



City of Tacoma
Department of Public Works

SPECIFICATION NO. PW20-0231F

East Portland Avenue Improvements

**Project No. PWK-G0022
Federal Aid Project No. HSIP-3133(007)**

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

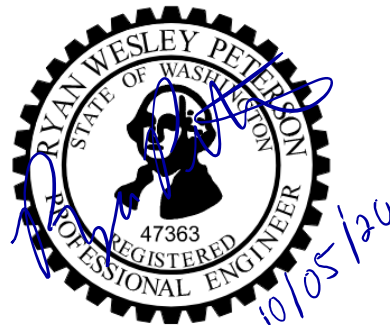
REQUEST FOR BIDS, SPECIAL PROVISIONS, BID PROPOSAL AND CONTRACT

FOR

SPECIFICATION NO.
PW20-0231F

East Portland Avenue Improvements

Project No. PWK-G0022
Federal Aid Project No. HSIP-3133(007)



Darius Thompson, Project Manager
Room 544, Tacoma Municipal Building
Engineering Division
Tacoma, Washington 98421-2711

Public Works Department

Ryan Peterson PE, PTOE
12131 113th Ave NE, Suite 203
Kirkland, WA 98034

Transpo Group

SPECIFICATION NO. PW20-0231F

TABLE OF CONTENTS

NOTE: ALL BIDDERS MUST HAVE A COPY OF THE SPECIFICATIONS AND THE BID SUBMITTAL PACKAGE

REQUEST FOR BIDS

SPECIAL REMINDER TO ALL BIDDERS

PART I BID PROPOSAL AND CONTRACT FORMS

- 1 Bid Proposal
- 2 Bid Proposal Signature Sheet
- 3 Bid Bond
- 4 Non-Collusion Declaration
- 5 Certification Of Compliance With Wage Payment Statutes
- 6 State Responsibility and Reciprocal Bid Preference Information
- 7 Subcontractor List
- 7 UDBE Utilization Certification
- 8 UDBE Written Confirmation Document
- 9 UDBE Bid Item Breakdown Form
- 10 UDBE Trucking Credit Form
- 11 Acknowledgement
- 12 Contract
- 13 Payment Bond to the City of Tacoma
- 14 Performance Bond to the City of Tacoma
- 15 General Release Form

PART II REQUIRED FEDERAL AID CONTRACT PROVISIONS

PART III SPECIAL PROVISIONS

- Division 1 General Requirements
- Division 2 Earthwork
- Division 3 Production from Quarry and Pit Sites and Stockpiling
- Division 4 Bases
- Division 5 Surface Treatments and Pavements
- Division 6 Structures
- Division 7 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits
- Division 8 Miscellaneous Construction
- Division 9 Materials
- Appendix A City of Tacoma Standard Plans
- Appendix B Traffic Control Handbook
- Appendix C Right-of-Way Restoration Manual

PART IV FEDERAL WAGE RATES

PART V STATE PREVAILING WAGE RATES AND GENERAL REQUIREMENTS



**City of Tacoma
Public Works Engineering**

**REQUEST FOR BIDS PW20-0231F
East Portland Avenue Improvements**

Submittal Deadline: 11:00 a.m., Pacific Time, Tuesday, November 10, 2020

Submittal Delivery: Sealed submittals will be received as follows:

By Email:

bids@cityoftacoma.org

Maximum file size: 35 MB. Multiple emails may be sent for each submittal

Submittal Opening: Submittals in response to a RFB will be recorded as received. As soon as possible on the day of submittal deadline, preliminary results will be posted to www.TacomaPurchasing.org.

This public bid opening will be held via webinar only. Registration is required to attend. Register in advance for this webinar:

https://us02web.zoom.us/webinar/register/WN_OqyhFVuJRzWxjKhL6UnMvg

After registering, you will receive a confirmation email containing information about joining the webinar.

Solicitation Documents: An electronic copy of the complete solicitation documents may be viewed and obtained at the City's plan distribution service provider, ARC, 632 Broadway, Tacoma, WA, or by going to <http://www.e-arc.com/location/tacoma>. Prospective bidders will be required to pay reproduction costs. A list of vendors registered for this solicitation is also available at their website.

Pre-Proposal Meeting: A pre-proposal meeting will not be held.

Project Scope: This Contract shall generally consist of removing and replacing existing traffic signal heads, pedestrian signal heads, pedestrian pushbuttons, junction boxes, and traffic controller cabinets, traffic signal poles, rewiring of existing traffic signals systems, removal and replacement of traffic islands and curb ramps, and installing channelization along East Portland Avenue between East Puyallup Avenue and East 72nd Street.

Estimate: \$1,510,000.00

Paid Leave and Minimum Wage: Effective February 1, 2016, the City of Tacoma requires all employers to provide paid leave and minimum wages, as set forth in Title 18 of the Tacoma Municipal Code. For more information visit www.cityoftacoma.org/employmentstandards.

Americans with Disabilities Act (ADA Information): The City of Tacoma, in accordance with Section 504 of the Rehabilitation Act (Section 504) and the Americans with Disabilities Act (ADA), commits to nondiscrimination on the basis of disability, in all of its programs and activities. Specification materials can be made available in an alternate format by emailing Gail Himes at ghimes@cityoftacoma.org, or by calling her collect at 253-591-5785.

Federal Title VI Information: "The City of Tacoma" in accordance with provisions of Title VI of the Civil Rights Act of 1964, (78 Stat. 252, 42 U.S.C. sections 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin in consideration of award.

Additional Information: Requests for information regarding the specifications may be obtained by contacting Tina Eide, Senior Buyer by email to TEide@cityoftacoma.org

Protest Policy: City of Tacoma protest policy, located at www.tacomapurchasing.org, specifies procedures for protests submitted prior to and after submittal deadline.



Meeting sites are accessible to persons with disabilities. Reasonable accommodations for persons with disabilities can be arranged with 48 hours advance notice by calling 253-502-8468.

SPECIAL REMINDER TO ALL BIDDERS

HEALTH & SAFETY: Be sure to comply with all City of Tacoma health and safety requirements.

1. This project has been deemed to be an essential project by the City of Tacoma and it is anticipated that the contract will be operational during the COVID-19 outbreak. Therefore the contractor shall complete a health and safety plan describing how the contractor will complete the work while combating the COVID-19 spread (social distancing practices) and what Personal Protective Equipment (PPE) will be in place.

PLEASE NOTE: Be sure you have complied with all specifications and requirements and have signed all required documents.

YOUR ATTENTION IS PARTICULARLY CALLED to the following forms, which must be executed in full before the bid is submitted:

1. **BID PROPOSAL**: The unit prices bid must be shown in the space provided. Check your computations for omissions and errors.
2. **BID PROPOSAL SIGNATURE SHEET**: To be filled in and executed by a duly authorized officer or representative of the bidding entity. If the bidder is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.
3. **BID BOND**: The Bid Bond must be executed by the person legally authorized to sign the bid, and must be properly signed by the representatives of the surety company unless the bid is accompanied by a certified check. If Bid Bond is furnished, the form furnished by the City must be followed; no variations from the language thereof will be accepted. The amount of the Bid Bond must be not less than 5% of the total amount bid.
4. **NON-COLLUSION DECLARATION**: Must be returned by the bidder and included with the submittal.

FAILURE TO RETURN THE AFOREMENTIONED NON-COLLUSION DECLARATION AND TO SUBMIT SAID DECLARATION WITH THE BID SHALL BE DUE CAUSE FOR REJECTION OF BID.

5. **CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2017).
6. **STATE RESPONSIBILITY AND RECIPROCAL BID PREFERENCE INFORMATION**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2010).
7. **LIST OF SUBCONTRACTOR CATEGORIES OF WORK**: Bidder shall list all subcontractor(s) 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.

8. **UDBE UTILIZATION CERTIFICATE:** For federal purposes, DBEs proposed to be used on this project shall be shown as a DBE listed in the current Office of Minority and Women's Business Enterprises (OMWBE) Directory, or who can produce written proof from OMWBE showing they were certified as a DBE as of the date fixed for opening bids. When DBE goals are established failure to submit this form will render the proposal as non-responsive. The federal DBE goal for this project is **three** percent (**3%**).
9. **ACKNOWLEDGEMENT:** Must be signed by the bidder and be subscribed and sworn to before a Notary Public. Be sure all parties whose signatures are legally necessary have signed, whether the bidder be an individual, partnership or corporation.

POST AWARD FORMS EXECUTED UPON AWARD:

- A. **CONTRACT:** Must be executed by the successful bidder.
- B. **PAYMENT BOND TO THE CITY OF TACOMA:** Must be executed by the successful bidder and his/her surety company.
- C. **PERFORMANCE BOND TO THE CITY OF TACOMA:** Must be executed by the successful bidder and his/her surety company.
- D. **CERTIFICATE OF INSURANCE:** Shall be submitted with all required endorsements.
- E. **GENERAL RELEASE.**

CODE OF ETHICS: The successful bidder agrees that its violation of the City's Code of Ethics contained in TMC Chapter 1.46 shall constitute a breach of the contract subjecting the contract to termination.

