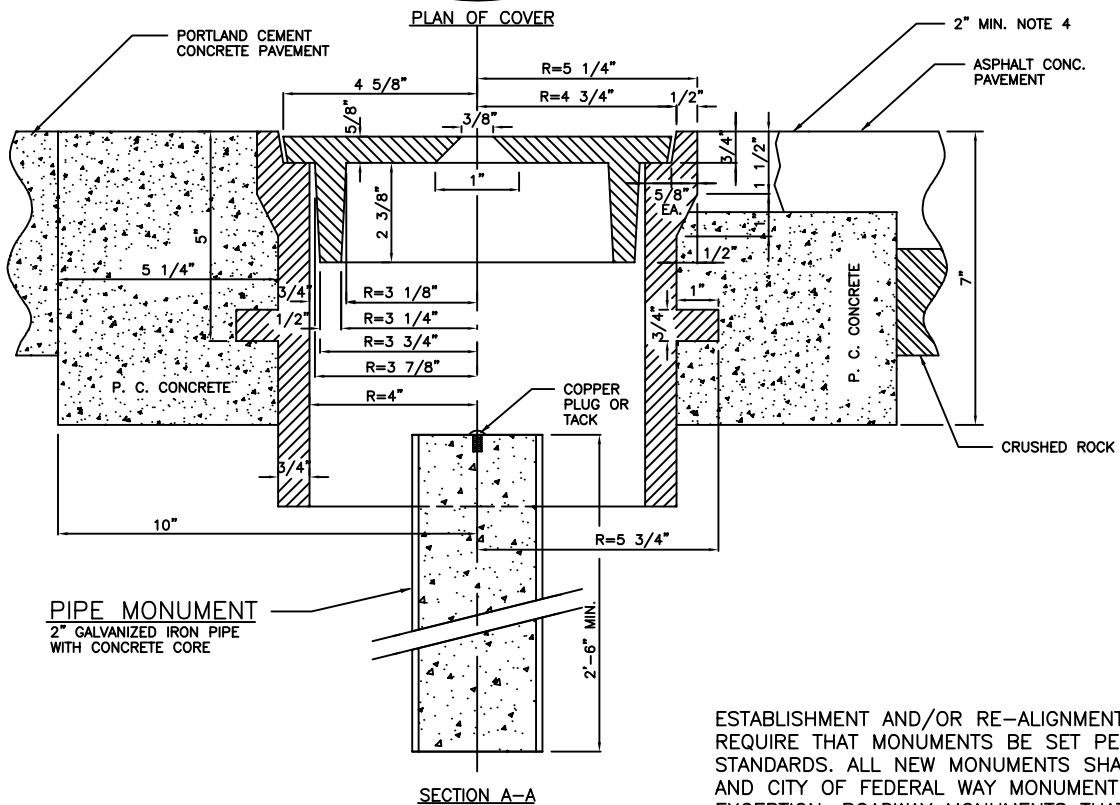
CASE	60 LBS
COVER	19 LBS
TOTAL	79 LBS
4. PAVEMENT SHALL BE ASPHALT CONCRETE OR APPROVED SUBSTITUTE.
5. CONCRETE SHALL BE CLASS 4000.
6. SEE SECTION 3.8.5.
7. COVER LETTERING MAY READ MONUMENT OR MON



SECTION OF LETTER



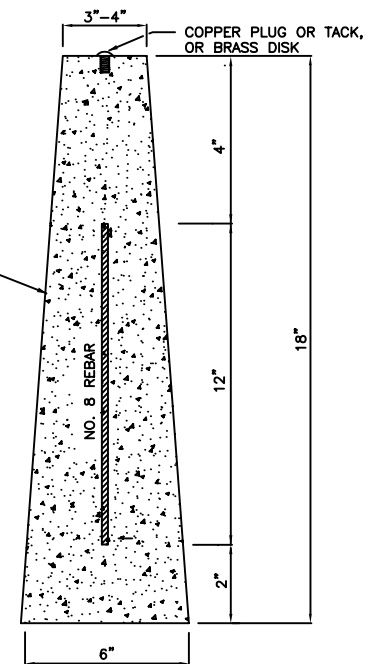
PLAN OF MONUMENT



PIPE MONUMENT
2" GALVANIZED IRON PIPE WITH CONCRETE CORE

SECTION A-A

CONCRETE MONUMENT (ALTERNATE)



SECTION B-B

ESTABLISHMENT AND/OR RE-ALIGNMENT OF A ROADWAY/RIGHT-OF-WAY CENTERLINE REQUIRE THAT MONUMENTS BE SET PER SECTION 3.8.5 OF THE PUBLIC WORKS DEVELOPMENT STANDARDS. ALL NEW MONUMENTS SHALL BE DOCUMENTED WITH A RECORD OF SURVEY AND CITY OF FEDERAL WAY MONUMENT RECORD FORM (DETAIL 3-37). EXCEPTION: ROADWAY MONUMENTS THAT ARE SET/ESTABLISHED AS PART OF A RECORDED SUBDIVISION.

REV. APR 2012

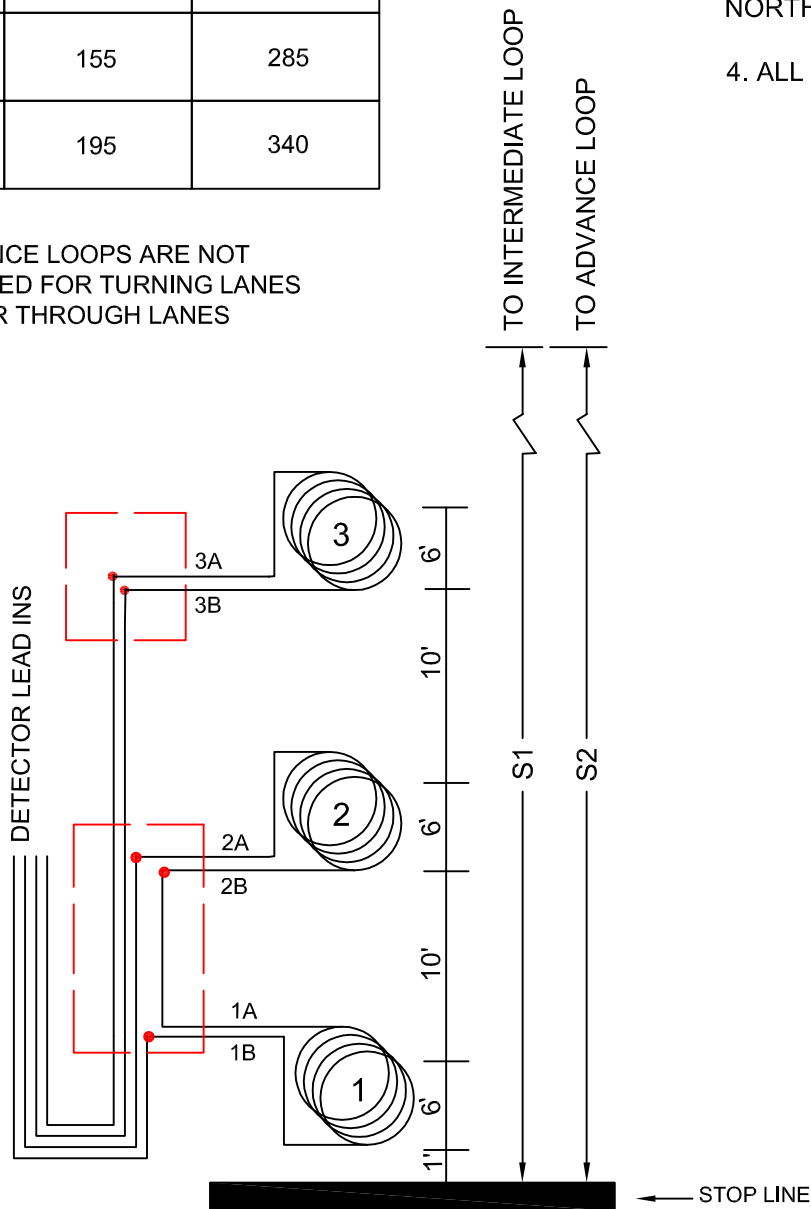
SERIES CONNECTED
 LOOP 1-2
 COUNT DETECTOR LOOP 3
 (DRAWING NOT TO SCALE)

POSTED SPEED (MPH)	* S1(FT)	* S2(FT)
25	-	105
30	-	140
35	-	185
40	115	230
45	155	285
50	195	340

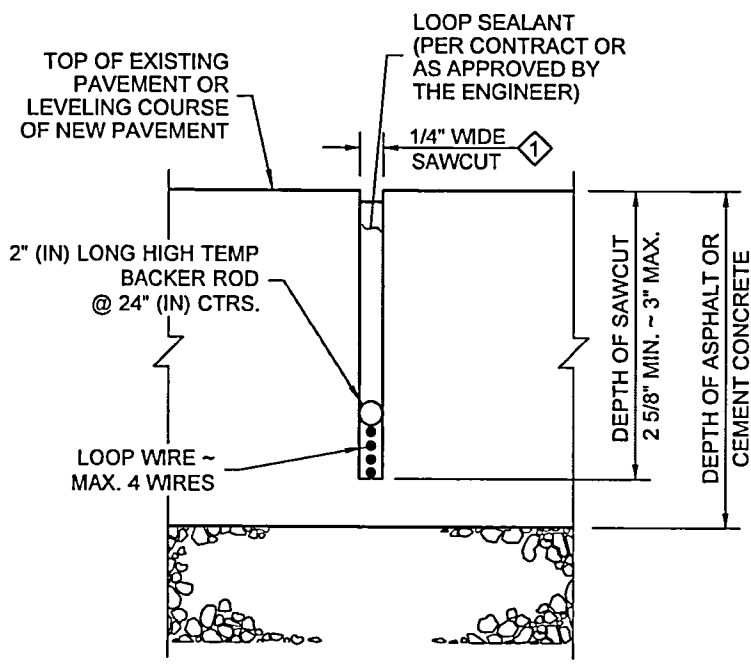
NOTES:

1. USE XYZ LOOP NUMBERING SCHEMATIC, WHERE:
 X IS THE PHASE #
 Y IS LANE # FROM INSIDE
 Z IS LOOP # FROM STOPBAR
2. USE 3' X 25' LOOP FOR BIKE LANES
3. PHASE 2 IS ALWAYS NORTHBOUND THRU DIRECTION
4. ALL LOOPS SHALL BE CIRCULAR

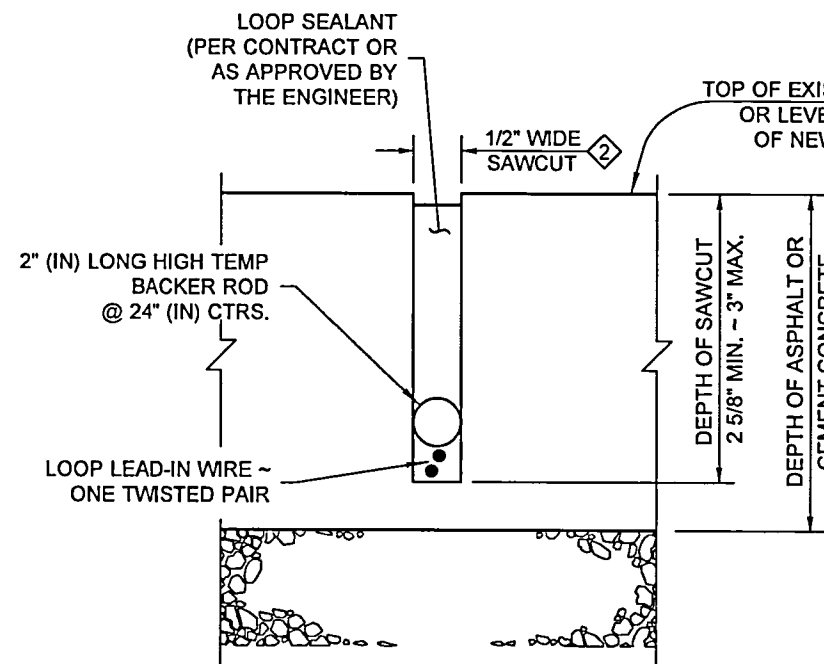
* ADVANCE LOOPS ARE NOT REQUIRED FOR TURNING LANES & MINOR THROUGH LANES



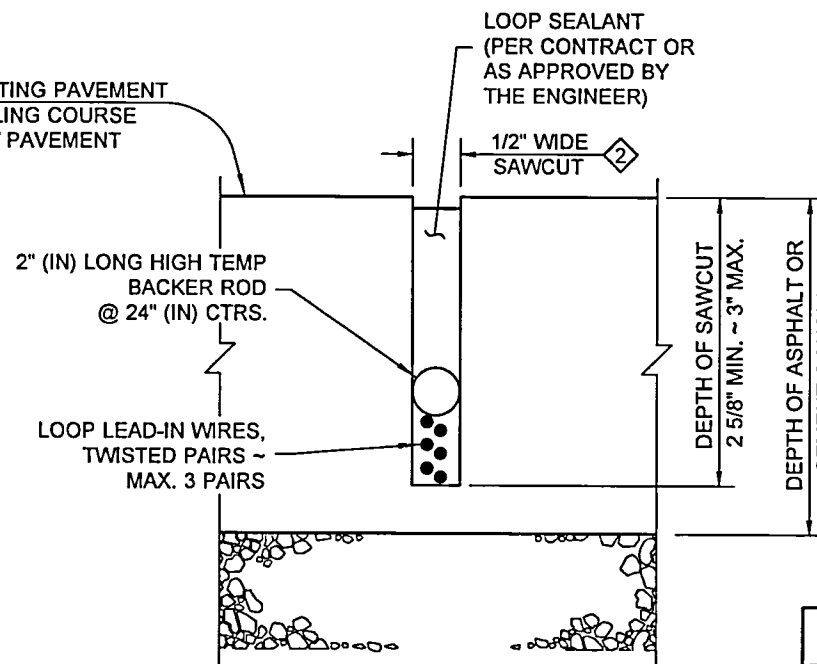
REV MAR 2011



SECTION A



SECTION B



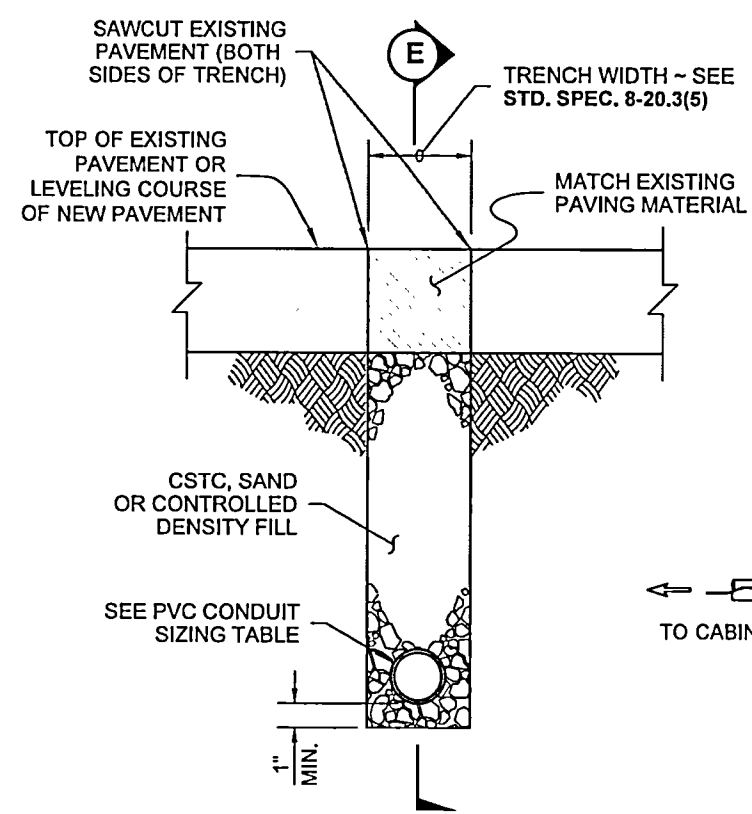
SECTION C

SECTIONS A AND B FROM STANDARD PLAN J-50.10, J-5-11, OR J-50.12

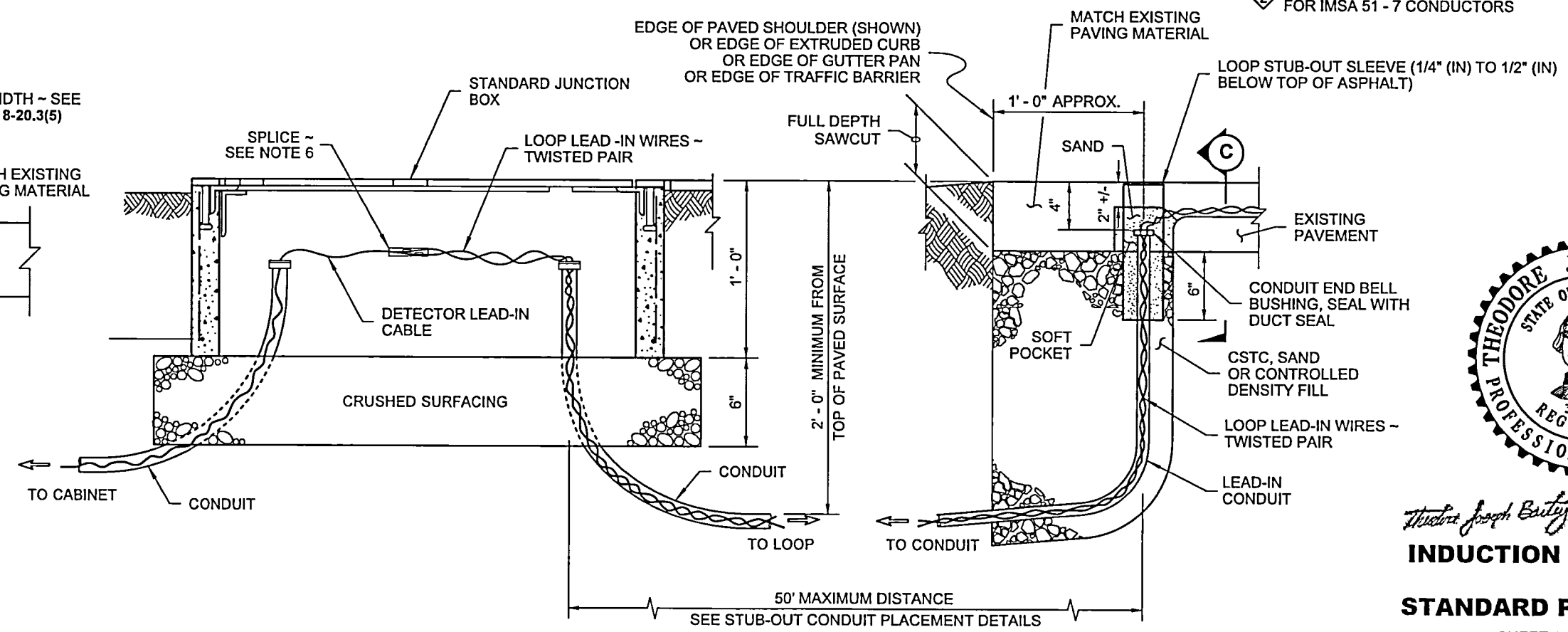
- NOTES**
1. Fill the conduit trench to the bottom of the existing or new surfacing with CSTC, sand or controlled density fill. See **Standard Specifications Section 2-09.3(1)E**.
 2. Minor Regional variations are allowed in the soft pocket closure. Consult with the Engineer or see the Contract for additional requirements.
 3. Conductors shall be snug to the bottom of the sawcut. High temperature backer rod shall be snug to the conductors and sides of cut.
 4. Fill the sealant to within 1/8" (in) to 3/16" (in) from top of saw cut.
 5. See **Standard Plan J-40.10** for additional Junction Box details.
 6. See **Standard Plan J-50.05** for splice details.

PVC CONDUIT SIZING TABLE					
LOOP LEAD PAIRS	1 - 4	5 - 10	11 - 16	17 - 22	23 - 28
NUMBER AND SIZE OF CONDUITS	1 - 2"	2 - 2"	3 - 2"	4 - 2"	3 - 3"

- ① ADD 1/16" (IN) TO THE SAWCUT FOR IMSA 51 - 7 CONDUCTORS
- ② ADD 1/8" (IN) TO THE SAWCUT FOR IMSA 51 - 7 CONDUCTORS



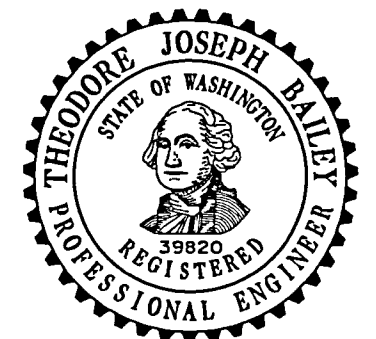
SECTION D



JUNCTION BOX PLACEMENT
SEE NOTE 5

SECTION E

LEAD-IN CONDUIT SECTION
MAX. 50 FT POCKET SECTION



Theodore Joseph Bailey Bailey, Ted
Jul 18 2017 9:57 AM

INDUCTION LOOP DETAILS

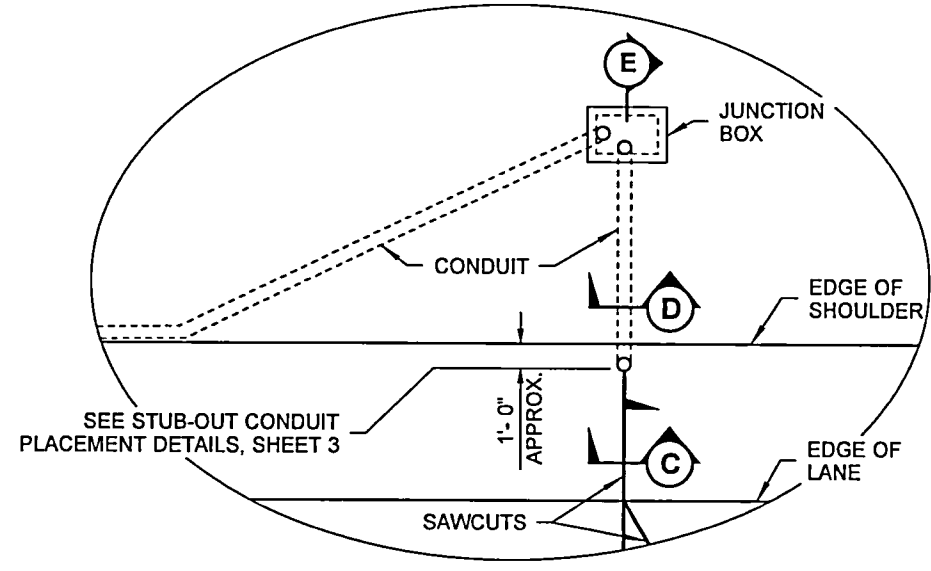
STANDARD PLAN J-50.15-01

SHEET 1 OF 3 SHEETS

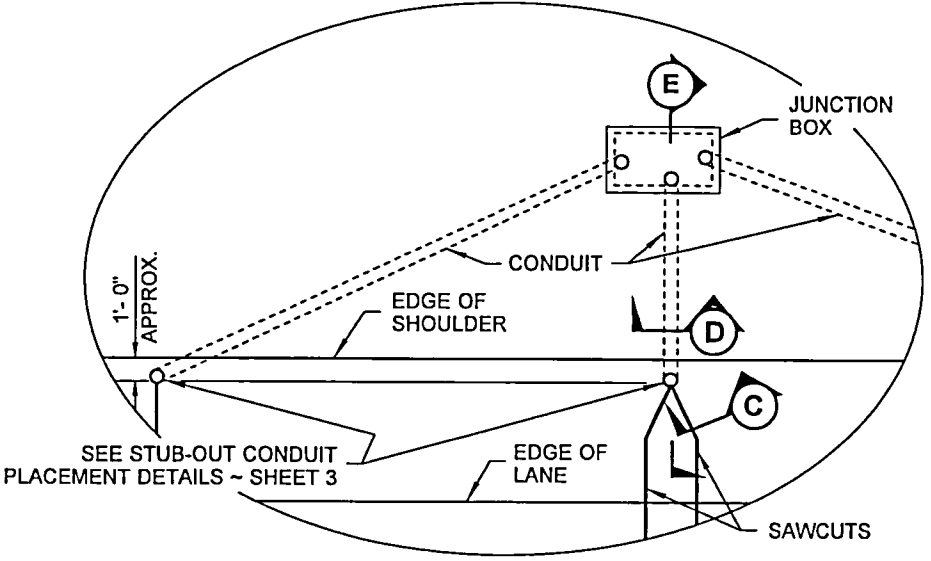
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 21 2017 8 12 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

LOOP INSTALLATION NOTES

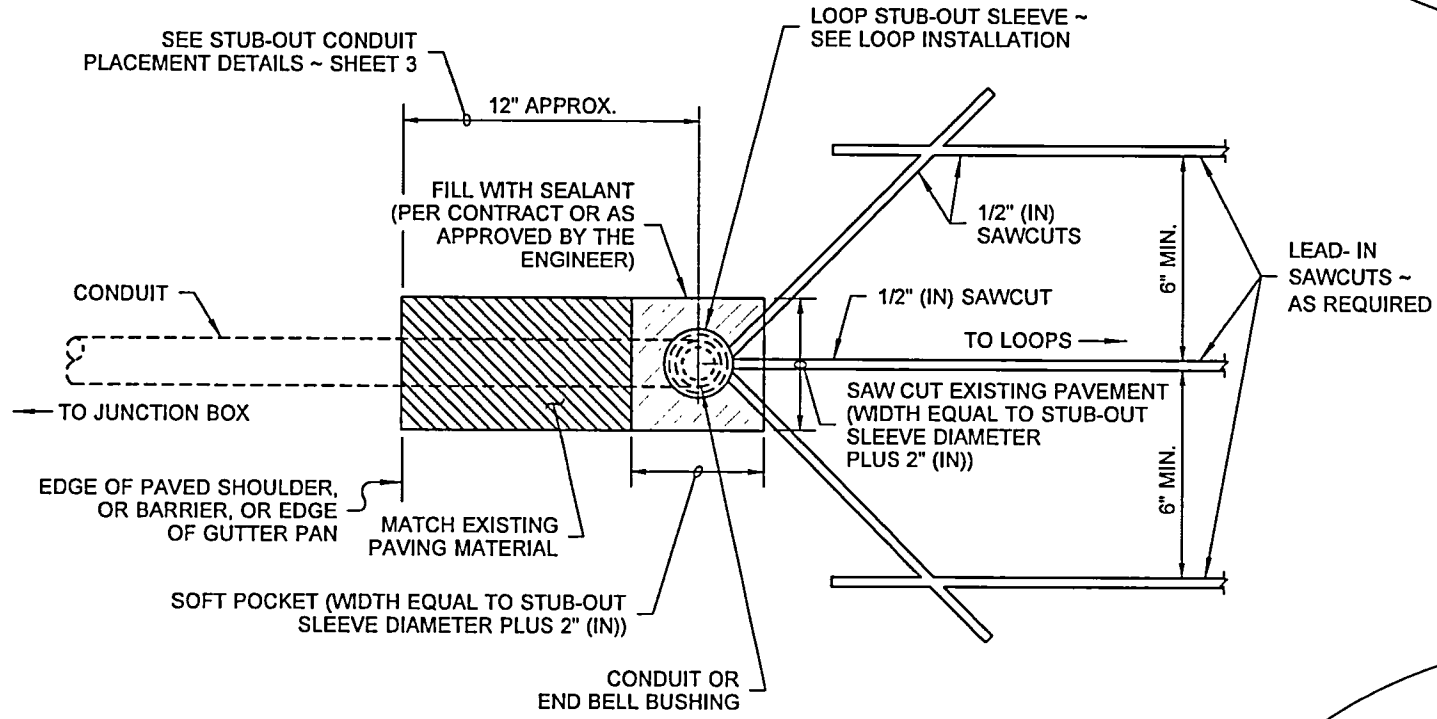
1. Install the Junction Box and the stub-out conduit with Sch. 80 PVC stub-out sleeve. Conduit for the loop stub-out shall be as required in the conduit size table shown on sheet 1 of this set.
2. Lay out loops and loop lead-ins to miss cracks/joints in road, when possible. Maintain 18" (in) minimum clearance from manholes and valve boxes.
3. The opening around the loop stub shall be patched with matching paving material if opened larger than PVC sleeve + 2" (in).
4. Sawcut the loop slots and the lead-in slots. Wash/dry cuts. File edges to remove burr of all saw-cuts into stub out sleeve.
5. Lay out the loop wire starting at the Junction Box, allowing 5' (ft) minimum slack.
6. Install the wire in the loop slot as shown.
7. Finish laying out the wire at the Junction Box and identify the leads with the loop number, the "S" for start and the "F" for the finish, the loop series number, and the loop lead-in conductor number.
8. Twist each pair of the lead-in wires a minimum of two times per foot each foot, from the loop to the Junction Box. Reverse the direction of the twist for each successive pair installed. Seal loops/sawcuts.
9. Construct a supplemental splice containing any series loop connections in the adjacent junction box as required in the plans. Supplemental splices are subject to the same requirements shown for the loop lead-in and the shielded cable splice.
10. Splice the loop lead-ins to the shielded cable as noted in the Contract. See **Standard Plan J-50.05** for Loop Splice details.
11. All loop circuits shall be tested per **Standard Specification Section 8-20.3(14)D** once installation is complete.
12. Existing stub-out shall be upgraded as necessary to conform to the conduit size table shown on sheet 1.
13. All loop lead-in sawcuts parallel to lane edge shall be at least 12" (in) from edge of pavement and within six inches outside of lane or fog line when possible. Maintain 12" (in) separation between parallel cuts or joints.
14. The loop stub-out sleeve shall have an inside diameter 1" (in) larger than the outside diameter of the End Bell Bushing. Sleeve shall be notched 5/8" (in) to 3/4" (in) to accommodate loop wires. Plug conduit and fill sleeve with sand until loops are installed to keep out Hot Asphalt during paving operations.



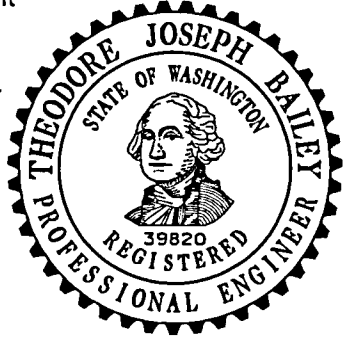
DETAIL "A"



DETAIL "B"



**PLAN
SAWCUT AND CONDUIT CONNECTION**

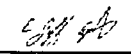



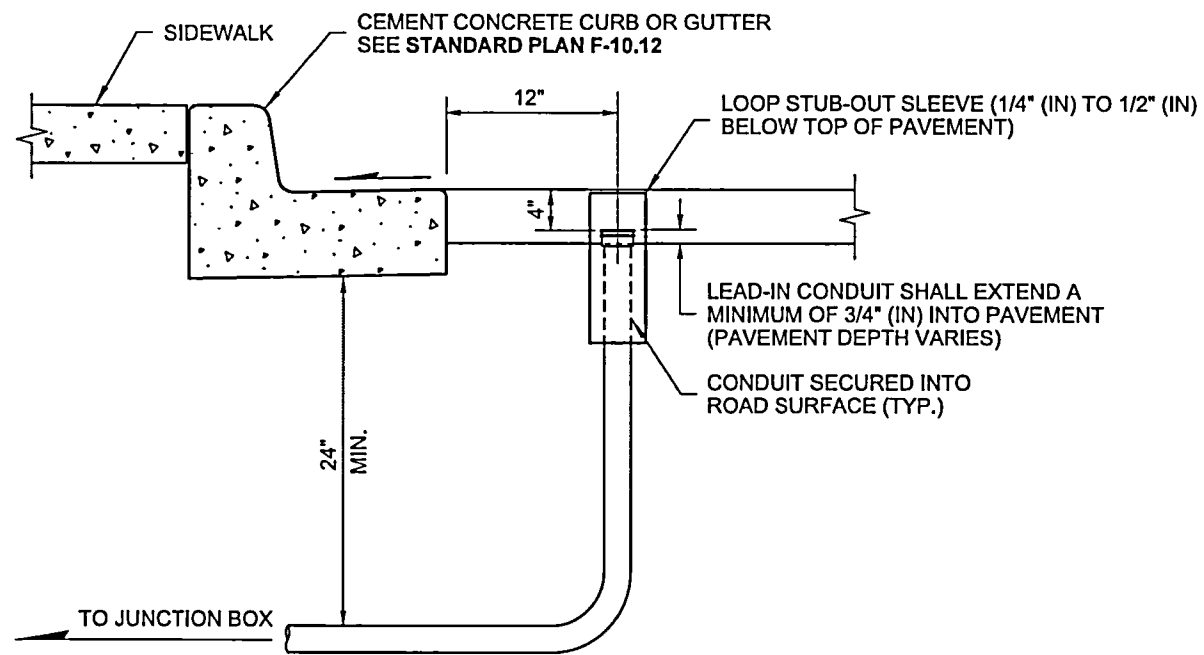
Theodore Joseph Bailey Bailey, Ted
Jul 18 2017 9:57 AM

INDUCTION LOOP DETAILS

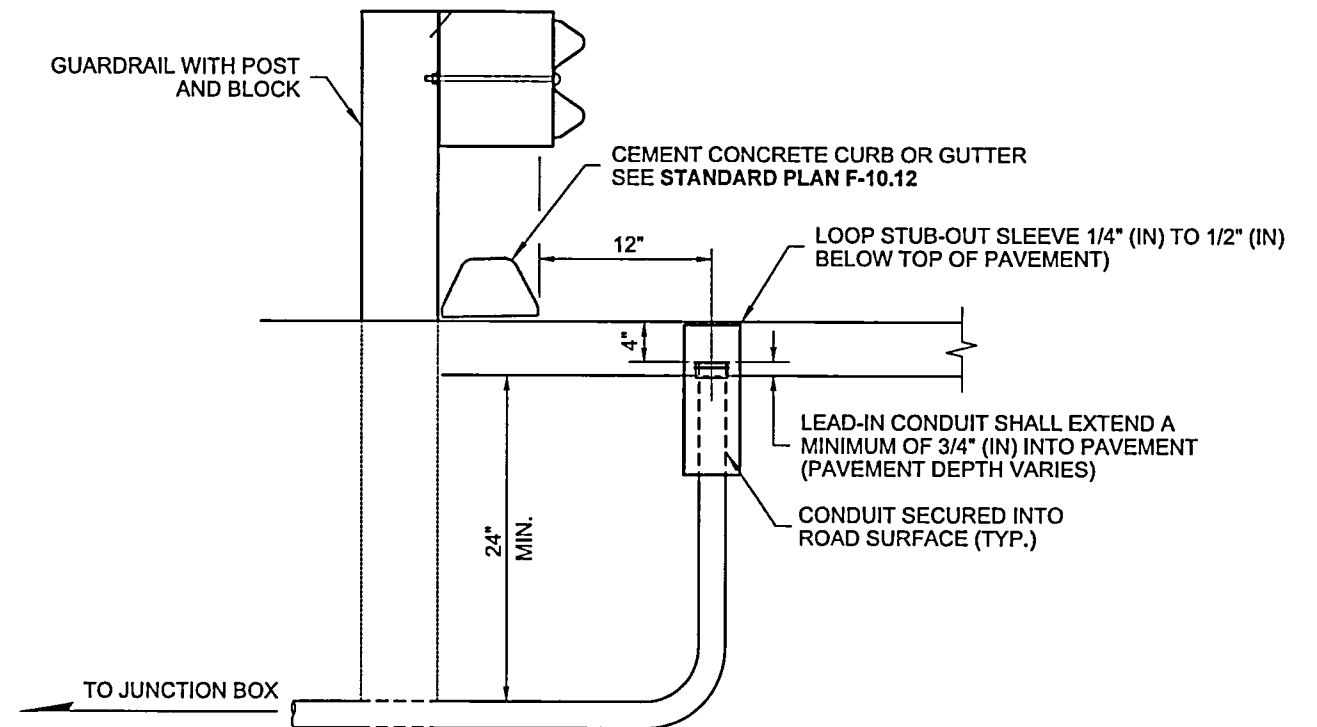
STANDARD PLAN J-50.15-01

SHEET 2 OF 3 SHEETS

APPROVED FOR PUBLICATION

 Carpenter, Jeff
 Jul 21 2017 8 12 AM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

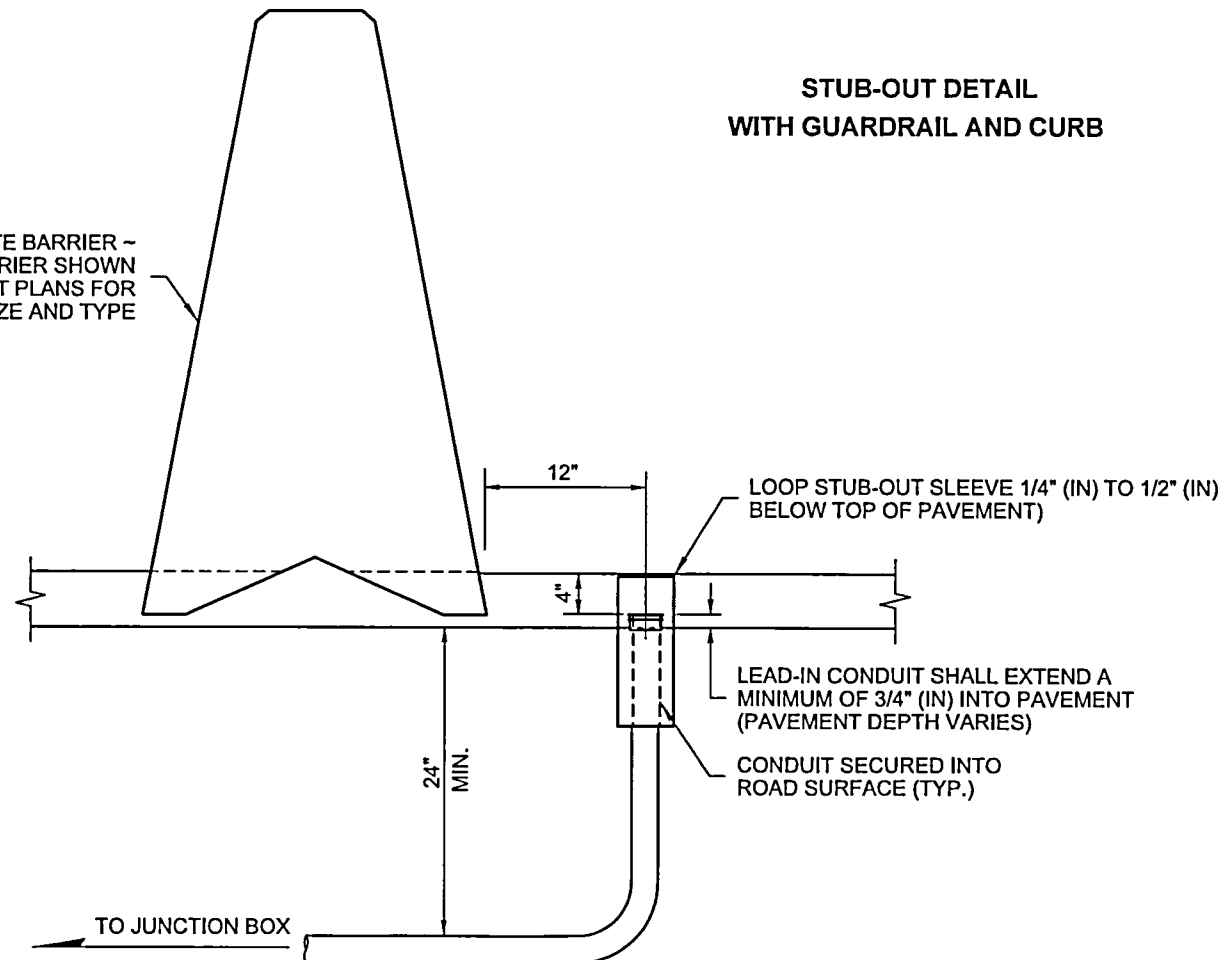


STUB-OUT DETAIL
WITH CEMENT CONCRETE CURB OR GUTTER

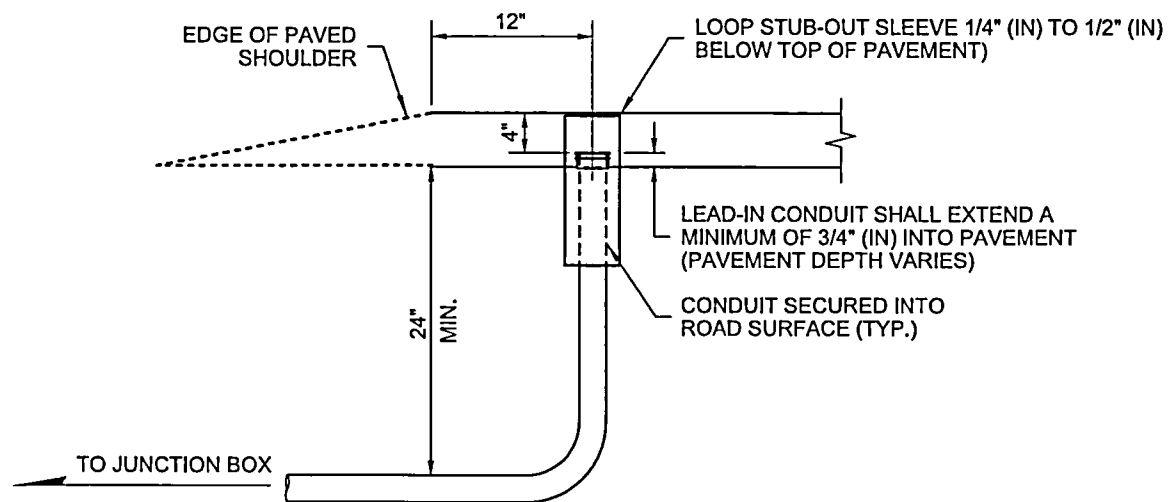


STUB-OUT DETAIL
WITH GUARDRAIL AND CURB

CEMENT CONCRETE BARRIER ~
SINGLE SLOPE BARRIER SHOWN
SEE CONTRACT PLANS FOR
SIZE AND TYPE

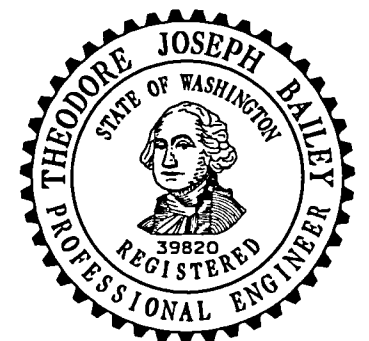


STUB-OUT DETAIL WITH
CEMENT CONCRETE BARRIER



STUB-OUT DETAIL
WITH ROADWAY

STUBOUT CONDUIT PLACEMENT DETAILS



Theodore Joseph Bailey Bailey, Ted
Jul 18 2017 9:57 AM

INDUCTION LOOP DETAILS

STANDARD PLAN J-50.15-01

SHEET 3 OF 3 SHEETS

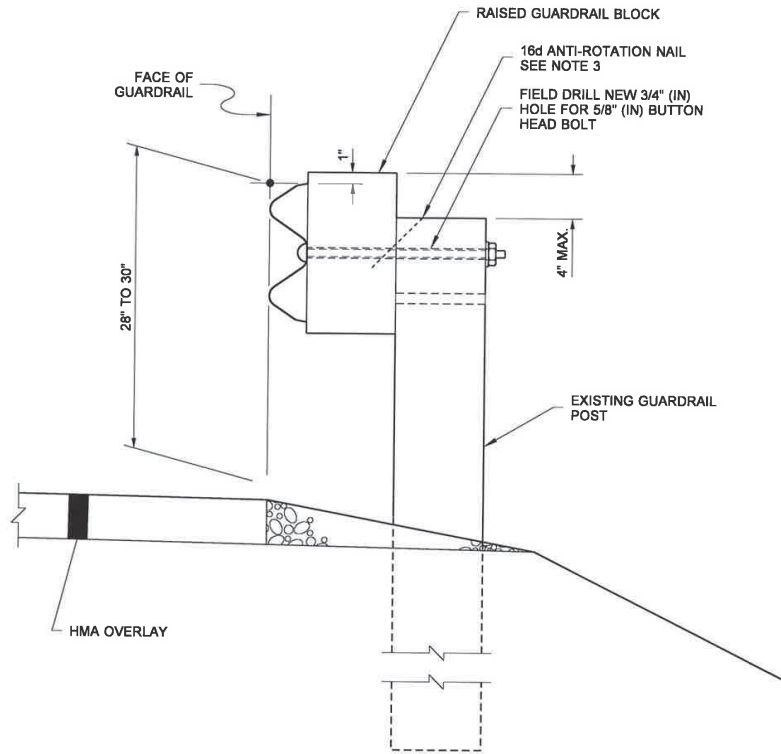
APPROVED FOR PUBLICATION

Jeff Carpenter Carpenter, Jeff
Jul 21 2017 8 12 AM

STATE DESIGN ENGINEER



Washington State Department of Transportation



RAISING BEAM GUARDRAIL DETAIL

NOTES

1. When required by the Contract, a Snow Load Post Washer shall be used on the backside of the post (in lieu of the 1 3/4" (in) Post Bolt Washer) and a Snow Load Rail Washer shall be placed on the face side of Beam Guardrail Types 1 and 2. Snow Load Rail Washers shall not be installed on terminals.
2. Rail Washers, also called "Snow Load Rail Washers", are not required on new installation, except as called for in Note 1. Unnecessary Rail washers need not be removed from existing installations, except those on posts 2 through 8 of a BCT installation shall be removed.
3. Timber blocks shall be toe-nailed to the post with a 16d galvanized nail to prevent block rotation.
4. For post and block details, see **Standard Plan C-1b**.
5. Existing posts shall not be raised. Replace posts as necessary to achieve required guardrail height.
6. Holes shall be located on approaching traffic side of web.