PART I

BID PROPOSAL AND CONTRACT FORMS

BID PROPOSAL

SPECIFICATION NO. PW20-0231F

East Portland Avenue Improvements

The undersigned hereby certifies that he/she has examined the location and construction details of work as outlined on the Plans and Specifications for Project No. PWK-G0022 and has read and thoroughly understands the Plans and Specifications and contract governing the work embraced in this improvement and the method by which payment will be made for said work, and hereby proposes to undertake and complete the work embraced in this improvement in accordance with said Plans, Specifications and contract and at the following schedule of rates and prices.

NOTE:

1. Unit prices of all items, all extensions and total amount of bid should be shown. Show unit prices in figures only.
2. The notations below the item numbers refer to the specification section where information may be found regarding each contract item. These notations are intended only as a guide and are not warranted to refer to all specification sections where information may be found.

All bid items are sorted in the following groups:

Part 1: E Portland Avenue Safety Improvements

Schedule A1: Roadway, Bid Items R1 – R26

Schedule B1: Lump Sum, Bid Items L1 – L20

Part 2: E 38th Street & Portland Avenue Intersection Improvements

Schedule A2: Roadway, Bid Items R1 – R18

Schedule B2: Lump Sum, Bid Items L1 – L13

Bidder Name: _____

Specification No. PW20-0231F

Page 1 of 9

Part 3: E Portland Avenue Safety Improvements**Schedule A2: Roadway, Bid Items R1 – R26**

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
R1 1-7	Training	400 HR	\$ _____	\$ _____
R2 2-03	Roadway Excavation, Incl. Haul	252 CY	\$ _____	\$ _____
R3 2-03	Gravel Borrow, Incl. Haul	23 CY	\$ _____	\$ _____
R4 2-14	Remove Existing Pavement, Type 1, Class A8	582 SY	\$ _____	\$ _____
R5 2-14	Remove Existing Pavement, Type 1, Class C6	254 SY	\$ _____	\$ _____
R6 2-15	Remove Curb and Gutter	163 LF	\$ _____	\$ _____
R7 4-04	Crushed Surfacing Top Course	74 TN	\$ _____	\$ _____
R8 4-04	Crushed Surfacing Base Course	379 TN	\$ _____	\$ _____
R9 5-04	HMA Cl. 1/2" PG 58H-22	11 TN	\$ _____	\$ _____
R10 5-04	HMA Cl. 1/2" PG 58V-22	386 TN	\$ _____	\$ _____
R11 5-04	HMA for Preleveling Cl. 1/2" PG 58V-22	73 TN	\$ _____	\$ _____
R12 5-04	Planing Bituminous Pavement	1266 SY	\$ _____	\$ _____
R13 8-01	Seeding and Fertilizing by Hand	7 SY	\$ _____	\$ _____
R14 8-02	Topsoil Type C	8 CY	\$ _____	\$ _____
R15 8-02	Bark Mulch	3 CY	\$ _____	\$ _____

Bidder Name: _____

Specification No. PW20-0231F

R16 8-04	Cement Conc. Traffic Curb and Gutter	163 LF	\$ _____	\$ _____
R17 8-04	Cement Conc. Traffic Curb	364 LF	\$ _____	\$ _____
R18 8-04	Cement Conc. Pedestrian Curb	227 LF	\$ _____	\$ _____
R19 8-13	Poured Monument	1 EA	\$ _____	\$ _____
R20 8-14	Cement Conc. Sidewalk	121 SY	\$ _____	\$ _____
R21 8-14	Cement Conc. Parallel Curb Ramp Type A	4 EA	\$ _____	\$ _____
R22 8-14	Detectable Warning Surface	206 SF	\$ _____	\$ _____
R23 8-22	Removing Paint Line	1336 LF	\$ _____	\$ _____
R24 8-22	Paint Line	1921 LF	\$ _____	\$ _____
R25 8-22	Plastic Stop Line	150 LF	\$ _____	\$ _____
R26 8-22	Plastic Crosswalk Line	1180 SF	\$ _____	\$ _____
Roadway Base Bid Total (Bid Items No. R1 – R26)			\$ _____(1)	

Schedule B1: Lump Sum, Bid Items L1 – L20

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
L1 1-05	Contractor Survey -Roadway	1 LS	Lump Sum	\$ _____
L2 1-05	Record Drawings	1 LS	Lump Sum \$500 Min	\$ _____
L3 1-07	Spill Prevention Control and Countermeasures (SPCC) Plan	1 LS	Lump Sum	\$ _____
L4 1-09	Mobilization	1 LS	Lump Sum	\$ _____
L5 1-10	Project Temporary Traffic Control	1 LS	Lump Sum	\$ _____
L6 2-01	Clearing and Grubbing	1 LS	Lump Sum	\$ _____
L7 2-02	Removal of Structures and Obstructions	1 LS	Lump Sum	\$ _____
L8 2-03	Subgrade Maintenance and Protection	1 LS	Lump Sum	\$ _____
L9 8-01	Erosion/Water Pollution Control	1 LS	Lump Sum	\$ _____
L10 8-20	Traffic Signal System - Portland Ave. & E 72nd St.	1 LS	Lump Sum	\$ _____
L11 8-20	Traffic Signal System - Portland Ave. & E 64th St.	1 LS	Lump Sum	\$ _____
L12 8-20	Traffic Signal System - Portland Ave. & E 56th St.	1 LS	Lump Sum	\$ _____
L13 8-20	Traffic Signal System - Portland Ave. & E 48th St.	1 LS	Lump Sum	\$ _____
L14 8-20	Traffic Signal System - Portland Ave. & E 44th St.	1 LS	Lump Sum	\$ _____
L15 8-20	Traffic Signal System - Portland Ave. & E 40th St.	1 LS	Lump Sum	\$ _____
L16 8-20	Traffic Signal System - Portland Ave. & E 38th St.	1 LS	Lump Sum	\$ _____

Bidder Name: _____

Specification No. PW20-0231F

L17 8-20	Traffic Signal System - Portland Ave. & E Fairbanks St.	1 LS	Lump Sum	\$ _____
L18 8-20	Traffic Signal System - Portland Ave. & E 32nd St.	1 LS	Lump Sum	\$ _____
L19 8-20	Traffic Signal System - Portland Ave. & E 31st St.	1 LS	Lump Sum	\$ _____
L20 8-20	Traffic Signal System - Portland Ave. & E Puyallup Ave.	1 LS	Lump Sum	\$ _____
Lump Sum Base Bid Subtotal (Bid Items No. L1 – L20)				\$ _____(2)

Part 1	
TOTAL BASE BID (1) + (2) (Not Including Sales Tax)	\$ _____(3)

Part 2: E 38th Street & Portland Avenue Intersection Improvements

Schedule A2: Roadway, Bid Items R1 – R18

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
R1 2-03	Roadway Excavation, Incl. Haul	10 CY	\$ _____	\$ _____
R2 2-14	Remove Existing Pavement, Type 1, Class A4	70 SY	\$ _____	\$ _____
R3 2-15	Remove Curb and Gutter	155 LF	\$ _____	\$ _____
R4 5-04	Planing Bituminous Pavement	746 SY	\$ _____	\$ _____
R5 5-04	HMA Cl. 1/2" PG 58H- 22	85 TN	\$ _____	\$ _____
R6 5-04	Cold Plant Mix for Temporary Pavement Patch	20 TN	\$ _____	\$ _____
R7 7-05	Adjust Existing Catch Basin, furnish new frame and grate	4 EA	\$ _____	\$ _____
R8 7-05	Adjust Existing Valve Chamber to Grade	3 EA	\$ _____	\$ _____
R9 7-05	Adjust Manhole to Grade, furnish new frame and cover	2 EA	\$ _____	\$ _____
R10 7-05	Remove and replace junction box to grade	8 EA	\$ _____	\$ _____
R11 8-01	Inlet Protection	7 EA	\$ _____	\$ _____
R12 8-14	Cement Driveway Conc. Entrance	27 SY	\$ _____	\$ _____
R13 8-14	Cement Conc. Sidewalk	336 SY	\$ _____	\$ _____
R14 8-14	Perpendicular Curb Ramp, Type 'A'	5 EA	\$ _____	\$ _____

Bidder Name: _____

Specification No. PW20-0231F

R15 8-22	Plastic line	200 LF	\$ _____	\$ _____
R16 8-22	Plastic Wide Lane Line	100 LF	\$ _____	\$ _____
R17 8-22	Plastic Crosswalk Line	640 LF	\$ _____	\$ _____
R18 8-22	Plastic Stop Line	71 LF	\$ _____	\$ _____
Roadway Base Bid Total (Bid Items No. R1 – R18)			\$ _____(4)	

Schedule B2: Lump Sum, Bid Items L1 – L13

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
L1 1-05	Roadway Surveying	1 LS	Lump Sum	\$_____
L2 1-07	Spill Prevention Control and Countermeasures (SPCC) Plan	1 LS	Lump Sum	\$_____
L3 1-07	Pedestrian Control and Protection	1 LS	Lump Sum	\$_____
L4 1-09	Mobilization	1 LS	Lump Sum	\$_____
L5 1-10	Project Temporary Traffic Control	1 LS	Lump Sum	\$_____
L6 2-01	Clearing and Grubbing	1 LS	Lump Sum	\$_____
L7 2-06	Subgrade Maintenance and Protection	1 LS	Lump Sum	\$_____
L8 8-01	Stormwater Pollution Prevention Plan (SWPPP)	1 LS	Lump Sum	\$_____
L9 8-01	Erosion/Water Pollution Control	1 LS	Lump Sum	\$_____
L10 8-01	Site Restoration	1 LS	Lump Sum	\$_____
L11 8-20	Illumination System Modifications	1 LS	Lump Sum	\$_____
L12 8-21	Permanent Signing	1 LS	Lump Sum	\$_____
L13 8-22	Removal of Pavement Markings	1 LS	Lump Sum	\$_____
Lump Sum Base Bid Subtotal (Bid Items No. L1 – L13)				\$_____ (5)
Part 2 BASE BID (4) + (5) (Not Including Sales Tax)				\$_____ (6)

Bidder Name: _____
Specification No. PW20-0231F
Page 8 of 9

GRAND TOTAL(Part 1 and Part 2)	\$ _____
(3)+(6)	
(Not Including Sales Tax)	

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 1-02.6 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: _____

BID PROPOSAL SIGNATURE SHEET

The total bid price for completion of all the work required in accordance with the Plans and Specifications, together with any and all Addenda issued as a Supplement thereto, is

\$_____ (GRAND TOTAL FROM BID PROPOSAL)

ACKNOWLEDGMENT OF ADDENDUM FOR:
PW20-0231F

East Portland Avenue Improvements

#1 _____ (initial)

#2 _____ (initial)

#3 _____ (initial)

#4 _____ (initial)

Bidder: _____

Signed: _____ Title: _____

Print Name: _____

Address: _____ City/State/Zip: _____

Telephone Number: _____ Date: _____

Contractor's Registration Number: _____

- NOTE:
1. If the bidder is a co-partnership, so state, giving firm name under which business is transacted.
 2. If the bidder is a corporation, this Bid Proposal must be executed by its duly authorized officials.
 3. The bidder agrees, by submitting a bid under these Specifications, that in the event any litigation should arise concerning the submission of bids or the award of contract under this Specification or Request for Bids, the venue of such action or litigation shall be in the Superior Court of the State of Washington, in and for the County of Pierce.

CITY OF TACOMA

Elizabeth Pauli
CITY MANAGER

Herewith find deposit in the form of a cashier's check in the amount of \$_____ which amount is not less than 5-percent of the total bid.

SIGN HERE_____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held and firmly bound unto the City of Tacoma, as Obligee, in the penal sum of _____ dollars, for the payment of which the Principal and the Surety bind themselves, their heirs, 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

according to the terms of the proposal or bid made by the Principal therefor, 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 faithful performance thereof, with Surety or Sureties approved by the Obligee; or if the Principal shall, in case of failure to do so, 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:

_____, 20_____

Received return of deposit in the sum of \$ _____

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. **That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.**

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.



City of Tacoma

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (**October 20, 2020**), that the bidder is not 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.

I certify under penalty of perjury under the laws of the state of Washington that the foregoing is true and correct.

Bidder

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

Individual ☐

Partnership ☐

Joint Venture ☐

Corporation ☐

State of Incorporation, or if not a corporation, the state where business entity was formed:

If a co-partnership, give firm name under which business is transacted:

** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*

Specification No. _____

Name of Bidder: _____

State Responsibility and Reciprocal Bid Preference Information

Certificate of registration as a contractor
(Must be in effect at the time of bid submittal):

Number: _____

Effective Date: _____

Expiration Date: _____

Current Washington Unified Business Identifier
(UBI) Number:

Number: _____

Do you have industrial insurance (workers' compensation)
Coverage nor your employees working in Washington?

☐ Yes ☐ No
☐ Not Applicable

Washington Employment Security Department Number

Number: _____

☐ Not Applicable

Washington Department of Revenue state excise tax
Registration number:

Number: _____

☐ Not Applicable

Have you been disqualified from bidding any public
works contracts under RCW 39.06.010 or 39.12.065(3)?

☐ Yes ☐ No
If yes, provide an explanation of your
disqualification on a separate page.

Do you have a physical office located in the state of
Washington?

☐ Yes ☐ No

If incorporated, in what state were you incorporated?

State: _____ ☐ Not Incorporated

If not incorporated, in what state was your business
entity formed?

State: _____

Have you completed the training required by RCW
39.04.350, or are you on the list of exempt businesses
maintained by the Department of Labor and Industries?

☐ Yes ☐ No

List of Subcontractor Categories of Work

Project Name _____

Subcontractor(s) that are proposed to perform the work of heating, ventilation and air conditioning, and/or plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW must be listed below. **This information must be submitted with the bid proposal or within one hour of the published bid submittal time via email to bids@cityoftacoma.org.**

Subcontractor(s) that are proposed to perform the work of structural steel installation and/or rebar installation must be listed below. **This information must be submitted with the bid proposal or within forty-eight hours of the published bid submittal time via email to bids@cityoftacoma.org.**

Failure to list subcontractors or naming more than one subcontractor to perform the same work will result in your bid being non-responsive. Contractors self-performing must list themselves below. The work to be performed is to be listed below the subcontractor(s) name. If no subcontractor is listed below, the bidder acknowledges that it does not intend to use any subcontractor to perform those items of work.

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Box 1: _____ certifies that the UDBE firms listed below have been contacted regarding participation on this project. If this Bidder is successful on this project and is awarded the Contract, it shall assure that subcontracts or supply agreements are executed with named UDBEs. (If necessary, use additional sheets.)

[illegible]

DOT Form 272-056U
Revised 03/2018

Instructions for Underutilized Disadvantaged Business Enterprise Utilization Certification Form

Box 1: Name of Bidder (Proposal holder) submitting Bid.

Box 2: Name of the Project.

Column 1: Name of the Underutilized Disadvantaged Business Enterprise (UDBE). UDBE Firms can be found using the search tools under the Firm Certification section of the Diversity Management and Compliance System web page <https://wsdot.diversitycompliance.com> Repeat the name of the UDBE for each Project Role that will be performed.

Column 2: The Project Role that the UDBE will be performing as follows;

- Prime Contractor
- Subcontractor
- Subcontractor (Force Account)
 - Work sublet as Force Account must be listed separately.
- Manufacturer
- Regular Dealer
 - Work sublet to a Regular Dealer must be listed separately.
 - Regular Dealer status must be approved prior to Bid submittal by the Office of Equal Opportunity, Washington State Department of Transportation, on each Contract.
- Broker
 - Work sublet to a Broker must be listed separately.

List each project role to be performed by a single UDBE individually on a separate row(s). The role is used to determine what portion of the amount to be subcontracted (Column 4) may be applied toward meeting the goal (column 5).

Column 3: Provide a description of the work to be performed by the UDBE. The work to be performed must be consistent with the Certified Business Description of the UDBE provided at the Diversity Management and Compliance System web page <https://wsdot.diversitycompliance.com>

- A Bidder subletting a portion of a bid item shall state **“Partial”** and describe the Work that is included.
 - For example; “Electrical (Partial) – Trenching”.
- “Mobilization” will not be accepted as a description of Work.

Column 4: List the total amount to be subcontracted to each UDBE for each Project Role they are performing.

Column 5: This is the dollar amount for each line listed in the certification that the prime intends to apply towards meeting the COA Contract goal. It may be that only a portion of the amount subcontracted to a UDBE in Column 4 is eligible to be credited toward meeting the goal **See Note 1, Note 2, Note 3**. The Contracting Agency will utilize the sum of this column (Box 4) to determine whether or not the bidder has met the goal. In the event of an arithmetic error in summing column 5 or an error in making appropriate reductions in the amounts in column four, **See Note 1, Note 2, Note 3**, then the mathematics will be corrected and the total (Box 4) will be revised accordingly.

Note 1: For Work sublet as Force Account the bidder **may only claim 50%** of the amount subcontracted (Column 4) towards meeting the goal (Column 5). This information will be used to demonstrate that the UDBE contract goal is met at the time that the bidder submits their bid. For example; amount sublet as force account = \$100,000 (Column 4) equates to $(\$100,000 \times 50\%) = \$50,000$ (Column 5) to be applied towards the goal.

Note 2: For Work sublet to a Regular Dealer the bidder **may only claim 60%** of the cost of the materials or supplies (Column 4) towards meeting the goal (Column 5). For example; Material cost = \$100,000 (Column 4) equates to $(\$100,000 \times 60\%) = \$60,000$ (Column 5) to be applied towards the goal

Note 3: For Work sublet to a Broker the bidder **may only claim the fees** paid to a Broker towards meeting the goal (Column 4). For example; amount sublet to a broker = \$100,000 (Column 4) equates to $(\$100,000 \times \text{reasonable fee \%}) = \$$ (Column 5) to be applied towards the goal.

Box 3: Box 3 is the COA Contract goal which is the minimum required UDBE participation. The goal stated in the Contract will be in terms of a dollar amount or a percentage in the Contract. When expressed as a percentage you must multiply the percentage times the sum total of all bid items as submitted in the Bidder's Proposal to determine the dollar goal and write it in Box 3. In the event of an error in this box, the Contracting Agency will revise the amount accordingly.

Box 4: Box 4 is the sum of the values in column 5. **This value must equal or exceed the COA Contract goal amount written in Box 3 or;**

Box 5: Check Box 5 if insufficient UDBE Participation has been achieved and a good faith effort is required. Refer to the subsection titled, *Selection of Successful Bidder/Good Faith Efforts (GFE)* in the Contract.