Petterson, Jeff (HQ Design)
 Jun 26 2018 9:46 AM
 RAISING BEAM GUARDRAIL
 DETAIL

STANDARD PLAN C-1

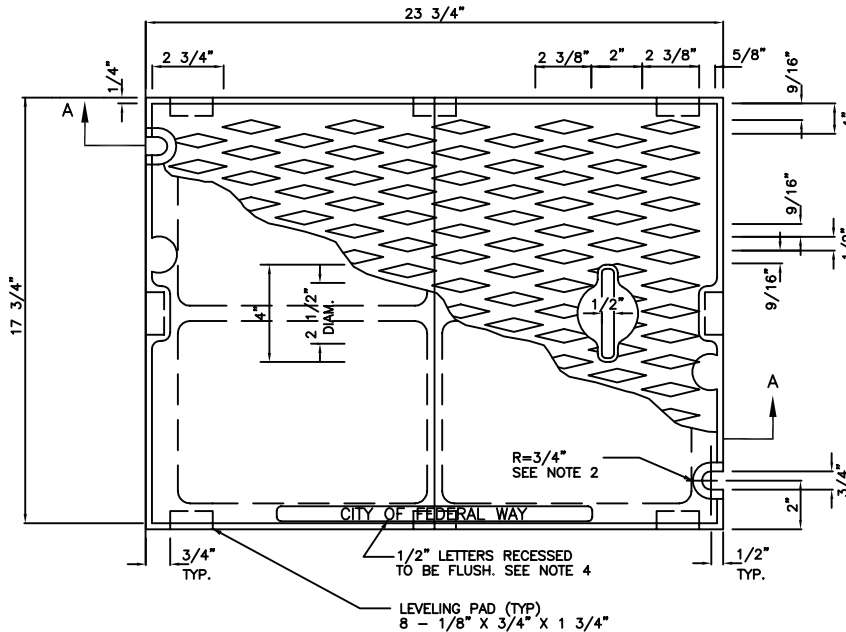
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

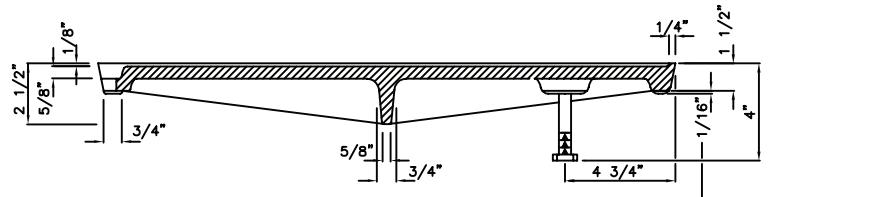
Carpenter, Jeff
Jun 28 2018 10:43 AM

STATE DESIGN ENGINEER





PLAN COVER

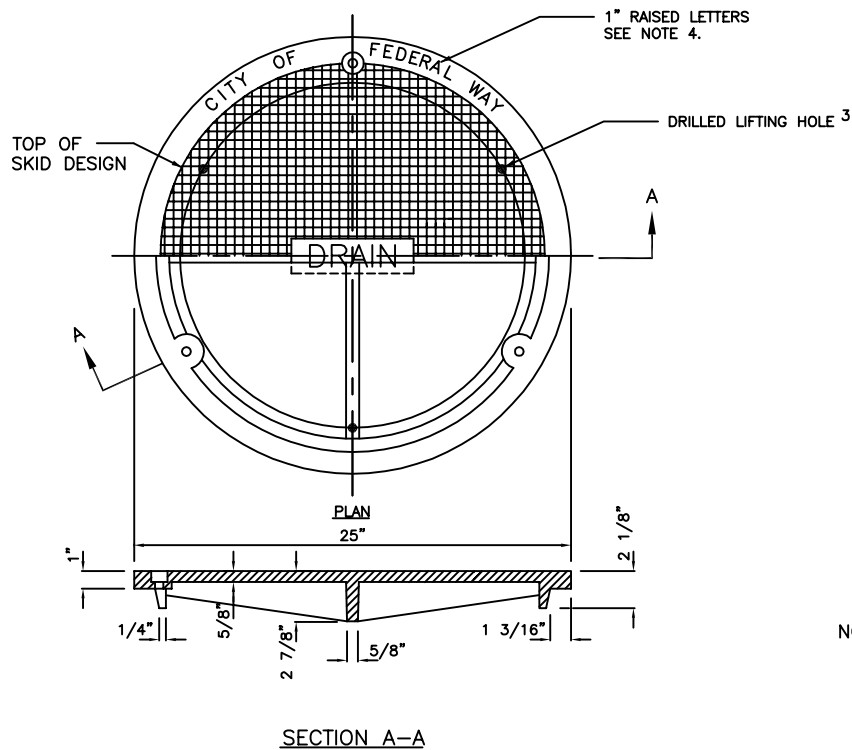


SECTION A-A

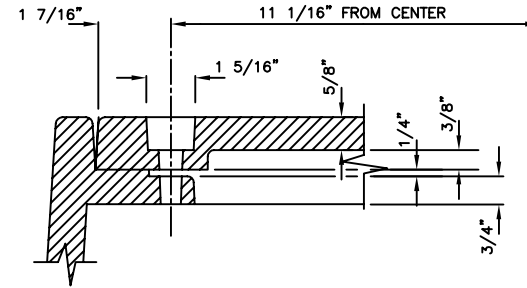
NOTES:

1. USE WITH FRAME DRILLED AND TAPPED FOR LOCKING BOLTS.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS, 2" LONG.
3. MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
4. THE WORDS "CITY OF FEDERAL WAY" TO BE OMITTED IF COVER IS ON A PRIVATE SYSTEM.

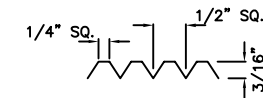
REV MAR 2011



REV MAR 2011



BOLT-DOWN DETAIL

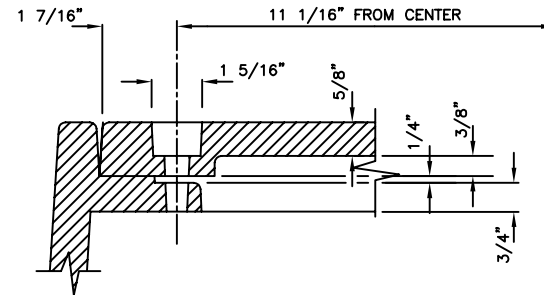
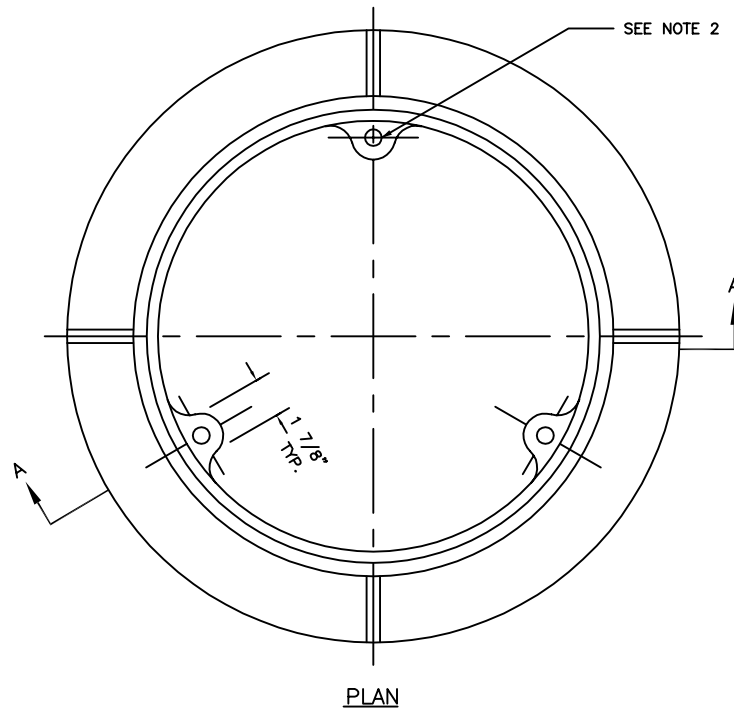


COVER SKID DESIGN DETAIL

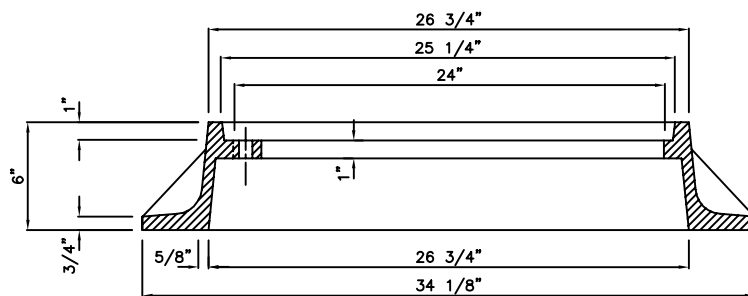
NOTES:

1. USE WITH THREE LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2" LONG. DRILL HOLES SPACED 120° AT 11 1/16" RADIUS.
2. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06
3. DRILL THREE 1 INCH HOLES SPACED AT 120° AND 9 1/2" RADIUS.
4. THE WORDS "CITY OF FEDERAL WAY" SHALL BE OMITTED IF COVER IS ON A PRIVATE SYSTEM.

REV MAR 2011



BOLT-DOWN DETAIL

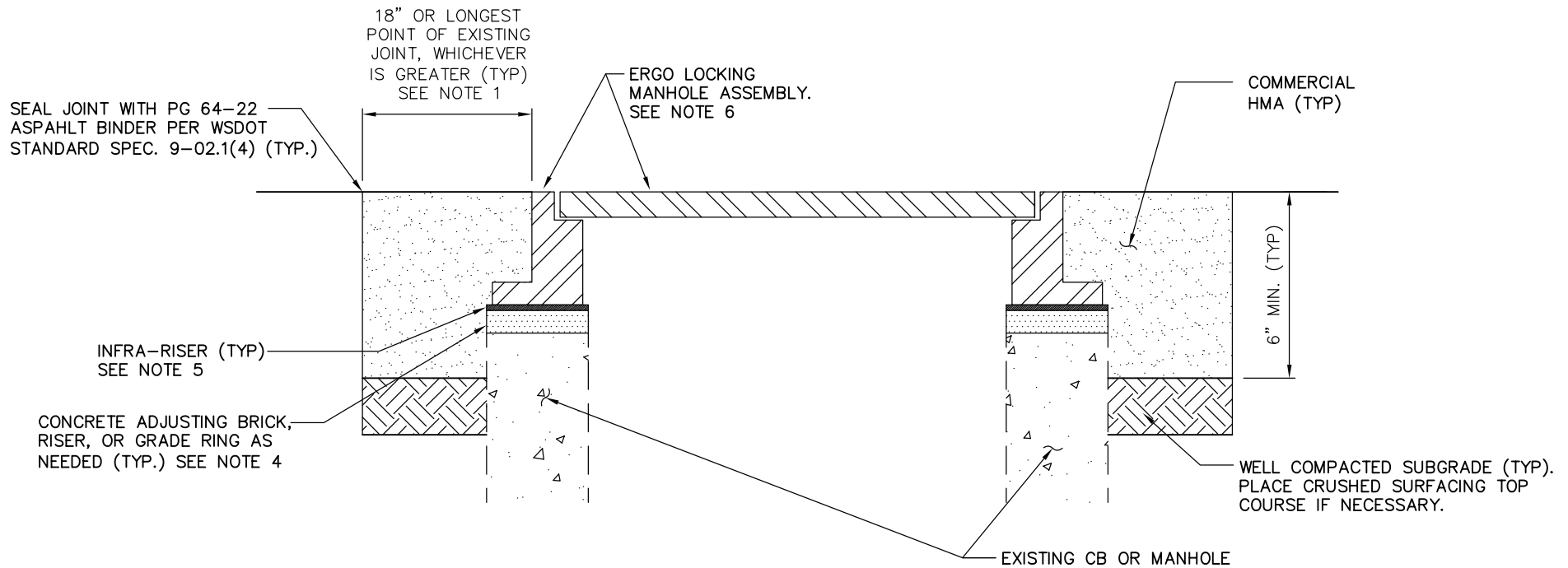


SECTION A-A

NOTES:

1. MATERIAL IS CAST IRON ASTM A48 CLASS 30.
2. DRILL AND TAP THREE 5/8"-11 NC HOLES THROUGH FRAME AT 120° AND 11 1/16" RADIUS.

JULY 2014



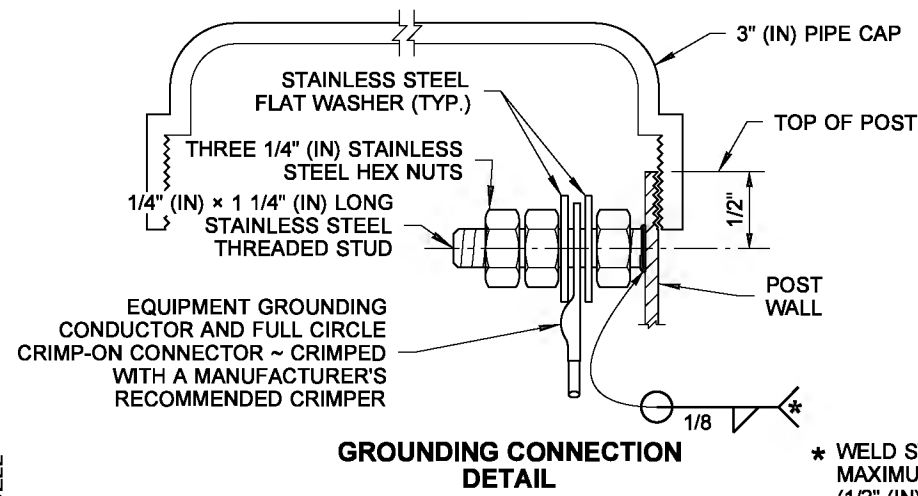
SECTION THROUGH STRUCTURE
NTS

NOTES:

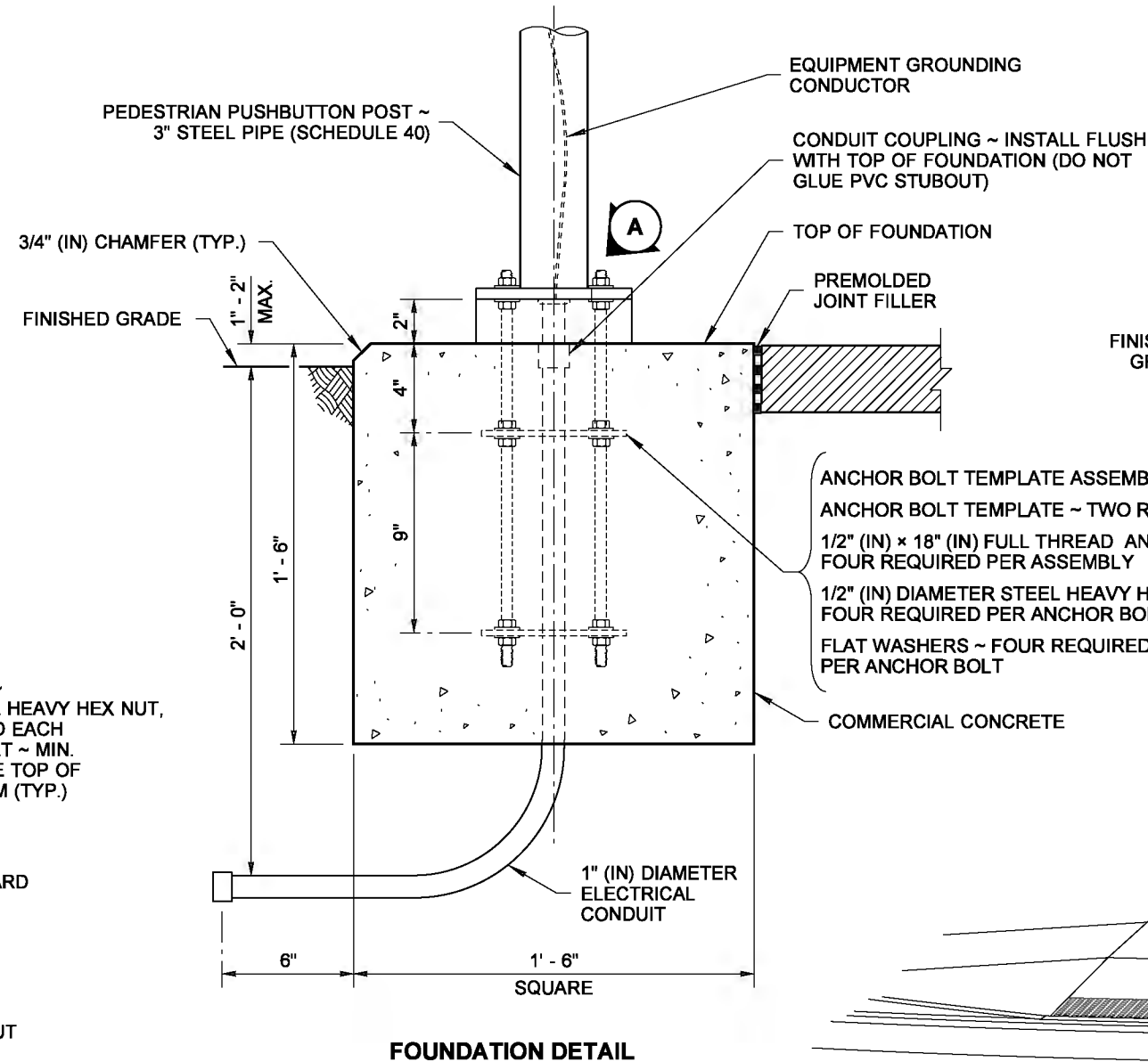
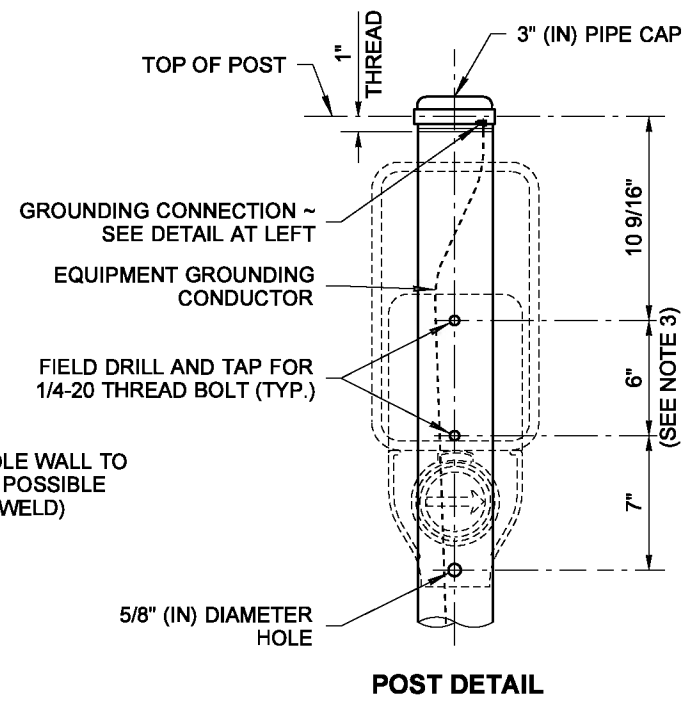
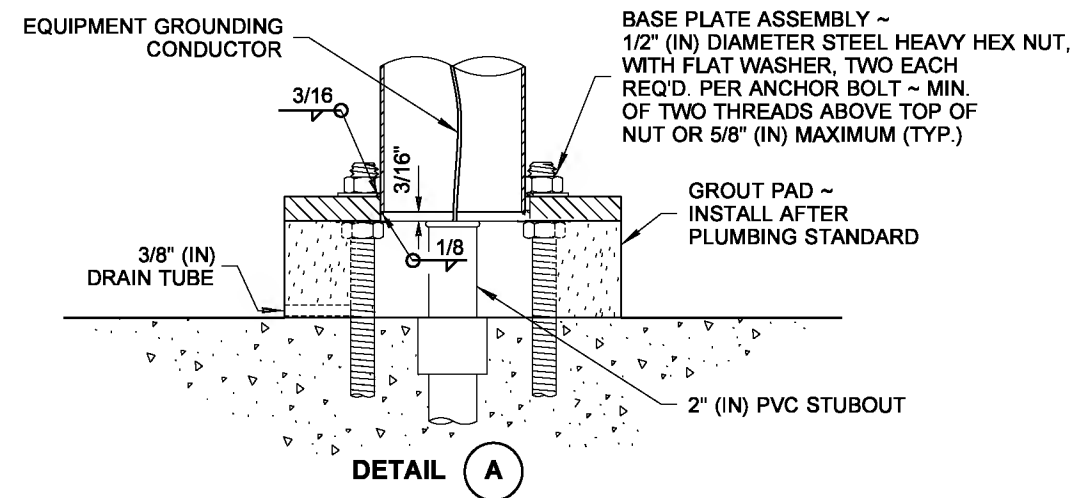
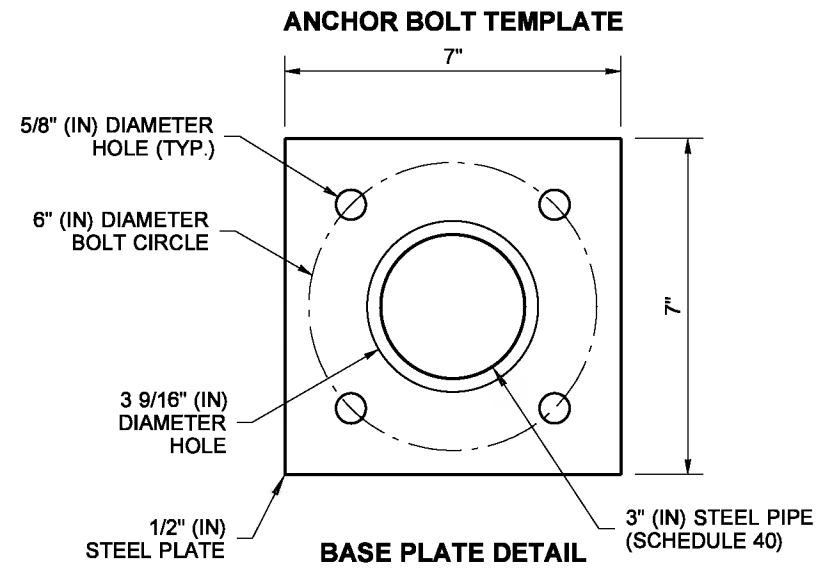
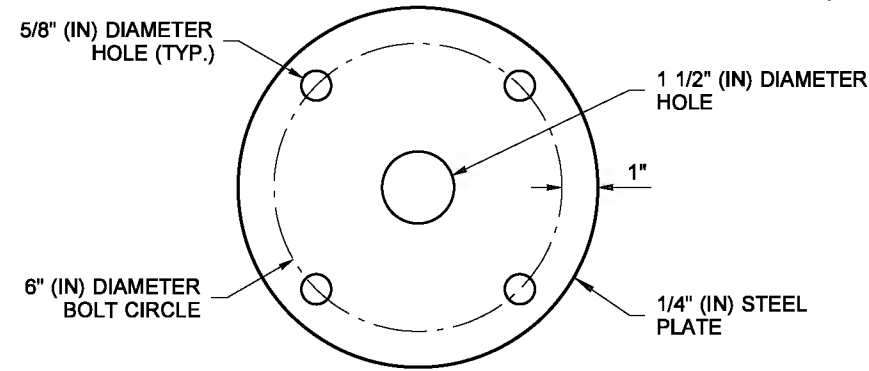
1. PAVEMENT CUT SHALL BE CIRCULAR AND CENTERED ON THE CENTER OF THE MANHOLE OR CATCH BASIN LID. RECTANGULAR OR POLYGON CUTS NOT ALLOWED.
2. CONVERT ALL RECTANGULAR FRAMES AND LIDS TO ROUND, USING CONCRETE CONVERSION RISER PER CITY OF FEDERAL WAY STANDARD PLAN DWG 4-18.
3. RAISE OR LOWER STRUCTURE TO THE REQUIRED ELEVATION AND SLOPE USING ONLY INFRA-RISER AND/OR CONCRETE RINGS AND BRICKS AS NECESSARY. NO OTHER MATERIALS ARE ALLOWED. TO ACHIEVE WATER-TIGHT CONSTRUCTION, GROUT INSIDE AND OUTSIDE OF EACH JOINT USING A LAYER OF NON-SHRINK MORTAR NO MORE THAN 3/4" THICK, AND FINISHED SMOOTH.
4. SEAL JOINT WITH PG 64-22 ASPHALT BINDER PER WSDOT STANDARD SPEC. 9-02.1(4) (TYP.)
5. ON ALL STRUCTURES WITHIN THE ROADWAY TRAVEL LANES, INSTALL INFRA-RISER MULTI-PURPOSE RUBBER COMPOSITE ADJUSTMENT RISER, MANUFACTURED BY EAST JORDAN IRON WORKS. INFRA-RISER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. REMOVE EXISTING CONCRETE RISER IF NECESSARY TO MAKE ROOM FOR INFRA-RISER. STACKED INFRA-RISER SHALL NOT EXCEED 3" TOTAL HEIGHT. INFRA-RISER SHALL BE INSTALLED ON TOP OF ALL CONCRETE RISERS, DIRECTLY UNDER THE ERGO MANHOLE ASSEMBLY.
6. ON ALL STRUCTURES, INSTALL NEW EAST JORDAN IRON WORKS ERGO 4"x24" CAM LOCKING HINGED MANHOLE ASSEMBLY (PRODUCT NO. 00104028L03), PER MANUFACTURER'S RECOMMENDATIONS. SET TOP OF ASSEMBLY TO BE FLUSH WITH EXISTING ROAD AND/OR GUTTER SURFACE. LOCATE HINGE SO THAT IT'S NEAREST TO ON-COMING TRAFFIC.
7. HMA SHALL BE MECHANICALLY COMPACTED IN 3" (MAX.) LIFTS. .

JUN 2017

DRAWN BY: FERN LIDDELL

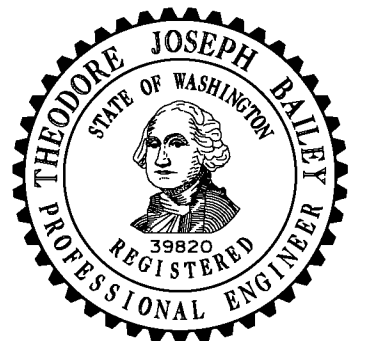
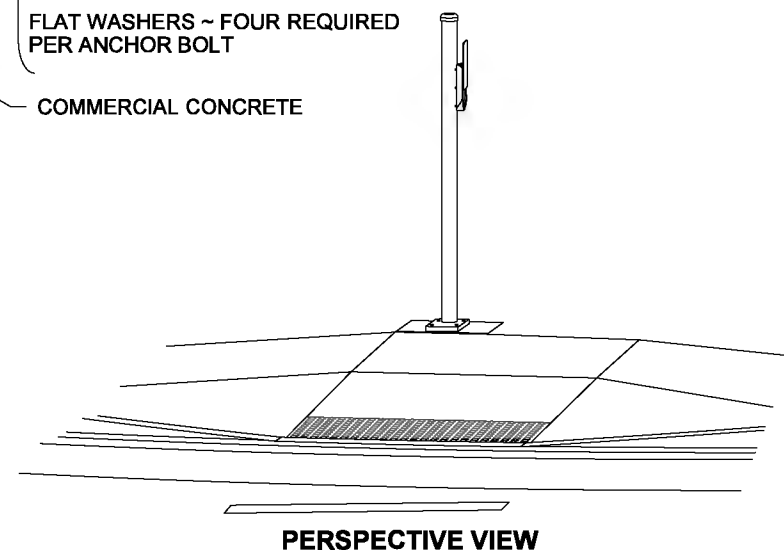
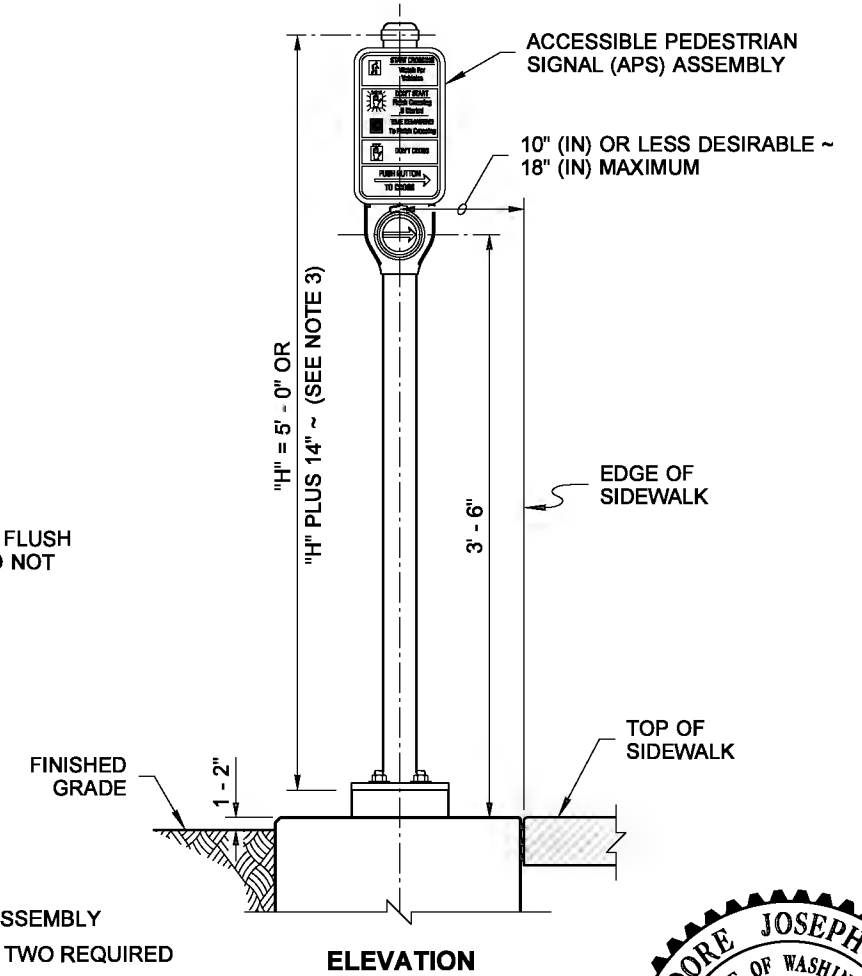


* WELD STUD TO POLE WALL TO MAXIMUM EXTENT POSSIBLE (1/2" (IN) MINIMUM WELD)



NOTES

1. See **Standard Plan J-20.26** for Accessible Pedestrian Pushbutton details.
2. Where shown in the plans, install plaque (R10-32P) "PUSH BUTTON FOR 2 SECONDS FOR EXTRA CROSSING TIME" above the Accessible Pedestrian Signal (APS) assembly. Add 14" (in) to post height to accommodate plaque and leave a 2" (in) space between signs.
3. Mounting distances vary between manufacturers. See manufacturers recommendations for mounting information.
4. Junction Box serving the Standard shall preferably be located 5' - 0" (10' - 0" Max.) from the Standard.



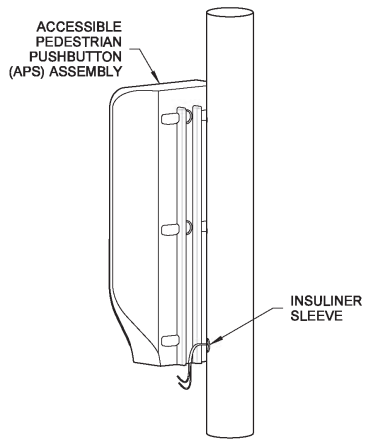
**ACCESSIBLE PEDESTRIAN
PUSHBUTTON POST (PPB)
AND FOUNDATION
STANDARD PLAN J-20.10-03**

SHEET 1 OF 1 SHEET

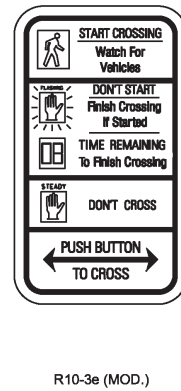
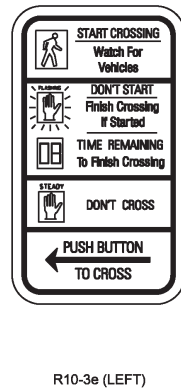
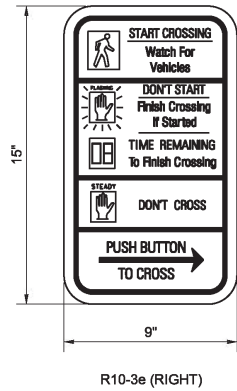
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER
Washington State Department of Transportation

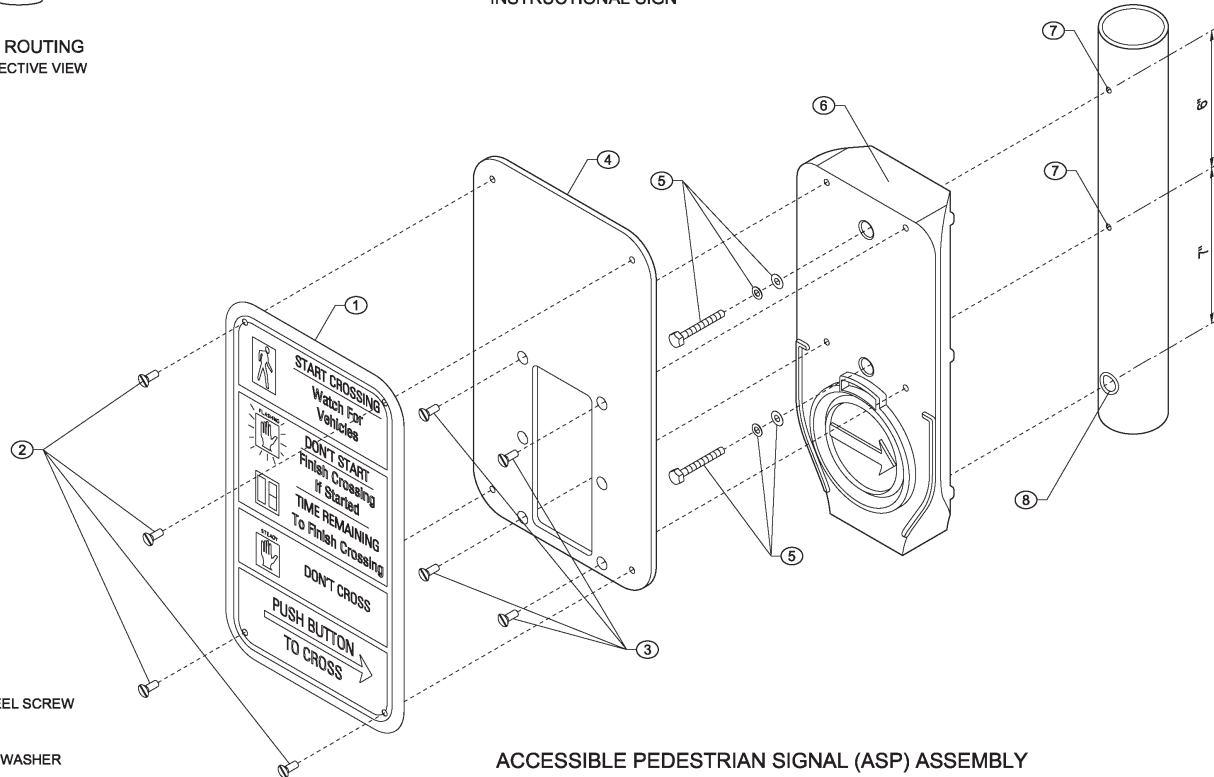
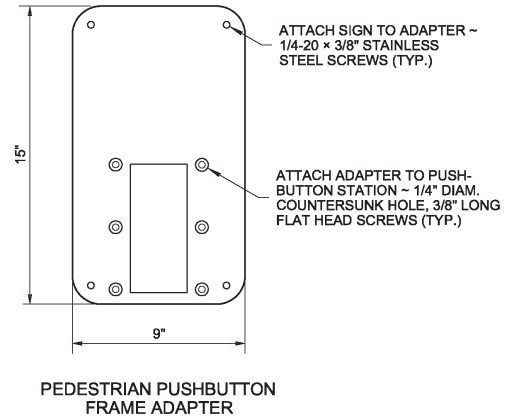
DRAWN BY: LISA CYFORD



WIRE ROUTING PERSPECTIVE VIEW



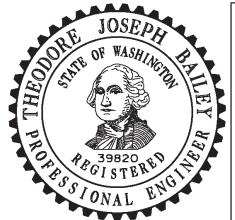
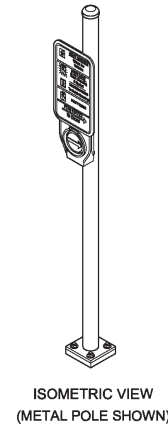
PEDESTRIAN PUSHBUTTON INSTRUCTIONAL SIGN



KEY

- ① FACE PLATE
- ② 1/4-20 x 3/8" LONG STAINLESS STEEL SCREW
- ③ 1/4-20 STAINLESS STEEL SCREWS
- ④ PUSHBUTTON FRAME ADAPTER
- ⑤ 1/4-20 STAINLESS STEEL BOLT W/ WASHER AND LOCK WASHER
- ⑥ PUSHBUTTON STATION
- ⑦ DRILL AND TAP SHAFT FOR 1/4" DIAM. BOLT
- ⑧ DRILL AND TAP SHAFT FOR 5/8" WIRE GUIDE HOLE - ADD INSULINER

ACCESSIBLE PEDESTRIAN SIGNAL (ASP) ASSEMBLY METAL POLE INSTALLATION PPB-M



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT UNLESS IT IS SIGNED BY AN ELECTRICIAN OR ENGINEER. THE ORIGINAL SHOULD BE FILED AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

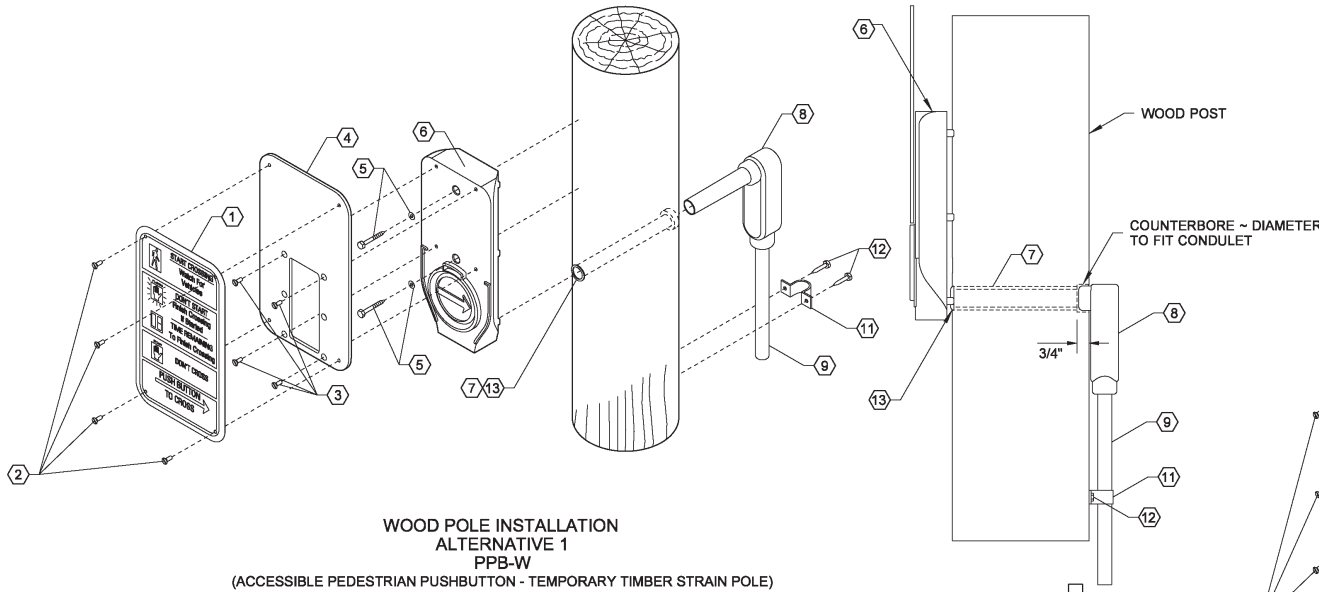
ACCESSIBLE PEDESTRIAN PUSHBUTTON (PPB) DETAILS
STANDARD PLAN J-20.26-01

SHEET 1 OF 2 SHEETS

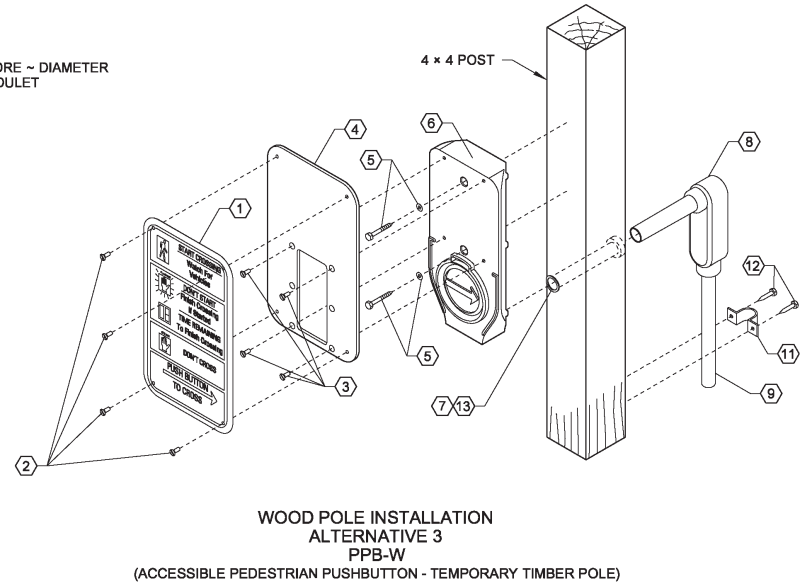
APPROVED FOR PUBLICATION

Pasco Bakotich III 7/12/12
 STATE DESIGN ENGINEER DATE

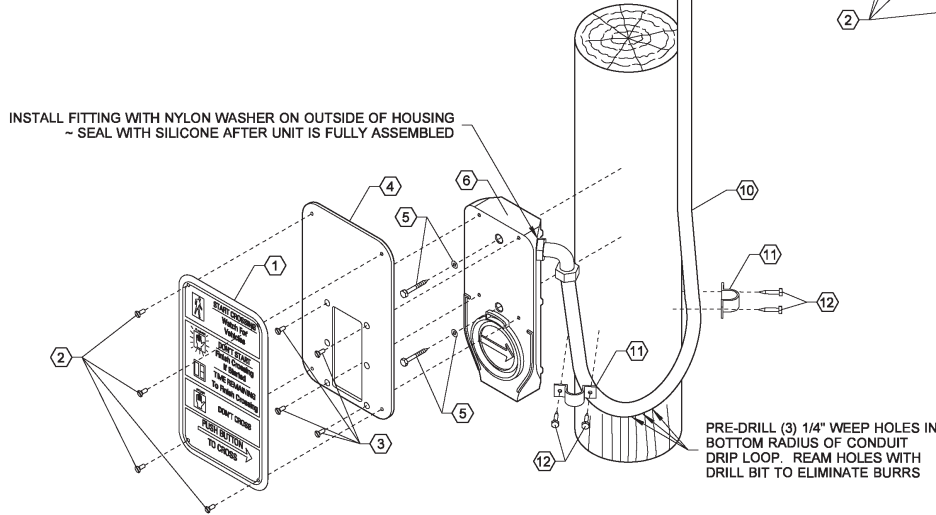




**WOOD POLE INSTALLATION
ALTERNATIVE 1
PPB-W
(ACCESSIBLE PEDESTRIAN PUSHBUTTON - TEMPORARY TIMBER STRAIN POLE)**



**WOOD POLE INSTALLATION
ALTERNATIVE 3
PPB-W
(ACCESSIBLE PEDESTRIAN PUSHBUTTON - TEMPORARY TIMBER POLE)**



**ACCESSIBLE PEDESTRIAN SIGNAL (ASP) ASSEMBLY
WOOD POLE INSTALLATION
ALTERNATIVE 2
PPB-W
(ACCESSIBLE PEDESTRIAN PUSHBUTTON - TEMPORARY TIMBER STRAIN POLE)**

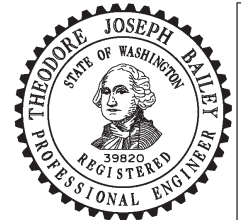
TEMPORARY TIMBER POLE

INSTALL FITTING WITH NYLON WASHER ON OUTSIDE OF HOUSING
~ SEAL WITH SILICONE AFTER UNIT IS FULLY ASSEMBLED

PRE-DRILL (3) 1/4" WEEP HOLES IN
BOTTOM RADIUS OF CONDUIT
DRIP LOOP. REAM HOLES WITH
DRILL BIT TO ELIMINATE BURRS

KEY

- 1 FACE PLATE
- 2 1/4-20 x 3/8" LONG STAINLESS STEEL SCREW
- 3 1/4-20 STAINLESS STEEL SCREWS
- 4 PUSHBUTTON FRAME ADAPTER
- 5 LAG BOLT WITH WASHER
- 6 PUSHBUTTON STATION
- 7 CONDUIT DIAMETER + 1/8" HOLE THRU POLE
- 8 CONDULET
- 9 3/4" CONDUIT
- 10 LIQUID-TITE FLEX CONDUIT
- 11 ONE PIECE TWO HOLE CLAMP
- 12 LAG BOLT
- 13 INSULINER SLEEVE



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT
UNTIL IT IS SIGNED BY THE ORIGINAL ENGINEER OR
BY AN ELECTRONIC SIGNATURE. THE ORIGINAL, SIGNED BY,
OR FILED AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

**ACCESSIBLE PEDESTRIAN
PUSHBUTTON (PPB)
DETAILS
STANDARD PLAN J-20.26-01**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakotich III 7/12/12
STATE DESIGN ENGINEER DATE



APPENDIX B

PREVAILING WAGES AND BENEFIT CODE KEY

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: 2/5/2019

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
King	Asbestos Abatement Workers	Journey Level	\$46.57	<u>5D</u>	<u>1H</u>	
King	Boilermakers	Journey Level	\$66.54	<u>5N</u>	<u>1C</u>	
King	Brick Mason	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
King	Brick Mason	Pointer-Caulker-Cleaner	\$57.32	<u>5A</u>	<u>1M</u>	
King	Building Service Employees	Janitor	\$24.63	<u>5S</u>	<u>2F</u>	
King	Building Service Employees	Traveling Waxer/Shampooer	\$25.08	<u>5S</u>	<u>2F</u>	
King	Building Service Employees	Window Cleaner (Non-Scaffold)	\$28.13	<u>5S</u>	<u>2F</u>	
King	Building Service Employees	Window Cleaner (Scaffold)	\$29.03	<u>5S</u>	<u>2F</u>	
King	Cabinet Makers (In Shop)	Journey Level	\$22.74		<u>1</u>	
King	Carpenters	Acoustical Worker	\$60.04	<u>5D</u>	<u>4C</u>	
King	Carpenters	Bridge, Dock And Wharf Carpenters	\$60.04	<u>5D</u>	<u>4C</u>	
King	Carpenters	Carpenter	\$60.04	<u>5D</u>	<u>4C</u>	
King	Carpenters	Carpenters on Stationary Tools	\$60.17	<u>5D</u>	<u>4C</u>	
King	Carpenters	Creosoted Material	\$60.14	<u>5D</u>	<u>4C</u>	
King	Carpenters	Floor Finisher	\$60.04	<u>5D</u>	<u>4C</u>	
King	Carpenters	Floor Layer	\$60.04	<u>5D</u>	<u>4C</u>	
King	Carpenters	Scaffold Erector	\$60.04	<u>5D</u>	<u>4C</u>	
King	Cement Masons	Journey Level	\$60.07	<u>7A</u>	<u>4U</u>	
King	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$113.60	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Dive Supervisor/Master	\$76.33	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Diver	\$113.60	<u>5D</u>	<u>4C</u>	<u>8V</u>
King	Divers & Tenders	Diver On Standby	\$71.33	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Diver Tender	\$64.71	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Manifold Operator	\$64.71	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Manifold Operator Mixed Gas	\$69.71	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$64.71	<u>5D</u>	<u>4C</u>	
King	Divers & Tenders		\$60.29	<u>5A</u>	<u>4C</u>	