See the Disadvantaged Business Enterprise Participation specification in the Contract for more information.



Underutilized Disadvantaged Business Enterprise Utilization Certification

To be eligible for Award of this Contract the Bidder shall fill out and submit, as a supplement to its sealed Bid Proposal, an Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification. The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal that does not contain a UDBE Utilization Certification which properly demonstrates that the Bidder will meet the UDBE participation requirements in one of the manners provided for in the proposed Contract. **Refer to the instructions on Page 2 when filling out this form or the Bid may be rejected. An example form has been provided on Page 3.** The successful Bidder's UDBE Utilization Certification shall be deemed a part of the resulting Contract.

Box 1: A Plus Construction Company certifies that the UDBE firms listed below have been contacted regarding participation on this project. If this Bidder is successful on this project and is awarded the Contract, it shall assure that subcontracts or supply agreements are executed with named UDBEs. (If necessary, use additional sheets.)

Box 2: US 395, Spokane City Limits to Stevens County Line - Paving and Safety

Column 1 Name of UDBE (See instructions)	Column 2 Project Role (See instructions)	Column 3 Description of Work (See instructions)	Column 4 Dollar Amount Subcontracted to UDBE (See instructions)	Column 5 Dollar Amount to be Applied Towards Goal (See instructions)
A Plus Construction Company	Prime	Asphalt and concrete paving, asphalt milling, preleveling and pavement repair	N/A	900,000
In the Line Services, Inc.	Subcontractor (Force Account)	Crack sealing	20,000	10,000
In the Line Services, Inc.	Subcontractor	Guideposts, joint seal, pavement markers, temporary signage, construction sign installation	200,000	200,000
The Everything Guys, LLC	Regular Dealer	Rental and sales of highway construction and related equipment and materials	100,000	60,000
Optimus Prime Trucking, Inc.	Subcontractor	Dump Trucking	50,000	50,000
Metalheads, Inc.	Manufacturer	Dowel Bars	75,000	75,000
Erosion Under Control Co.	Broker	Erosion control blankets, straw bales and wattles, sand bags	15,000	250

EXAMPLE

Underutilized Disadvantaged Business Enterprise Condition of Award Contract Goal 356,968.16 Box 3 Total UDBE Commitment Dollar Amount 1,295,250 Box 4

5 ☐ By checking Box 5 the Bidder is stating that their attempts to solicit sufficient UDBE participation to meet the COA Contract goal has been unsuccessful and good faith effort will be submitted in accordance with Section 1-02.9 of the Contract



***Underutilized Disadvantaged Business
Enterprise (UDBE) Written
Confirmation Document***

*See Contract Provisions: UDBE Document Submittal Requirements
Disadvantaged Business Enterprise Participation*

THIS FORM SHALL ONLY BE SUBMITTED TO A UDBE THAT IS LISTED ON THE CONTRACTOR'S UNDERUTILIZED DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION CERTIFICATION.

THE CONTRACTOR SHALL COMPLETE PART A PRIOR TO SENDING TO THE UDBE.

PART A: To be completed by the bidder

The entries below shall be consistent with what is shown on the Bidder's Underutilized Disadvantaged Business Enterprise Utilization Certification. Failure to do so will result in Bid rejection.

Contract Title: _____

Bidder's Business Name: _____

UDBE's Business Name: _____

Description of UDBE's Work: _____

Dollar Amount to be Applied Towards UDBE Goal: _____

Dollar Amount to be Subcontracted to UDBE*: _____
*Optional Field

PART B: To be completed by the Underutilized Disadvantaged Business Enterprise

As an authorized representative of the Underutilized Disadvantaged Business Enterprise, I confirm that we have been contacted by the Bidder with regard to the referenced project for the purpose of performing the Work described above. If the Bidder is awarded the Contract, we will enter into an agreement with the Bidder to participate in the project consistent with the information provided in Part A of this form.

Name (printed): _____

Signature: _____

Title: _____

Address: _____ Date: _____



Underutilized Disadvantaged Business Enterprise (UDBE) Bid Item Breakdown Form

1. Contract Number		2. Contract Name	
3. Prime Contractor		4. Prime Contractor Representative Name	
5. Prime Contractor Representative Phone Number		6. Prime Contractor Representative Email	

Column 1 Name of UDBE (See Instructions)	Column 2 Bid Item # (See Instructions)	Column 3 Full/Partial (See Instructions)	Column 4 Quantity (See Instructions)	Column 5 Description (See Instructions)	Column 6 Unit Price (See Instructions)	Column 7 Total Unit Cost (See Instructions)	Column 8 Dollar Amount to be Applied Towards Goal (See Instructions)
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
Name of UDBE	Bid Item #	Full/Partial	Quantity	Description	Unit Price	Total Unit Cost	Dollar Amount to be Applied Towards Goal
Subtotal:						\$ 0.00	\$ 0.00
TOTAL UDBE Dollar Amount:						\$ 0.00	\$ 0.00

Submit this form to DBEDOC@wsdot.wa.gov

Underutilized Disadvantaged Business Enterprise (UDBE) Trucking Credit Form

PART A: TO BE COMPLETED BY THE BIDDER

This form is in support of the trucking commitment identified on the UDBE Utilization Certification Form submitted with the proposal. Please note that UDBE's must be certified prior to time of submittal.

Federal Aid #	Contract #	Project Name
If listing items by hours, or by lump sum amounts, please provide calculations to substantiate the quantities listed.		
Bid Item	Item Description	

Use additional sheets as necessary.

Bidder		Name/Title (please print)
Phone	Fax	Signature
Address		
Email		
		I certify that the above information is complete and accurate.
		Date

PART B: TO BE COMPLETED BY THE UDBE TRUCKING FIRM

Note: DBE/UDBE trucking firm participation may only be credited as DBE/UDBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also recognized as a supplier of the materials used on the project and approved for this project as a regular dealer.

1. Type of Material expected to be hauled? _____
2. Number of fully operational trucks expected to be used on this project? _____ Tractor/trailers: _____ Dump trucks: _____
3. Number of trucks and trailers owned by the UDBE that will be used on this project? _____ Tractor/trailers: _____ Dump trucks: _____
4. Number of trucks and trailers leased by the UDBE that will be used on this project? _____ Tractor/trailers: _____ Dump trucks: _____

UDBE Firm Name		Name/Title (please print)
Certification Number		
Phone	Fax	Signature
Address		
Email		
		I certify that the above information is complete and accurate.
		Date

Submit this form to DBEDOC@wsdot.wa.gov.

Instruction to Bidder: The Bidder shall complete and submit the Underutilized Disadvantaged Business Enterprise (UDBE) Trucking Credit Form in accordance with Section 1-02.9 of the Contract.

INSTRUCTIONS

Please note – All Fields are required

PART A: TO BE COMPLETED BY THE BIDDER

Federal Aid: Include the project federal-aid number.

County: Specify the County where the project will take place.

Contract #: Specify the Project Contract Number which can be found in the Engineer's estimate bid check report.

Bid Item: Provide the Bid Item Number (as it appears in the engineer's estimate bid check report) for which trucking services will be utilized.

Item Description: Provide description of the bid item (as it appears in the engineer's estimate bid check report) for which trucking will be utilized.

Bidder: In this section, provide the bidder's legal name, title, Business address, Phone and email.

The bidder's representative signature is required in addition to the date the form was signed.

PART B: TO BE COMPLETED BY THE UDBE TRUCKING FIRM

Question 1: Specify type of material that will be hauled (i.e. Sand, HMA, gravel)

Question 2: Specify the total number of operational trucks that will be used on the project.

Question 3: Specify the total number of operational trucks and trailers owned by the UDBE that will be used on the project.

Question 4: Specify the total number of operational trucks and trailers leased by the UDBE that will be used on the project.

UDBE Firm: In this section, provide the UDBE Firm's legal name, UDBE Firm's representative legal name and title, certification Number (Found in the firm's OMWBE profile page in the OMWBE directory), Business address, Phone, fax and email.

The UDBE Firm's representative signature is required in addition to the date the form was signed.

ACKNOWLEDGMENT

SPECIFICATION NO. PW20-0231F

The bidder is hereby advised that by signature of this bid proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

The undersigned hereby agrees to pay labor not less than the prevailing rates of wages in accordance with the requirements of the Special provisions for this project.

A bid proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

CASH _____ IN THE AMOUNT OF _____
CASHIER'S CHECK _____ Dollars
CERTIFIED CHECK _____ (\$_____) PAYABLE TO THE CITY TREASURER
BID BOND _____ IN THE AMOUNT OF 5% OF THE TOTAL AMOUNT BID

**Receipt is hereby acknowledged of Addendum No.(s) ____, ____, ____, & ____.

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Firm Name _____

Signed and sworn to (or affirmed) before me on _____
Date

Notary Public

My appointment expires _____
(Seal or Stamp)

NOTE:

1. This bid proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from the Secretary of Transportation will be cause for considering the bid proposal irregular and subsequent rejection of the bid.
2. Please refer to Section 1-02.6 of the standard Specification, re: "Preparation of Proposal," or "Article 4" of the Instructions to Bidders for building construction jobs.

CONTRACT

Resolution No.
Contract No.

This Contract is made and entered into effective this _____ day of ,20____, ("Effective Date") by and between the City of Tacoma, a Municipal Corporation of the State of Washington ("City"), and legal name of Supplier including type of business entity ("Contractor").

That in consideration of the mutual promises and obligations hereinafter set forth the Parties hereto agree as follows:

- I. Contractor shall fully execute and diligently and completely perform all work and provide all services and deliverables described herein and in the items listed below each of which are fully incorporated herein and which collectively are referred to as "Contract Documents":

-
1. Specification No. Enter Spec Number and Enter Spec Title together with all authorized addenda.
 2. Contractor's submittal (or specifically described portions thereof) dated Enter Submittal Date submitted in response to Specification No. Enter Spec Number and Enter Spec Title.
 3. Describe with specific detail and list separately any other documents that will make up the contract (fee schedule, work schedule, authorized personnel, etc.) or any other additional items mutually intended to be binding upon the parties.
-

Delete this highlighted sentence, paragraph II and sub-bullets #1 and #2 if there are no additional attachments to the contract (attachments would be things other than a specific, contract, or bonds).

- II. In the event of a conflict or inconsistency between the terms and conditions contained in this document entitled Contract and any terms and conditions contained the above referenced Contract Documents the following order of precedence applies with the first listed item being the most controlling and the last listed item the least controlling:
1. Contract
 2. List remaining Contract Documents in applicable controlling order.
- III. The Contract terminates on xxxxx. {May remove if not applicable}
- IV. The total price to be paid by City for Contracts full and complete performance hereunder may not exceed:
\$ _____, plus any applicable taxes.
- V. Contractor agrees to accept as full payment hereunder the amounts specified herein and in Contract Documents, and the City agrees to make payments at the times and in the manner and upon the terms and conditions specified. Except as may be otherwise provided herein or in Contract Documents Contractor shall provide and bear the expense of all equipment, work and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work and providing the services and deliverables required by this Contract.
- VI. The City's preferred method of payment is by ePayables (Payment Plus), followed by credit card (aka procurement card), then Electronic Funds Transfer (EFT) by Automated Clearing House (ACH), then check or other cash equivalent. CONTRACTOR may be required to have the capability of accepting the City's ePayables or credit card methods of payment. The City of Tacoma will not accept price changes or pay additional fees when ePayables (Payment Plus) or credit card is used. The City, in its sole discretion, will determine the method of payment for this Contract.
- VII. Failure by City to identify a deficiency in the insurance documentation provided by Contractor or failure of City to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- VIII. Contractor acknowledges, and by signing this Contract agrees, that the Indemnification provisions set forth in the controlling Contract Documents, including the Industrial Insurance immunity waiver (if applicable), are totally and fully part of this Contract and, within the context of the competitive bidding laws, have been mutually negotiated by the Parties hereto.

- IX. Contractor and for its heirs, executors, administrators, successors, and assigns, does hereby agree to the full performance of all the requirements contained herein and in Contract Documents.
- X. It is further provided that no liability shall attach to City by reason of entering into this Contract, except as expressly provided herein.

IN WITNESS WHEREOF, the Parties hereto have accepted and executed, as of the Effective Date stated above, which shall be Effective Date for bonding purposes as applicable.

CITY OF TACOMA:

CONTRACTOR:

By:

By:

(City of Tacoma use only - blank lines are intentional)

Director of Finance: _____

City Attorney (approved as to form): _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____



PAYMENT BOND TO THE CITY OF TACOMA

Resolution No.
Bond No.

That we, the undersigned,

as principal, and _____
as a surety, are jointly and severally held and firmly bound to the CITY OF TACOMA, in the penal sum of,
\$ _____, for the payment whereof Contractor and Surety bind themselves,
their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

This obligation is entered into in pursuance of the statutes of the State of Washington, the Ordinances of the City of Tacoma.

WHEREAS, under and pursuant to the City Charter and general ordinances of the City of Tacoma, the said City has or is about to enter with the above bounden principal, a contract, providing for

Specification No. _____

Specification Title: _____

Contract No. _____

(which contract is referenced to herein and is made a part hereof as though attached hereto), and

WHEREAS, the said principal has accepted, the said contract, and undertake to perform the work therein provided for in the manner and within the time set forth.

This statutory payment bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall pay all persons in accordance with RCW 39.08, 39.12, and 60.28, including all workers, laborers, mechanics, subcontractors, and materialmen, and all person who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and all taxes incurred on said Contract under Titles 50 and 51 RCW and all taxes imposed on the Principal under Title 82 RCW; and if such payment obligations have not been fulfilled, this bond shall remain in full force and effect.

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

No suit or action shall be commenced hereunder by any claimant unless claimant shall have given the written notices to the City, and where required, the Contractor, in accordance with RCW 39.08.030.

The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of claims which may be properly filed in accordance with RCW 39.08 whether or not suit is commenced under and against this bond.

If any claimant shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgment and attorney fees as provided by RCW 39.08.030, shall also pay such costs and attorney fees as may be incurred by the City as a result of such suit. Venue for any action arising out of or in connection with this bond shall be in Pierce County, WA.

Surety companies executing bonds must be authorized to transact business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Department of the Treasury.

Resolution No.
Bond No.
Specification No.
Contract No.

One original bond shall be executed, and be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed power of attorney for the office executing on behalf of the surety.

Principal: Enter Vendor Legal Name

By: _____

Surety:

By: _____

Agent's Name: _____

Agent's Address: _____



PERFORMANCE BOND TO THE CITY OF TACOMA

Resolution No.
Bond No.

That we, the undersigned,

as principal, and

as a surety, are jointly and severally held and firmly bound to the CITY OF TACOMA, in the penal sum of

\$ _____, for the payment whereof Contractor and Surety bind themselves,

their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

This obligation is entered into in pursuance of the statutes of the State of Washington, the Ordinances of the City of Tacoma.

WHEREAS, under and pursuant to the City Charter and general ordinances of the City of Tacoma, the said City has or is about to enter with the above bounden principal, a contract, providing for

Specification No. _____

Specification Title: _____

Contract No. _____

(which contract is referenced to herein and is made a part hereof as though attached hereto), and

WHEREAS, the said principal has accepted, the said contract, and undertake to perform the work therein provided for in the manner and within the time set forth.

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

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

If the City shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgement, shall pay all costs and attorney's fees incurred by the City in enforcement of its rights hereunder. Venue for any action arising out of in connection with this bond shall be in Pierce County, Washington.

Surety companies executing bonds must be authorized to transact business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Department of the Treasury.

One original bond shall be executed, and signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed power of attorney for the office executing on behalf of the surety.

Principal: Enter Vendor Legal Name

By: _____

Surety:

By: _____

Agent's Name: _____

Agent's Address: _____

GENERAL RELEASE TO THE CITY OF TACOMA

The undersigned, named as the contractor for _____
between _____ and the City of Tacoma,
(Themselves or Itself)
dated _____, 20____, hereby releases the City
of Tacoma, its departmental officers and agents from any and all claim or
claims whatsoever in any manner whatsoever at any time whatsoever arising
out of and/or in connection with and/or relating to said contract, excepting only
the equity of the undersigned in the amount now retained by the City of
Tacoma under said contract, to-wit the sum of \$_____.
Project / Spec. #

Signed at Tacoma, Washington this _____ day of _____, 20____.

Contractor

By _____

Title _____

PART II

REQUIRED FEDERAL AID CONTRACT PROVISIONS

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

FHWA-1273 -- Revised May 1, 2012

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with

the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this

contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and

mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may,

after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and

individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual

was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or

general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or

voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--
Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

AMENDMENT

REQUIRED CONTRACT PROVISIONS

(Exclusive of Appalachian Contracts)

FEDERAL-AID CONSTRUCTION CONTRACTS

The Federal-Aid provisions are supplemented with the following:

XII. Cargo Preference Act

1. U.S. Department of Transportation Federal Highway Administration memorandum dated December 11, 2015 requires that all federal-aid highway programs awarded after February 15, 2016 must comply with the Cargo Preference Act and its regulation of 46 CFR 381.7 (a)-(b).