		Remote Operated Vehicle Tender				
King	Dredge Workers	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
King	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
King	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
King	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
King	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
King	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
King	Dredge Workers	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
King	Drywall Applicator	Journey Level	\$58.48	<u>5D</u>	<u>1H</u>	
King	Drywall Tapers	Journey Level	\$59.32	<u>5P</u>	<u>1E</u>	
King	Electrical Fixture Maintenance Workers	Journey Level	\$28.99	<u>5L</u>	<u>1E</u>	
King	Electricians - Inside	Cable Splicer	\$77.51	<u>7C</u>	<u>4E</u>	
King	Electricians - Inside	Cable Splicer (tunnel)	\$82.84	<u>7C</u>	<u>4E</u>	
King	Electricians - Inside	Certified Welder	\$74.90	<u>7C</u>	<u>4E</u>	
King	Electricians - Inside	Certified Welder (tunnel)	\$80.37	<u>7C</u>	<u>4E</u>	
King	Electricians - Inside	Construction Stock Person	\$39.69	<u>7C</u>	<u>4E</u>	
King	Electricians - Inside	Journey Level	\$72.30	<u>7C</u>	<u>4E</u>	
King	Electricians - Inside	Journey Level (tunnel)	\$77.51	<u>7C</u>	<u>4E</u>	
King	Electricians - Motor Shop	Journey Level	\$45.08	<u>5A</u>	<u>1B</u>	
King	Electricians - Powerline Construction	Cable Splicer	\$79.43	<u>5A</u>	<u>4D</u>	
King	Electricians - Powerline Construction	Certified Line Welder	\$69.75	<u>5A</u>	<u>4D</u>	
King	Electricians - Powerline Construction	Groundperson	\$46.28	<u>5A</u>	<u>4D</u>	
King	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$69.75	<u>5A</u>	<u>4D</u>	
King	Electricians - Powerline Construction	Journey Level Lineperson	\$69.75	<u>5A</u>	<u>4D</u>	
King	Electricians - Powerline Construction	Line Equipment Operator	\$59.01	<u>5A</u>	<u>4D</u>	
King	Electricians - Powerline Construction	Meter Installer	\$46.28	<u>5A</u>	<u>4D</u>	<u>8W</u>
King	Electricians - Powerline Construction	Pole Sprayer	\$69.75	<u>5A</u>	<u>4D</u>	
King	Electricians - Powerline Construction	Powderperson	\$52.20	<u>5A</u>	<u>4D</u>	
King	Electronic Technicians	Journey Level	\$48.06	<u>7E</u>	<u>1E</u>	
King	Elevator Constructors	Mechanic	\$91.24	<u>7D</u>	<u>4A</u>	
King	Elevator Constructors	Mechanic In Charge	\$98.51	<u>7D</u>	<u>4A</u>	
King	Fabricated Precast Concrete Products	All Classifications - In-Factory Work Only	\$17.72	<u>5B</u>	<u>1R</u>	
King	Fence Erectors	Fence Erector	\$41.45	<u>7A</u>	<u>3I</u>	
King	Fence Erectors	Fence Laborer	\$41.45	<u>7A</u>	<u>3I</u>	
King	Flaggers	Journey Level	\$41.45	<u>7A</u>	<u>3I</u>	
King	Glaziers	Journey Level	\$63.06	<u>7L</u>	<u>1Y</u>	

King	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$73.58	<u>5J</u>	<u>4H</u>	
King	Heating Equipment Mechanics	Journey Level	\$82.51	<u>7F</u>	<u>1E</u>	
King	Hod Carriers & Mason Tenders	Journey Level	\$50.42	<u>7A</u>	<u>3I</u>	
King	Industrial Power Vacuum Cleaner	Journey Level	\$12.00		<u>1</u>	
King	Inland Boatmen	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>	
King	Inland Boatmen	Cook	\$56.48	<u>5B</u>	<u>1K</u>	
King	Inland Boatmen	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>	
King	Inland Boatmen	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>	
King	Inland Boatmen	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>	
King	Inland Boatmen	Mate	\$57.31	<u>5B</u>	<u>1K</u>	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$31.49		<u>1</u>	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$12.00		<u>1</u>	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$24.91		<u>1</u>	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$19.33		<u>1</u>	
King	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$20.45		<u>1</u>	
King	Insulation Applicators	Journey Level	\$60.04	<u>5D</u>	<u>4C</u>	
King	Ironworkers	Journeyman	\$69.28	<u>7N</u>	<u>1O</u>	
King	Laborers	Air, Gas Or Electric Vibrating Screed	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Airtrac Drill Operator	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Ballast Regular Machine	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Batch Weighman	\$41.45	<u>7A</u>	<u>3I</u>	
King	Laborers	Brick Pavers	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Brush Cutter	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Brush Hog Feeder	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Burner	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Caisson Worker	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Carpenter Tender	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Caulker	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Cement Dumper-paving	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Cement Finisher Tender	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Change House Or Dry Shack	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Chipping Gun (under 30 Lbs.)	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Chipping Gun(30 Lbs. And Over)	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Choker Setter	\$48.90	<u>7A</u>	<u>3I</u>	

King	Laborers	Chuck Tender	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Clary Power Spreader	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Clean-up Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Concrete Dumper/chute Operator	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Concrete Form Stripper	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Concrete Placement Crew	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Concrete Saw Operator/core Driller	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Crusher Feeder	\$41.45	<u>7A</u>	<u>3I</u>	
King	Laborers	Curing Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Ditch Digger	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Diver	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Drill Operator (hydraulic, diamond)	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Dry Stack Walls	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Dump Person	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Epoxy Technician	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Erosion Control Worker	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Faller & Bucker Chain Saw	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Fine Graders	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Firewatch	\$41.45	<u>7A</u>	<u>3I</u>	
King	Laborers	Form Setter	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Gabian Basket Builders	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	General Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Grade Checker & Transit Person	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Grinders	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Grout Machine Tender	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Groutmen (pressure)including Post Tension Beams	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Guardrail Erector	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Hazardous Waste Worker (level A)	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Hazardous Waste Worker (level B)	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Hazardous Waste Worker (level C)	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	High Scaler	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Jackhammer	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Laserbeam Operator	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Maintenance Person	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Manhole Builder-mudman	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Material Yard Person	\$48.90	<u>7A</u>	<u>3I</u>	

King	Laborers	Motorman-dinky Locomotive	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Guniting, Shotcrete, Water Bla	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Pavement Breaker	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Pilot Car	\$41.45	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Layer Lead	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Layer/tailor	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Pot Tender	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Reliner	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Pipe Wrapper	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Pot Tender	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Powderman	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Powderman's Helper	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Power Jacks	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Railroad Spike Puller - Power	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Raker - Asphalt	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Re-timberman	\$50.42	<u>7A</u>	<u>3I</u>	
King	Laborers	Remote Equipment Operator	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Rigger/signal Person	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Rip Rap Person	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Rivet Buster	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Rodder	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Scaffold Erector	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Scale Person	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Sloper (over 20")	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Sloper Sprayer	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Spreader (concrete)	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Stake Hopper	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Stock Piler	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Tamper (multiple & Self-propelled)	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Toolroom Person (at Jobsite)	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Topper	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Track Laborer	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Track Liner (power)	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Traffic Control Laborer	\$44.33	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	Laborers	Traffic Control Supervisor	\$44.33	<u>7A</u>	<u>3I</u>	<u>8R</u>
King	Laborers	Truck Spotter	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Tugger Operator	\$49.81	<u>7A</u>	<u>3I</u>	

King	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$107.60	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$112.63	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$116.31	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$122.01	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$124.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$129.23	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$131.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$133.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$135.13	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Guage and Lock Tender	\$50.52	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Tunnel Work-Miner	\$50.52	<u>7A</u>	<u>3I</u>	<u>8Q</u>
King	Laborers	Vibrator	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Vinyl Seamer	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers	Watchman	\$37.67	<u>7A</u>	<u>3I</u>	
King	Laborers	Welder	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Well Point Laborer	\$49.81	<u>7A</u>	<u>3I</u>	
King	Laborers	Window Washer/cleaner	\$37.67	<u>7A</u>	<u>3I</u>	
King	Laborers - Underground Sewer & Water	General Laborer & Topman	\$48.90	<u>7A</u>	<u>3I</u>	
King	Laborers - Underground Sewer & Water	Pipe Layer	\$49.81	<u>7A</u>	<u>3I</u>	
King	Landscape Construction	Landscape Laborer	\$37.67	<u>7A</u>	<u>3I</u>	
King	Landscape Construction	Landscape Operator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Lathers	Journey Level	\$58.48	<u>5D</u>	<u>1H</u>	
King	Marble Setters	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
King	Metal Fabrication (In Shop)	Fitter	\$15.86		<u>1</u>	
King	Metal Fabrication (In Shop)	Laborer	\$12.00		<u>1</u>	
King	Metal Fabrication (In Shop)	Machine Operator	\$13.04		<u>1</u>	
King	Metal Fabrication (In Shop)	Painter	\$12.00		<u>1</u>	
King	Metal Fabrication (In Shop)	Welder	\$15.48		<u>1</u>	
King	Millwright	Journey Level	\$61.54	<u>5D</u>	<u>4C</u>	
King	Modular Buildings	Cabinet Assembly	\$12.00		<u>1</u>	
King	Modular Buildings	Electrician	\$12.00		<u>1</u>	
King	Modular Buildings	Equipment Maintenance	\$12.00		<u>1</u>	
King	Modular Buildings	Plumber	\$12.00		<u>1</u>	
King	Modular Buildings	Production Worker	\$12.00		<u>1</u>	
King	Modular Buildings	Tool Maintenance	\$12.00		<u>1</u>	
King	Modular Buildings	Utility Person	\$12.00		<u>1</u>	

King	Modular Buildings	Welder	\$12.00		<u>1</u>	
King	Painters	Journey Level	\$42.50	<u>6Z</u>	<u>2B</u>	
King	Pile Driver	Crew Tender	\$54.99	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$74.87	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$79.87	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$83.87	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$88.87	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$91.37	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$96.37	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$98.37	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$100.37	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$102.37	<u>5D</u>	<u>4C</u>	
King	Pile Driver	Journey Level	\$60.29	<u>5D</u>	<u>4C</u>	
King	Plasterers	Journey Level	\$56.54	<u>7Q</u>	<u>1R</u>	
King	Playground & Park Equipment Installers	Journey Level	\$12.00		<u>1</u>	
King	Plumbers & Pipefitters	Journey Level	\$83.69	<u>6Z</u>	<u>1G</u>	
King	Power Equipment Operators	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators		\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Concrete Pump: Truck Mount With Boom Attachment Over 42 M				
King	Power Equipment Operators	Concrete Finish Machine -laser Scream	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Deck Engineer /deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators		\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Tower Crane: over 175' through 250' in height, base to boom			
King	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Welder	\$60.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Bobcat	\$56.90	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Brooms	\$56.90	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cableways	\$60.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Chipper	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Compressor	\$56.90	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u> <u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u> <u>8P</u>
King		Conveyors	\$59.49	<u>7A</u>	<u>3C</u> <u>8P</u>

	Power Equipment Operators-Underground Sewer & Water					
King	Power Equipment Operators-Underground Sewer & Water	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

King	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King			\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)				
King	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators-Underground Sewer & Water		\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons				
King	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$49.96	<u>5A</u>	<u>4A</u>	
King	Power Line Clearance Tree Trimmers	Spray Person	\$47.37	<u>5A</u>	<u>4A</u>	
King	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$49.96	<u>5A</u>	<u>4A</u>	
King	Power Line Clearance Tree Trimmers	Tree Trimmer	\$44.57	<u>5A</u>	<u>4A</u>	
King	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$33.60	<u>5A</u>	<u>4A</u>	
King	Refrigeration & Air Conditioning Mechanics	Journey Level	\$79.51	<u>6Z</u>	<u>1G</u>	
King	Residential Brick Mason	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
King	Residential Carpenters	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
King	Residential Cement Masons	Journey Level	\$60.07	<u>7A</u>	<u>4U</u>	

King	Residential Drywall Applicators	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
King	Residential Drywall Tapers	Journey Level	\$45.19	<u>5P</u>	<u>1E</u>	
King	Residential Electricians	Journey Level	\$37.26	<u>5Q</u>	<u>2O</u>	
King	Residential Glaziers	Journey Level	\$42.05	<u>7L</u>	<u>1H</u>	
King	Residential Insulation Applicators	Journey Level	\$45.05	<u>5D</u>	<u>4C</u>	
King	Residential Laborers	Journey Level	\$36.68	<u>7A</u>	<u>1H</u>	
King	Residential Marble Setters	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
King	Residential Painters	Journey Level	\$42.50	<u>6Z</u>	<u>2B</u>	
King	Residential Plumbers & Pipefitters	Journey Level	\$51.37	<u>5A</u>	<u>1G</u>	
King	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$51.37	<u>5A</u>	<u>1G</u>	
King	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$50.01	<u>7F</u>	<u>1R</u>	
King	Residential Soft Floor Layers	Journey Level	\$49.43	<u>5A</u>	<u>3J</u>	
King	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$46.58	<u>5C</u>	<u>2R</u>	
King	Residential Stone Masons	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
King	Residential Terrazzo Workers	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
King	Residential Terrazzo/Tile Finishers	Journey Level	\$43.44	<u>5A</u>	<u>1B</u>	
King	Residential Tile Setters	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
King	Roofers	Journey Level	\$51.52	<u>5A</u>	<u>3H</u>	
King	Roofers	Using Irritable Bituminous Materials	\$54.52	<u>5A</u>	<u>3H</u>	
King	Sheet Metal Workers	Journey Level (Field or Shop)	\$82.51	<u>7F</u>	<u>1E</u>	
King	Shipbuilding & Ship Repair	New Construction Boilermaker	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Carpenter	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Crane Operator	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Electrician	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	\$73.58	<u>5J</u>	<u>4H</u>	
King	Shipbuilding & Ship Repair	New Construction Laborer	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Machinist	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Operating Engineer	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Painter	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Pipefitter	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Rigger	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Sheet Metal	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Shipfitter	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	\$36.36	<u>7V</u>	<u>1</u>	
King	Shipbuilding & Ship Repair	New Construction Welder / Burner	\$36.36	<u>7V</u>	<u>1</u>	

King	Shipbuilding & Ship Repair	Ship Repair Boilermaker	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Carpenter	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Crane Operator	\$44.06	<u>7Y</u>	<u>4K</u>	
King	Shipbuilding & Ship Repair	Ship Repair Electrician	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	\$73.58	<u>5J</u>	<u>4H</u>	
King	Shipbuilding & Ship Repair	Ship Repair Laborer	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Machinist	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Operating Engineer	\$44.06	<u>7Y</u>	<u>4K</u>	
King	Shipbuilding & Ship Repair	Ship Repair Painter	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Pipefitter	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Rigger	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Sheet Metal	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Shipwright	\$44.95	<u>7X</u>	<u>4J</u>	
King	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	\$44.06	<u>7Y</u>	<u>4K</u>	
King	Sign Makers & Installers (Electrical)	Journey Level	\$49.70	<u>0</u>	<u>1</u>	
King	Sign Makers & Installers (Non-Electrical)	Journey Level	\$31.52	<u>0</u>	<u>1</u>	
King	Soft Floor Layers	Journey Level	\$49.43	<u>5A</u>	<u>3J</u>	
King	Solar Controls For Windows	Journey Level	\$12.44		<u>1</u>	
King	Sprinkler Fitters (Fire Protection)	Journey Level	\$77.39	<u>5C</u>	<u>1X</u>	
King	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.23		<u>1</u>	
King	Stone Masons	Journey Level	\$57.32	<u>5A</u>	<u>1M</u>	
King	Street And Parking Lot Sweeper Workers	Journey Level	\$19.09		<u>1</u>	
King	Surveyors	Assistant Construction Site Surveyor	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Surveyors	Chainman	\$58.93	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Surveyors	Construction Site Surveyor	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
King	Telecommunication Technicians	Journey Level	\$48.06	<u>7E</u>	<u>1E</u>	
King	Telephone Line Construction - Outside	Cable Splicer	\$41.22	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$23.12	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Installer (Repairer)	\$39.53	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Special Aparatus Installer I	\$41.22	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Special Apparatus Installer II	\$40.41	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$41.22	<u>5A</u>	<u>2B</u>	
King			\$38.36	<u>5A</u>	<u>2B</u>	

	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)				
King	Telephone Line Construction - Outside	Telephone Lineperson	\$38.36	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Television Groundperson	\$21.92	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Television Lineperson/Installer	\$29.13	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Television System Technician	\$34.68	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Television Technician	\$31.18	<u>5A</u>	<u>2B</u>	
King	Telephone Line Construction - Outside	Tree Trimmer	\$38.36	<u>5A</u>	<u>2B</u>	
King	Terrazzo Workers	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
King	Tile Setters	Journey Level	\$52.61	<u>5A</u>	<u>1M</u>	
King	Tile, Marble & Terrazzo Finishers	Finisher	\$43.44	<u>5A</u>	<u>1B</u>	
King	Traffic Control Stripers	Journey Level	\$45.53	<u>7A</u>	<u>1K</u>	
King	Truck Drivers	Asphalt Mix Over 16 Yards	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	Truck Drivers	Asphalt Mix To 16 Yards	\$53.46	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	Truck Drivers	Dump Truck	\$53.46	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	Truck Drivers	Dump Truck & Trailer	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	Truck Drivers	Other Trucks	\$54.30	<u>5D</u>	<u>3A</u>	<u>8L</u>
King	Truck Drivers - Ready Mix	Booster 9 Yards and Over	\$52.78	<u>5A</u>	<u>4T</u>	
King	Truck Drivers - Ready Mix	Non-Booster Loads Under 9 Cubic Yards	\$52.53	<u>5A</u>	<u>4T</u>	
King	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$17.71		<u>1</u>	
King	Well Drillers & Irrigation Pump Installers	Oiler	\$12.97		<u>1</u>	
King	Well Drillers & Irrigation Pump Installers	Well Driller	\$18.00		<u>1</u>	

Benefit Code Key – Effective 8/31/2018 thru 3/2/2019

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

- I. 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.

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.

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.
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
 - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
 - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal 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.
- R. Placeholder

Holiday Codes

- 5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

Holiday Codes Continued

- 5. 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).

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

Holiday Codes Continued

6. T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

- 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

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observed as a holiday on the preceding Friday.

7. J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- 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.
- 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.

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Holiday Codes Continued

7. W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.
- X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.
- Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.
- Z. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
15. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8) Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- B. Holidays: New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. (9)
- C. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the day before Christmas Day and Christmas Day. (8)
- D. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, and the day after Christmas.

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.

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Note Codes Continued

8. 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.
- 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.

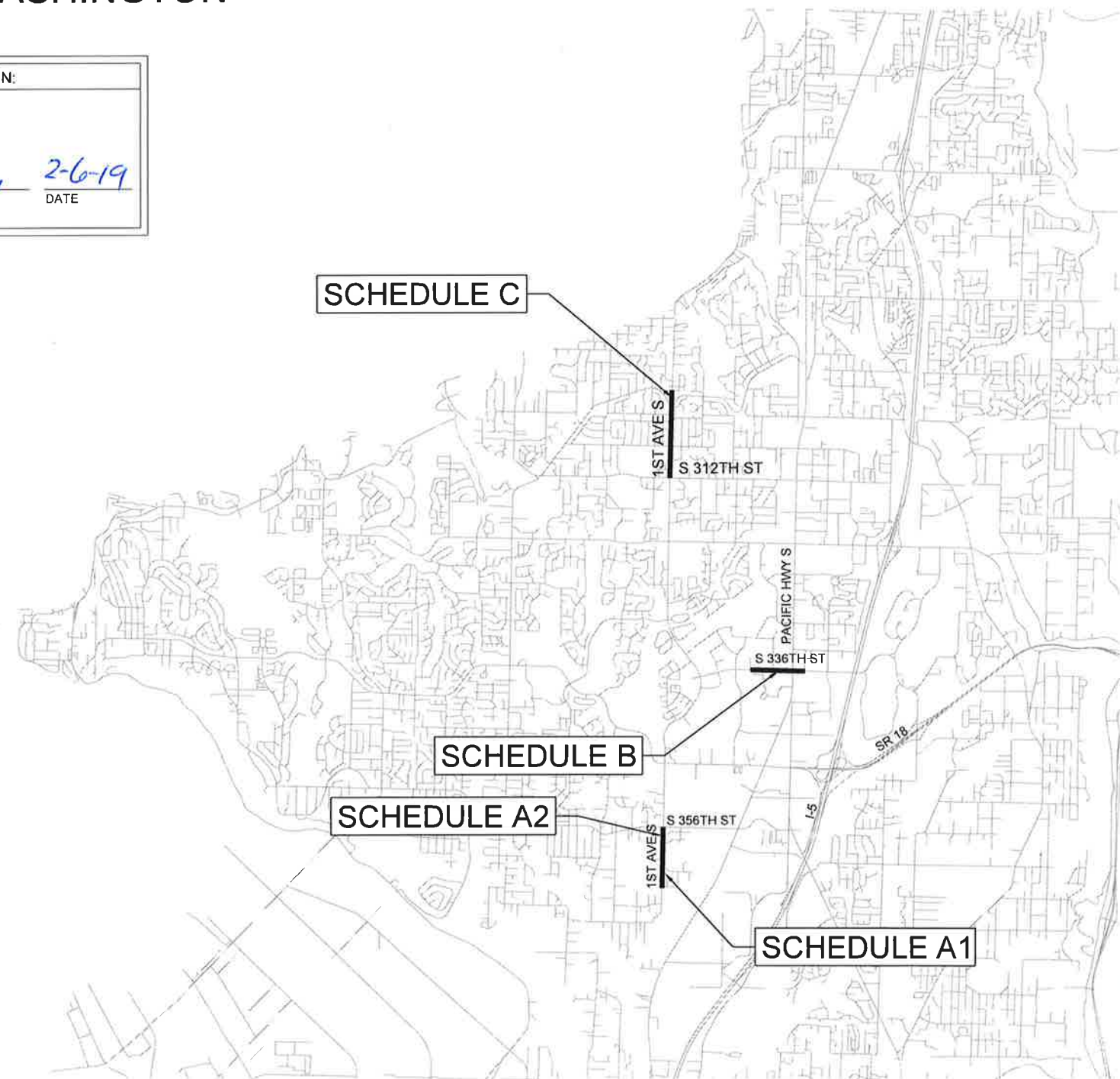
2019 ASPHALT OVERLAY PROJECT

CITY OF FEDERAL WAY
DEPARTMENT OF PUBLIC WORKS
FEDERAL WAY, WASHINGTON



APPROVED FOR CONSTRUCTION:
Desiree S. Winkler 2-6-19
DESIREE S. WINKLER, P.E. DATE
DEPUTY PUBLIC WORKS DIRECTOR

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03	A01	SITE PREPARATION & PAVING PLAN
04	A02	SITE PREPARATION & PAVING PLAN
05	A03	CURB RAMP DETAILS
06	A04	CURB RAMP DETAILS
07	A05	CURB RAMP DETAILS
08	A06	CURB RAMP DETAILS
09	A07	CURB RAMP DETAILS
10	A08	CURB RAMP DETAILS
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36	C11	CHANNELIZATION PLAN
37	SD01	PAVEMENT REPAIR, PLANING, & OVERLAY DETAILS
38	SD02	PAVEMENT REPAIR, PLANING, & OVERLAY DETAILS
39	SD03	PAVEMENT REPAIR, PLANING, & OVERLAY DETAILS
40	SD04	PAVEMENT REPAIR, PLANING, & OVERLAY DETAILS
41	TC01	TRAFFIC CONTROL DETAILS
42	TC02	TRAFFIC CONTROL DETAILS



Rev on: 2/6/2019 8:29 AM
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 Rev/Proc by: Paul Hedder

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#	DATE	DESCRIPTION
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2019 ASPHALT OVERLAY PROJECT

GENERAL SHEETS

VICINITY MAP & SHEET INDEX

RFB #:
 19-001
G01
 SHEET 01 OF 42

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 Rev/Plck by: Paul Heider
 Parent Sheet Set: 2019 Overlay

NOTE:

CONTRACTOR TO INCLUDE FOLLOWING WORK IN BID

1. ADJUST ALL STORM DRAINAGE MH'S, CB'S, MONUMENT BOXES AND OTHER STRUCTURES NOTED IN THE PLANS TO FINAL PAVEMENT GRADE AFTER OVERLAY. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL OTHER UTILITY APPURTENANCES IN THE AREAS TO BE PAVED.
2. LOCATION AND LIMITS OF CURB RAMPS TO BE DETERMINED BY ENGINEER IN THE FIELD.
3. CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE TO PROPERTY OWNERS TO ALLOW PARKING AND ACCESS TO RESIDENCES DURING PLANING AND PAVING OPERATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND LAYING OUT ALL CHANNELIZATION WHICH SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO VARIOUS BID ITEMS OF THE CONTRACT.
5. CONTRACTOR SHALL COORDINATE WORK WITH THE LOCAL GARBAGE DISPOSAL COMPANY TO AVOID CONFLICT.
6. CONTRACTOR SHALL COORDINATE WORK WITH TRANSIT PROVIDERS TO AVOID CONFLICT.




CHANNELIZATION NOTES:

- 1 PLASTIC CROSSWALK LINE
- 2 PLASTIC STOP LINE
- 3 PLASTIC TRAFFIC ARROW
- 4 HYDRANT MARKER, TYPE 2B
- 5 PLASTIC YIELD AHEAD SYMBOL
- 6 PLASTIC TRAFFIC LETTER

LEGEND


- C/G = EXISTING CURB & GUTTER
- EP = EXISTING EDGE OF PAVEMENT
- TE = EXISTING THICKENED EDGE
- ⊗ = MONUMENT CASE
- ⊙ = EXISTING FIRE HYDRANT
- ⊕ = EXISTING STORM DRAIN CATCH BASIN
- ⊗ = EXISTING MANHOLE
- ⊕ = EXISTING STORM DRAIN MANHOLE
- ⊕ = EXISTING JUNCTION BOX
- = INLET PROTECTION
- * = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

SITE PREPARATION AND CONSTRUCTION NOTES:

- 1  = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0' AT DISTANCE DIRECTED BY ENGINEER.
- 2  = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER.
- 3  = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
- 4 SOD, INCL. 4" TOPSOIL
- 5 SAWCUT ASPHALT PAVEMENT
- 6 SAWCUT CEMENT CONCRETE
- 7 CONVERT SQUARE LID & FRAME TO ROUND AND ADJUST TO GRADE
- 8 ADJUST MANHOLE
- 9 ADJUST CATCH BASIN
- 10 ADJUST MONUMENT CASE AND COVER
- 11 A CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
- 11 B CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
- 11 C CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
- 11 D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
- 12 CEMENT CONC. APPROACH
- 13 CEMENT CONC. CURB AND GUTTER
- 14 CEMENT CONC. SIDEWALK
- 15 DETECTOR LOOP
- 16 ADJUST UTILITY BY OTHER
- 17 REPLACE EXISTING FRAME AND GRATE WITH ERGO FRAME LID WITH AN IMPACT RISER AND ADJUST TO FINISHED GRADE (BOTH PROVIDED BY CITY)
- 18 RE-GROUT CATCH BASIN
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2019 ASPHALT OVERLAY PROJECT

GENERAL SHEETS

 GENERAL NOTES & LEGEND

RFB #:
 19-001
G02
 SHT 02 OF 42

BEGIN OVERLAY A1

Sta. -0+60

Sta. -0+60
Begin Planing Bituminous
Pavement (Butt Joint)
R #1

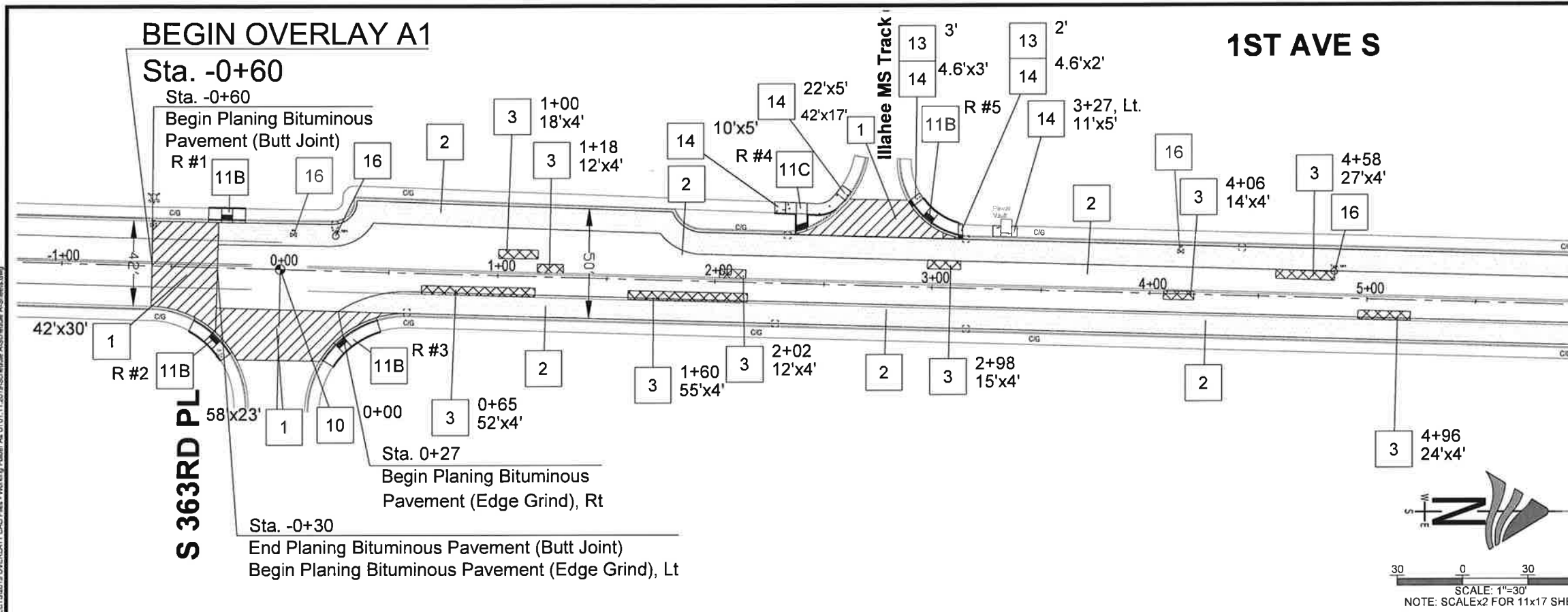
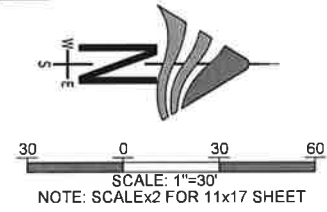
1ST AVE S

Illaha MS Track

SITE PREPARATION AND CONSTRUCTION NOTES:

- 1 [Hatched Box] = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER.
- 2 [Dotted Box] = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER.
- 3 [Cross-hatched Box] = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
- 4 SOD, INCL. 4" TOPSOIL
- 5 SAWCUT ASPHALT PAVEMENT
- 6 SAWCUT CEMENT CONCRETE
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- 11 B CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
- 11 C CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
- 11 D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
- 12 CEMENT CONC. APPROACH
- 13 CEMENT CONC. CURB AND GUTTER
- 14 CEMENT CONC. SIDEWALK
- 15 DETECTOR LOOP
- 16 ADJUST UTILITY BY OTHER
- 17 REPLACE EXISTING FRAME AND GRATE WITH ERGO FRAME LID WITH AN IMPACT RISER AND ADJUST TO FINISHED GRADE (BOTH PROVIDED BY CITY)
- 18 RE-GROUT CATCH BASIN
- 19 ADJUST UTILITY
- 20 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION INCLUDING HAUL

MATCHLINE SEE BELOW



END OVERLAY A1

Sta. 10+75

BEGIN OVERLAY A2

Sta. 10+75

1ST AVE S

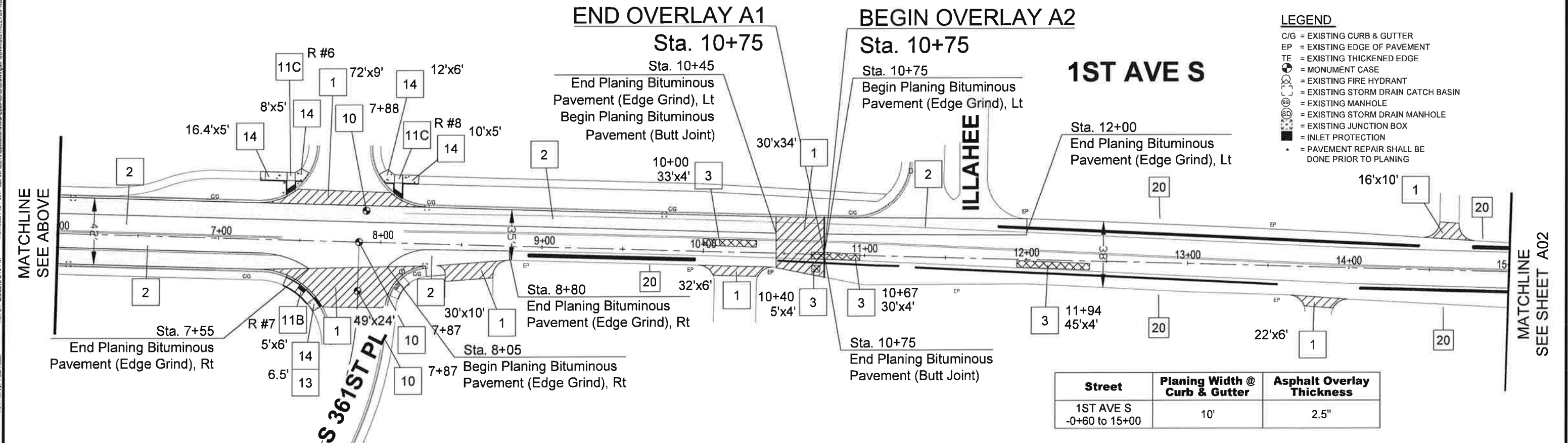
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LEGEND

- C/G = EXISTING CURB & GUTTER
- EP = EXISTING EDGE OF PAVEMENT
- TE = EXISTING THICKENED EDGE
- MC = MONUMENT CASE
- EFH = EXISTING FIRE HYDRANT
- ESDCB = EXISTING STORM DRAIN CATCH BASIN
- EMH = EXISTING MANHOLE
- ESDMH = EXISTING STORM DRAIN MANHOLE
- EJB = EXISTING JUNCTION BOX
- IP = INLET PROTECTION
- PR = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

MATCHLINE SEE ABOVE

MATCHLINE SEE SHEET A02



Street	Planing Width @ Curb & Gutter	Asphalt Overlay Thickness
1ST AVE S -0+60 to 15+00	10'	2.5"

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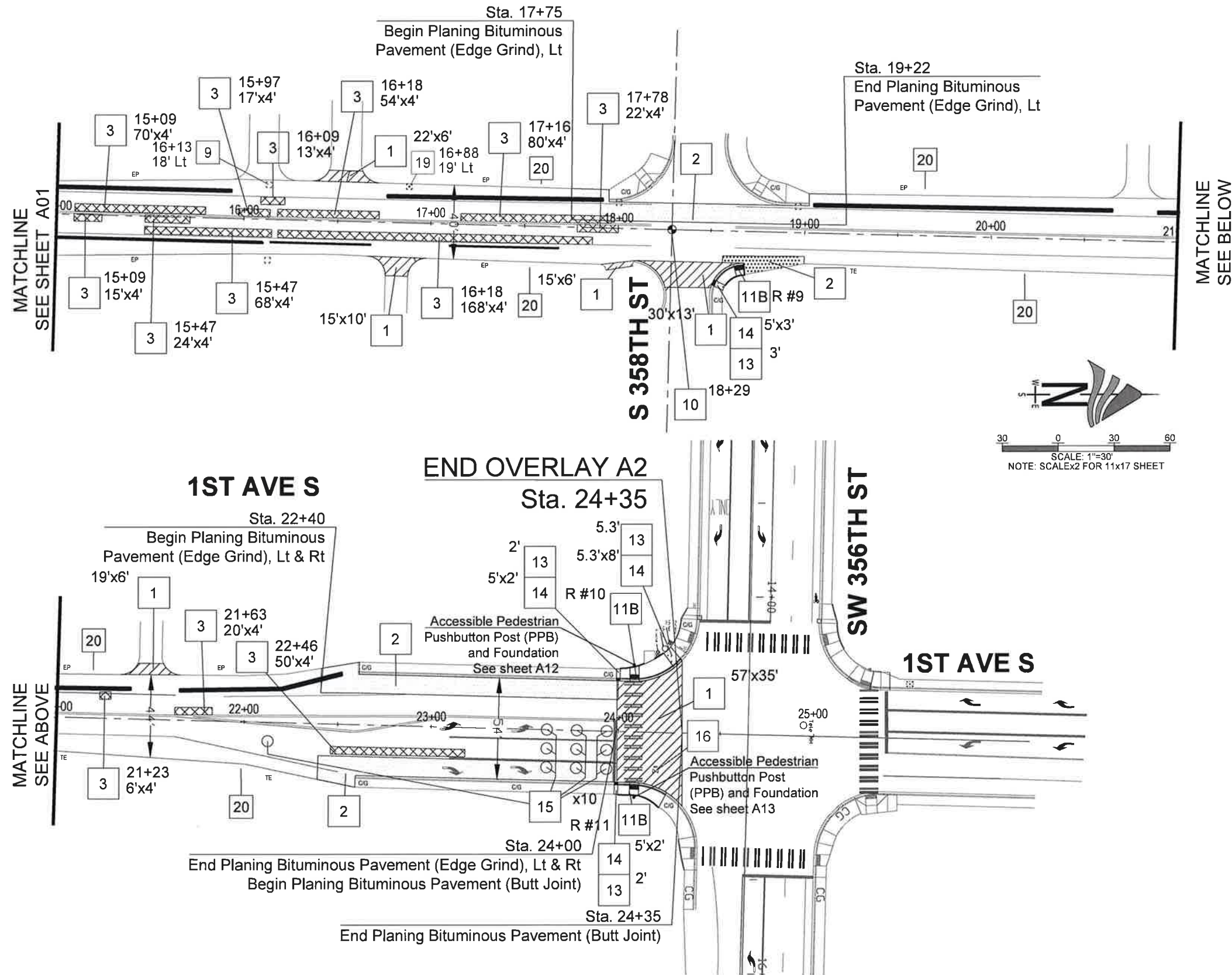
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2019 ASPHALT OVERLAY PROJECT

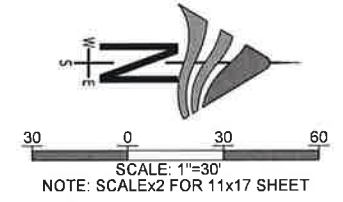
**SCHEDULE A
1ST AVE S
SITE PREPARATION & PAVING PLAN
-0+60 TO 15+00**

RFB #:
19-001
A01
SHT. 03 OF 42

Rev on: 2/5/2019 2:16 PM
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 Project: 19-001
 Drawing: 19-001-01-01.dwg
 Title: 2019 ASPHALT OVERLAY PROJECT
 Author: Paul Heider
 Parent Sheet Set: 19-001



- SITE PREPARATION AND CONSTRUCTION NOTES:**
- 1 [Pattern] = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER.
 - 2 [Pattern] = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER.
 - 3 [Pattern] = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
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 - 5 SAWCUT ASPHALT PAVEMENT
 - 6 SAWCUT CEMENT CONCRETE
 - 7 CONVERT SQUARE LID & FRAME TO ROUND AND ADJUST TO GRADE
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 - 11 A CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
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 - 11 C CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 - 11 D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. APPROACH
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- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - [Symbol] = MONUMENT CASE
 - [Symbol] = EXISTING FIRE HYDRANT
 - [Symbol] = EXISTING STORM DRAIN CATCH BASIN
 - [Symbol] = EXISTING MANHOLE
 - [Symbol] = EXISTING STORM DRAIN MANHOLE
 - [Symbol] = EXISTING JUNCTION BOX
 - [Symbol] = INLET PROTECTION
 - [Symbol] = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

Street	Planing Width @ Curb & Gutter	Asphalt Overlay Thickness
1ST AVE S 15+00 TO 24+35	10'	2.5"

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2019 ASPHALT OVERLAY PROJECT

**SCHEDULE A
1ST AVE S
SITE PREPARATION & PAVING PLAN
15+00 TO 24+35**

RFB #:
19-001

A02

SHT. 04 of 42

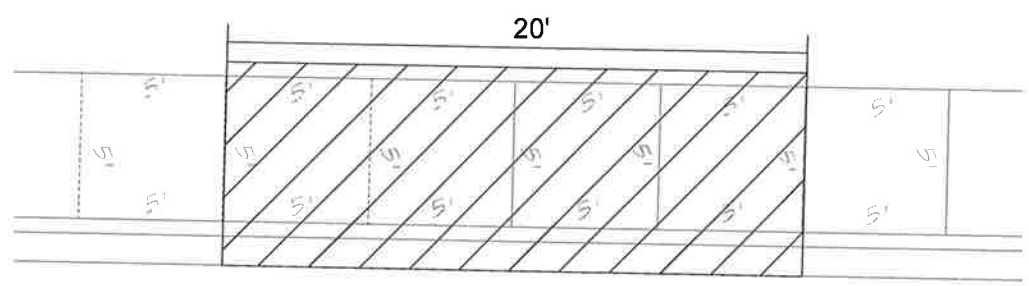
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SPOT ELEVATION CHART	
POINT	ELEVATION
A	98.90 (@ FL)
B	98.99 (@ FL)
C	99.06 (@ FL)
D	99.15 (@ FL)
E	99.38
F	99.46
G	99.00
H	99.08
I	99.07
J	99.15
K	99.64
L	99.70



Assumed Elevation
 North Edge Rim
 Mon. Case, S 363rd St.
 Elev. = 100.00



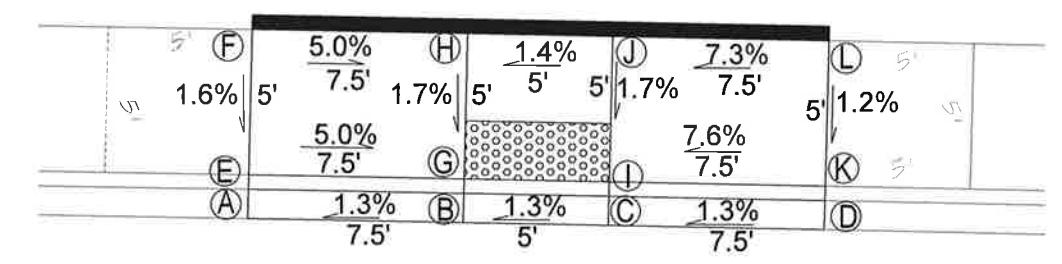
1ST AVE S



PLAN VIEW
 EXISTING SIDEWALK

S 363RD ST

WEST OF 1ST AVE S
 AND S 363RD ST
 NTS



PLAN VIEW
 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 CURB RAMP #1

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 Parent Sheet: 2019Overlay

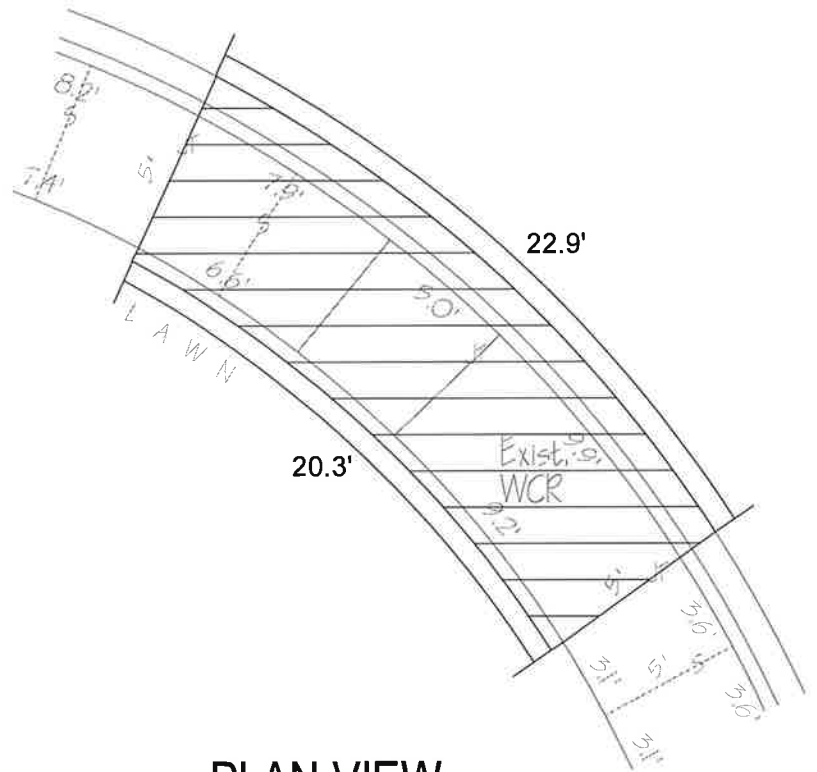
<p>CITY OF Federal Way 33325 8TH AVE. SOUTH FEDERAL WAY WASHINGTON 98003 PHONE: (253) 835-7000 FAX: (253) 835-2709 www.CityOfFederalWay.com</p>	PROJECT ENG: Jeff Huynh PHONE #: 253-835-2721 EMAIL: jeff.huynh@cityoffederalway.com	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 ——— 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		DRAWING VERSION / REVISION LOG <table border="1"> <thead> <tr> <th>#</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0.5</td> <td>2/5/2019</td> <td>INITIAL DESIGN</td> </tr> </tbody> </table>	#	DATE	DESCRIPTION	0.5	2/5/2019	INITIAL DESIGN	<p style="text-align: center;">2019 ASPHALT OVERLAY PROJECT</p>	SCHEDULE A 1ST AVE S	RFB #: 19-001
	#	DATE	DESCRIPTION										
0.5	2/5/2019	INITIAL DESIGN											
<p style="text-align: center;">CURB RAMP DETAILS WEST OF 1ST AVE S AND S 363RD ST</p>						A03 SHT. 05 of 42							

CURB RAMP #2	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	98.61 (@ FL)
B	98.55 (@ FL)
C	98.45 (@ FL)
D	98.25 (@ FL)
E	99.07
F	99.12
G	98.56
H	98.64
I	98.46
J	98.54
K	98.54
L	98.62



JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint

Assumed Elevation
 North Edge Rim
 Mon. Case, S 363rd St.
 Elev. = 100.00

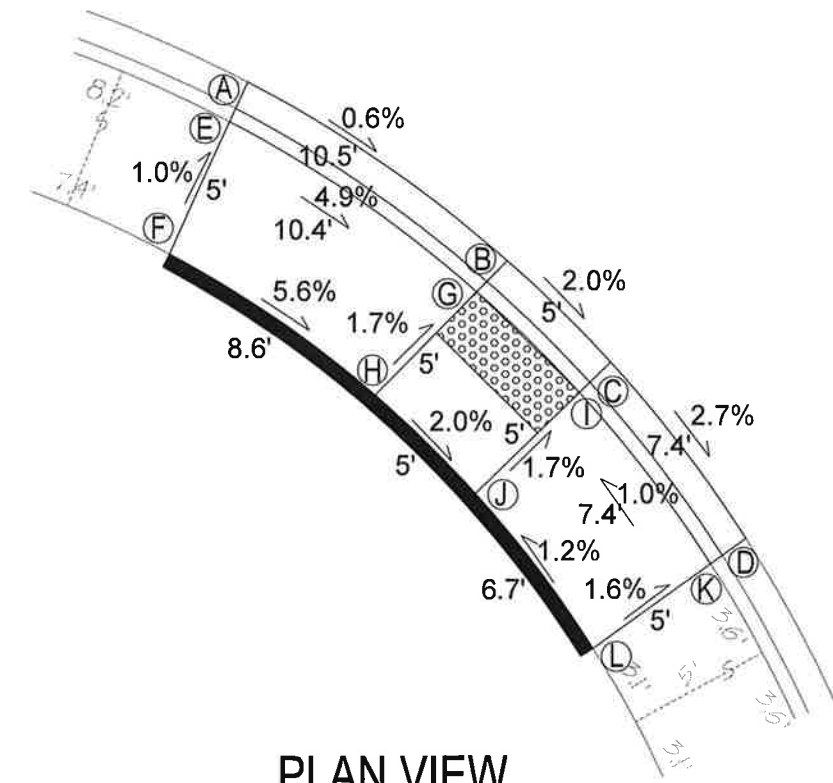


PLAN VIEW
 EXISTING CURB RAMP

1ST AVE S

S 363RD ST

SE CORNER OF 1ST AVE S
 AND S 363RD ST
 NTS



PLAN VIEW
 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 CURB RAMP #2

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2019 ASPHALT OVERLAY PROJECT