PART III

SPECIAL PROVISIONS

TABLE OF CONTENTS

INTRODUCTION TO THE SPECIAL PROVISIONS	1
DESCRIPTION OF WORK.....	1
1-01 DEFINITIONS AND TERMS.....	2
1-01.3 Definitions	2
1-02 BID PROCEDURES AND CONDITIONS	5
1-02.1 Prequalification of Bidders.....	5
1-02.1 Qualifications of Bidder.....	5
1-02.2 Plans and Specifications	5
1-02.4(1) General	5
1-02.5 Proposal Forms	6
1-02.6 Preparation of Proposal.....	6
1-02.6(1) Recycled Materials Proposal.....	7
1-02.7 Bid Deposit.....	7
1-02.9 Delivery of Proposal	7
1-02.10 Withdrawing, Revising, or Supplementing Proposal.....	8
1-02.13 Irregular Proposals	9
1-02.14 Disqualification of Bidders	10
1-02.15 Pre Award Information	10
1-03 AWARD AND EXECUTION OF CONTRACT	11
1-03.1 Consideration of Bids	11
1-03.1(1) Identical Bid Totals	11
1-03.3 Execution of Contract	11
1-03.4 Contract Bond.....	12
1-04 SCOPE OF THE WORK	13
1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda	13
1-05 CONTROL OF WORK.....	14
1-05.4 Conformity With and Deviations from Plans and Stakes	14
1-05.4(2) Bridge and Structure Surveys.....	18
1-05.7 Removal of Defective and Unauthorized Work	19
1-05.11 Final Inspection	20
1-05.11 Final Inspections and Operational Testing.....	20
1-05.11(1) Substantial Completion Date	20
1-05.11(2) Final Inspection and Physical Completion Date	20

1-05.11(3) Operational Testing.....	21
1-05.13 Superintendents, Labor and Equipment of Contractor	21
1-05.15 Method of Serving Notices.....	21
1-05.16 Water and Power	22
1-05.18 Record Drawings.....	22
1-06 CONTROL OF MATERIAL	24
1-06.6 Recycled Materials.....	24
1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC.....	26
1-07.1 Laws to be Observed.....	26
1-07.2 State Taxes	26
1-07.2 State Tax	26
1-07.2(1) State Sales Tax — Rule 171.....	27
1-07.2(2) State Sales Tax — Rule 170.....	27
1-07.2(3) Services	28
1-07.4 Sanitation	28
1-07.4(2) Health Hazards	28
1-07.9 Wages	28
1-07.9(1) General	28
1-07.9(5) Required Documents	29
1-07.11 Requirements for Nondiscrimination (Option B)	30
1-07.11 Requirements for Nondiscrimination	37
1-07.12 Federal Agency Inspection	57
1-07.17 Utilities and Similar Facilities	57
1-07.18 Public Liability and Property Damage Insurance.....	58
1-07.18 Insurance	58
1-07.18(1) General Requirements	58
1-07.18(2) Additional Insured.....	59
1-07.18(3) Subcontractors	60
1-07.18(4) Verification of Coverage	60
1-07.18(5) Coverages and Limits	61
1-07.18(5)A Commercial General Liability	61
1-07.18(5)B Automobile Liability	62
1-07.18(5)C Workers' Compensation.....	62
1-07.18(5)D Excess or Umbrella Liability	62
1-07.18(5)E Railroad Protective Liability Insurance	62
1-07.23 Public Convenience and Safety.....	62

1-07.23(1) Construction Under Traffic.....	63
1-07.24 Rights of Way	65
1-08 PROSECUTION AND PROGRESS.....	67
1-08.0 Preliminary Matters	67
1-08.0(1) Preconstruction Conference.....	67
1-08.1 Subcontracting	67
1-08.0(2) Hours of Work	68
1-08.3(2)A Type A Progress Schedule	69
1-08.4 Prosecution of Work	69
1-08.4 Notice to Proceed and Prosecution of Work	69
1-08.5 Time for Completion.....	69
1-08.9 Liquidated Damages.....	71
1-09 MEASUREMENT AND PAYMENT	72
1-09.2(1) General Requirements for Weighing Equipment.....	72
1-09.6 Force Account	72
1-09.9 Payments	72
1-09.9(1) Retainage	73
1-09.11 Disputes and Claims.....	73
1-09.13(3)A Administration of Arbitration	85
1-10 TEMPORARY TRAFFIC CONTROL	86
1-10.2(1) General.....	86
1-10.3(2) Traffic Control Procedures.....	86
1-10.3(2)F Pedestrian Accommodation	86
1-10.3(2)G Emergency Communication Plan	87
1-10.3(3) Traffic Control Devices	87
1-10.3(3)C Portable Changeable Message Sign.....	87
1-10.4 Measurement	87
1-10.4(3) Reinstating Unit Items With Lump Sum Traffic Control	87
1-10.5 Payment.....	88
1-10.5(2) Item Bids with Lump Sum for Incidentals.....	88
2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP.....	89
2-01.1 Description	89
2-01.2 Disposal of Usable Material and Debris.....	89
2-01.3(1) Clearing	89
2-01.3(2) Grubbing	89
2-03 ROADWAY EXCAVATION AND EMBANKMENT	90

2-03.1 Description	90
2-03.3 Construction Requirements	90
2-03.3(5) Slope Treatment.....	90
2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters	90
2-03.5 Payment.....	90
2-06 SUBGRADE PREPARATION	91
2-06.3 Construction Requirements	91
2-06.5 Measurement and Payment.....	91
2-06.5(2) Subgrade Not Constructed Under Same Contract.....	91
2-07 WATERING	92
2-07.3 Construction Requirements	92
2-07.3(1) Water Supplied from Hydrants	92
2-09 STRUCTURE EXCAVATION	93
2-09.4 Measurement	93
2-09.5 Payment.....	93
2-14 PAVEMENT REMOVAL	94
2-14.1 Description	94
2-14.2 Pavement Classification	94
2-14.3 Construction Requirements	95
2-14.4 Measurement	95
2-14.5 Payment.....	95
2-15 CURB AND CURB AND GUTTER REMOVAL.....	96
2-15.1 Description	96
2-15.2 Curb Classification	96
2-15.3 Construction Requirements	96
2-15.4 Measurement	96
2-15.5 Payment.....	96
3-04 ACCEPTANCE OF AGGREGATE	97
3-04.1 Description	97
3-04.3(1) General.....	97
3-04.3(4) Testing Results.....	97
3-04.3(6) Statistical Evaluation	97
4-06 ASPHALT TREATED BASE (ATB).....	98
4-06.1 Description	98
4-06.2 Materials.....	98
4-06.3 Construction Requirements	98

4-06.3(1) Asphalt Mixing Plant.....	98
4-06.3(2) Preparation of Aggregates.....	99
4-06.3(2)A Mix Design	99
4-06.3(3) Vacant.....	99
4-06.3(4) Mixing	99
4-06.3(5) Hauling Equipment.....	99
4-06.3(6) Spreading and Finishing.....	99
4-06.3(6)A Subgrade Protection Course	99
4-06.3(6)B Finish Course	100
4-06.3(7) Density.....	100
4-06.3(8) Anti-Stripping Additive	100
4-06.4 Measurement	100
4-06.5 Payment.....	101
5-02 BITUMINOUS SURFACE TREATMENT.....	102
5-02.3(1) Equipment.....	102
5-04 HOT MIX ASPHALT	103
5-04.2 Materials.....	103
5-04.2(1) How to Get an HMA Mix Design on the QPL	103
5-04.2(2) Mix Design – Obtaining Project Approval	103
5-04.2(2)B Using HMA Additives	104
5-04.3 Construction Requirements	104
5-04.3(2) Paving Under Traffic.....	104
5-04.3(3)C Pavers	105
5-04.3(3)D Material Transfer Device or Material Transfer Vehicle	105
5-04.3(4)C Pavement Repair.....	105
5-04.3(6) Mixing	105
5-04.3(9) HMA Mixture Acceptance	106
5-04.3(9)A Test Sections	106
5-04.3(9)B Mixture Acceptance – Statistical Evaluation	106
5-04.3(9)B Mixture Acceptance – Nonstatistical Evaluation	106
5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots	106
5-04.3(9)B1 Mixture Nonstatistical Evaluation – Lots and Sublots	106
5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results.....	107
5-04.3(10)B HMA Compaction - Cyclic Density.....	107
5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots	107
5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing.....	107

5-04.3(10)C2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing	108
5-04.4 Measurement	108
5-04.5 Payment	109
6-02 CONCRETE STRUCTURES	110
6-02.3(1) Classification of Structural Concrete	110
6-02.3(2)B Commercial Concrete	110
6-02.3(4) Ready-Mix Concrete	110
7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS	111
7-05.3(1) Adjusting Manholes and Catch Basins to Grade	111
7-05.3(1) Adjusting Utility Structures to Grade	111
7-05.5 Payment	111
7-07 CLEANING EXISTING DRAINAGE STRUCTURES	112
7-07.3 Construction Requirements	112
8-01 EROSION CONTROL AND WATER POLLUTION CONTROL	113
8-01.1 Description	113
8-01.3(1) General	113
8-01.3(1)A Submittals	113
8-01.3(1)B Erosion and Sediment Control (ESC) Lead	114
8-01.3(7) Stabilized Construction Entrance	115
8-01.3(8) Street Cleaning	115
8-01.3(9)D Inlet Protection	115
8-01.3(10) Wattles	115
8-01.4 Measurement	115
8-01.4(1) Lump Sum Bid for Project (No Unit Items)	115
8-01.4(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control ...	116
8-01.5 Payment	116
8-01.5(1) Lump Sum Bid for Project (No Unit Items)	116
8-01.5(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control ...	117
8-02 ROADSIDE RESTORATION	118
8-02.3 Construction Requirements	118
8-02.3(6) Soil Amendments	118
8-02.3(11) Bark or Wood Chip Mulch	118
8-02.3(17) Site Restoration	118
8-02.4 Measurement	118
8-02.5 Payment	119
8-03 IRRIGATION SYSTEM	120