SCHEDULE A
 1ST AVE S
 CURB RAMP DETAILS
 SE CORNER OF 1ST AVE S & S 363RD ST

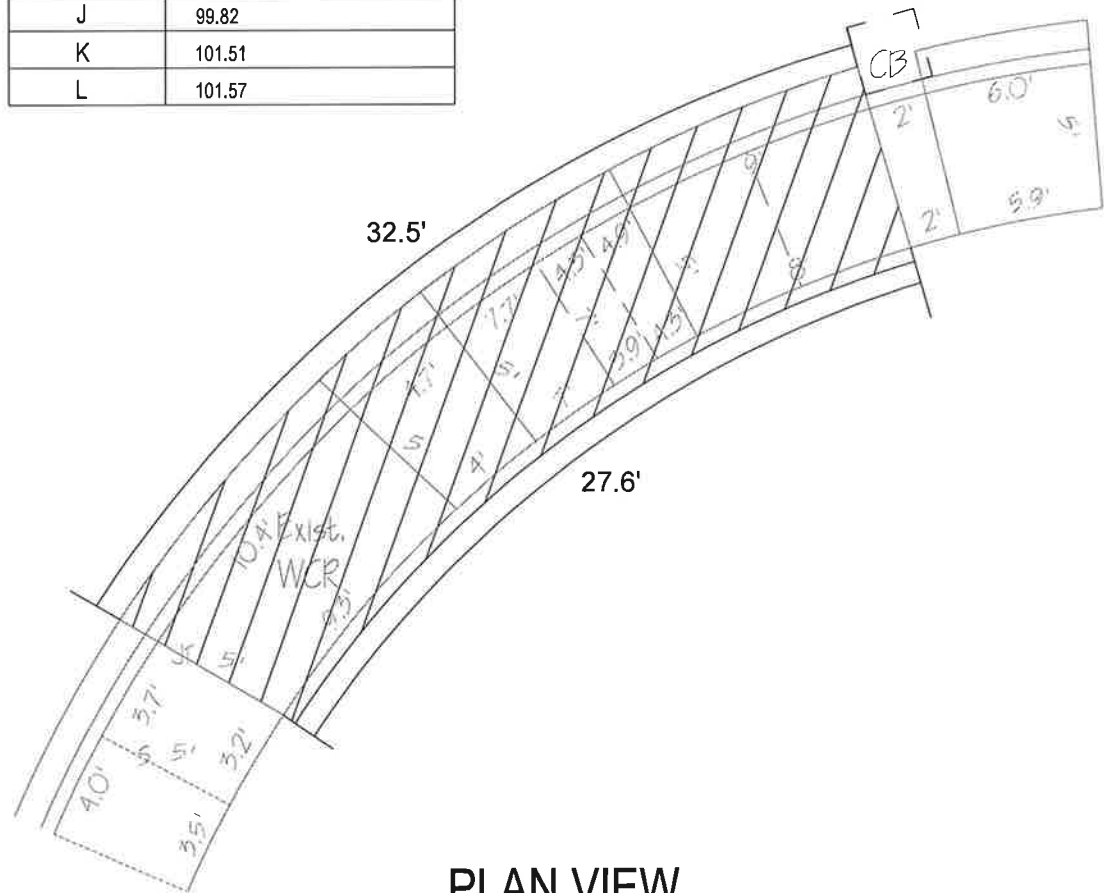
RFB #:
 19-001
 A04
 SHT. 06 OF 42

CURB RAMP #3	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	99.23 (@ FL)
B	99.51 (@ FL)
C	99.73 (@ FL)
D	101.03 (@ FL)
E	99.61
F	99.65
G	99.52
H	99.60
I	99.74
J	99.82
K	101.51
L	101.57



JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint

Assumed Elevation
 North Edge Rim
 Mon. Case, S 363rd St.
 Elev. = 100.00

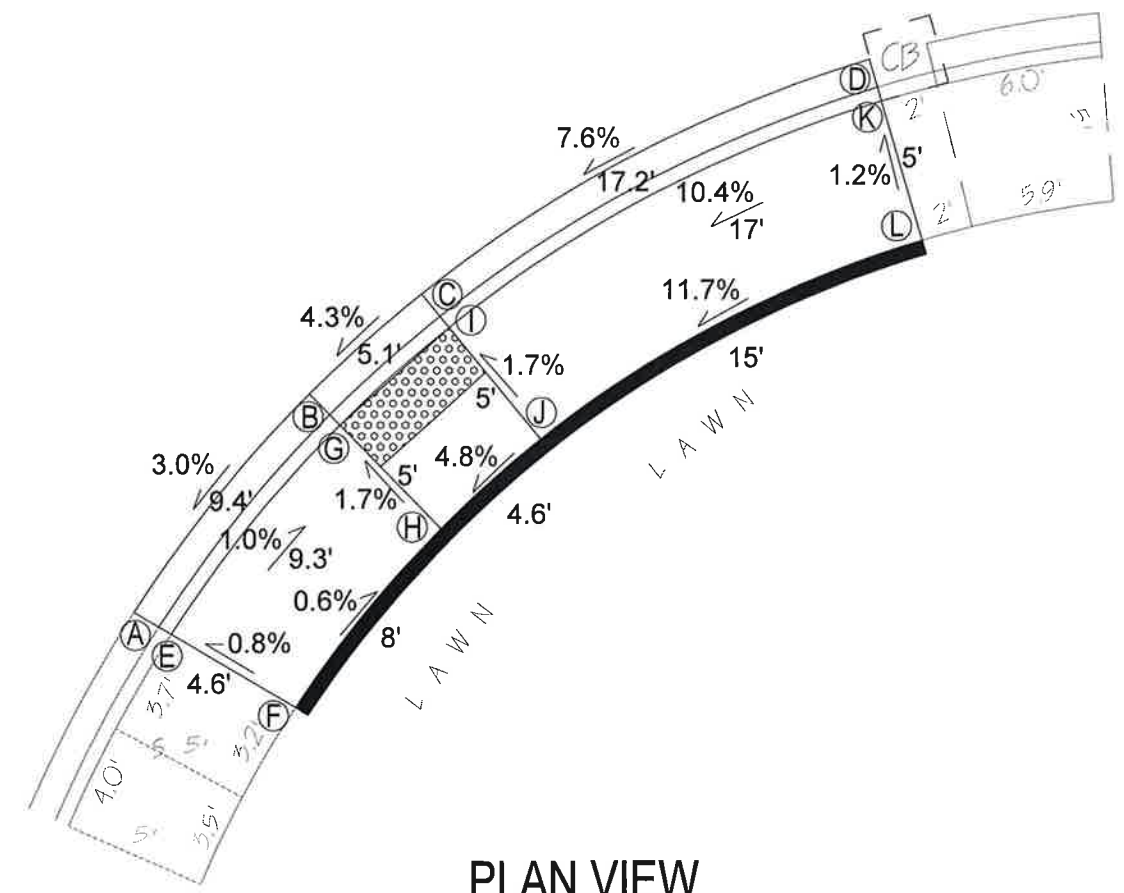


PLAN VIEW
 EXISTING CURB RAMP

1ST AVE S

S 363RD ST

NE CORNER OF 1ST AVE S
 AND S 363RD ST
 NTS



PLAN VIEW
 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 CURB RAMP #3

Individual File Path: U:\CITY\FILE\1\Applications\Mapas\ACAD\Drawings\PROJECTS\2019 OVERLAY\CAD Files - Working Folder As D\01.11.2019\Schedule A\Schedule A-Sheets.dwg
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 Rev/Plot by: Paul Heller

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2019 ASPHALT
 OVERLAY PROJECT

SCHEDULE A
 1ST AVE S

CURB RAMP DETAILS
 NE CORNER OF 1ST AVE S & S 363RD ST

RFB #:
 19-001

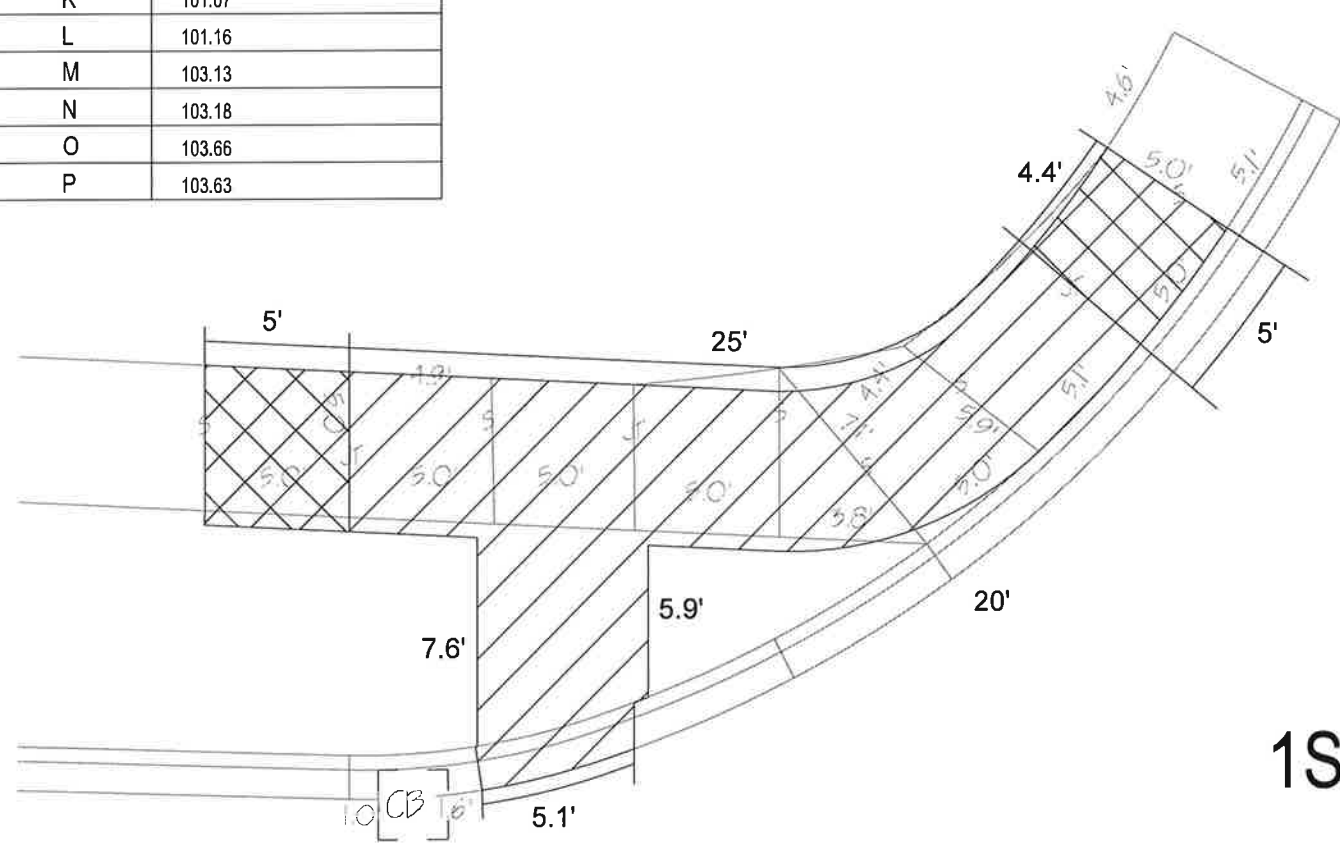
A05

SHT. 07 OF 42

CURB RAMP #4	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	100.15 (@ FL)
B	100.57 (@ FL)
C	100.89
D	101.24
E	100.93
F	101.02
G	100.19
H	100.78
I	100.87
J	100.61
K	101.07
L	101.16
M	103.13
N	103.18
O	103.66
P	103.63



JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint
 Assumed Elevation
 FL CB on South West
 Corner Bench Mark
 Elev. = 100.00



PLAN VIEW
EXISTING SIDEWALK

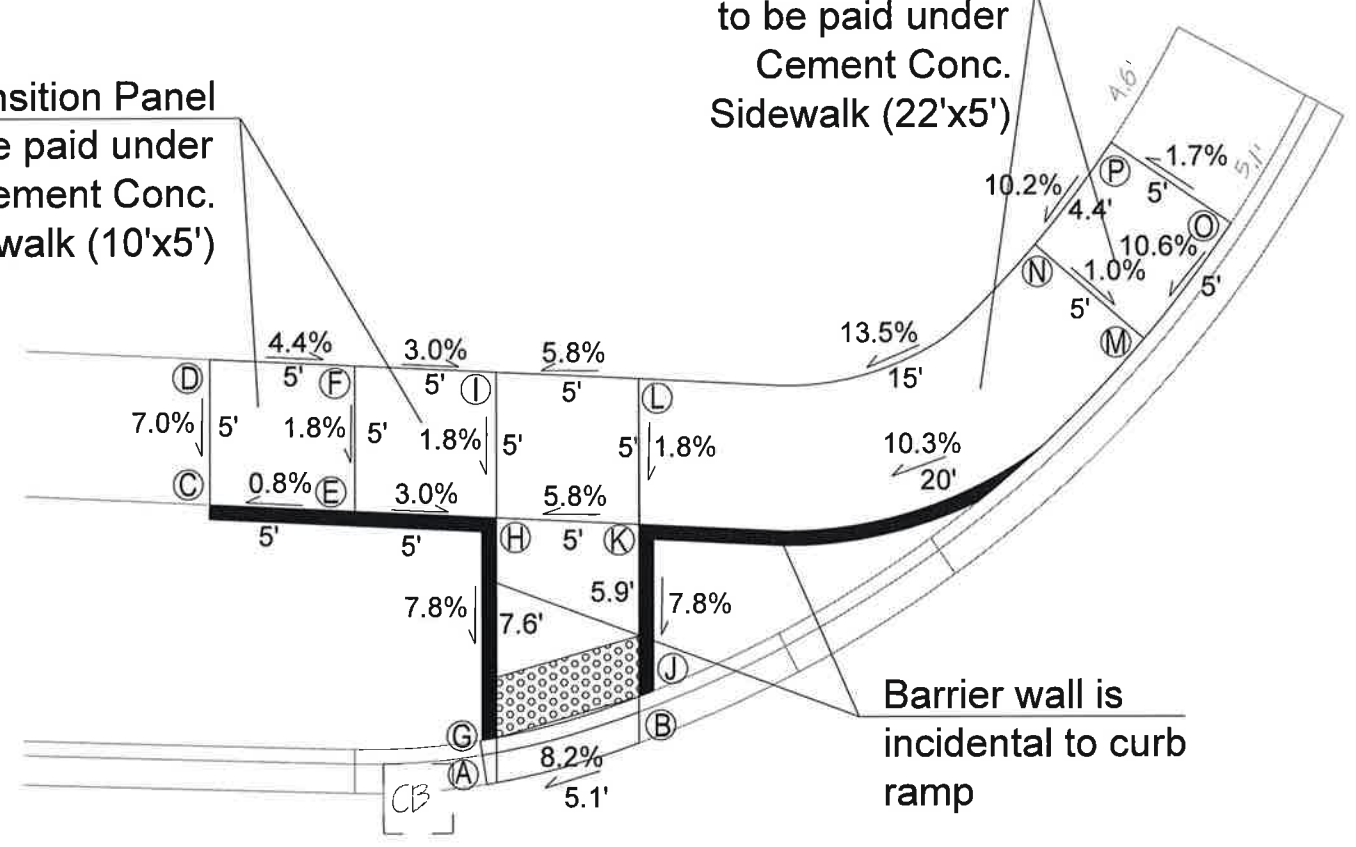
Illahee Track Entrance

1ST AVE S

SW CORNER OF 1ST AVE S
AND ILLAHEE MS TRACK ENTRANCE
NTS

Transition Panel
to be paid under
Cement Conc.
Sidewalk (10'x5')

Transition Panel
to be paid under
Cement Conc.
Sidewalk (22'x5')



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
CURB RAMP #4

Rev on: 2/5/2019 2:16 PM
Parent Sheet Sat: 2/15/2019
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2019 ASPHALT OVERLAY PROJECT

SCHEDULE A
1ST AVE S
CURB RAMP DETAILS
SE CORNER OF 1ST AVE S & ILLAHEE MS TRACK ENT.

RFB #:
19-001
A06
SHT. 08 OF 42

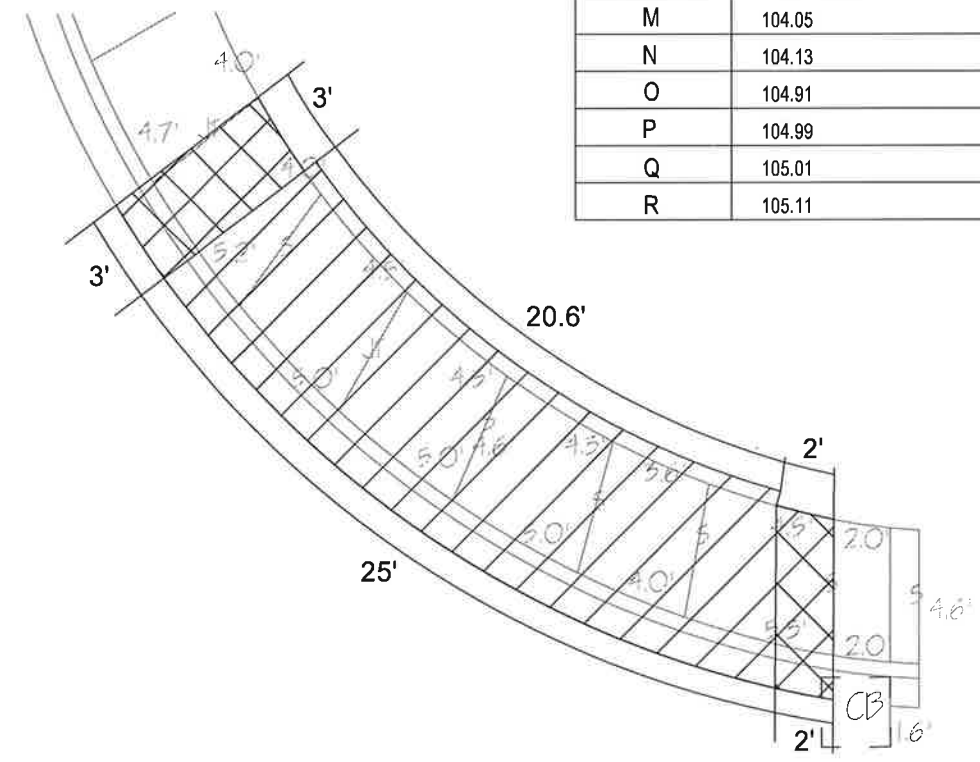


JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint
 Assumed Elevation
 FL CB on South West
 Corner Bench Mark
 Elev. = 100.00



CURB RAMP #5	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	103.90 (@ FL)
B	103.88 (@ FL)
C	103.95 (@ FL)
D	104.04 (@ FL)
E	104.41 (@ FL)
F	104.44 (@ FL)
G	104.32
H	104.55
I	104.38
J	104.46
K	103.96
L	104.04
M	104.05
N	104.13
O	104.91
P	104.99
Q	105.01
R	105.11

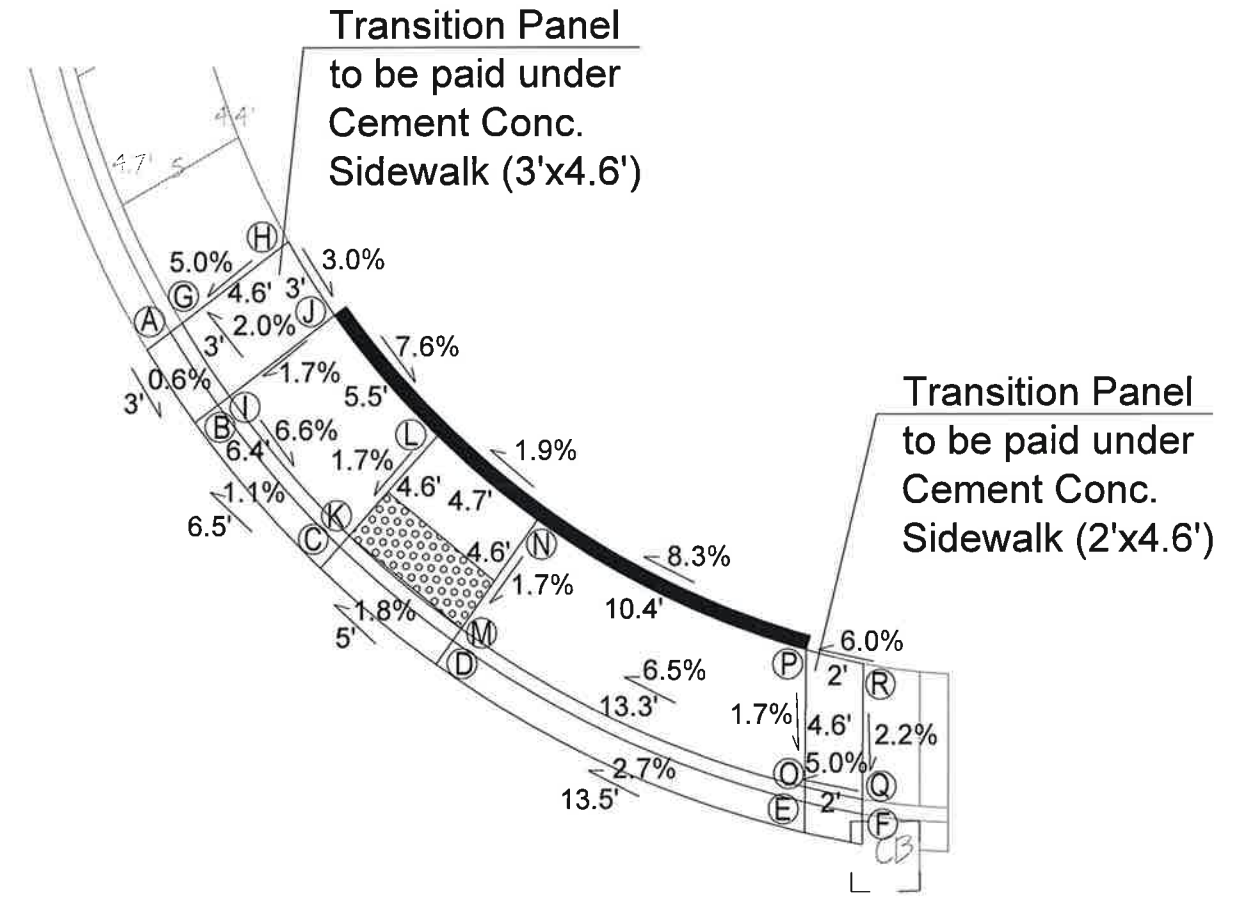
ILLAHEE TRACK ENTRANCE



PLAN VIEW
EXISTING SIDEWALK

NW CORNER OF 1ST AVE S
AND ILLAHEE MS TRACK ENTRANCE
NTS

1ST AVE S



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
CURB RAMP #5

Parent Sheet: 20190701 Rev. on: 2/5/2019 2:16 PM Rev/Plot by: Paul Heiler

CITY OF Federal Way
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PROJECT ENG:
Jeff Huynh
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 EMAIL:
jeff.huynh@cityoffederalway.com

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2019 ASPHALT OVERLAY PROJECT

SCHEDULE A
1ST AVE S
 CURB RAMP DETAILS
 NE CORNER OF 1ST AVE S & ILLAHEE MS TRACK ENT.

RFB #:
19-001
 A07
 SHT. 09 of 42

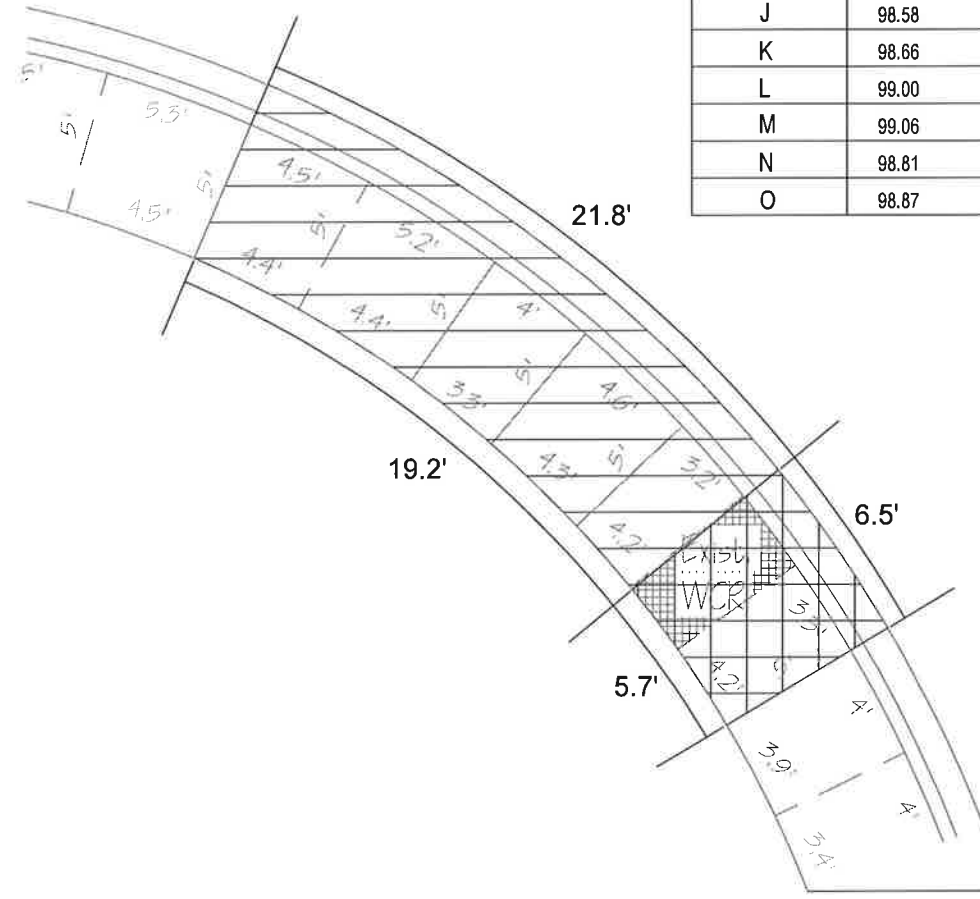


JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint

Assumed Elevation
 N. Edge Mon. Case
 Int'x S 361st St & 1st.
 Elev. = 100.00



CURB RAMP #7	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	98.70 (@ FL)
B	98.61 (@ FL)
C	98.57 (@ FL)
D	98.50 (@ FL)
E	98.46 (@ FL)
F	99.20
G	99.27
H	98.62
I	98.70
J	98.58
K	98.66
L	99.00
M	99.06
N	98.81
O	98.87

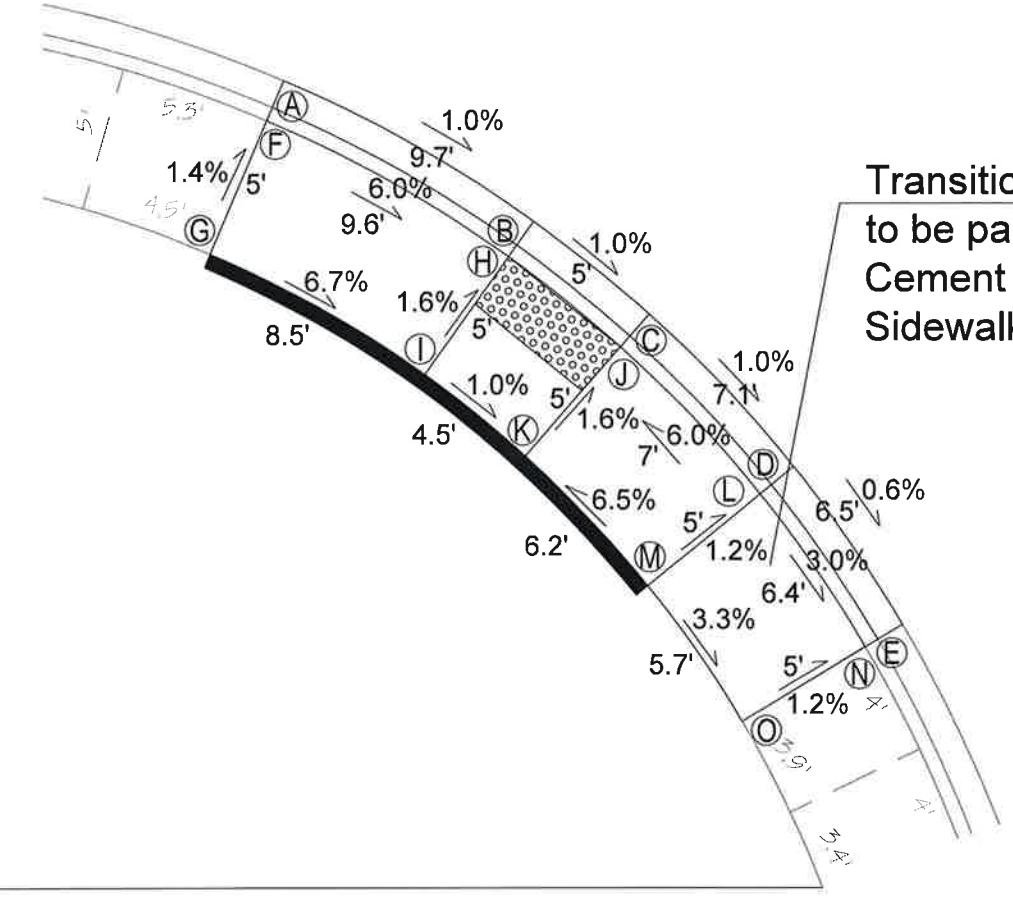


PLAN VIEW
 EXISTING CURB RAMP

1ST AVE S

S 361ST PL

SE CORNER OF 1ST AVE S
 AND S 361ST PL
 NTS



PLAN VIEW
 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 CURB RAMP #7

Transition Panel
 to be paid under
 Cement Conc.
 Sidewalk (5'x6')

Parent Sheet Set: 2019 Overlay
 Rev'd by: Paul Heller
 Rev on: 2/5/2019 2:16 PM
 Individual File Path: U:\P\FILE\Vegetational\Map\Map\CAD\Drawings\U\B\W\K\STREET\PROJECT\2019 OVERLAY\CAD Files - Working Folder As of 11:2019\Schedule A\Schedule A Sheets.dwg

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2019 ASPHALT OVERLAY PROJECT

SCHEDULE A
 1ST AVE S
 CURB RAMP DETAILS
 SE CORNER OF 1ST AVE S & S 361ST PL

RFB #:
 19-001
 A09
 SH. 11 OF 42

CURB RAMP #8	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	98.95 (@ FL)
B	99.24 (@ FL)
C	98.73
D	98.74
E	99.00
F	98.97
G	99.24
H	99.16
I	99.25
J	99.33
K	99.25
L	98.92
M	98.88

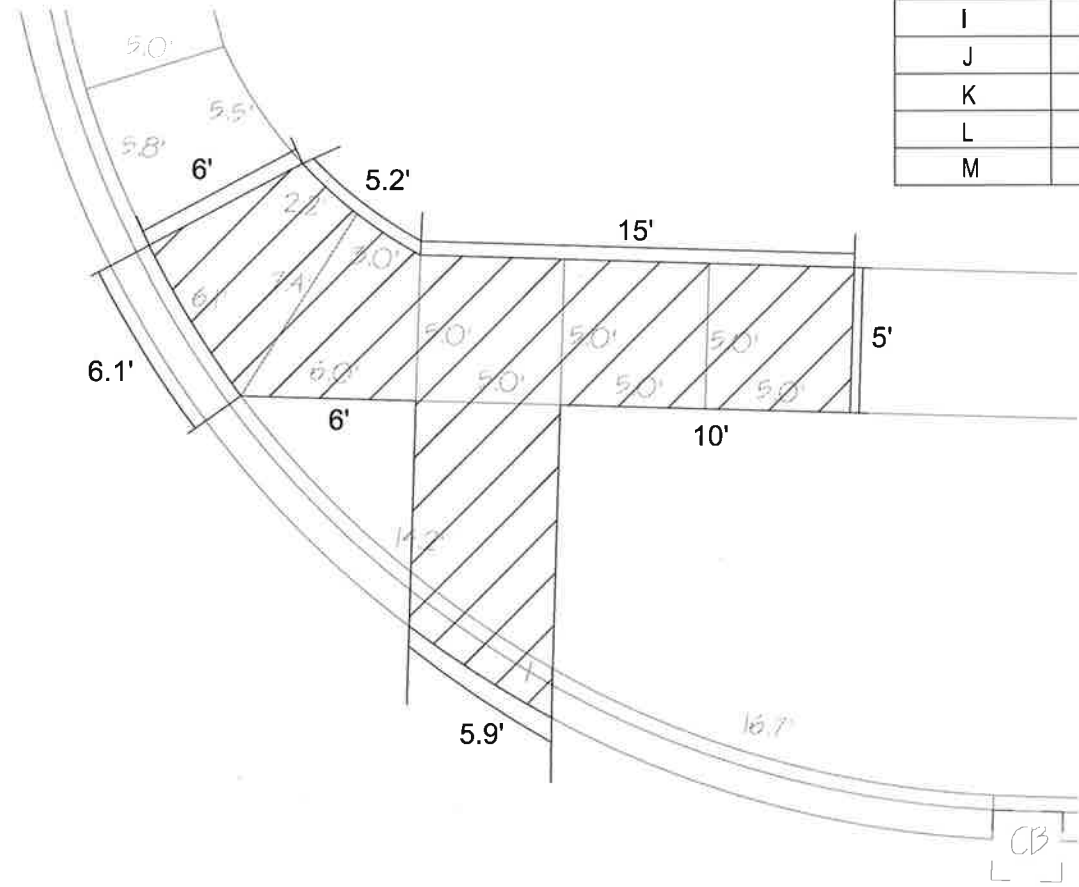


JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint

Assumed Elevation
 North Edge Rim
 Mon. Case, S 363rd St.
 Elev. = 100.00



Transition Panel
 to be paid under
 Cement Conc.
 Sidewalk (10'x5')



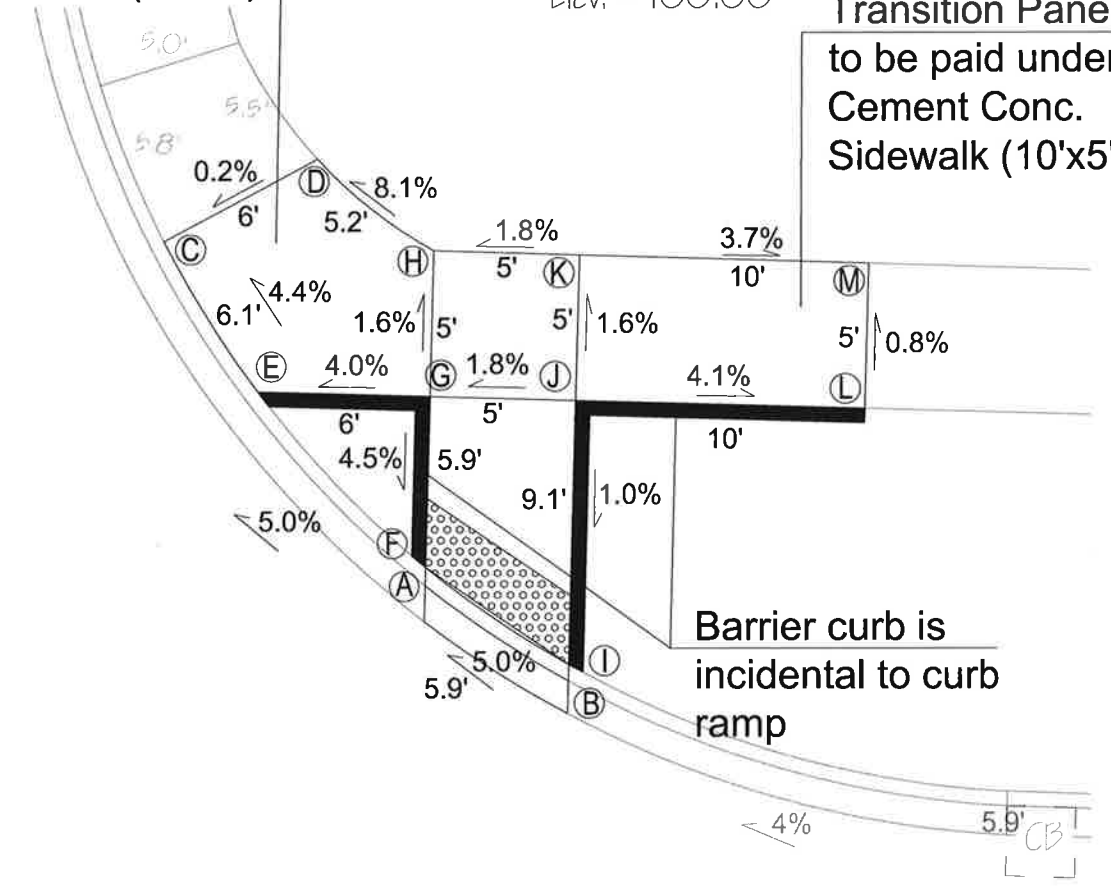
PLAN VIEW
 EXISTING CURB RAMP

1ST AVE S

S 361ST PL

NW CORNER OF 1ST AVE S
 AND S 361ST PL
 NTS

Transition Panel
 to be paid under
 Cement Conc.
 Sidewalk (12'x6')



PLAN VIEW
 CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 CURB RAMP #8

Barrier curb is
 incidental to curb
 ramp

Parent Sheet: 20190019 12:48 PM
 Rev on: 2/6/2019 12:48 PM
 Individual File Path: \\c:\files\applications\m\apps\acad\drawings\p\p\w\k\k\st\st\2019\PROJECTS\2019\overlay\c\c\fl\fl - working folder as of 01.11.2019\Schedule A\Schedule A\Sheets.dwg
 Rev/Plot by: Paul Heller

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2019 ASPHALT OVERLAY PROJECT

SCHEDULE A
 1ST AVE S
 CURB RAMP DETAILS
 NW CORNER OF 1ST AVE S & S 361ST PL

RFB #:
 19-001
 A10
 SHEET 12 OF 42

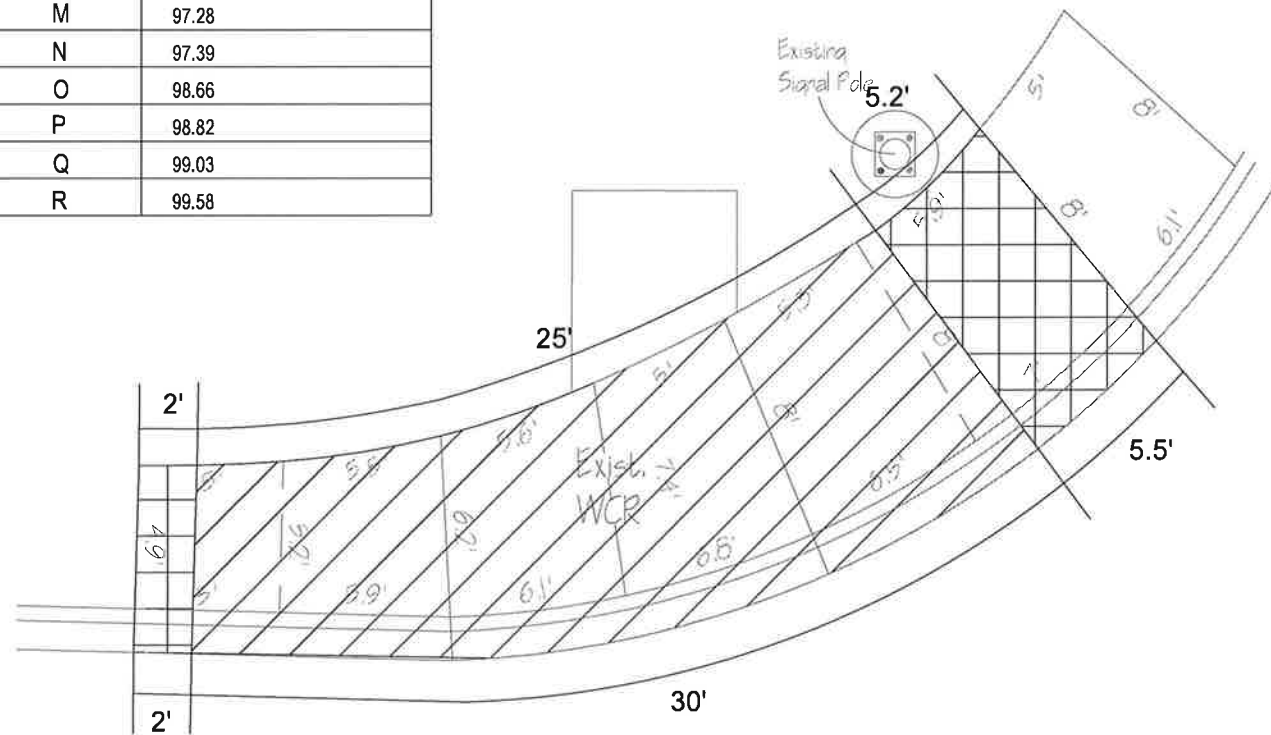
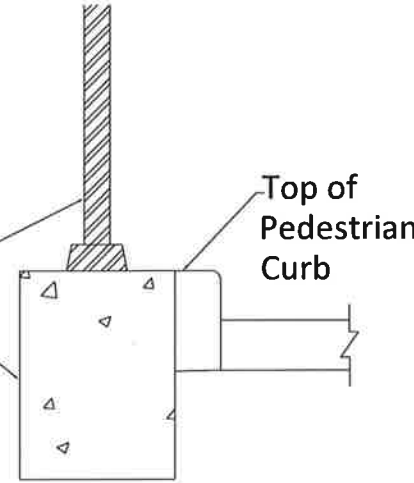
CURB RAMP #10 SPOT ELEVATION CHART	
POINT	ELEVATION
A	96.89 (@ FL)
B	96.95 (@ FL)
C	97.12 (@ FL)
D	97.27 (@ FL)
E	98.16 (@ FL)
F	98.50 (@ FL)
G	97.38
H	97.55
I	97.45
J	97.53
K	97.13
L	97.22
M	97.28
N	97.39
O	98.66
P	98.82
Q	99.03
R	99.58



JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint
 Assumed Elevation
 S.E. Flange Bolt
 Signal Pole
 Elev. = 100.00



Accessible Pedestrian
 Pushbutton Post (PPB)
 and Foundation
 See Standard Plans
 J-20.10-03 and J-20.26-01

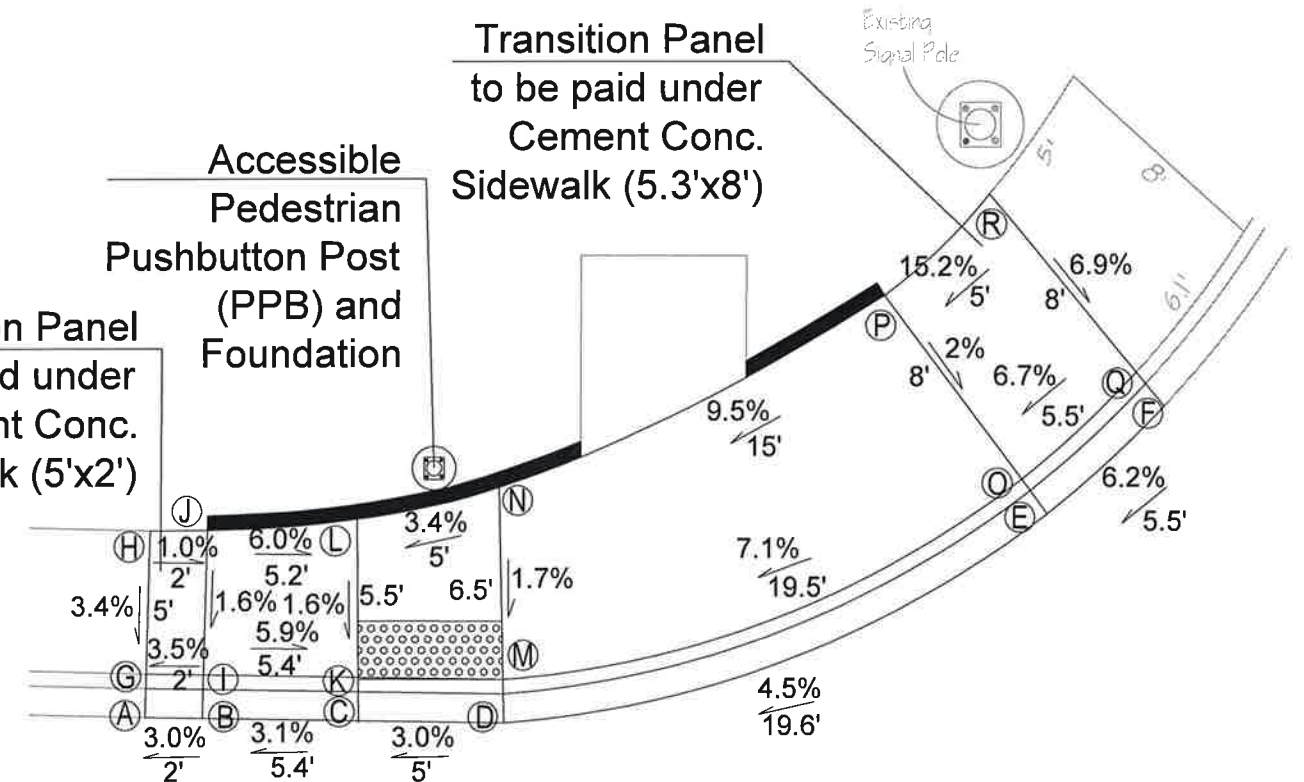


PLAN VIEW
 EXISTING CURB RAMP

S 356TH ST

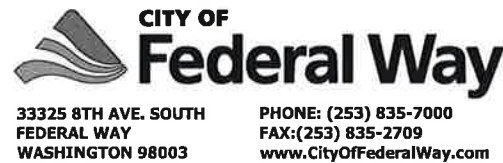
1ST AVE S

SW CORNER OF 1ST AVE S
 AND S 356TH ST
 NTS



PLAN VIEW
 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 CURB RAMP #10

Rev on: 2/5/2019 2:16 PM
 Rev/Plot by: Paul Heiber
 Parent Sheet Set: 2019 Overlay
 Individual File Path: I:\CIVIL\2019\ASPHALT\Drawings\PLUMBING\STREET\SPROJECT\2019 OVERLAY\CAD Files - Working Folder As of 11:20:19\Schedule A\Schedule A-Sheets.dwg