8-03.3 Construction Requirements	120
8-03.3(5) Installation.....	120
8-04 CURBS, GUTTERS, AND SPILLWAYS	121
8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways.....	121
8-04.3(1)C Integral Cement Concrete Curb	121
8-04.3(6) Cold Weather Work	121
8-04.5 Payment	121
8-06 CEMENT CONCRETE DRIVEWAY ENTRANCES	122
8-06.3 Construction Requirements	122
8-06.3(1) Cold Weather Work	122
8-06.5 Payment	122
8-13 MONUMENT CASES	123
8-13 Monuments	123
8-13.1 Description	123
8-13.2 Materials.....	123
8-13.3 Construction Requirements	123
8-13.4 Measurement	123
8-13.5 Payment.....	123
8-14 CEMENT CONCRETE SIDEWALKS.....	124
8-14.3 Construction Requirements	124
8-14.3(3) Placing and Finishing Concrete.....	124
8-14.3(4) Curing	124
8-14.3(20) Cold Weather Work	124
8-14.3(21) Thickened Edge for Sidewalk	124
8-14.5 Payment	124
8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL	125
8-20.2 Materials.....	125
8-20.2(1) Equipment List and Drawings.....	125
8-20.3 Construction Requirements	126
8-20.3(1) General	126
8-20.3(4) Foundations	127
8-20.3(5) Conduit	127
8-20.3(5)A General.....	127
8-20.3(5)B Conduit Type	127
8-20.3(5)D Conduit Placement	128
8-20.3(5)E1 Open Trenching	128

8-20.3(6) Junction Boxes, Cable Vaults, and Pull boxes	128
8-20.3(7) Messenger Cable, Fittings.....	129
8-20.3(8) Wiring.....	129
8-20.3(10) Service, Transformer, and Intelligent Transportation System (ITS)	131
Cabinets	131
8-20.3(14) Signal Systems	131
8-20.3(14)A Signal Controllers.....	131
8-20.3(14)B Signal Heads	131
8-20.3(14)C Induction Loop Vehicle Detectors	132
8-20.3(14)F Thermal, Microwave, and LED Optical Vehicle Detection	132
8-20.3(17)B “As Built” Plans	132
8-20.4 Measurement	132
8-20.5 Payment.....	132
9-03 AGGREGATES	134
9-03.1 Aggregates for Portland Cement Concrete	134
9-03.1(1) General Requirements	134
9-03.6 Vacant	134
9-03.6 Aggregates for Asphalt Treated Base (ATB)	134
9-03.6(1) General Requirements	134
9-03.6(2) Grading	134
9-03.6(3) Test Requirements	134
9-03.8 Aggregates for Hot Mix Asphalt	135
9-03.12 Gravel Backfill	135
9-03.12(10) Pea Gravel	135
9-03.21 Recycled Material.....	135
9-03.21(1) General Requirements	136
9-07 REINFORCING STEEL.....	137
9-07.5(2) Corrosion Resistant Dowel Bars (For Cement Concrete Pavement)	137
9-29 ILLUMINATION, SIGNALS, ELECTRICAL	138
9-29.1(6) Detectable Underground Warning Tape.....	138
9-29.2 Junction Boxes, Cable Vaults and Pull Boxes.....	138
9-29.2(4) Cover Markings	138
9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable	138
9-29.3(2)A Single Conductor	138
9-29.3(2)A1 Single Conductor Current Carrying	138
9-29.3(2)A2 Grounding Electrode Conductor.....	138

9-29.3(2)A3 Equipment Grounding and Bonding Conductors	139
9-29.3(2)B Multi-Conductor Cable	139
9-29.4 Messenger Cable, Fittings	139
9-29.6 Light and Signal Standards.....	139
9-29.6(5) Foundation Hardware.....	140
9-29.6(6) City of Tacoma Universal Pole.....	140
9-29.6(6)A Steel Strain Poles	140
9-29.12(2) Traffic Signal Splice Material	142
9-29.13 Control Cabinet Assemblies.....	142
9-29.13(1) Traffic Control Cabinets	143
9-29.13(2) Submittals	144
9-29.13(3) Wiring.....	144
9-29.13(4) Auxiliary Equipment.....	145
9-29.13(4)A Traffic Signal Controller	145
9-29.13(4)B Malfunction Management Unit (MMU).....	145
9-29.13(4)C Vent fan	145
9-29.13(4)D Load Switches	145
9-29.13(4)E NEMA Flasher	145
9-29.13(4)G Detector Power Supply	145
9-29.13(4)H Ethernet over Copper Switch	145
9-29.13(4)I Preemption/Priority Equipment.....	146
9-29.13(5) Electrical Design	146
9-29.13 (5)A Side Panels.....	146
9-29.13(5)B Back Panel	146
9-29.13(5)C Power Panel	147
9-29.13(5)D Convenience Outlets	147
9-29.13(2)E Cabinet Illumination	147
9-29.13(5)F Police Panel.....	148
9-29.13(5)G Auxiliary Panel.....	148
9-29.15 Flashing Beacon Control	148
9-29.16 Vehicular Signal Heads, Displays, and Housing	148
9-29.16(2)B Signal Housing.....	148
9-29.16(3) Polycarbonate Traffic Signal Heads.....	149
9-29.17 Signal Head Mounting Brackets and Fittings	149
9-29.18 Vehicle Detector	149
9-29.18(3) Thermal Detection System	151

9-29.18(3)A Thermal Detection Cameras	151
9-29.18(3)B Video Image Processor.....	151
9-29.18(3)B Video System Communication Board.....	154
9-29.18(4) LED Optical 3D Detection System.....	155
9-29.19 Pedestrian Push Buttons	157
9-29.20 Pedestrian Signals	157
9-29.22 Preemption Hardware.....	157

1 **INTRODUCTION TO THE SPECIAL PROVISIONS**
2 **(August 14, 2013 APWA GSP)**
3

4 The work on this project shall be accomplished in accordance with the *Standard*
5 *Specifications for Road, Bridge and Municipal Construction*, 2020 edition, as issued by
6 the Washington State Department of Transportation (WSDOT) and the American Public
7 Works Association (APWA), Washington State Chapter (hereafter "Standard
8 Specifications"). The Standard Specifications, as modified or supplemented by the
9 Amendments to the Standard Specifications and these Special Provisions, all of which
10 are made a part of the Contract Documents, shall govern all of the Work.
11

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

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

24 **(March 8, 2013 APWA GSP)**
25 **(April 1, 2013 WSDOT GSP)**
26 **(May 1, 2013 Tacoma GSP)**
27

28 Also incorporated into the Contract Documents by reference are:

- 29 • *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently
30 adopted edition, with Washington State modifications, if any
- 31 • *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA,
32 current edition
- 33 • City of Tacoma Standard Plans
- 34 • City of Tacoma Traffic Control Handbook
- 35 • City of Tacoma Right-of-Way Restoration Manual
36

37 Contractor shall obtain copies of these publications, at Contractor's own expense.
38

39 **DESCRIPTION OF WORK**
40 **(March 13, 1995)**
41

42 This Contract shall generally consist of removing and replacing existing traffic signal
43 heads, pedestrian signal heads, pedestrian pushbuttons, junction boxes, and traffic
44 controller cabinets, traffic signal poles, rewiring of existing traffic signals systems,
45 removal and replacement of traffic islands and curb ramps, and installing channelization
46 along East Portland Avenue between East Puyallup Avenue and East 72nd Street.
47

48 **END OF SECTION**
49

1 **1-01 DEFINITIONS AND TERMS**

2
3 **1-01.3 Definitions**

4 **(January 4, 2016 APWA GSP)**

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

7
8 **Dates**

9 ***Bid Opening Date***

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

11 ***Award Date***

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

14 ***Contract Execution Date***

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

16 ***Notice to Proceed Date***

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

18 ***Substantial Completion Date***

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

24 ***Physical Completion Date***

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

28 ***Completion Date***

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

33 ***Final Acceptance Date***

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

35
36 *Supplement this Section with the following:*

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

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

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

1 All references to “final contract voucher certification” shall be interpreted to mean the
2 Contracting Agency form(s) by which final payment is authorized, and final completion
3 and acceptance granted.
4

5 **Additive**

6 A supplemental unit of work or group of bid items, identified separately in the Bid
7 Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition
8 to the base bid.
9

10 **Alternate**

11 One of two or more units of work or groups of bid items, identified separately in the Bid
12 Proposal, from which the Contracting Agency may make a choice between different
13 methods or material of construction for performing the same work.
14

15 **Business Day**

16 A business day is any day from Monday through Friday except holidays as listed in
17 Section 1-08.5.
18

19 **Contract Bond**

20 The definition in the Standard Specifications for “Contract Bond” applies to whatever
21 bond form(s) are required by the Contract Documents, which may be a combination of a
22 Payment Bond and a Performance Bond.
23

24 **Contract Documents**

25 See definition for “Contract”.
26

27 **Contract Time**

28 The period of time established by the terms and conditions of the Contract within which
29 the Work must be physically completed.
30

31 **Notice of Award**

32 The written notice from the Contracting Agency to the successful Bidder signifying the
33 Contracting Agency’s acceptance of the Bid Proposal.
34

35 **Notice to Proceed**

36 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
37 and directing the Contractor to proceed with the Work and establishing the date on
38 which the Contract time begins.
39

40 **Traffic**

41 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs,
42 and equestrian traffic.
43