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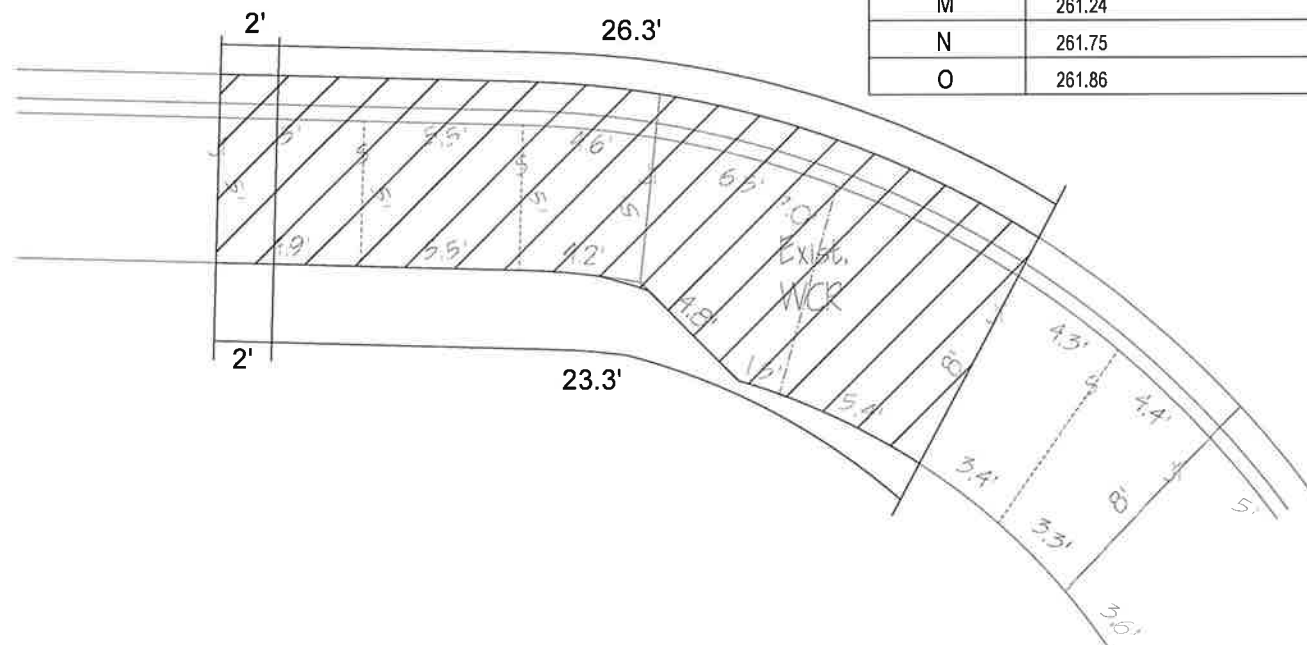
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#	DATE	DESCRIPTION
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2019 ASPHALT
 OVERLAY PROJECT

SCHEDULE A
 1ST AVE S
 CURB RAMP DETAILS
 SW CORNER OF 1ST AVE S & S 356TH ST

RFB #:
 19-001
 A12
 SHEET 14 OF 42

CURB RAMP #11	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	260.88 (@ FL)
B	260.94 (@ FL)
C	261.05 (@ FL)
D	261.15 (@ FL)
E	261.24 (@ FL)
F	261.36
G	261.47
H	261.44
I	261.53
J	261.06
K	261.14
L	261.16
M	261.24
N	261.75
O	261.86



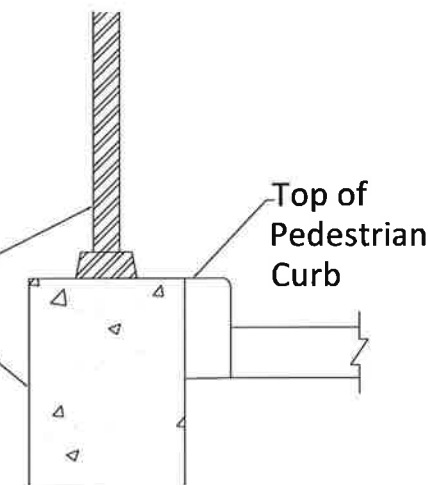
PLAN VIEW
EXISTING CURB RAMP

1ST AVE S

S 356TH ST

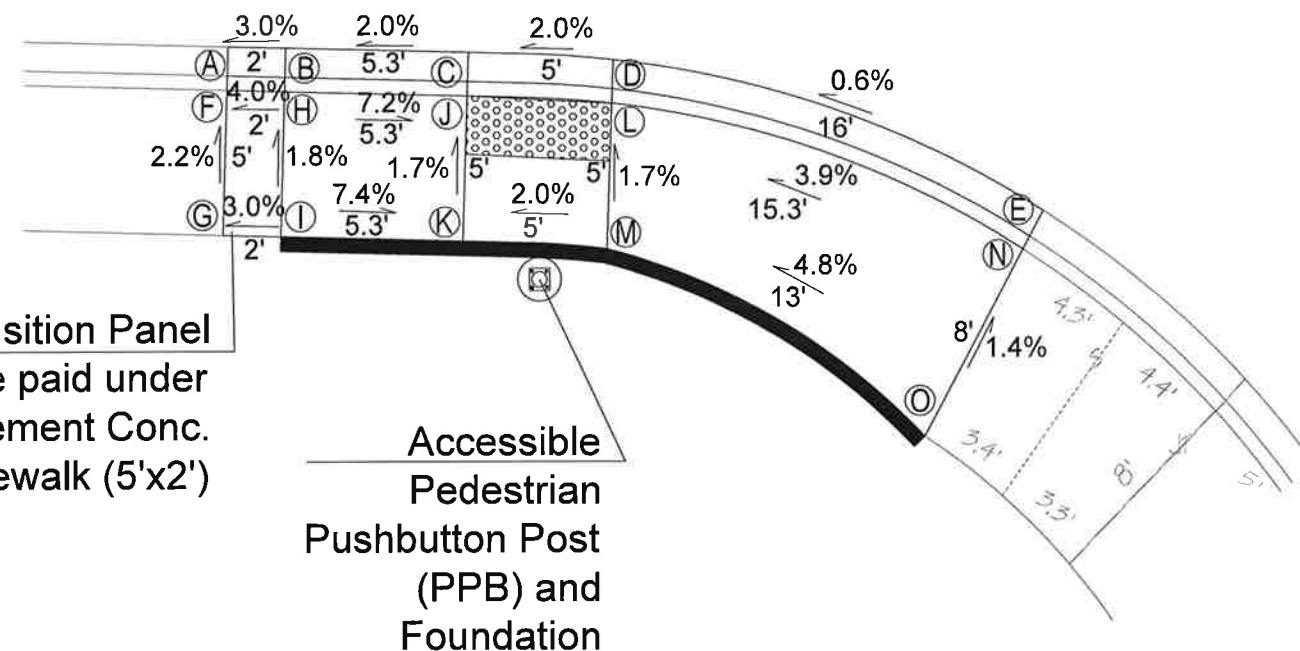
SE CORNER OF 1ST AVE S
AND S 356TH ST
NTS

Accessible Pedestrian
Pushbutton Post (PPB)
and Foundation
See Standard Plans
J-20.10-03 and J-20.26-01



JT = Dummy Joint or Through Joint
S = Scribe or Western Groove Joint

Assumed Elevation
N.W. Flange Bolt
Signal Pole
Elev. = 263.00



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
CURB RAMP #11



BEGIN OVERLAY A1

Sta. -0+60

Sta. -0+60
 Begin White Painted Edge Line (12.5' Lt & 9.5' Rt)
 Begin Painted Double Yellow Center Line (1.5' Lt)

(Match Existing)

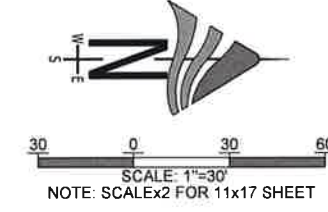
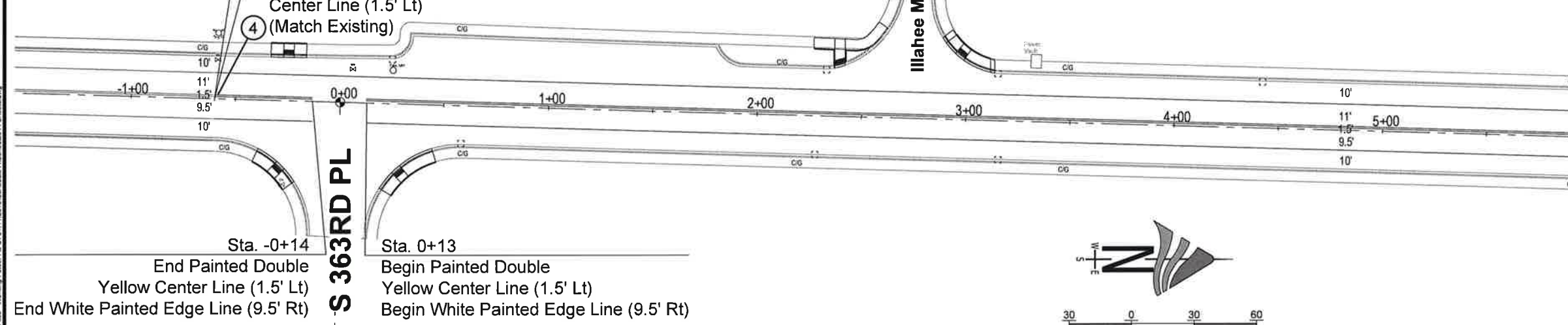
1ST AVE S

Illahaee MS Track entrance

- CHANNELIZATION NOTES:**
- 1 PLASTIC CROSSWALK LINE
 - 2 PLASTIC STOP LINE
 - 3 PLASTIC TRAFFIC ARROW
 - 4 HYDRANT MARKER, TYPE 2B
 - 5 PLASTIC YIELD AHEAD SYMBOL
 - 6 PLASTIC TRAFFIC LETTER

- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊙ = MONUMENT CASE
 - ⊙ = EXISTING FIRE HYDRANT
 - ⊙ = EXISTING STORM DRAIN CATCH BASIN
 - ⊙ = EXISTING MANHOLE
 - ⊙ = EXISTING STORM DRAIN MANHOLE
 - ⊙ = EXISTING JUNCTION BOX
 - ⊙ = INLET PROTECTION
 - = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

MATCHLINE
SEE BELOW



Sta. -0+14
 End Painted Double Yellow Center Line (1.5' Lt)
 End White Painted Edge Line (9.5' Rt)

S 363RD PL

Sta. 0+13
 Begin Painted Double Yellow Center Line (1.5' Lt)
 Begin White Painted Edge Line (9.5' Rt)

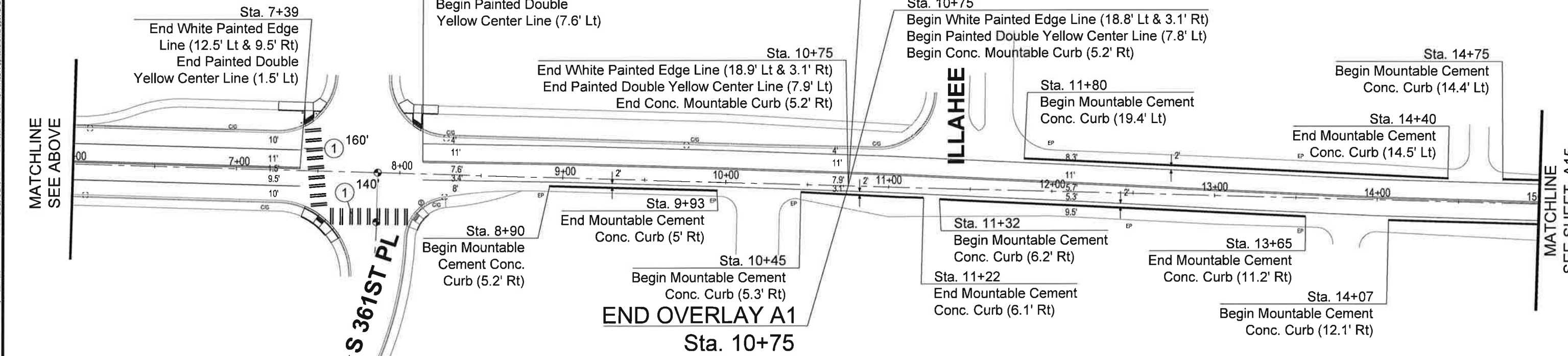
BEGIN OVERLAY A2

Sta. 10+75

Sta. 10+75
 Begin White Painted Edge Line (18.8' Lt & 3.1' Rt)
 Begin Painted Double Yellow Center Line (7.8' Lt)
 Begin Conc. Mountable Curb (5.2' Rt)

MATCHLINE
SEE ABOVE

MATCHLINE
SEE SHEET A15



Sta. 7+39
 End White Painted Edge Line (12.5' Lt & 9.5' Rt)
 End Painted Double Yellow Center Line (1.5' Lt)

Sta. 8+15
 Begin White Painted Edge Line (18.6' Lt & 3.4' Rt)
 Begin Painted Double Yellow Center Line (7.6' Lt)

Sta. 10+75
 End White Painted Edge Line (18.9' Lt & 3.1' Rt)
 End Painted Double Yellow Center Line (7.9' Lt)
 End Conc. Mountable Curb (5.2' Rt)

Sta. 11+80
 Begin Mountable Cement Conc. Curb (19.4' Lt)

Sta. 14+75
 Begin Mountable Cement Conc. Curb (14.4' Lt)

Sta. 14+40
 End Mountable Cement Conc. Curb (14.5' Lt)

Sta. 8+90
 Begin Mountable Cement Conc. Curb (5.2' Rt)

Sta. 9+93
 End Mountable Cement Conc. Curb (5' Rt)

Sta. 10+45
 Begin Mountable Cement Conc. Curb (5.3' Rt)

Sta. 11+32
 Begin Mountable Cement Conc. Curb (6.2' Rt)

Sta. 11+22
 End Mountable Cement Conc. Curb (6.1' Rt)

Sta. 13+65
 End Mountable Cement Conc. Curb (11.2' Rt)

Sta. 14+07
 Begin Mountable Cement Conc. Curb (12.1' Rt)

END OVERLAY A1
 Sta. 10+75

CITY OF Federal Way

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VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

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2019 ASPHALT OVERLAY PROJECT

**SCHEDULE A
 1ST AVE S**

**CHANNELIZATION PLAN
 -0+60 TO 15+00**

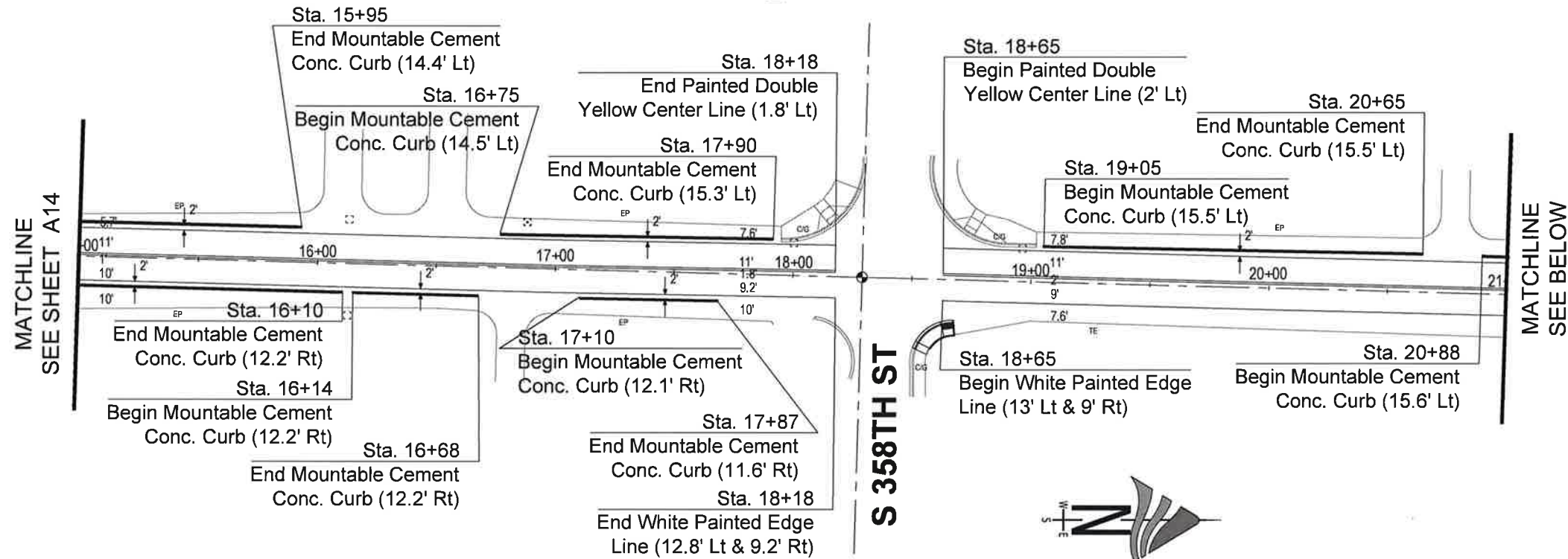
RFB #:
 19-001

A14

SHT. 16 OF 42

Rev on: 2/5/2019 2:18 PM
 Individual File Path: I:\PROJECTS\2019\ASPHALT OVERLAY\CAD FILES\Working Folder\A11_2019\Schedule A\Schedule A_Sheets.dwg
 Rev/Plotted by: Paul Heller
 Parent Sheet For: 201900000

1ST AVE S

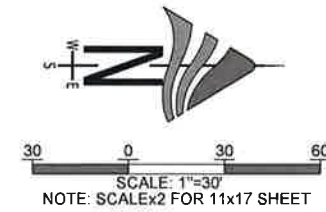


- CHANNELIZATION NOTES:**
- 1 PLASTIC CROSSWALK LINE
 - 2 PLASTIC STOP LINE
 - 3 PLASTIC TRAFFIC ARROW
 - 4 HYDRANT MARKER, TYPE 2B
 - 5 PLASTIC YIELD AHEAD SYMBOL
 - 6 PLASTIC TRAFFIC LETTER

- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - MC = MONUMENT CASE
 - FH = EXISTING FIRE HYDRANT
 - ESCB = EXISTING STORM DRAIN CATCH BASIN
 - EM = EXISTING MANHOLE
 - ESDM = EXISTING STORM DRAIN MANHOLE
 - EJB = EXISTING JUNCTION BOX
 - IP = INLET PROTECTION
 - PR = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

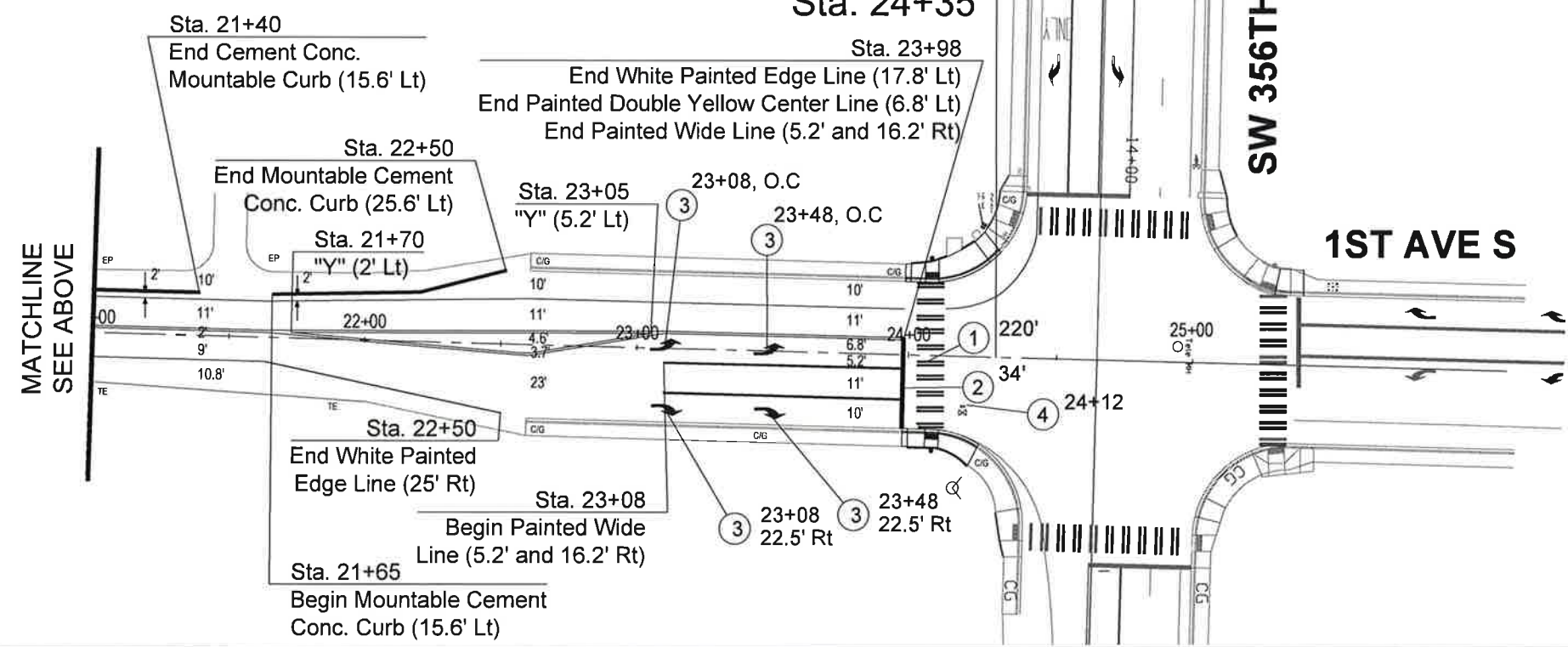
S 358TH ST

SW 356TH ST



1ST AVE S

END OVERLAY A2



MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW

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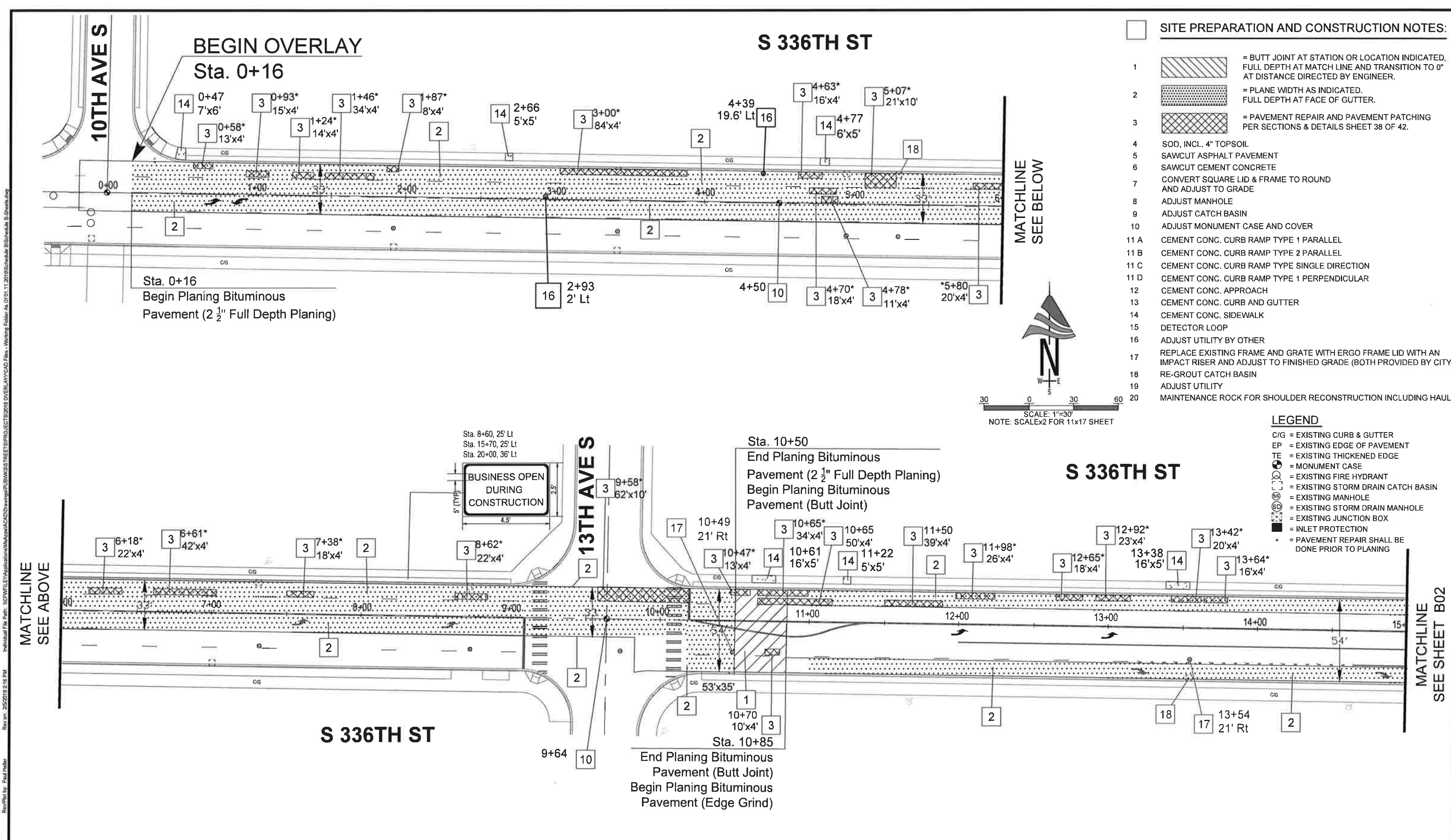


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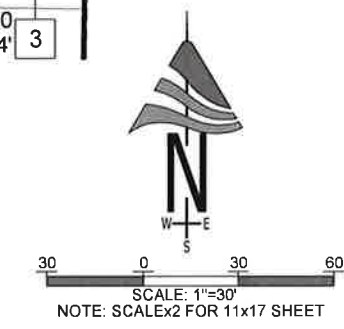
2019 ASPHALT OVERLAY PROJECT

**SCHEDULE A
 1ST AVE S
 CHANNELIZATION PLAN
 15+00 TO 24+35**

RFB #:
 19-001
A15
 SHT. 17 of 42



- SITE PREPARATION AND CONSTRUCTION NOTES:**
- 1 = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0' AT DISTANCE DIRECTED BY ENGINEER.
 - 2 = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER.
 - 3 = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
 - 4 SOD, INCL. 4" TOPSOIL
 - 5 SAWCUT ASPHALT PAVEMENT
 - 6 SAWCUT CEMENT CONCRETE
 - 7 CONVERT SQUARE LID & FRAME TO ROUND AND ADJUST TO GRADE
 - 8 ADJUST MANHOLE
 - 9 ADJUST CATCH BASIN
 - 10 ADJUST MONUMENT CASE AND COVER
 - 11 A CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
 - 11 B CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 - 11 C CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 - 11 D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. APPROACH
 - 13 CEMENT CONC. CURB AND GUTTER
 - 14 CEMENT CONC. SIDEWALK
 - 15 DETECTOR LOOP
 - 16 ADJUST UTILITY BY OTHER
 - 17 REPLACE EXISTING FRAME AND GRATE WITH ERGO FRAME LID WITH AN IMPACT RISER AND ADJUST TO FINISHED GRADE (BOTH PROVIDED BY CITY)
 - 18 RE-GROUT CATCH BASIN
 - 19 ADJUST UTILITY
 - 20 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION INCLUDING HAUL



- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊙ = MONUMENT CASE
 - ⊙ = EXISTING FIRE HYDRANT
 - ⊙ = EXISTING STORM DRAIN CATCH BASIN
 - ⊙ = EXISTING MANHOLE
 - ⊙ = EXISTING STORM DRAIN MANHOLE
 - ⊙ = EXISTING JUNCTION BOX
 - ⊙ = INLET PROTECTION
 - = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

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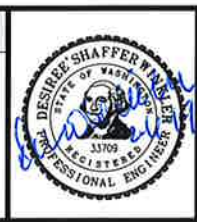
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2019 ASPHALT OVERLAY PROJECT

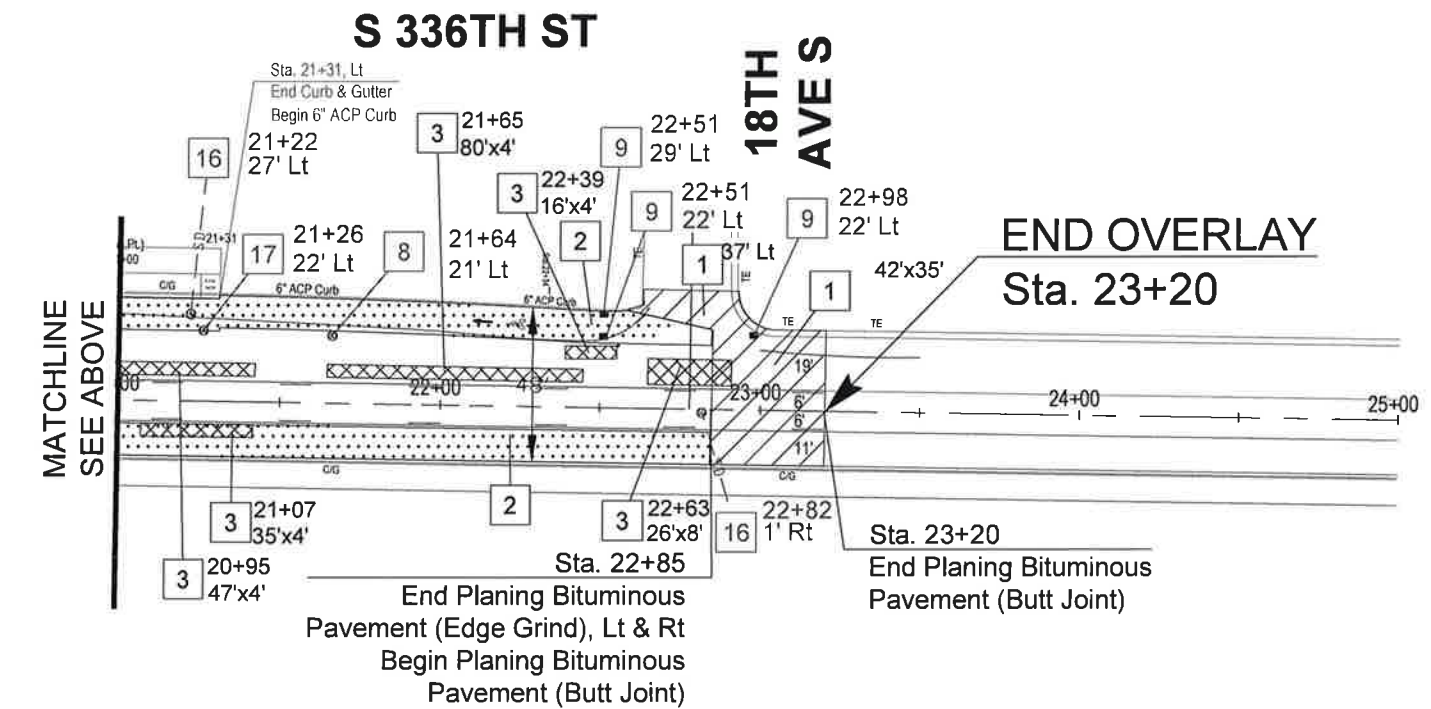
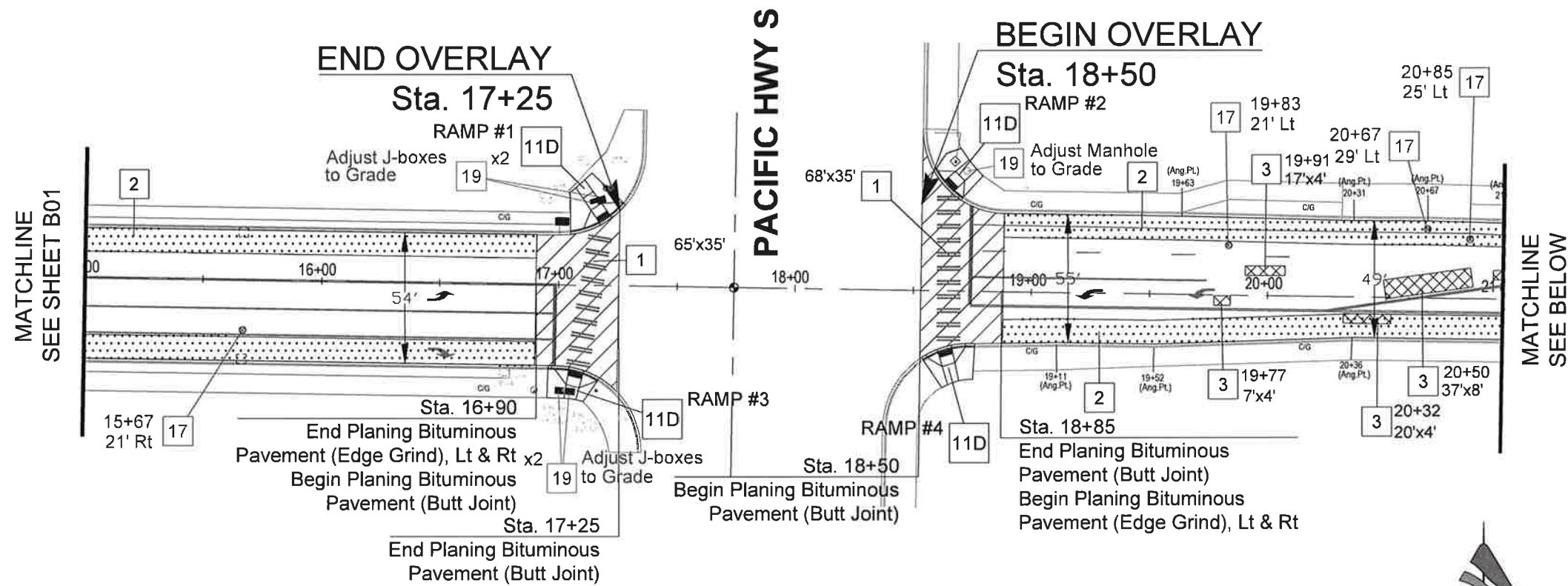
**SCHEDULE B
S 336TH ST
SITE PREPARATION & PAVING PLAN
0+16 TO 15+00**

RFB #:
19-001

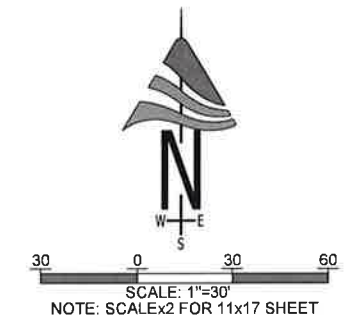
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SHT. 18 of 42

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 Rwp/Plt by: Paul Heller
 Individual File Path: \\C:\P\F\FILE\Applications\MapAcad\Drawings\PROJECTS\2019 OVERLAY\CAD Files - Working Folder As of 01.11.2019\Schedule B\Schedule B-Sheets.dwg



- SITE PREPARATION AND CONSTRUCTION NOTES:**
- 1 = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER.
 - 2 = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER.
 - 3 = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
 - 4 SOD, INCL. 4" TOPSOIL
 - 5 SAWCUT ASPHALT PAVEMENT
 - 6 SAWCUT CEMENT CONCRETE
 - 7 CONVERT SQUARE LID & FRAME TO ROUND AND ADJUST TO GRADE
 - 8 ADJUST MANHOLE
 - 9 ADJUST CATCH BASIN
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 - 11 A CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
 - 11 B CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 - 11 C CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 - 11 D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. APPROACH
 - 13 CEMENT CONC. CURB AND GUTTER
 - 14 CEMENT CONC. SIDEWALK
 - 15 DETECTOR LOOP
 - 16 ADJUST UTILITY BY OTHER
 - 17 REPLACE EXISTING FRAME AND GRATE WITH ERGO FRAME LID WITH AN IMPACT RISER AND ADJUST TO FINISHED GRADE (BOTH PROVIDED BY CITY)
 - 18 RE-GROUT CATCH BASIN
 - 19 ADJUST UTILITY
 - 20 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION INCLUDING HAUL



- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - MC = MONUMENT CASE
 - FH = EXISTING FIRE HYDRANT
 - SCB = EXISTING STORM DRAIN CATCH BASIN
 - SM = EXISTING MANHOLE
 - SDM = EXISTING STORM DRAIN MANHOLE
 - JB = EXISTING JUNCTION BOX
 - IP = INLET PROTECTION
 - * = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

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DRAWING VERSION / REVISION LOG		
#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

**SCHEDULE B
S 336TH ST**

**SITE PREPARATION & PAVING PLAN
15+00 TO 23+20**

RFB #:
19-001

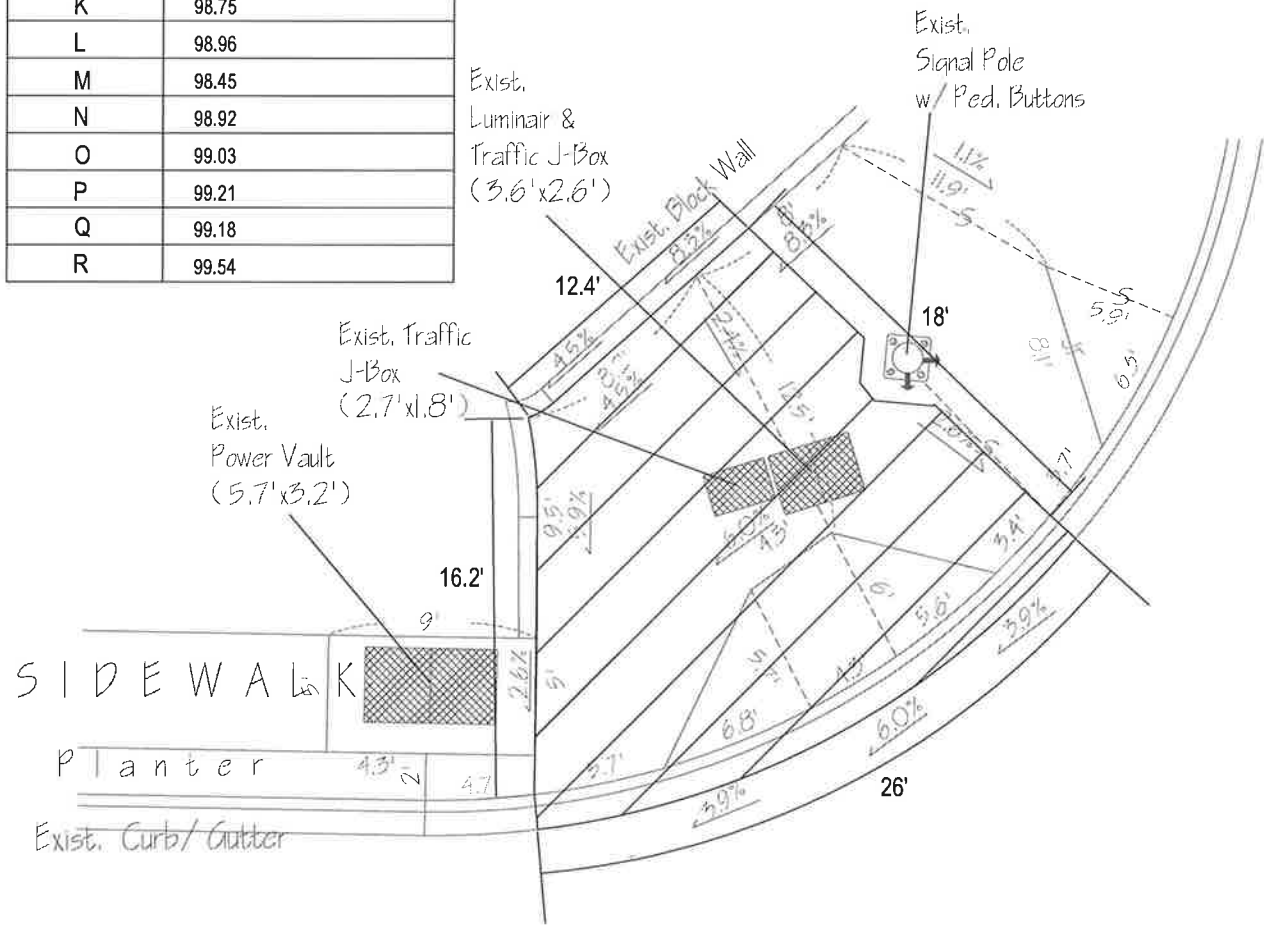
B02

SHT. 19 of 42

CURB RAMP #1	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	97.64 (@ FL)
B	97.86 (@ FL)
C	98.13 (@ FL)
D	98.41 (@ FL)
E	98.74 (@ FL)
F	98.11
G	98.79
H	98.36
I	98.17
J	98.64
K	98.75
L	98.96
M	98.45
N	98.92
O	99.03
P	99.21
Q	99.18
R	99.54



JT = Dummy Joint or Through Joint
S = Scribe or Western Groove Joint

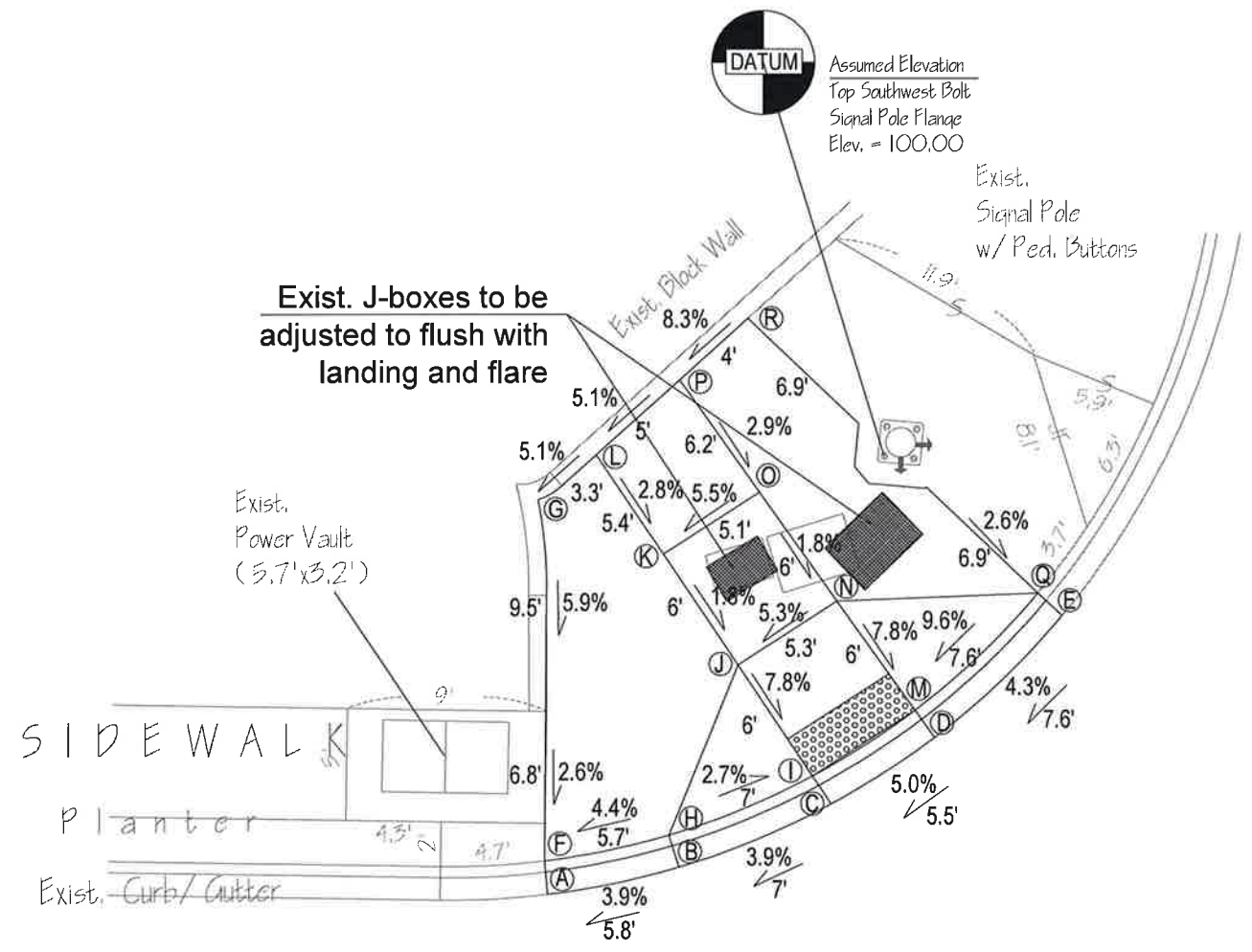


PLAN VIEW
EXISTING CURB RAMP
CURB RAMP

PACIFIC HWY S

S 336TH ST

NW CORNER PACIFIC HWY S
AND S 336TH ST
NTS



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE PERPENDICULAR
CURB RAMP #1

LEGEND

	Removal Area
	Cement Conc. Barrier Curb
	Detectable Warning Pattern

CITY OF Federal Way
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PROJECT ENG:
Jeff Huynh
PHONE #:
253-835-2721
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0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

SCHEDULE B
S 336TH ST
CURB RAMP DETAILS
NW CORNER PAC HWY & S 336TH ST

RFB #:
19-001
B03
SHT 20 OF 42

Rev en: 2/5/2019 2:16 PM
 Rev/Plt by: Paul Heiler
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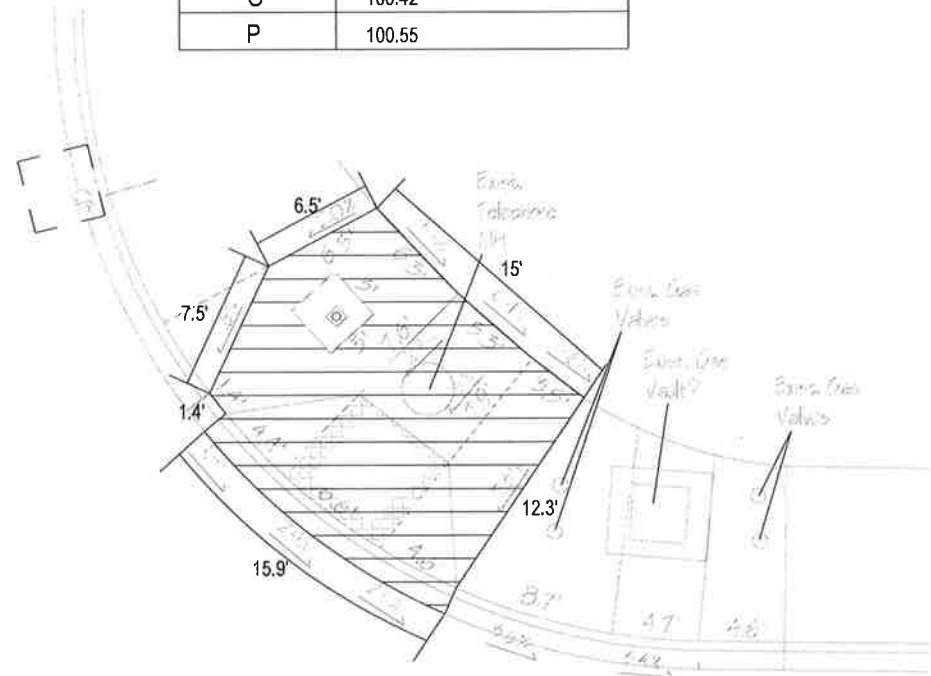
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SPOT ELEVATION CHART	
POINT	ELEVATION
A	99.05 (@ FL)
B	99.26 (@ FL)
C	99.50 (@ FL)
D	99.57 (@ FL)
E	99.49
F	99.77
G	99.30
H	99.77
I	99.89
J	99.54
K	100.01
L	100.14
M	100.01
N	100.08
O	100.42
P	100.55

S 336TH ST

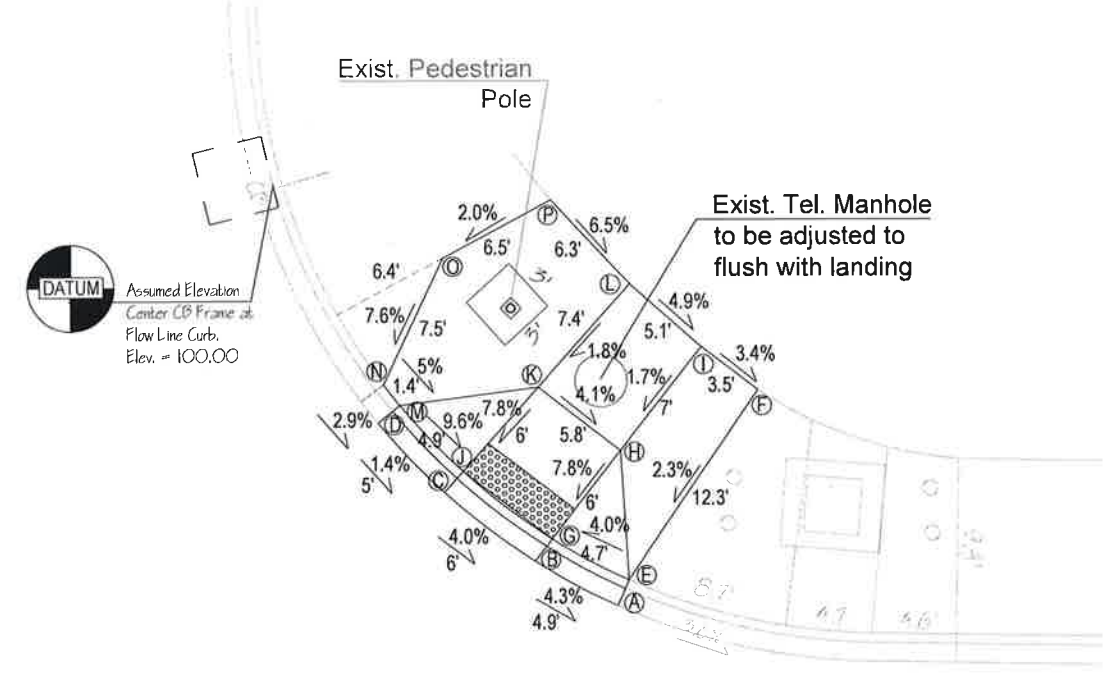
PACIFIC HWY S



JT = Dummy Joint or Through Joint
S = Scribe or Western Groove Joint



PLAN VIEW
EXISTING CURB RAMP
CURB RAMP



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE PERPENDICULAR
CURB RAMP #2

- LEGEND**
- Removal Area
 - Cement Conc. Barrier Curb
 - Detectable Warning Pattern

NE CORNER PACIFIC HWY S
AND S 336TH ST
NTS

Rev on: 2/5/2019 2:16 PM
 Drawn by: Paul Haber
 Project Sheet Set: 20190201.dwg
 Individual File Path: U:\CIVIL\Projects\2019\ASPHALT\Drawings\DWG\ASPHALT\Drawings\PROJ\EGT\2019\ASPHALT\Drawings\ASPHALT.dwg

<p>CITY OF Federal Way</p> <p>33325 8TH AVE. SOUTH FEDERAL WAY WASHINGTON 98003</p> <p>PHONE: (253) 835-7000 FAX: (253) 835-2709 www.CityOfFederalWay.com</p>	PROJECT ENG: Jeff Huynh PHONE #: 253-835-2721 EMAIL: jeff.huynh@cityoffederalway.com	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		DRAWING VERSION / REVISION LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0.5</td> <td>2/5/2019</td> <td>INITIAL DESIGN</td> </tr> </tbody> </table>	#	DATE	DESCRIPTION	0.5	2/5/2019	INITIAL DESIGN	<p>2019 ASPHALT OVERLAY PROJECT</p>	SCHEDULE B S 336TH ST CURB RAMP DETAILS NE CORNER PAC HWY & S 336TH ST	RFB #: 19-001 B04 SHT. 21 OF 42
	#	DATE	DESCRIPTION										
0.5	2/5/2019	INITIAL DESIGN											

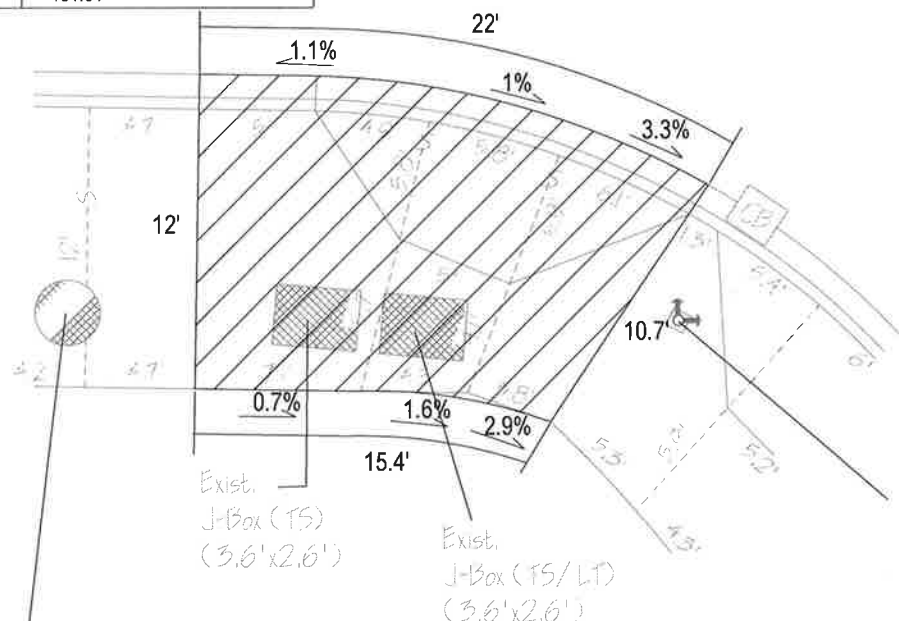
CURB RAMP #3	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	100.10 (@ FL)
B	100.30 (@ FL)
C	100.36 (@ FL)
D	100.29 (@ FL)
E	100.25 (@ FL)
F	100.51
G	100.78
H	100.34
I	100.78
J	100.87
K	100.40
L	100.87
M	100.96
N	100.79
O	100.73
P	101.01



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S = Scribe or Western Groove Joint

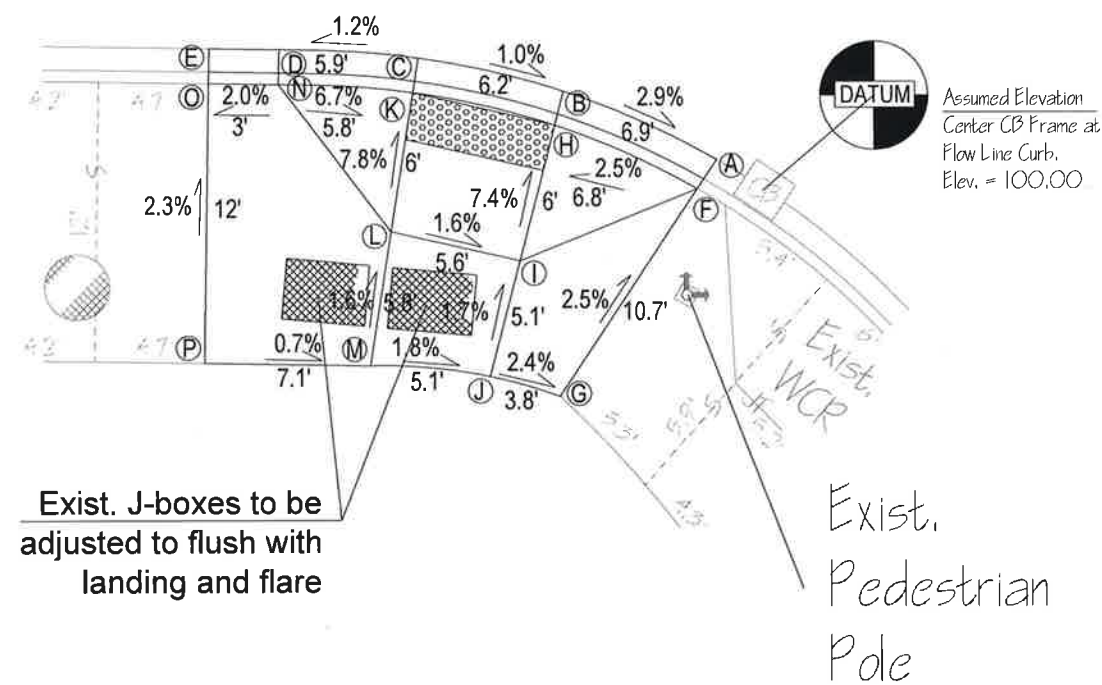
S 336TH ST

PACIFIC HWY S



PLAN VIEW
EXISTING CURB RAMP
CURB RAMP

SW CORNER PACIFIC HWY S
AND S 336TH ST
NTS



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE PERPENDICULAR
CURB RAMP #3

LEGEND
 Removal Area
 Cement Conc. Barrier Curb
 Detectable Warning Pattern

Rev. on: 2/22/2019 2:17 PM
 Reviser: Paul Hader
 Project Sheet Size: 20190401

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DRAWING VERSION / REVISION LOG		
#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT
OVERLAY PROJECT

SCHEDULE B
S 336TH ST
CURB RAMP DETAILS
SW CORNER PAC HWY & S 336TH ST

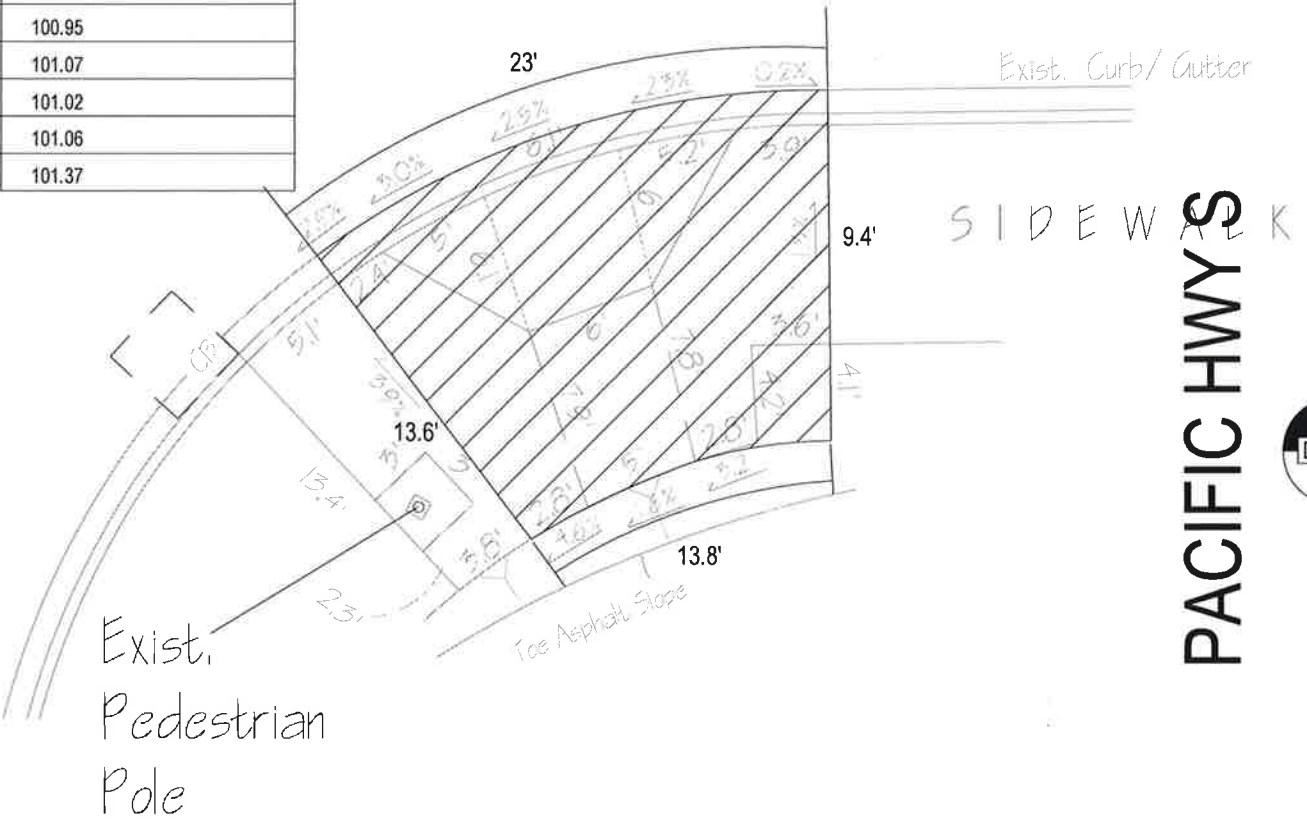
RFB #:
19-001
B05
SHT 22 OF 42

CURB RAMP #4	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	100.07 (@ FL)
B	100.13 (@ FL)
C	100.28 (@ FL)
D	100.45 (@ FL)
E	100.52 (@ FL)
F	100.56 (@ FL)
G	100.58
H	101.11
I	100.63
J	100.32
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Q	101.06
R	101.37

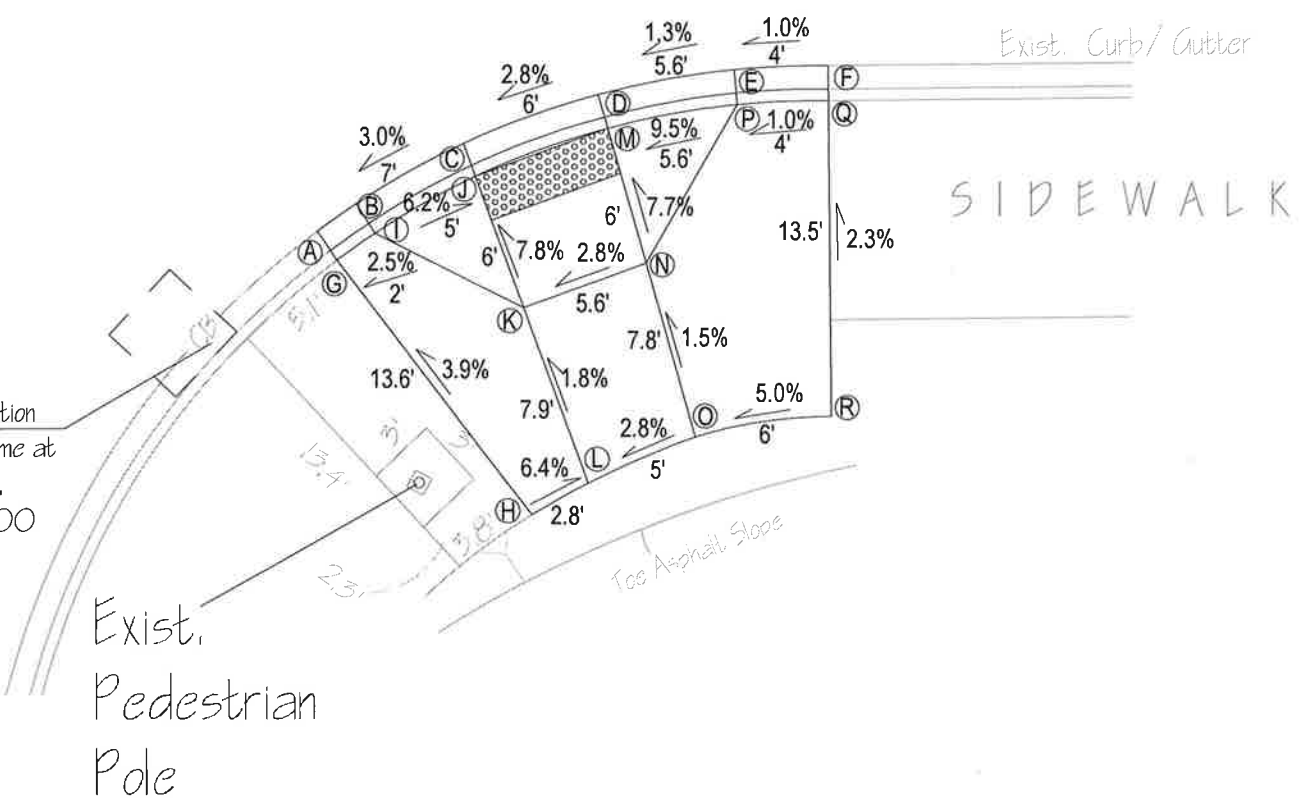


JT = Dummy Joint or Through Joint
S = Scribe or Western Groove Joint

S 336TH ST



PLAN VIEW
EXISTING CURB RAMP
CURB RAMP



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE PERPENDICULAR
CURB RAMP #4

DATUM
Assumed Elevation
Center CB Frame at
Flow Line Curb.
Elev. = 100.00

LEGEND
 Removal Area
 Cement Conc. Barrier Curb
 Detectable Warning Pattern

SE CORNER PACIFIC HWY S AND S 336TH ST NTS

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#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

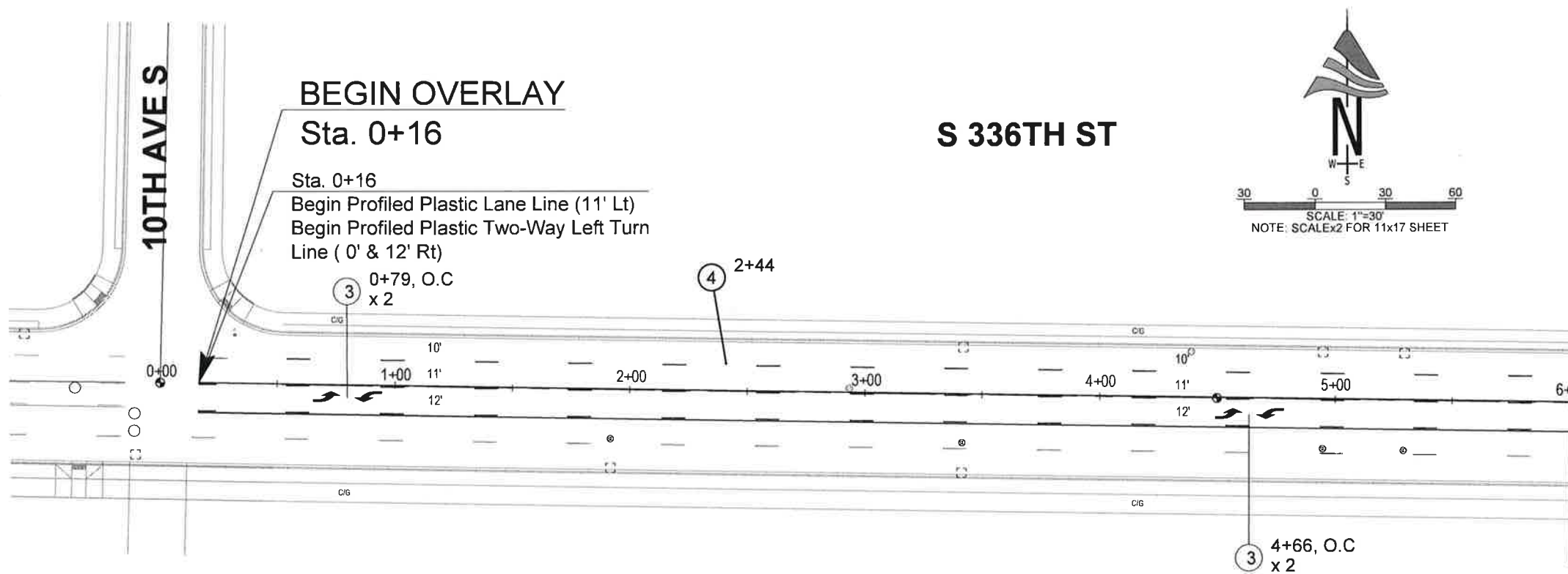
**2019 ASPHALT
OVERLAY PROJECT**

SCHEDULE B
S 336TH ST
 CURB RAMP DETAILS
 SE CORNER PAC HWY & S 336TH ST

RFB #:
19-001
B06
 SHEET 23 OF 42

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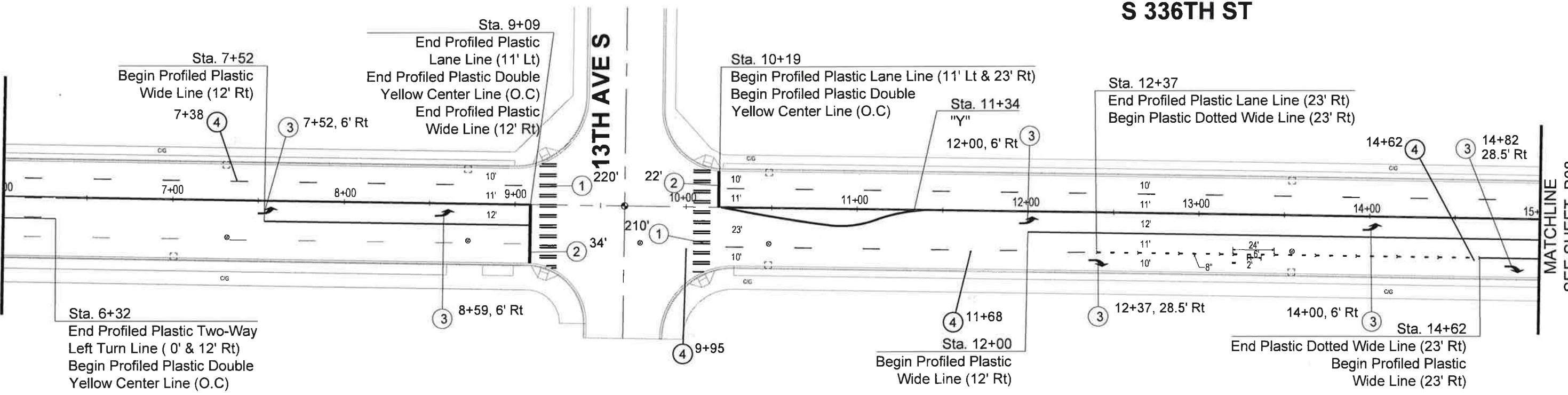
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- CHANNELIZATION NOTES:**
- 1 PLASTIC CROSSWALK LINE
 - 2 PLASTIC STOP LINE
 - 3 PLASTIC TRAFFIC ARROW
 - 4 HYDRANT MARKER, TYPE 2B
 - 5 PLASTIC YIELD AHEAD SYMBOL
 - 6 PLASTIC TRAFFIC LETTER

- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊙ = MONUMENT CASE
 - ⊕ = EXISTING FIRE HYDRANT
 - ⊕ = EXISTING STORM DRAIN CATCH BASIN
 - ⊕ = EXISTING MANHOLE
 - ⊕ = EXISTING STORM DRAIN MANHOLE
 - ⊕ = EXISTING JUNCTION BOX
 - = INLET PROTECTION
 - = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

MATCHLINE
SEE BELOW



S 336TH ST

MATCHLINE
SEE SHEET B08

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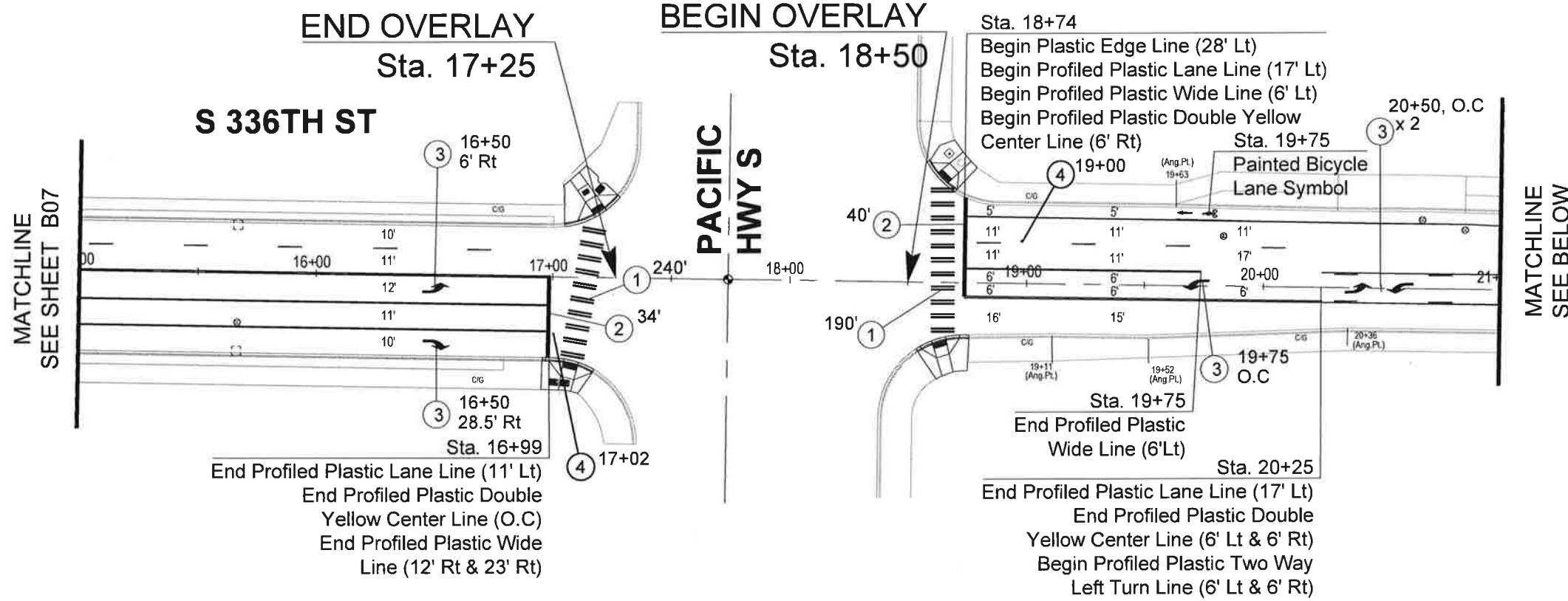
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#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

**SCHEDULE B
 S 336TH ST
 CHANNELIZATION PLAN
 0+16 TO 15+00**

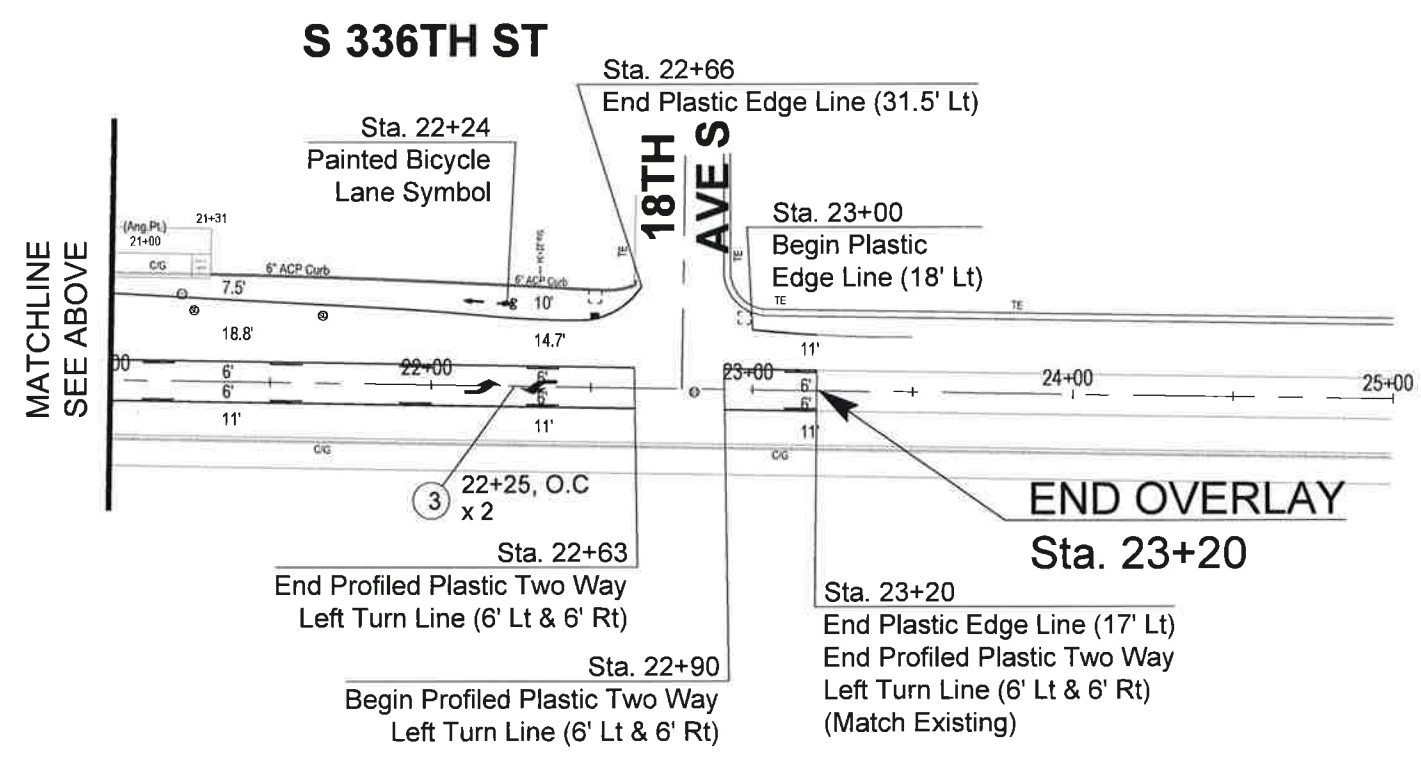
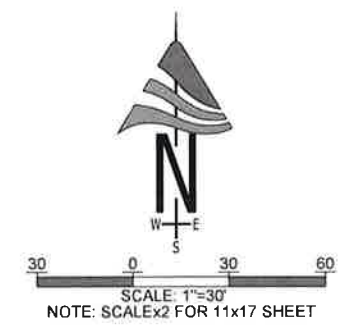
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 19-001
B07
 SHEET 24 OF 42

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- CHANNELIZATION NOTES:**
- 1 PLASTIC CROSSWALK LINE
 - 2 PLASTIC STOP LINE
 - 3 PLASTIC TRAFFIC ARROW
 - 4 HYDRANT MARKER, TYPE 2B
 - 5 PLASTIC YIELD AHEAD SYMBOL
 - 6 PLASTIC TRAFFIC LETTER

- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊙ = MONUMENT CASE
 - ⊗ = EXISTING FIRE HYDRANT
 - ⊕ = EXISTING STORM DRAIN CATCH BASIN
 - ⊙ = EXISTING MANHOLE
 - ⊕ = EXISTING STORM DRAIN MANHOLE
 - ⊕ = EXISTING JUNCTION BOX
 - = INLET PROTECTION
 - = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING



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#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

SCHEDULE B
 S 336TH ST

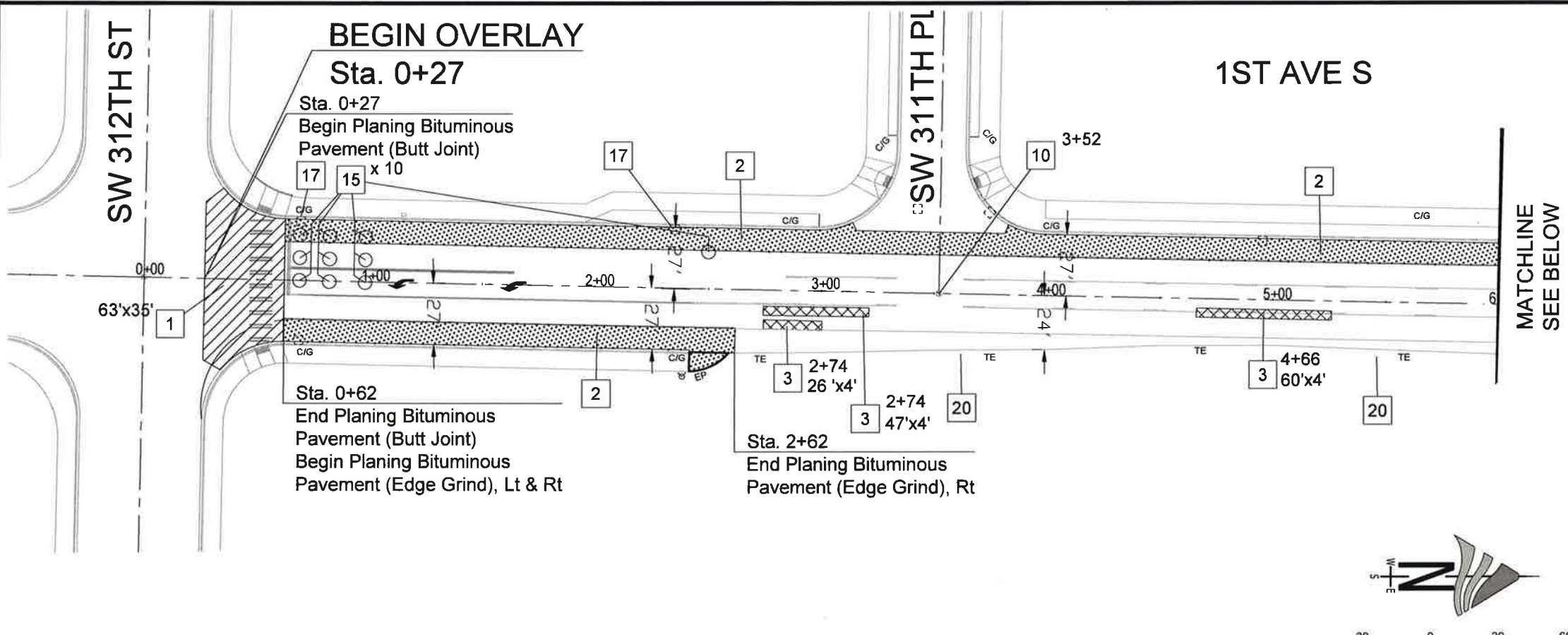
CHANNELIZATION PLAN
 15+00 TO 23+20

RFB #:
 19-001

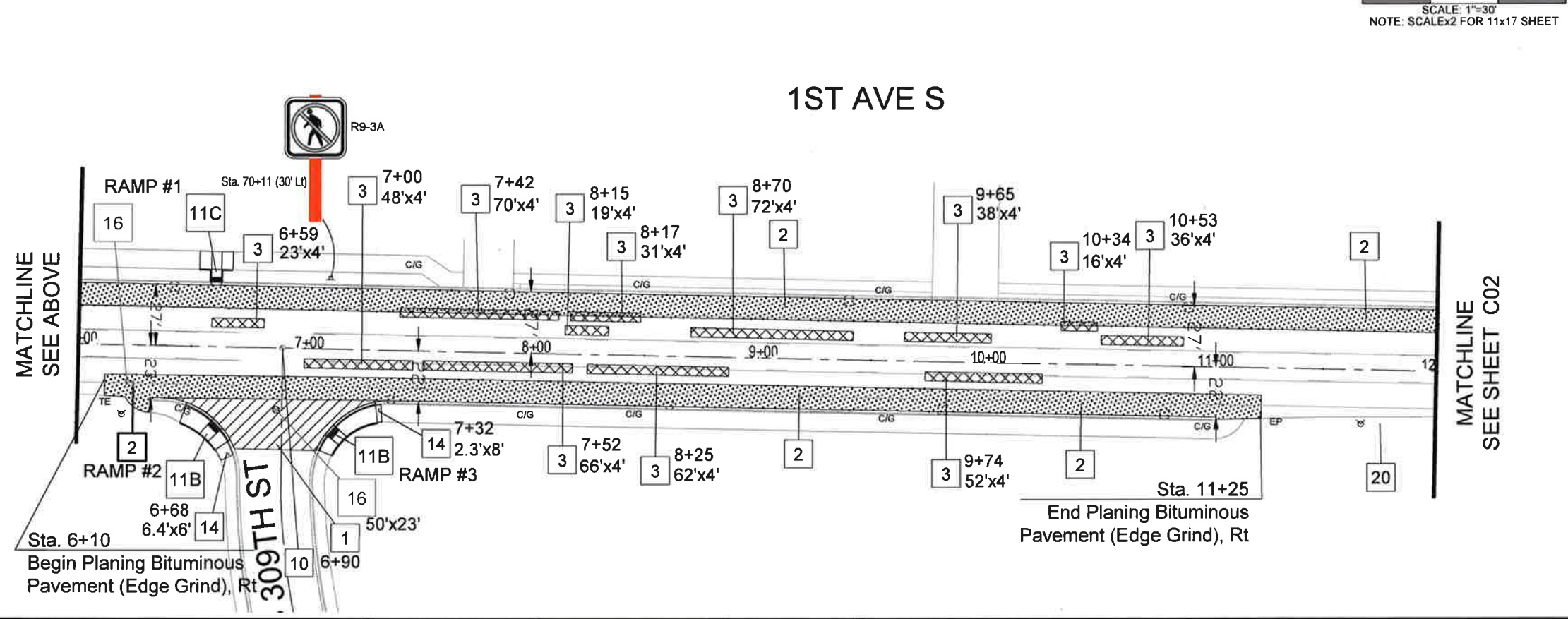
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SH 25 OF 42

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- SITE PREPARATION AND CONSTRUCTION NOTES:**
- 1 = BUTT JOINT AT STATION OR LOCATION INDICATED. FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER.
 - 2 = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER.
 - 3 = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
 - 4 SOD, INCL. 4" TOPSOIL
 - 5 SAWCUT ASPHALT PAVEMENT
 - 6 SAWCUT CEMENT CONCRETE
 - 7 CONVERT SQUARE LID & FRAME TO ROUND AND ADJUST TO GRADE
 - 8 ADJUST MANHOLE
 - 9 ADJUST CATCH BASIN
 - 10 ADJUST MONUMENT CASE AND COVER
 - 11 A CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
 - 11 B CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 - 11 C CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 - 11 D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. APPROACH
 - 13 CEMENT CONC. CURB AND GUTTER
 - 14 CEMENT CONC. SIDEWALK
 - 15 DETECTOR LOOP
 - 16 ADJUST UTILITY BY OTHER
 - 17 REPLACE EXISTING FRAME AND GRATE WITH ERGO FRAME LID WITH AN IMPACT RISER AND ADJUST TO FINISHED GRADE (BOTH PROVIDED BY CITY)
 - 18 RE-GROUT CATCH BASIN
 - 19 ADJUST UTILITY
 - 20 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION INCLUDING HAUL



- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊕ = MONUMENT CASE
 - ⊙ = EXISTING FIRE HYDRANT
 - ⊞ = EXISTING STORM DRAIN CATCH BASIN
 - ⊚ = EXISTING MANHOLE
 - ⊛ = EXISTING STORM DRAIN MANHOLE
 - ⊠ = EXISTING JUNCTION BOX
 - ⊞ = INLET PROTECTION
 - = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

CITY OF Federal Way

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0.5	2/8/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

**SCHEDULE C
1ST AVE S**

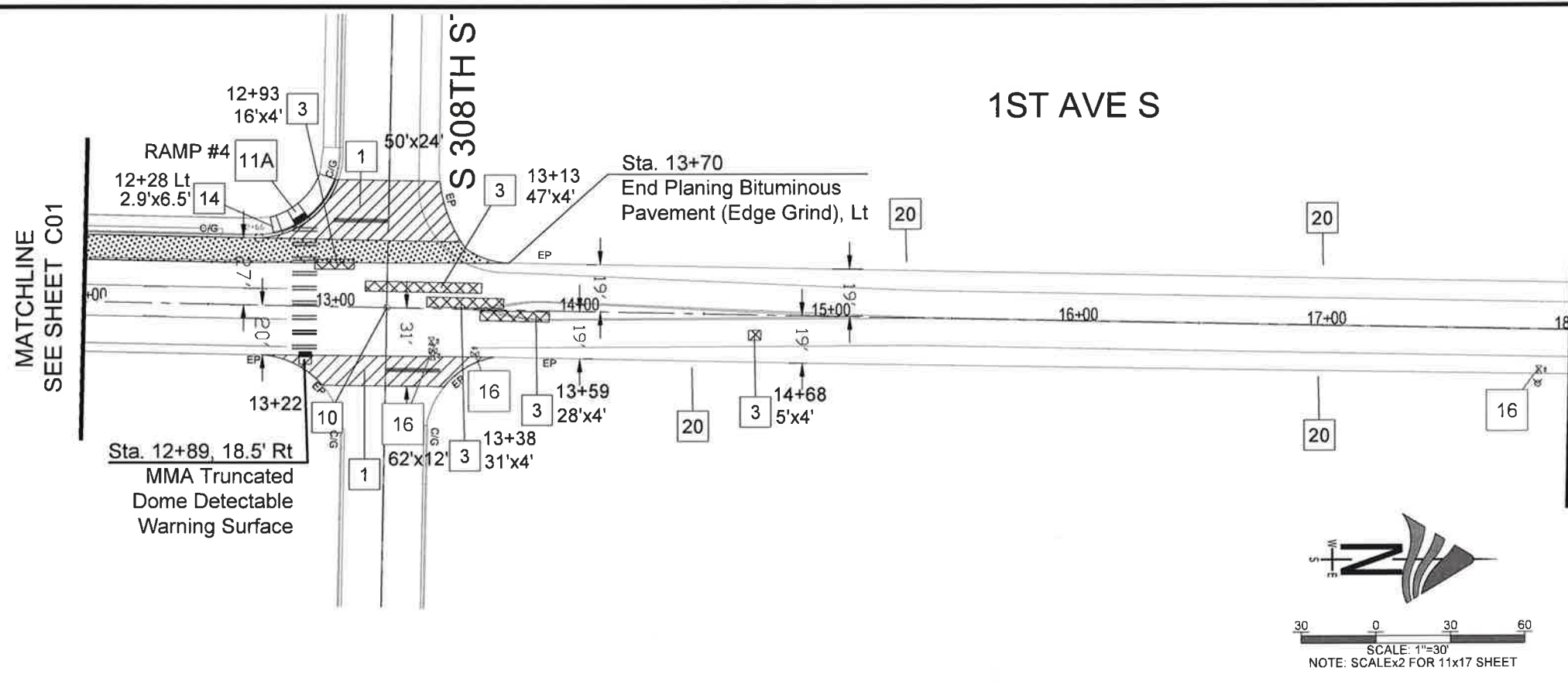
**SITE PREPARATION & PAVING PLAN
0+27 TO 12+00**

RFB #:
19-001

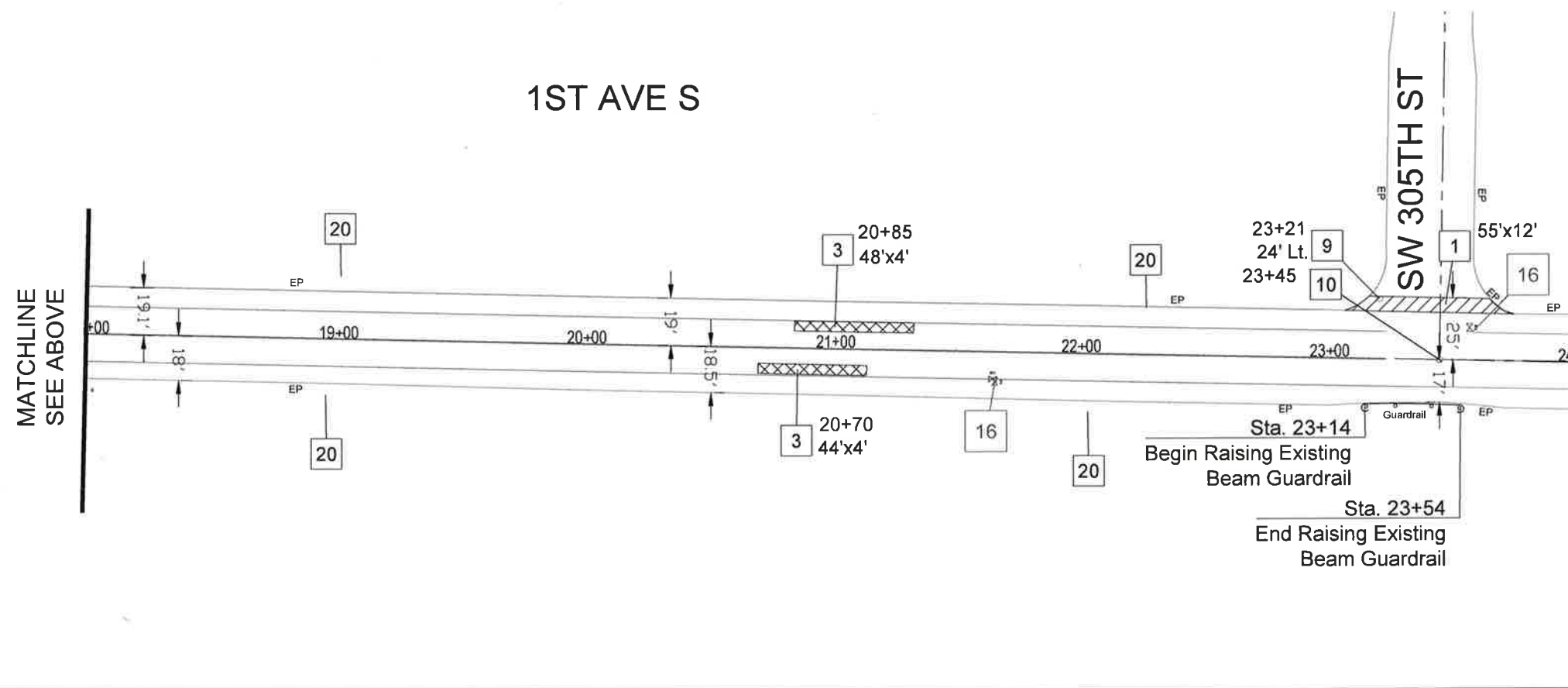
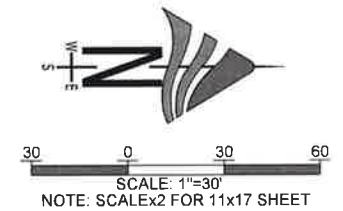
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SHT. 26 of 42

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 Rev/Plot by: Paul Heiler



- SITE PREPARATION AND CONSTRUCTION NOTES:**
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 - 2 = PLANE WIDTH AS INDICATED. FULL DEPTH AT FACE OF GUTTER.
 - 3 = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
 - 4 SOD, INCL. 4" TOPSOIL
 - 5 SAWCUT ASPHALT PAVEMENT
 - 6 SAWCUT CEMENT CONCRETE
 - 7 CONVERT SQUARE LID & FRAME TO ROUND AND ADJUST TO GRADE
 - 8 ADJUST MANHOLE
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 - 10 ADJUST MONUMENT CASE AND COVER
 - 11 A CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
 - 11 B CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 - 11 C CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
 - 11 D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. APPROACH
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 - = EXISTING STORM DRAIN CATCH BASIN
 - = EXISTING MANHOLE
 - = EXISTING STORM DRAIN MANHOLE
 - = EXISTING JUNCTION BOX
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 - * = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

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#	DATE	DESCRIPTION
0.5	2/6/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

SCHEDULE C
1ST AVE S

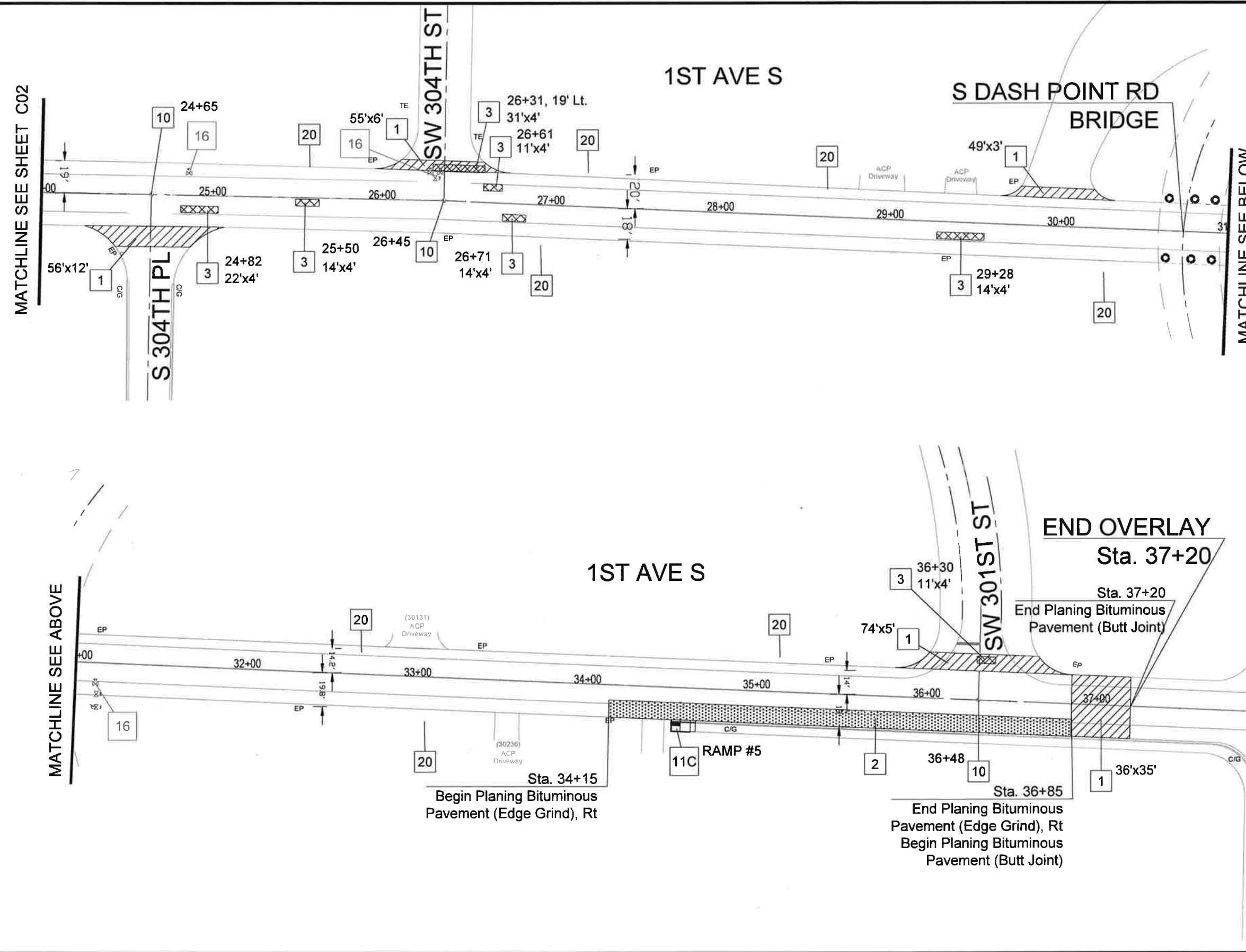
SITE PREPARATION & PAVING PLAN
12+00 TO 24+00

RFB #:
19-001

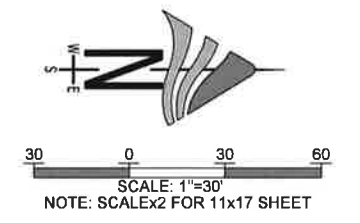
C02

SH. 27 of 42

Parent Sheet No.: 20190207
 Rev: 01/11/2019
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 1ST AVE S
 24+00 TO 37+20
 01.11.2019
 Schedule C
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- SITE PREPARATION AND CONSTRUCTION NOTES:**
- 1 [Hatched Pattern] = BUTT JOINT AT STATION OR LOCATION INDICATED, FULL DEPTH AT MATCH LINE AND TRANSITION TO 0" AT DISTANCE DIRECTED BY ENGINEER.
 - 2 [Dotted Pattern] = PLANE WIDTH AS INDICATED, FULL DEPTH AT FACE OF GUTTER.
 - 3 [Cross-hatched Pattern] = PAVEMENT REPAIR AND PAVEMENT PATCHING PER SECTIONS & DETAILS SHEET 38 OF 42.
 - 4 SOD, INCL. 4" TOPSOIL
 - 5 SAWCUT ASPHALT PAVEMENT
 - 6 SAWCUT CEMENT CONCRETE
 - 7 CONVERT SQUARE LID & FRAME TO ROUND AND ADJUST TO GRADE
 - 8 ADJUST MANHOLE
 - 9 ADJUST CATCH BASIN
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 - 11A CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
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 - 11D CEMENT CONC. CURB RAMP TYPE 1 PERPENDICULAR
 - 12 CEMENT CONC. APPROACH
 - 13 CEMENT CONC. CURB AND GUTTER
 - 14 CEMENT CONC. SIDEWALK
 - 15 DETECTOR LOOP
 - 16 ADJUST UTILITY BY OTHER
 - 17 REPLACE EXISTING FRAME AND GRATE WITH ERGO FRAME LID WITH AN IMPACT RISER AND ADJUST TO FINISHED GRADE (BOTH PROVIDED BY CITY)
 - 18 RE-GROUT CATCH BASIN
 - 19 ADJUST UTILITY
 - 20 MAINTENANCE ROCK FOR SHOULDER RECONSTRUCTION INCLUDING HAUL



- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊠ = MONUMENT CASE
 - ⊙ = EXISTING FIRE HYDRANT
 - ⊕ = EXISTING STORM DRAIN CATCH BASIN
 - ⊗ = EXISTING MANHOLE
 - ⊚ = EXISTING STORM DRAIN MANHOLE
 - ⊛ = EXISTING JUNCTION BOX
 - = INLET PROTECTION
 - = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING

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 EMAIL:
 jeff.huynh@cityoffederalway.com

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DRAWING VERSION / REVISION LOG		
#	DATE	DESCRIPTION
0.5	2/6/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

SCHEDULE C
1ST AVE S
SITE PREPARATION & PAVING PLAN
24+00 TO 37+20

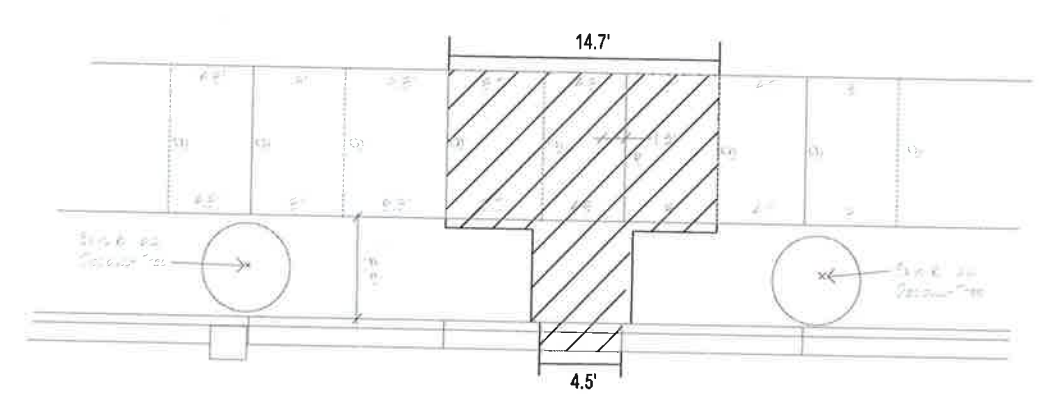
RFB #:
19-001
C03
 SHT. 28 of 42

CURB RAMP # 1	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	100.22 (@ FL)
B	100.24 (@ FL)
C	100.82
D	100.96
E	100.26
F	100.69
G	100.83
H	100.28
I	100.71
J	100.85
K	101.01
L	101.15



JT = Dummy Joint or Through Joint
S = Scribe or Western Groove Joint

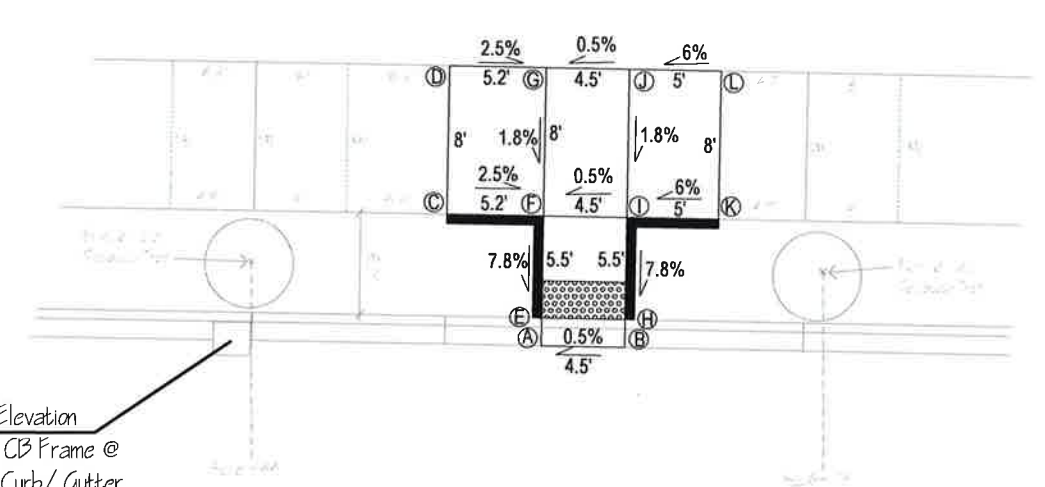
1ST AVE S



PLAN VIEW
EXISTING SIDEWALK

S 309TH ST

EASTSIDE OF 1ST AVE S
at Sta. 6+62
NTS



Assumed Elevation
Center of CB Frame @
Flow Line Curb/ Gutter.
Elev. = 100.00

PLAN VIEW
CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
CURB RAMP # 1

Parent Sheet: 20190201way
 Rev: 25/2019 2:17 PM
 Individual File Path: I:\CP\FILE\Vegetation\Map\Drawings\PLANS\STREET\PROJECT\2019 OVERLAY\CAD Files - Working Folder As of 01/11/2019\Schedule C-Sheets.dwg
 Rev/Mod by: Paul Heiler

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#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

SCHEDULE C
1ST AVE S

CURB RAMP DETAILS
SE CORNER 1ST AVE S & S 309TH ST

RFB #:
19-001

C04

SHT. 29 of 42

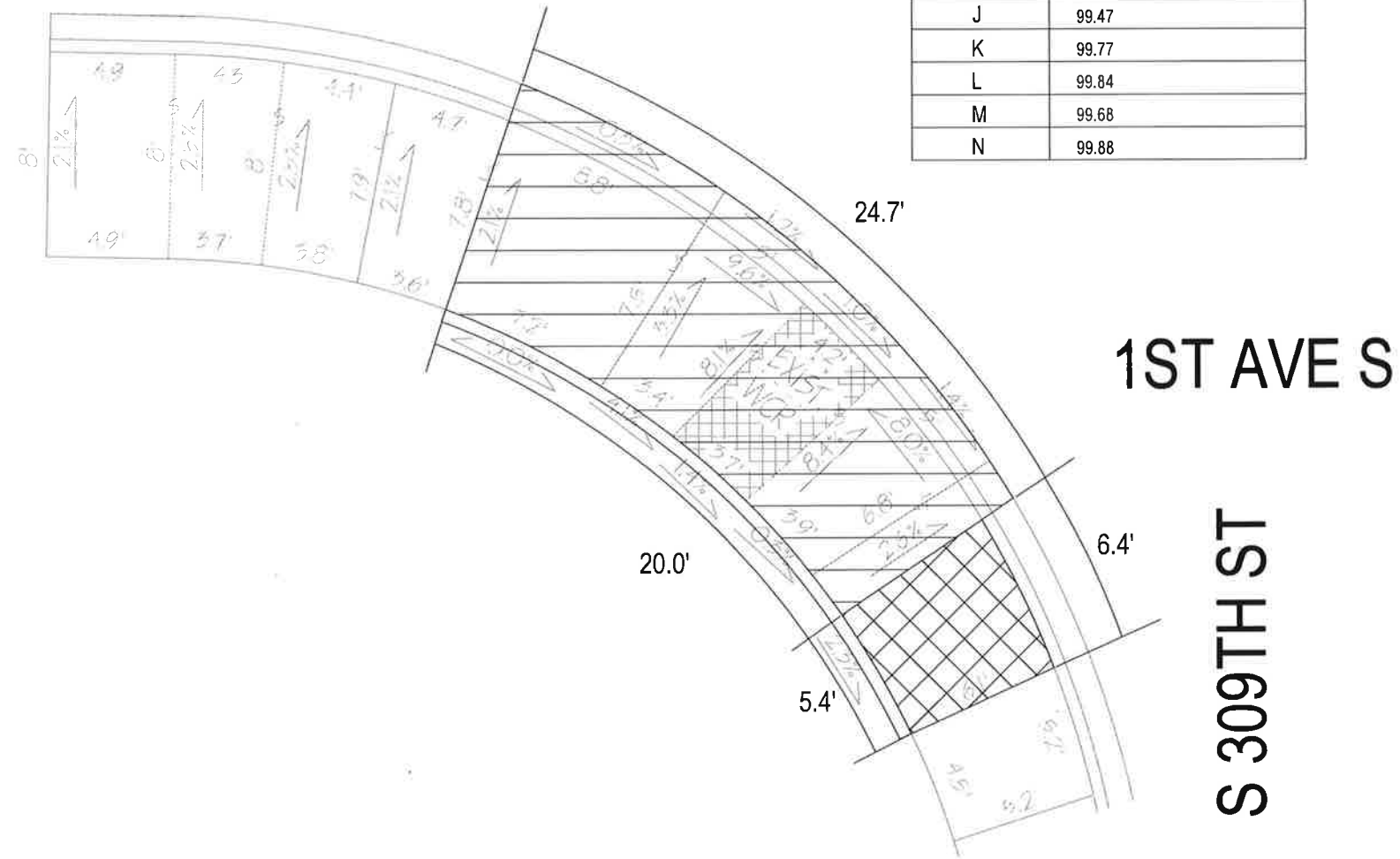
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SPOT ELEVATION CHART	
POINT	ELEVATION
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B	99.39 (@ FL)
C	99.34 (@ FL)
D	99.27 (@ FL)
E	100.01
F	100.18
G	99.40
H	99.52
I	99.35
J	99.47
K	99.77
L	99.84
M	99.68
N	99.88



JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint

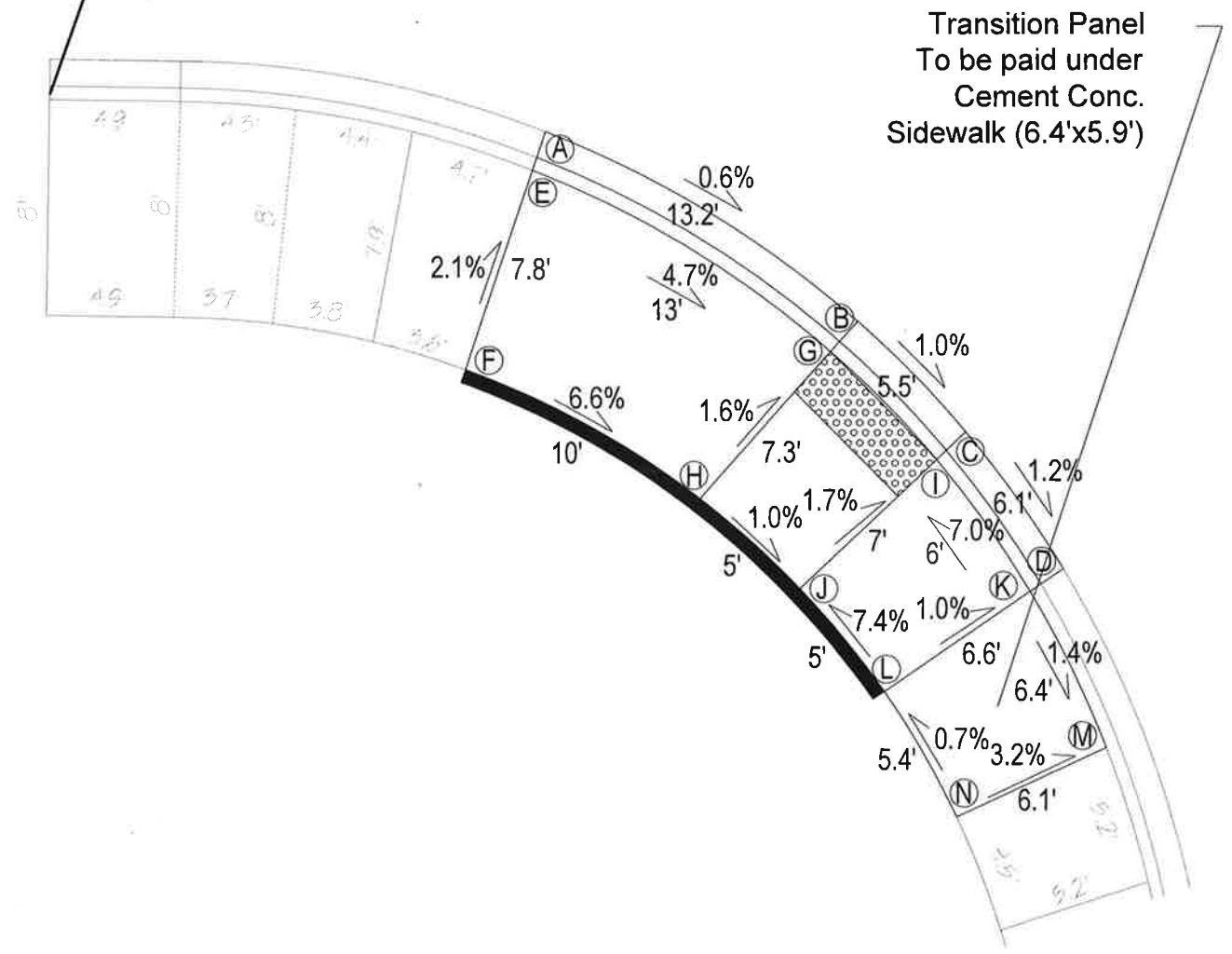


Assumed Elevation
 Top of Existing Curb South End
 Curb / Cutter & Sidewalk, Right.
 Elev. = 100.00



PLAN VIEW
 EXISTING CURB RAMP

SE CORNER 1ST AVE S
 AND S 309TH ST
 NTS



PLAN VIEW
 CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
 CURB RAMP # 2

Parent Sheet Set: 201906ashby
 Rev/Ret'd by: Paul Haber
 Rev on: 2/5/2019 2:17 PM
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2019 ASPHALT OVERLAY PROJECT

SCHEDULE C
 1ST AVE S
 CURB RAMP DETAILS
 NE CORNER 1ST AVE S & S 309TH ST

RFB #:
 19-001
C05
 SHT 30 OF 42



JT = Dummy Joint or Through Joint
S = Scribe or Western Groove Joint

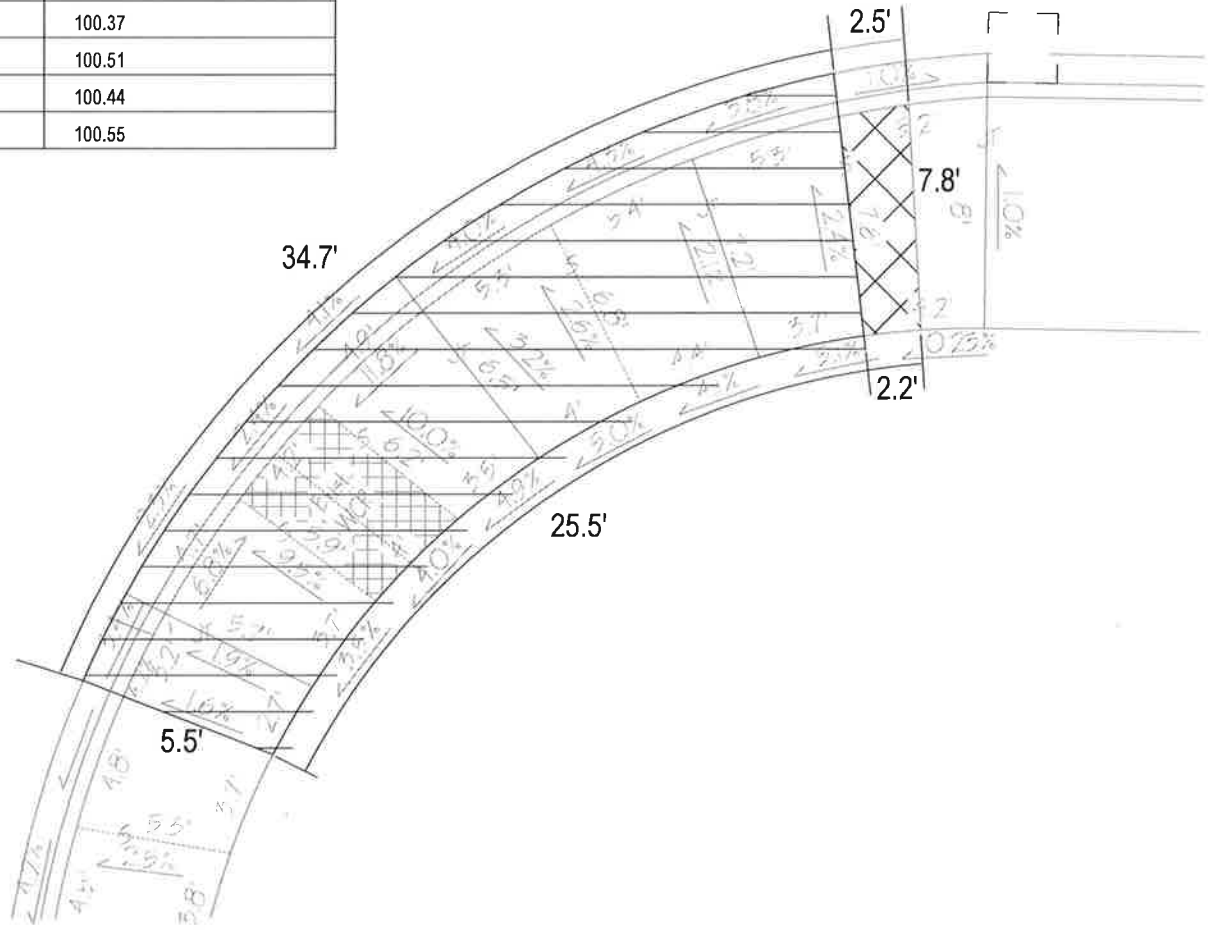
DATUM Assumed Elevation
Center of CB Frame @
Flow Line Curb/ Gutter.
Elev. = 100.00

CURB RAMP # 3	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	98.80 (@ FL)
B	99.02 (@ FL)
C	99.14 (@ FL)
D	99.96 (@ FL)
E	99.31
F	99.40
G	99.03
H	99.13
I	99.15
J	99.25
K	100.37
L	100.51
M	100.44
N	100.55

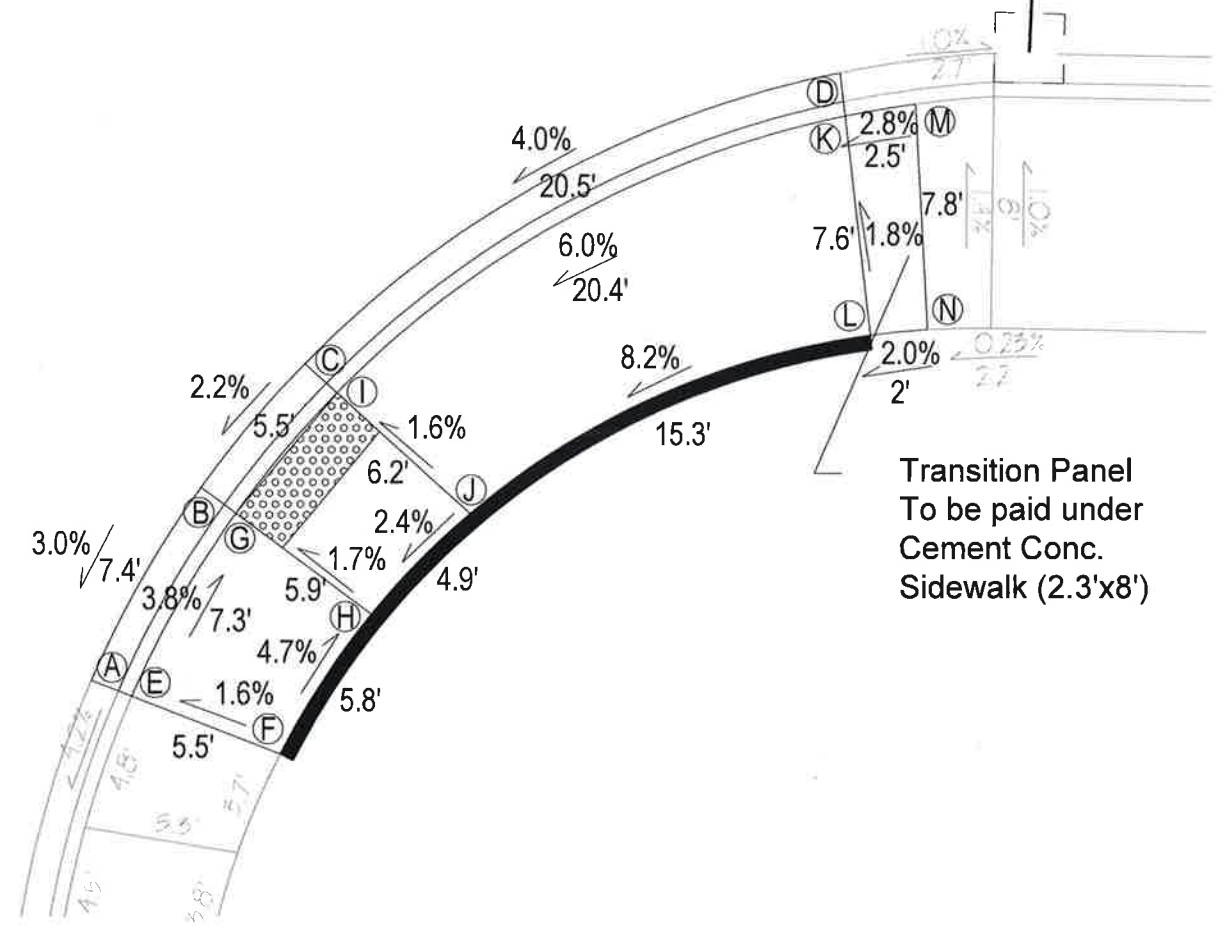
1ST AVE S

S 309TH ST

NE CORNER 1ST AVE S
AND S 309TH ST
NTS



PLAN VIEW
EXISTING CURB RAMP



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE 2 PARALLEL
CURB RAMP # 3

Transition Panel
To be paid under
Cement Conc.
Sidewalk (2.3'x8')

Drawn by: Paul Hinder
 Rev. on: 2/6/2019 8:29 AM
 Individual File Path: U:\CITY\FILE\Information\Map\2019\ASPHALT\2019 OVERLAY\CAD\Drawings\PLANS\STREETS\PROJECTS\2019 OVERLAY\CAD Files - Working Folder As of 01/11/2019\Schedule C\Sheet.dwg

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2019 ASPHALT
OVERLAY PROJECT

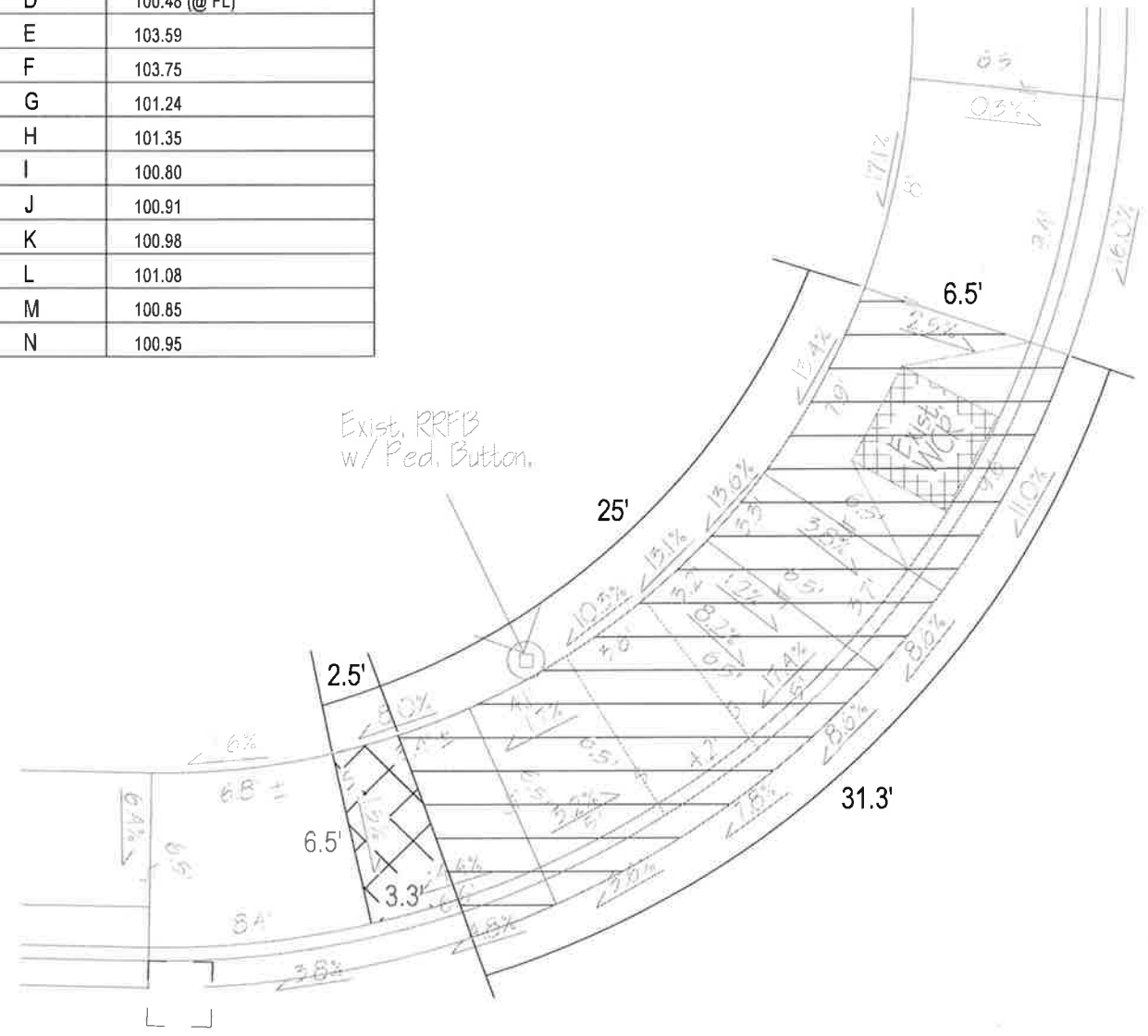
SCHEDULE C
1ST AVE S
CURB RAMP DETAILS
SW CORNER 1ST AVE S & S 308TH ST

RFB #:
19-001
C06
SHEET 31 OF 42

CURB RAMP # 4	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	103.09 (@ FL)
B	101.23 (@ FL)
C	100.79 (@ FL)
D	100.48 (@ FL)
E	103.59
F	103.75
G	101.24
H	101.35
I	100.80
J	100.91
K	100.98
L	101.08
M	100.65
N	100.95



JT = Dummy Joint or Through Joint
S = Scribe or Western Groove Joint



PLAN VIEW
EXISTING CURB RAMP

S 308TH ST

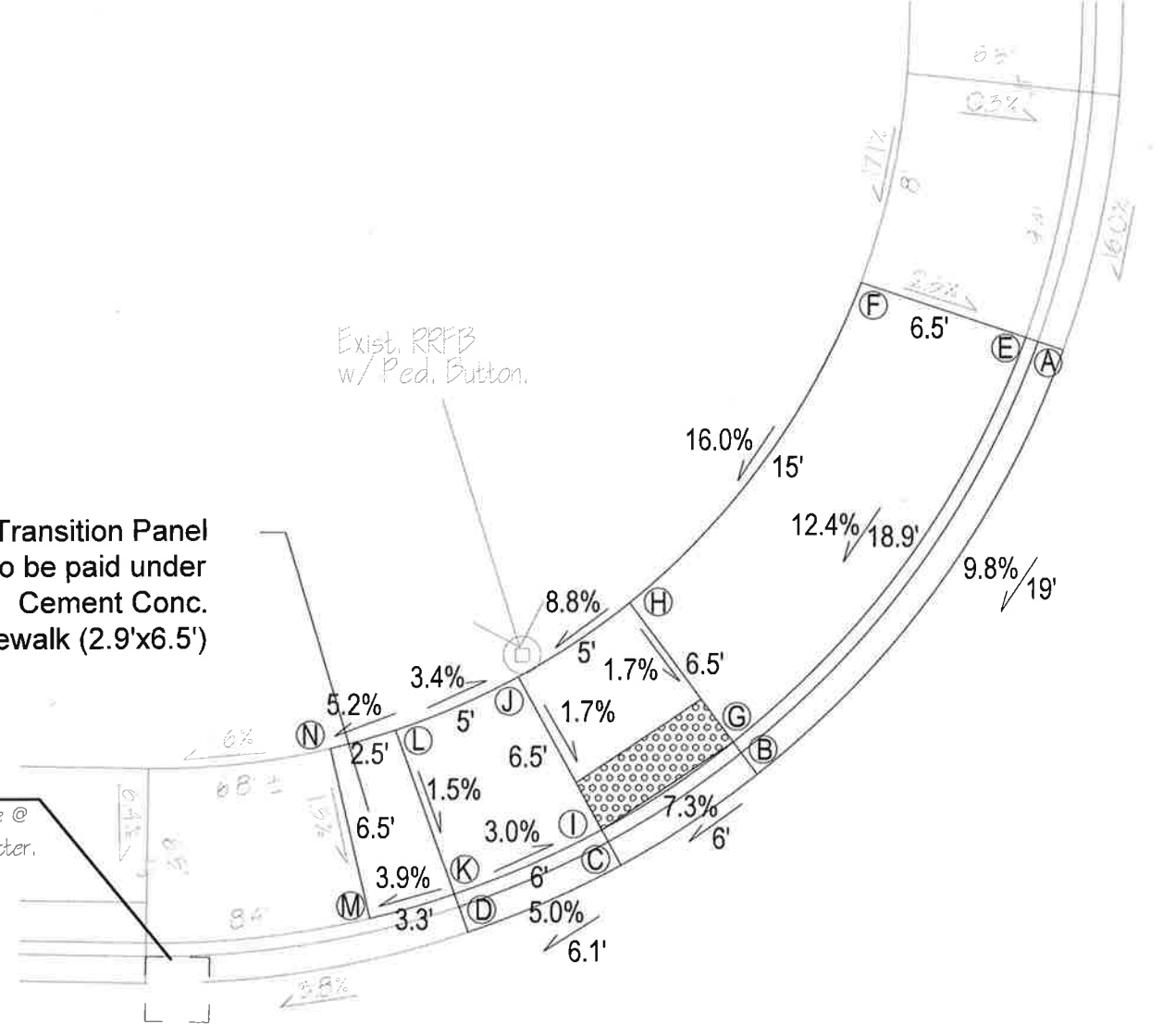
1ST AVE S

SW CORNER 1ST AVE S
AND S 308TH ST
NTS



Assumed Elevation
Center of CB Frame @
Flow Line Curb/ Gutter.
Elev. = 100.00

Transition Panel
To be paid under
Cement Conc.
Sidewalk (2.9'x6.5')



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE 1 PARALLEL
CURB RAMP # 4

Revision: 25/2019 2:17 PM

Parent Sheet: 20190204bby

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#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

SCHEDULE C
1ST AVE S

CURB RAMP DETAILS
EASTSIDE OF 1ST AVE S @ STA 34+50

RFB #:
19-001

C07

SHT. 32 OF 42

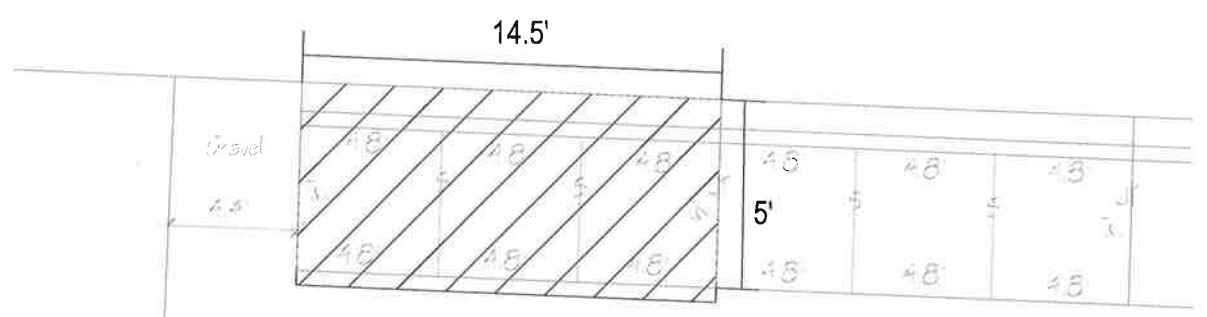
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CURB RAMP # 5	
SPOT ELEVATION CHART	
POINT	ELEVATION
A	100.37 (@ FL)
B	100.27 (@ FL)
C	100.05 (@ FL)
D	99.94 (@ FL)
E	100.38
F	100.46
G	100.28
H	100.37
I	100.55
J	100.64
K	100.44
L	100.66



JT = Dummy Joint or Through Joint
 S = Scribe or Western Groove Joint

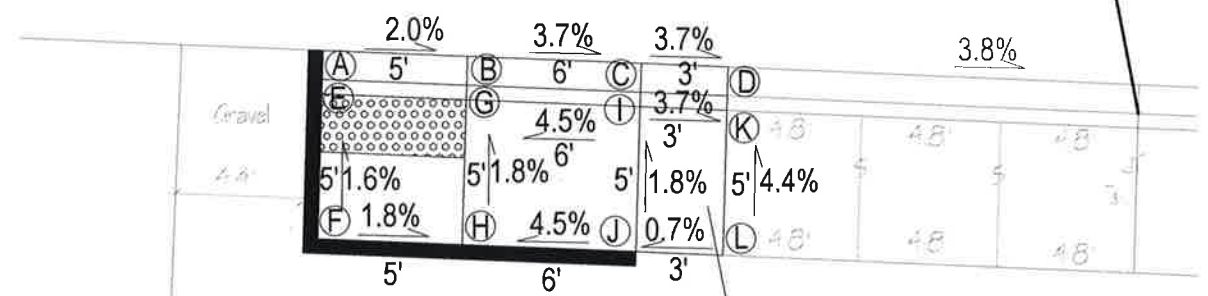
1ST AVE S



PLAN VIEW
EXISTING SIDEWALK

S 309TH ST

EASTSIDE OF 1ST AVE S
at Sta. 34+50
NTS



PLAN VIEW
CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION
CURB RAMP # 5

Removal and Replacement of this Transition Panel is incidental to Conc. Curb Ramp

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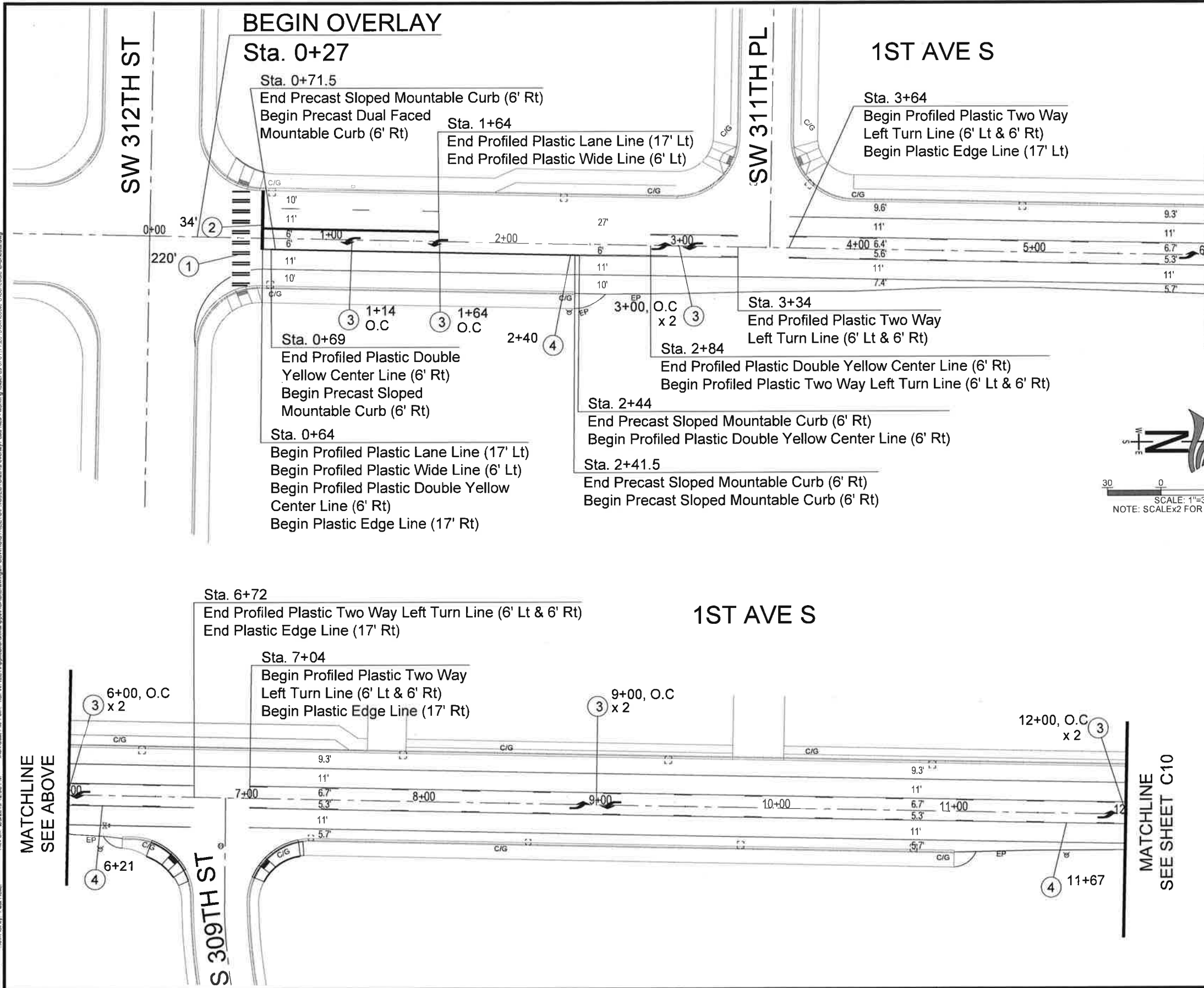
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#	DATE	DESCRIPTION
0.5	2/5/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

SCHEDULE C
1ST AVE S
CURB RAMP DETAILS
SE CORNER 1ST AVE S & S 309TH ST

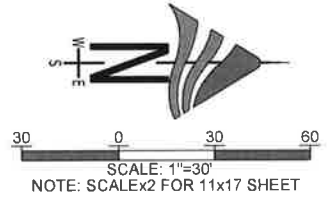
RFB #:
 19-001
C08
 SH# 33 OF 42

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 Rev on: 2/6/2019 12:56 PM
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 C:\Schedule_C\Sheets.dwg



- CHANNELIZATION NOTES:**
- 1 PLASTIC CROSSWALK LINE
 - 2 PLASTIC STOP LINE
 - 3 PLASTIC TRAFFIC ARROW
 - 4 HYDRANT MARKER, TYPE 2B
 - 5 PLASTIC YIELD AHEAD SYMBOL
 - 6 PLASTIC TRAFFIC LETTER

- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊙ = MONUMENT CASE
 - ⊕ = EXISTING FIRE HYDRANT
 - ⊞ = EXISTING STORM DRAIN CATCH BASIN
 - ⊕ = EXISTING MANHOLE
 - ⊕ = EXISTING STORM DRAIN MANHOLE
 - ⊕ = EXISTING JUNCTION BOX
 - = INLET PROTECTION
 - * = PAVEMENT REPAIR SHALL BE DONE PRIOR TO PLANING



MATCHLINE
SEE BELOW

MATCHLINE
SEE ABOVE

MATCHLINE
SEE SHEET C10

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#	DATE	DESCRIPTION
0.5	2/6/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

**SCHEDULE C
1ST AVE S**

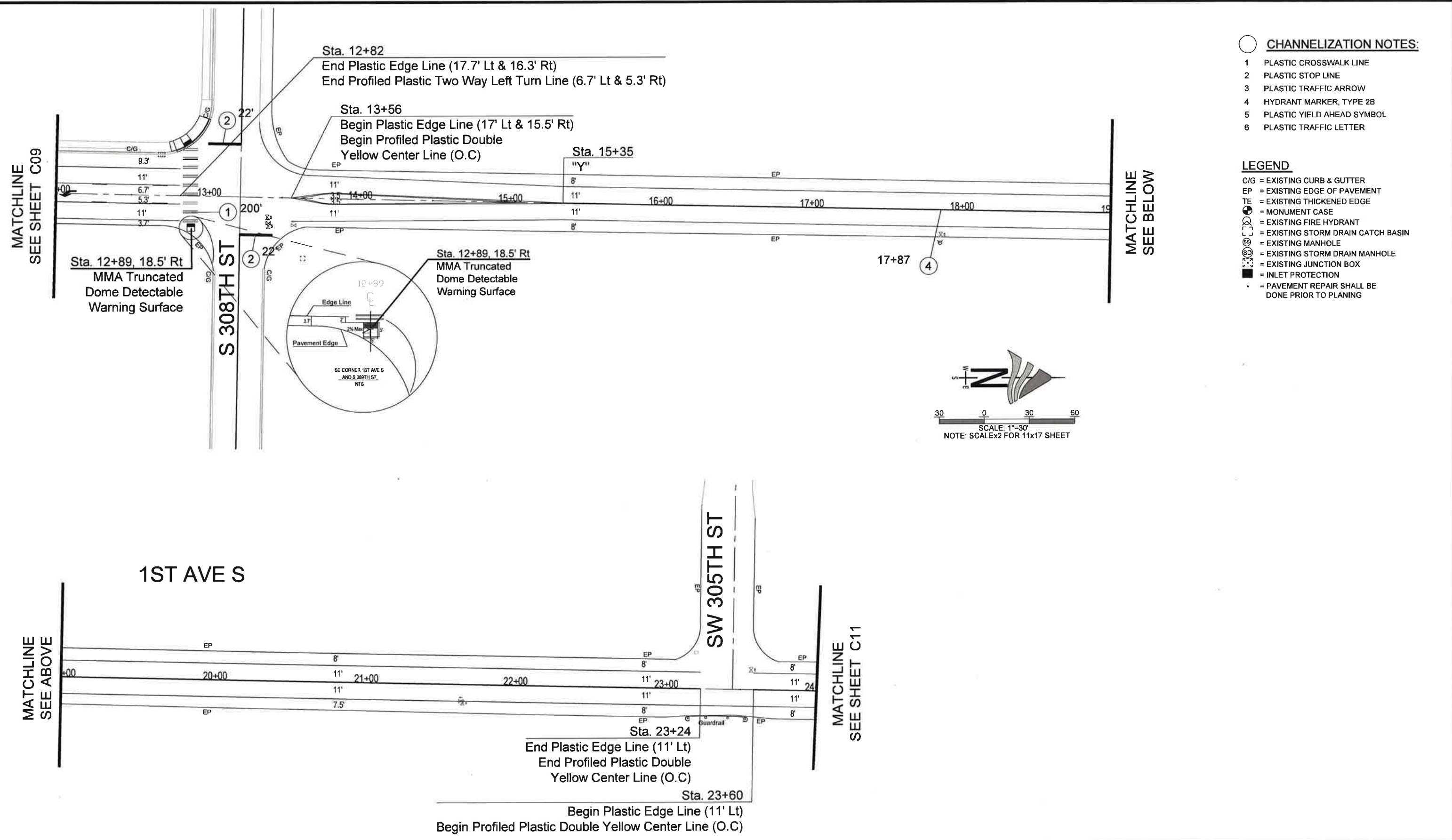
**CHANNELIZATION PLAN
0+27 TO 12+00**

RFB #:
19-001

C09

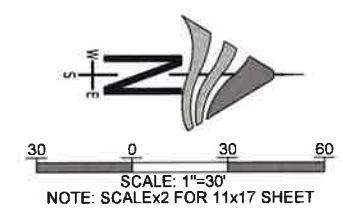
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 Rev/Plot by: Paul Heiler
 Parent Sheet: 01 - 2/18/2019



- CHANNELIZATION NOTES:**
- 1 PLASTIC CROSSWALK LINE
 - 2 PLASTIC STOP LINE
 - 3 PLASTIC TRAFFIC ARROW
 - 4 HYDRANT MARKER, TYPE 2B
 - 5 PLASTIC YIELD AHEAD SYMBOL
 - 6 PLASTIC TRAFFIC LETTER

- LEGEND**
- C/G = EXISTING CURB & GUTTER
 - EP = EXISTING EDGE OF PAVEMENT
 - TE = EXISTING THICKENED EDGE
 - ⊙ = MONUMENT CASE
 - ⊕ = EXISTING FIRE HYDRANT
 - ⊡ = EXISTING STORM DRAIN CATCH BASIN
 - ⊕ = EXISTING MANHOLE
 - ⊕ = EXISTING STORM DRAIN MANHOLE
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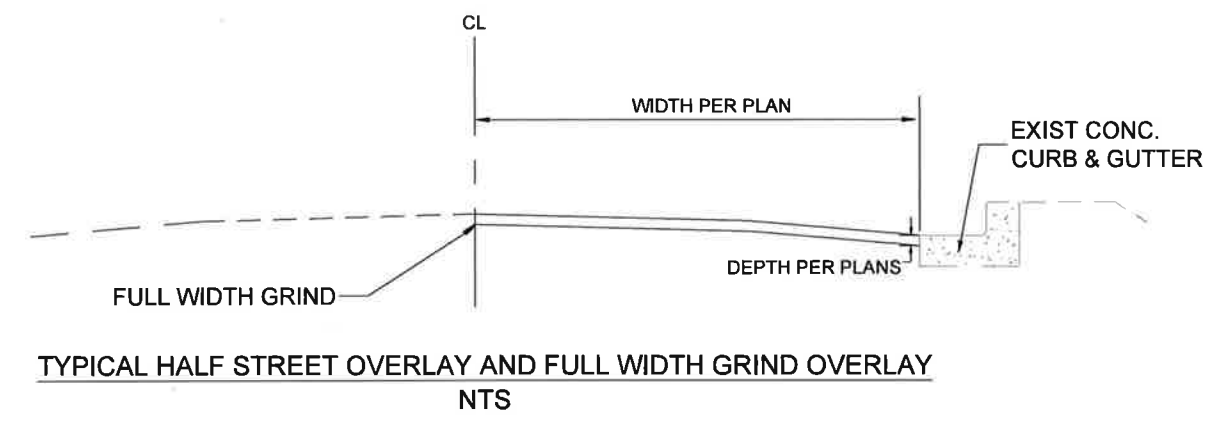
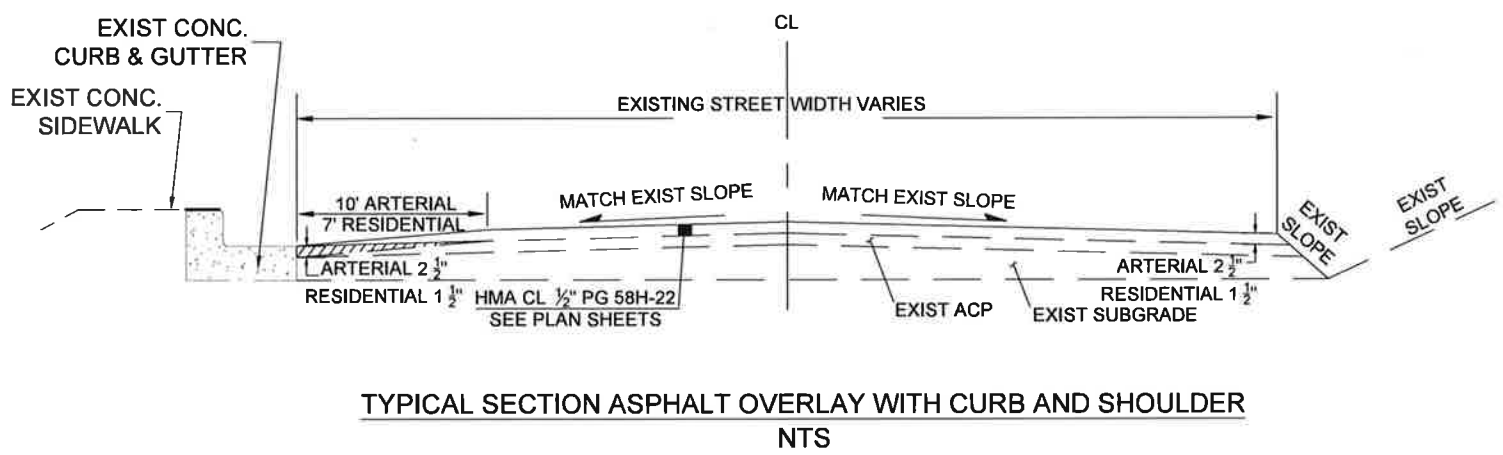
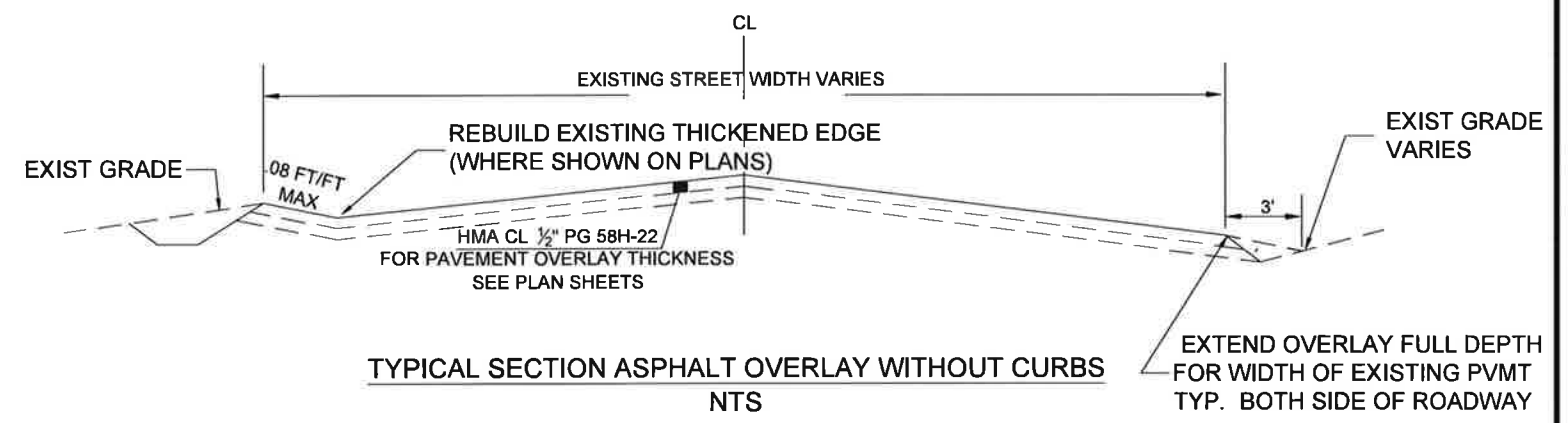
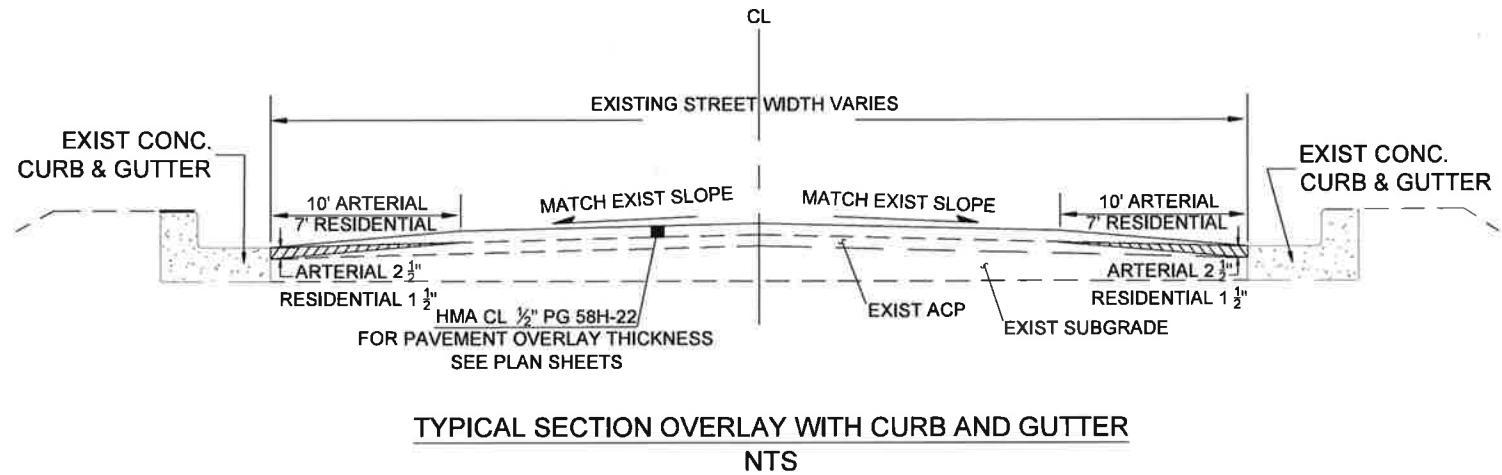
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0.5	2/6/2019	INITIAL DESIGN

2019 ASPHALT OVERLAY PROJECT

**SCHEDULE C
 1ST AVE S
 CHANNELIZATION PLAN
 12+00 TO 24+00**

RFB #:
 19-001
C10
 SH. 35 of 42

Rev on: 2/5/2019 2:17 PM
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 Rev/Plat by: Paul Heber
 Parent Sheet Set: 2019 Overlay



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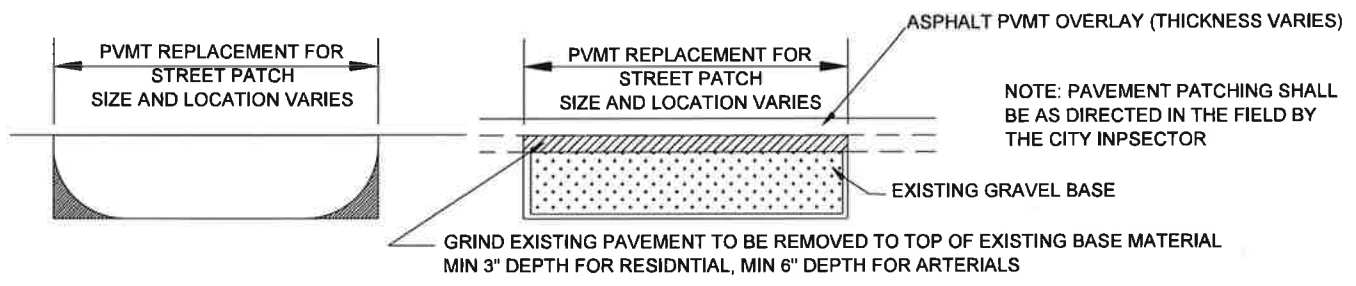
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2019 ASPHALT OVERLAY PROJECT

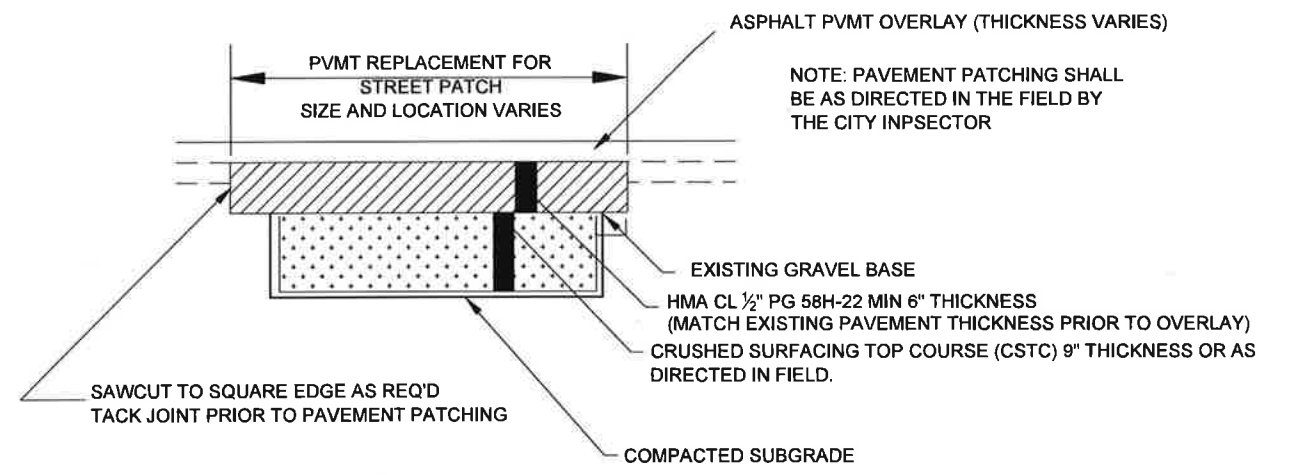
SECTIONS & DETAILS
 PAGE 1 OF 4
 PAVEMENT REPAIR, PLANING, & OVERLAY DETAILS

RFB #:
 19-001
 SD01
 SHT. 37 OF 42

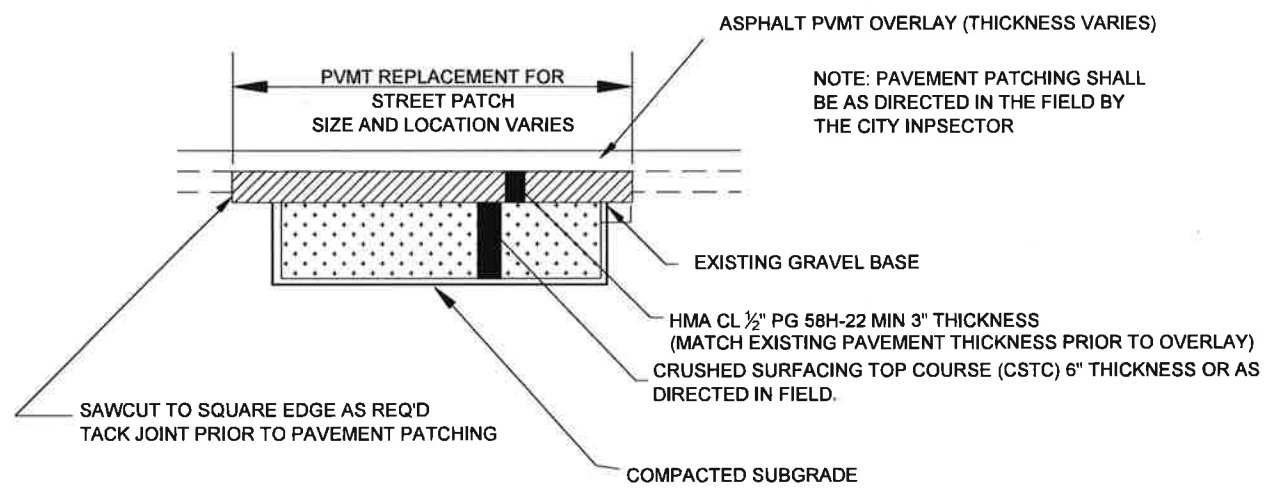
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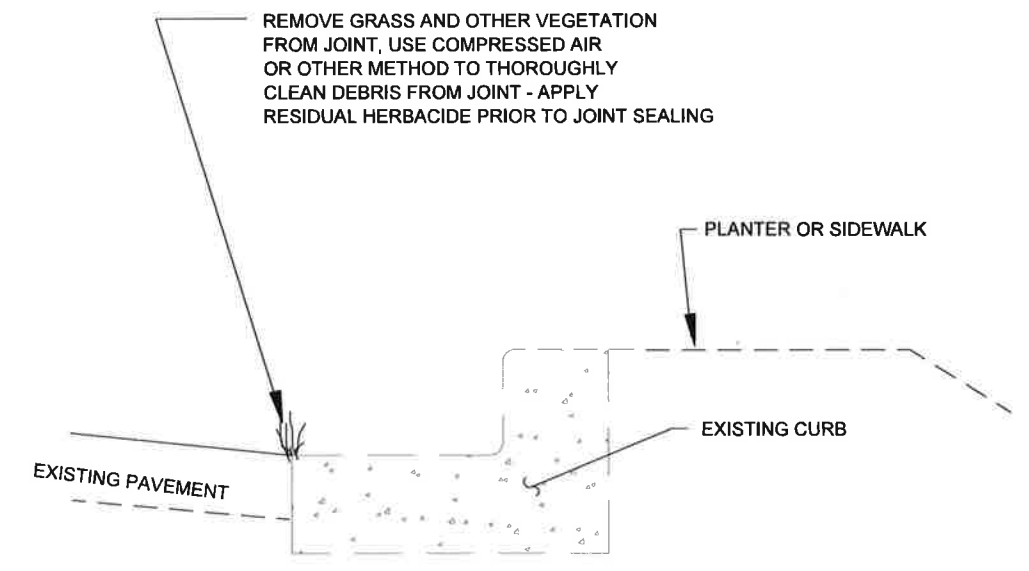
ALTERNATE PAVEMENT PATCHING DETAIL




ARTERIAL PAVEMENT PATCHING DETAIL



RESIDENTIAL PAVEMENT PATCHING DETAIL



JOINT REPAIR CLEANING ROADWAY NTS


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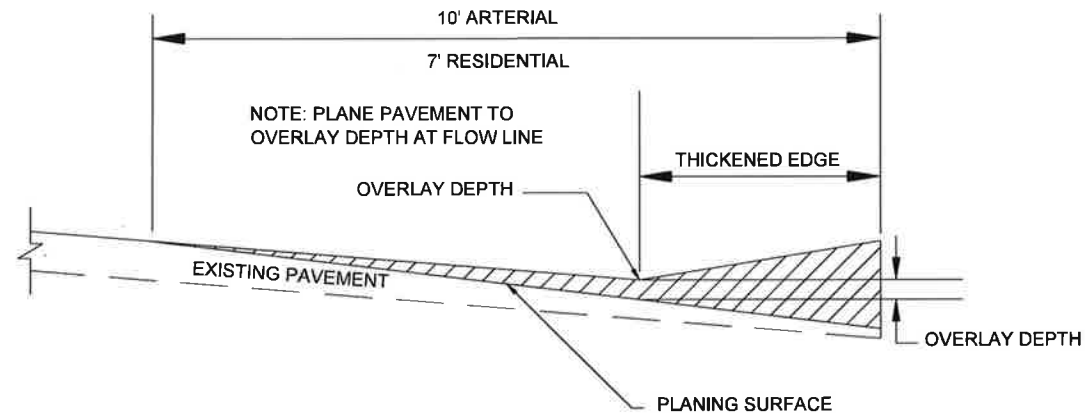


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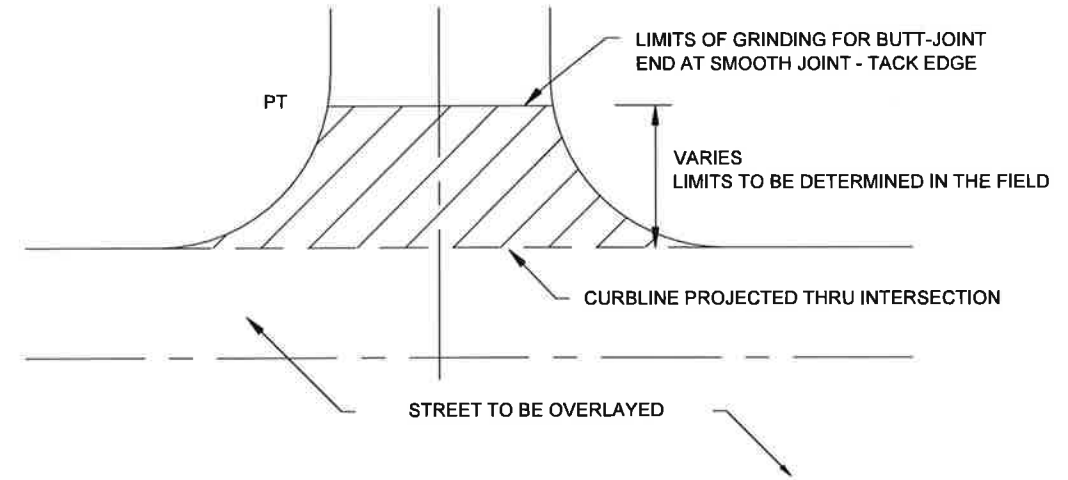
2019 ASPHALT OVERLAY PROJECT

SECTIONS & DETAILS
 PAGE 2 OF 4
PAVEMENT REPAIR, PLANING, & OVERLAY DETAILS

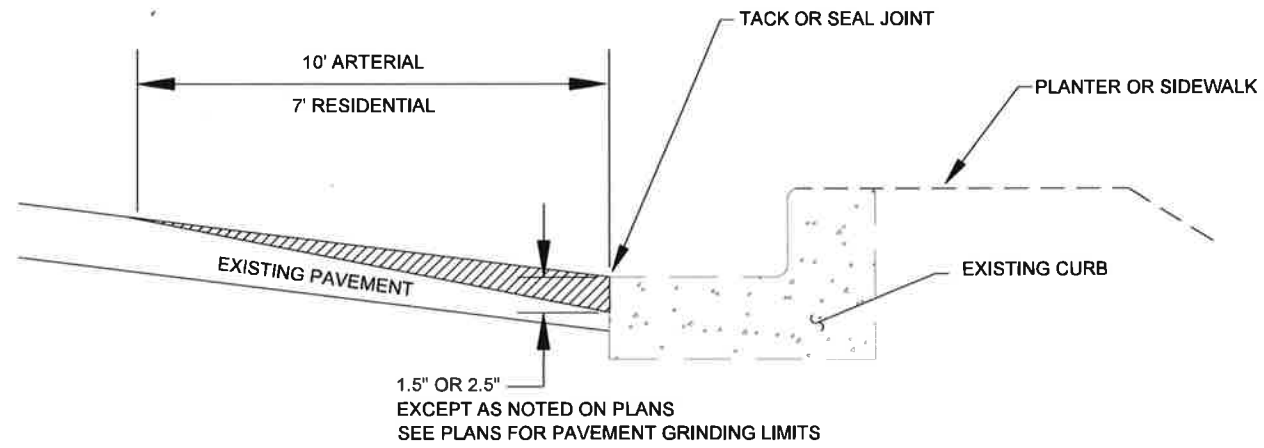
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 19-001
SD02
 SHEET 38 OF 42



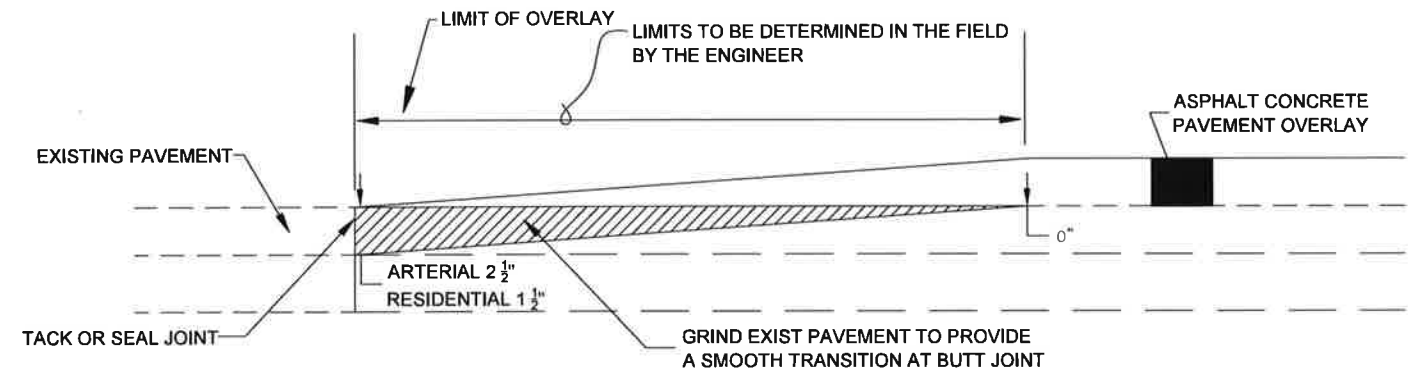
PLANING DETAIL FOR THICKENED EDGE AREAS
NTS



BUTT-JOINT AT TYPICAL INTERSECTION
NTS



EDGE PLANING DETAIL
NTS



BUTT-JOINT DETAIL
NTS

Rev'd by: Paul Holder, 2/5/2019 2:18 PM, Individual File Path: N:\FW\PE\1\Applications\Map\CAD\Drawings\19\ASPHALT OVERLAY\CD\Details.dwg, Plot Date: 01/11/2019 05:01:11

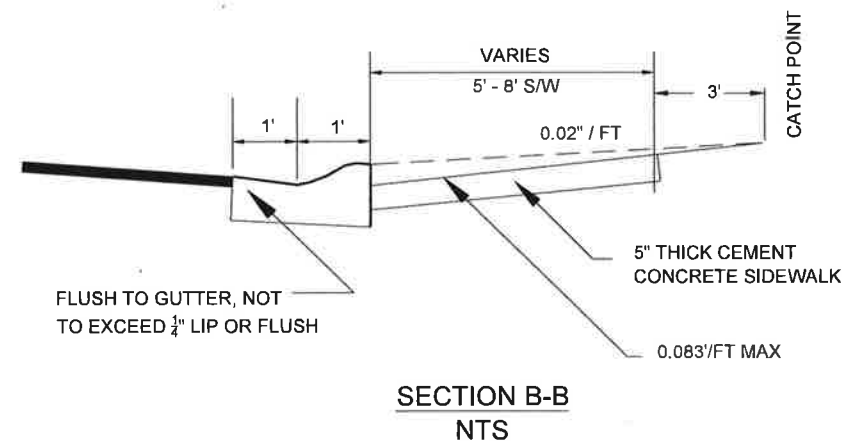
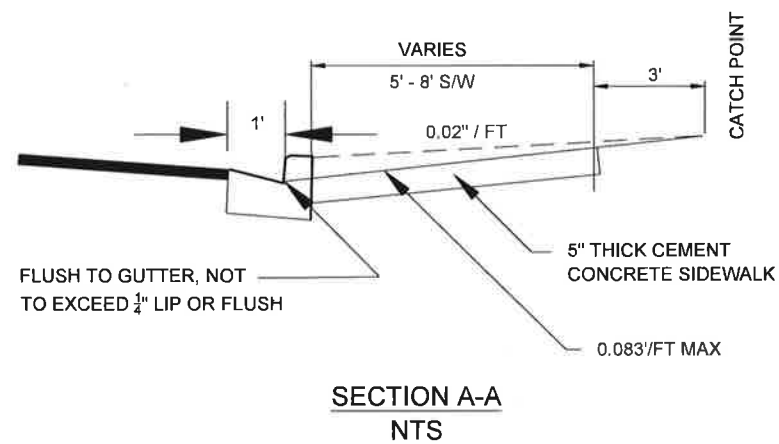
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 Rev on: 2/5/2019 2:18 PM
 Rev by: Paul Hader

Parent Sheet Set: 2019 Overlay

SECTION A-A
 PLAN VIEW VERTICAL CURB RAMP
 NTS

SECTION B-B
 PLAN VIEW ROLLED CURB RAMP
 NTS



CURB RAMPS IN VERTICAL OR ROLLED CURB

NOTES FOR CURB RAMP REMOVAL AND REPLACEMENT:

- EXISTING CURB RAMPS LOCATED AT INTERSECTIONS WITHIN THE LIMITS OF THE OVERLAY AREA SHALL BE REMOVED AND REPLACED WITH NEW CURB RAMPS CONFORMING TO THE REVISED STATE AND FEDERAL CRITERIA, AND THE DETAIL SHOWN.
- THE CITY OF FEDERAL WAY SHALL DESIGNATE THOSE RAMPS TO BE REMOVED AND RECONSTRUCTED. REMOVAL SHALL BE TO THE NEAREST JOINT. SAWCUT AT EXPANSION JOINT AS REQUIRED. REMOVE SIDEWALK AND CURB AND GUTTER AS REQUIRED TO OBTAIN ADEQUATE SPACING FOR NEW RAMP, TRANSITION AND WARNING STRIP.
- FOR DIMENSIONS OF CURB RAMPS, SEE DETAILS IN APPENDIX A OF SPECIFICATIONS.

RAMP NOTES:

- RAMP AND APPROACHES SHALL BE CLEAR OF ALL OBSTACLES INCLUDING HYDRANTS, POLES AND INLETS.
- VISUAL WARNING STRIP SHALL BE PROVIDED 4" WIDE BETWEEN EXPANSION AND SCORED (CONTRACTION JOINTS)
- RAMP CENTERLINE SHALL BE PERPENDICULAR (OR RADIAL) TO CURB RETURNS.
- WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF THE STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF THE STREET.
- ON ARTERIAL STREETS, IN GENERAL CASE CURB RAMPS SHALL BE CONSTRUCTED TWO PER RADIUS, IN OR PREFERABLE ADJACENT TO THE MAIN PEDESTRIAN PATHS, AND SHALL BE ALIGNED WITH THE CROSSWALKS.
- ON RESIDENTIAL STREETS AND/OR WHEN UTILITIES ARE IN CONFLICT OR STREET GRADE EXCEEDS 4.0% CURB RAMPS MAY BE CONSTRUCTED ONE PER RADIUS, AT MIDPOINT OF CURB RETURN OR AT MAIN PEDESTRIAN PATH.

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VERIFY SCALE
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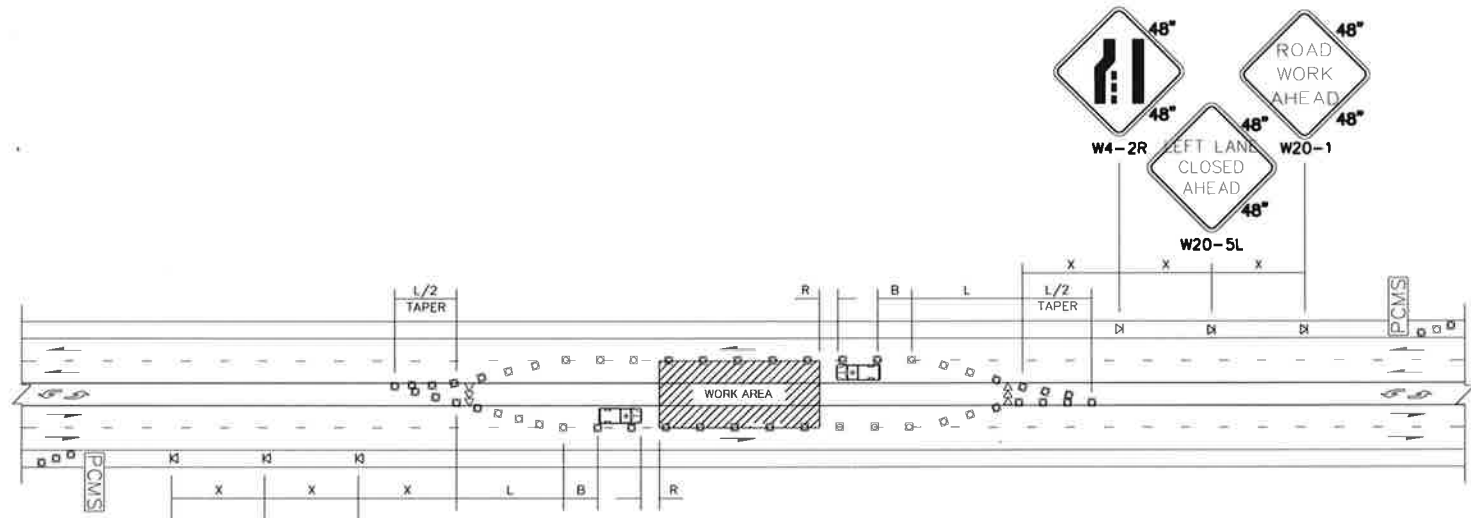
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2019 ASPHALT OVERLAY PROJECT

SECTIONS & DETAILS
 PAGE 4 OF 4
 PAVEMENT REPAIR, PLANING, & OVERLAY DETAILS

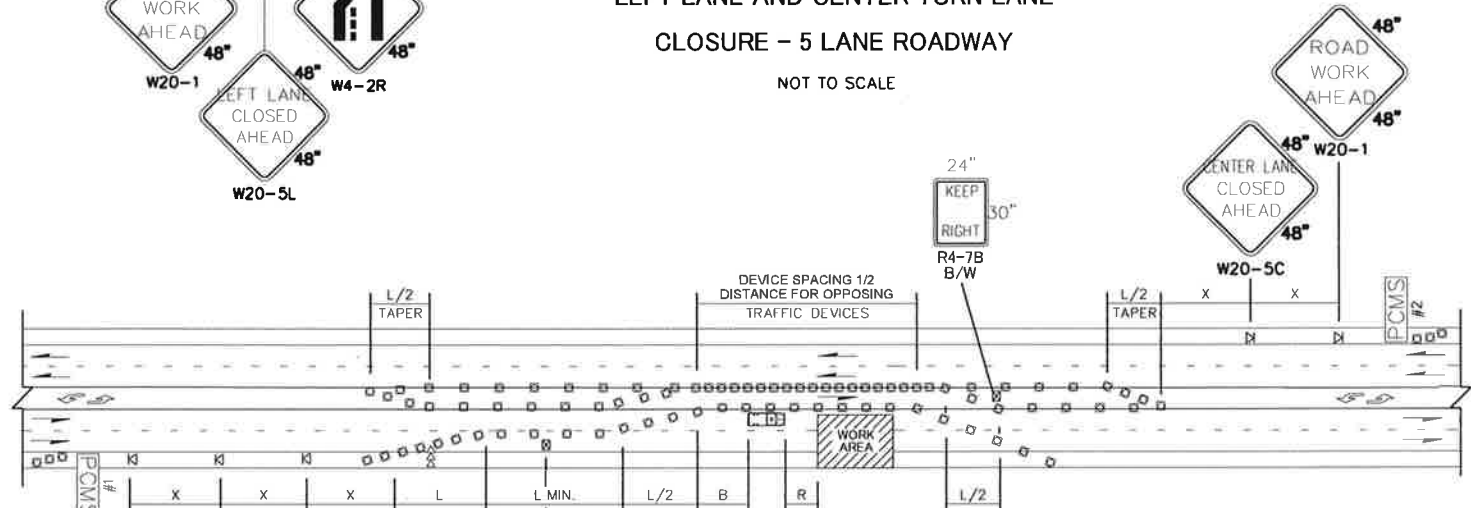
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 19-001
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 Review: 2/5/2019 2:18 PM
 Drawn by: Paul Hobbie



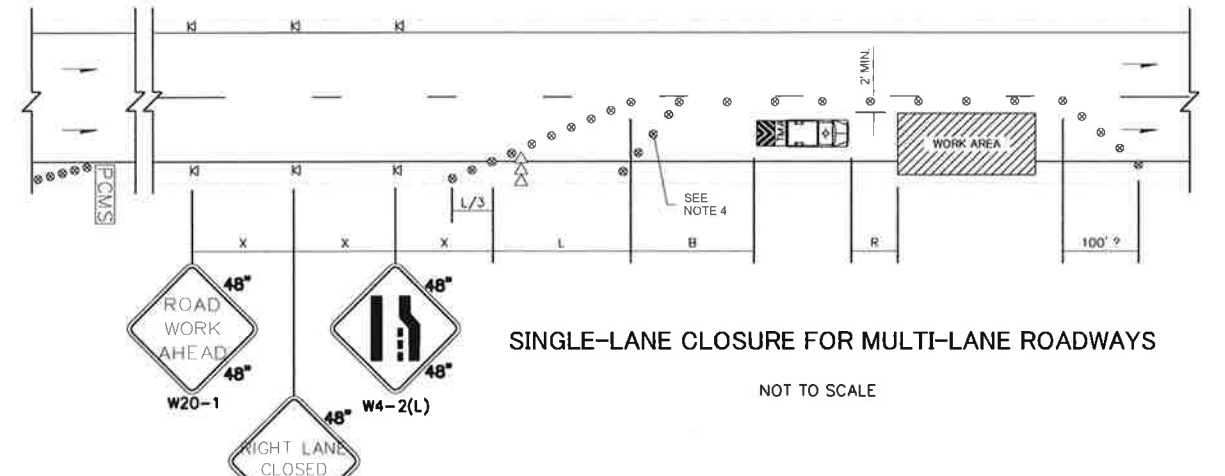
LEFT LANE AND CENTER TURN LANE CLOSURE - 5 LANE ROADWAY

NOT TO SCALE



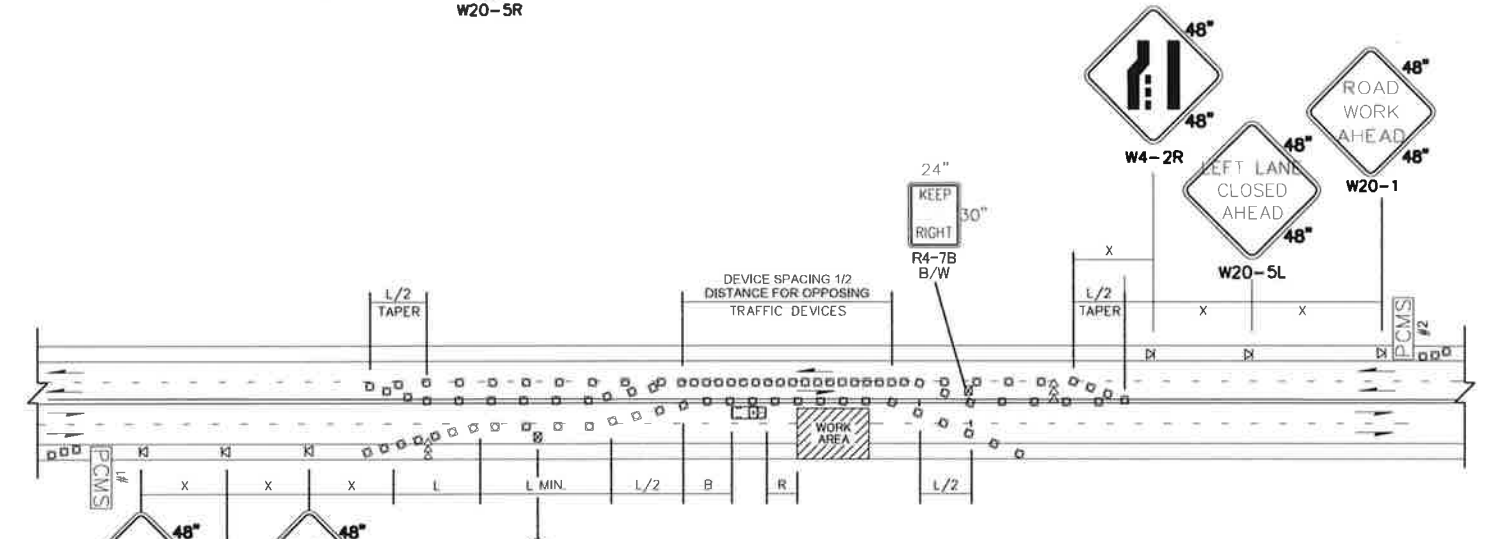
RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY

NOT TO SCALE



SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE



HALF ROAD CLOSURE - 4 LANE ROADWAY

NOT TO SCALE

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'.

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

PCMS #1		PCMS #2	
RIGHT / LEFT LANE CLOSURE	1 MILE AHEAD	CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

- NOTES**
- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
 - EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
 - DEVICES SHALL NOT ENCRACH 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.

LEGEND

- K1 TEMPORARY SIGN LOCATION
- CH CHANNELIZING DEVICES
- SA SEQUENTIAL ARROW SIGN
- PV PROTECTIVE VEHICLE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- TSL TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

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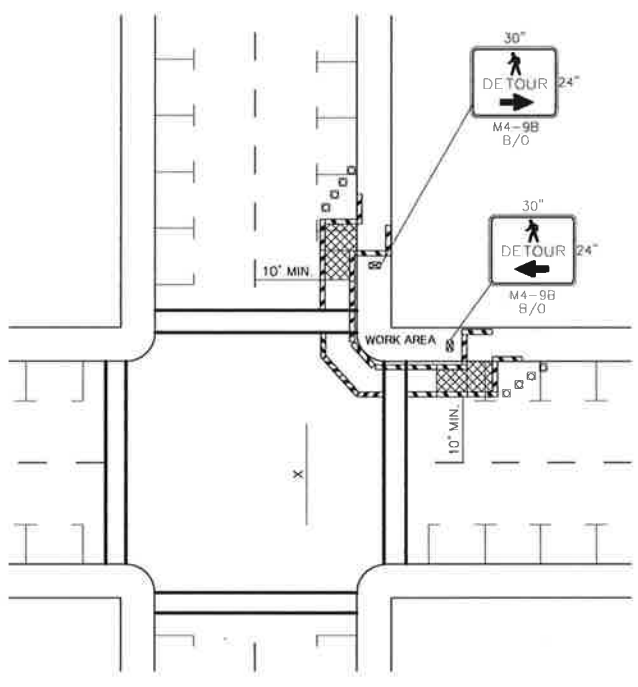
2019 ASPHALT OVERLAY PROJECT

TRAFFIC CONTROL
PAGE 1 OF 2
TRAFFIC CONTROL DETAILS

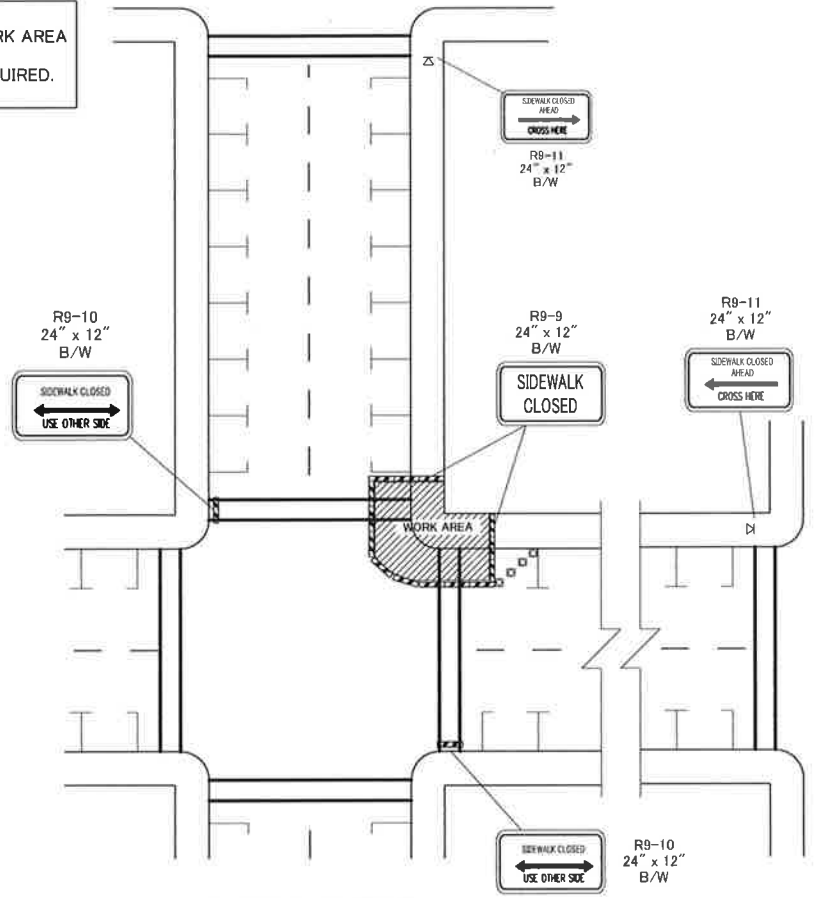
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SHT. 41 OF 42

Rev'd By: Paul HeBel
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 Project: 2019 ASPHALT OVERLAY VAD Files - Working Folder - As of 01.11.2019 TRAFFIC CONTROL SHEETS.dwg

NO PARKING
 R8-3
 24" x 30"
 R/W
 INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA
 24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL.
 PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.



SIDEWALK DIVERSION



SIDEWALK DETOUR

INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

NOTES

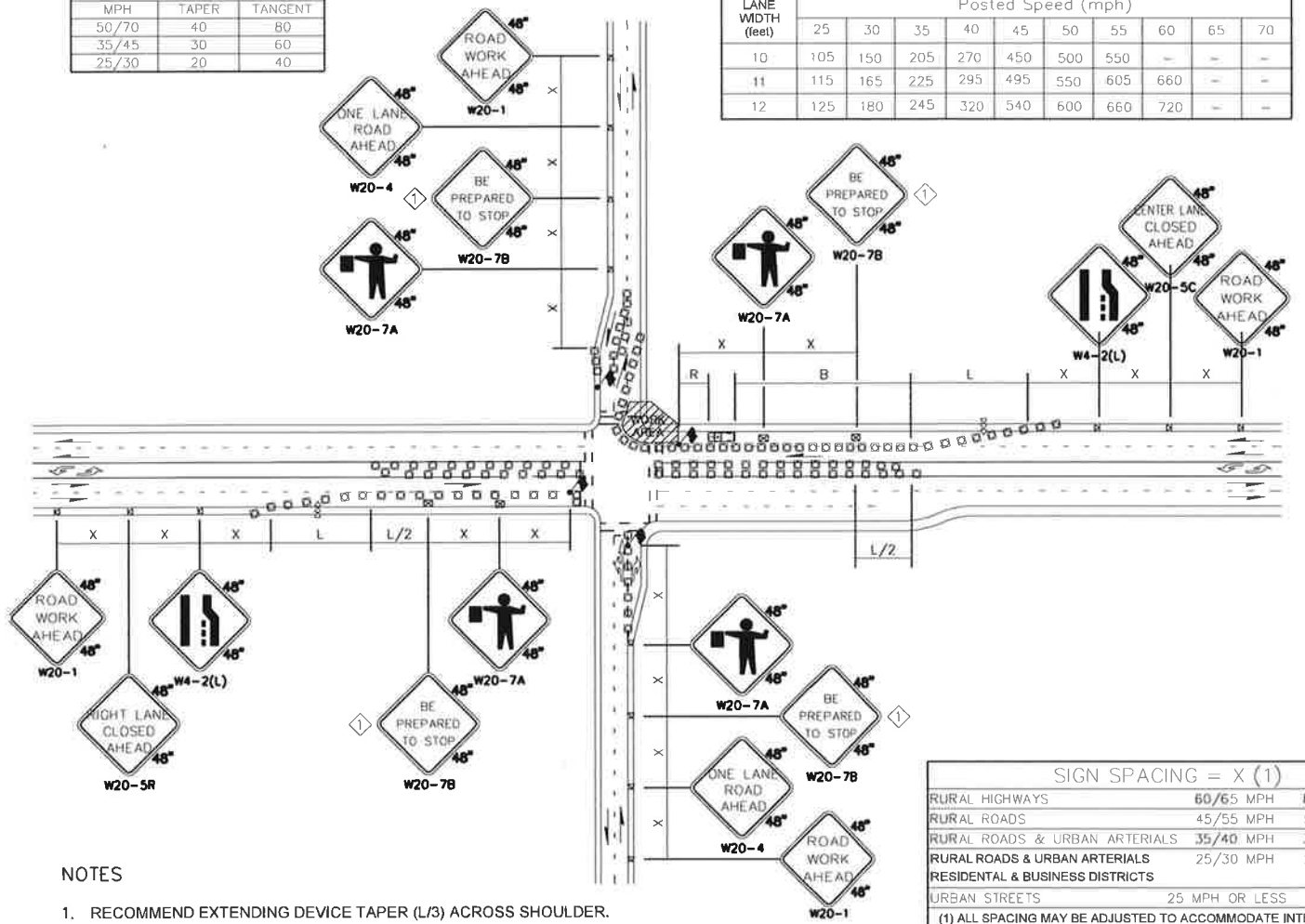
- CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
- A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
- CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
- ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED.
- TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



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.

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	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.

INTERSECTION LANE CLOSURE - FIVE LANE ROADWAY

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE - RECOMMENDED
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

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LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

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PROTECTIVE VEHICLE (WORK VEHICLE) = R	100'	123'	172'	74'	100'	150'

NO SPECIFIED DISTANCE REQUIRED

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TRAFFIC CONTROL
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 TRAFFIC CONTROL DETAILS

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