44 All references in the Standard Specifications to the term “Proposal Bond” shall be
45 revised to read “Bid Bond.”
46

47 **Base Bid**

48 The summation of Bid Item amounts (extensions) in the Bid Forms, excluding Additives,
49 Alternates, Deductives, Force Accounts, and taxes collected separately pursuant to
50 Section 1-07.2.
51

1 **Calendar Day**

2 The time period of 24 hours measured from midnight to the next midnight, including
3 weekends and holidays.
4

5 **Change Order**

6 A written order to the Contractor, issued by the Contracting Agency after execution of
7 the contract, authorizing an addition, deletion, or other revision in the Work, within the
8 scope of the Contract Documents, and establishing the basis of payment and time
9 adjustments, if any, for the Work affected by the change.
10

11 **Day**

12 Unless otherwise specified, a calendar day.
13

14 **Deductive**

15 A supplemental unit of work or group of Bid Items, identified separately in the Bid, which
16 may, at the discretion of the Contract Agency, be deducted from the Base Bid should the
17 Contract Agency choose not to Award the total Base Bid.
18

19 **Grand Total Price**

20 The Grand Total Price of the Contract will include the Base Bid, Additives, Alternates,
21 Deductives, Force Accounts, and taxes collected separately pursuant to Section 1-07.2.
22

23 **Standard Specifications**

24 Divisions One through Nine of the specified edition of the WSDOT "Standard
25 Specifications for Road, Bridge, and Municipal Construction."
26
27

28 **END OF SECTION**
29
30

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

2
3 **1-02.1 Prequalification of Bidders**

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

5
6 **1-02.1 Qualifications of Bidder**
7 **(January 24, 2011 APWA GSP)**

8
9 Before award of a public works contract, a bidder must meet at least the minimum
10 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified
11 to be awarded a public works project.

12
13 **1-02.2 Plans and Specifications**
14 **(June 27, 2011 APWA GSP)**

15 *Delete this section and replace it with the following:*

16
17 Information as to where Bid Documents can be obtained or reviewed can be found in the
18 Call for Bids (Advertisement for Bids) for the work.

19
20 After award of the contract, plans and specifications will be issued to the Contractor at
21 no cost as detailed below:

22

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	6	Furnished automatically upon award.
Contract Provisions	6	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	2	Furnished only upon request.

23
24 Additional plans and Contract Provisions may be obtained by the Contractor from the
25 source stated in the Call for Bids, at the Contractor's own expense.

26
27 **1-02.4(1) General**
28 **(August 15, 2016 APWA GSP Option B)**

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

30
31 Any prospective Bidder desiring an explanation or interpretation of the Bid Documents,
32 shall request the explanation or interpretation in writing by close of business 6 business
33 days preceding the bid opening to allow a written reply to reach all prospective Bidders
34 before the submission of their Bids.

1 **1-02.5 Proposal Forms**

2 **(July 31, 2017 APWA GSP)**

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

4
5 The Proposal Form will identify the project and its location and describe the work. It will
6 also list estimated quantities, units of measurement, the items of work, and the materials
7 to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal
8 form that call for, but are not limited to, unit prices; extensions; summations; the total bid
9 amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment
10 of addenda; the bidder's name, address, telephone number, and signature; the bidder's
11 UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's
12 Registration Number; and a Business License Number, if applicable. Bids shall be
13 completed by typing or shall be printed in ink by hand, preferably in black ink. The
14 required certifications are included as part of the Proposal Form.

15
16 The Contracting Agency reserves the right to arrange the proposal forms with alternates
17 and additives, if such be to the advantage of the Contracting Agency. The bidder shall
18 bid on all alternates and additives set forth in the Proposal Form unless otherwise
19 specified.

20
21 **1-02.6 Preparation of Proposal**

22 **(May 28, 2020 APWA GSP)**

23 *Supplement this section with the following:*

24
25 The Bidder shall submit with the Bid a completed Underutilized Disadvantaged Business
26 Enterprise (UDBE) Utilization Certification, when required by the Special Provisions. For
27 each and every UDBE firm listed on the Bidder's completed Underutilized Disadvantaged
28 Business Enterprise Utilization Certification, the Bidder shall submit written confirmation
29 from that UDBE firm that the UDBE is in agreement with the UDBE participation
30 commitment that the Bidder has made in the Bidder's completed Underutilized
31 Disadvantaged Business Enterprise Utilization Certification.

32
33 WSDOT Form 422 031U (Underutilized Disadvantaged Business Enterprise Written
34 Confirmation Document) is to be used for this purpose. Bidder must submit good faith
35 effort documentation only in the event the bidder's efforts to solicit sufficient UDBE
36 participation have been unsuccessful.

37
38 The Bidder shall submit a UDBE Bid Item Breakdown form defining the scope of work to
39 be performed by each UDBE listed on the UDBE Utilization Certification.

40
41 If the Bidder lists a UDBE Trucking firm on the UDBE Utilization Certification, then the
42 Bidder must also submit a UDBE Trucking Credit Form (WSDOT Form 272-058)
43 documenting how the UDBE Trucking firm will be able to perform the scope of work
44 subcontracted to them.

45
46 Directions for delivery of the Underutilized Disadvantaged Business Enterprise Written
47 Confirmation Documents, Underutilized Disadvantaged Business Enterprise Good Faith
48 Effort documentation, UDBE Bid Item Breakdown Form and the UDBE Trucking Credit
49 Form are included in Section 1-02.9.

1 **1-02.6(1) Recycled Materials Proposal**
2 **(January 4, 2016 APWA GSP)**

3
4 The Bidder shall submit with the Bid, its proposal for incorporating recycled materials
5 into the project, using the form provided in the Contract Provisions.
6

7 **1-02.7 Bid Deposit**
8 **(April 1, 2012 Tacoma GSP)**

9 *Delete this section and replace it with the following:*

10
11 A deposit of at least 5 percent of the total Bid shall accompany each Bid. This deposit
12 may be cash, certified check, cashier's check, or a proposal bond (Surety bond). Any
13 proposal bond shall be on a form acceptable to the Contracting Agency and shall be
14 signed by the Bidder and the Surety. A proposal bond shall not be conditioned in any
15 way to modify the minimum 5 percent required. The Surety shall: (1) be registered with
16 the Washington State Insurance Commissioner, and (2) appear on the current
17 Authorized Insurance List in the State of Washington published by the Office of the
18 Insurance Commissioner.
19

20 The failure to furnish a Bid deposit of a minimum of 5 percent shall make the Bid
21 nonresponsive and shall cause the Bid to be rejected by the Contracting Agency.
22

23 If a Bid Bond is furnished, the form furnished by the Contracting Agency must be
24 followed. No variations from the language thereof will be accepted.
25

26 If submitting your bid electronically, a scanned version of the original bid bond must
27 accompany your electronic bid submittal. The original bid bond shall be sent to the
28 Contracting Agency and postmarked no later than the day of bid opening. **Original**
29 **bid bonds will be delivered to:**

30
31 **City of Tacoma Procurement & Payables Division**
32 **Tacoma Public Utilities**
33 **P.O. Box 11007**
34 **Tacoma, WA 98411-0007**
35

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

38 **1-02.9 Delivery of Proposal**

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

40
41 Each Proposal shall be submitted to the City electronically via email to
42 bids@cityoftacoma.org, with the Project Name as stated in the Call for Bids noted on
43 the subject line of the email, or as otherwise required in the Bid Documents, to
44 ensure proper handling and delivery. All electronic documents shall be in PDF
45 format.
46

47 To be considered responsive on a FHWA-funded project, the Bidder may be required
48 to submit the following items, as required by Section 1-02.6:
49

- 50 • UDBE Written Confirmation Document from each UDBE firm listed on the
51 Bidder's completed UDBE Utilization Certification (WSDOT 272-056U)

- Good Faith Effort (GFE) Documentation
- UDBE Bid Item Breakdown (WSDOT 272-054)
- UDBE Trucking Credit Form (WSDOT 272-058)

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 48 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 via email to bids@cityoftacoma.org, with "Supplemental Information" noted in the subject line. 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.

Proposals that are received as required will be publicly opened and read as specified in Section 1-02.12. 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.

If an emergency or unanticipated event interrupts normal work processes of the Contracting Agency so that Proposals cannot be received at the office designated for receipt of bids as specified in Section 1-02.12 the time specified for receipt of the Proposal will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which the normal work processes of the Contracting Agency resume.

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.

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

4
5 **1-02.13 Irregular Proposals**
6 **(December 19, 2019 APWA GSP)**

7 *Delete this section and replace it with the following:*
8

- 9 1. A Proposal will be considered irregular and will be rejected if:
- 10 a. The Bidder is not prequalified when so required;
 - 11 b. The authorized Proposal form furnished by the Contracting Agency is not
12 used or is altered;
 - 13 c. The completed Proposal form contains any unauthorized additions,
14 deletions, alternate Bids, or conditions;
 - 15 d. The Bidder adds provisions reserving the right to reject or accept the
16 award, or enter into the Contract;
 - 17 e. A price per unit cannot be determined from the Bid Proposal;
 - 18 f. The Proposal form is not properly executed;
 - 19 g. The Bidder fails to submit or properly complete a Subcontractor list, if
20 applicable, as required in Section 1-02.6;
 - 21 h. The Bidder fails to submit or properly complete an Underutilized
22 Disadvantaged Business Enterprise Certification, if applicable, as
23 required in Section 1-02.6;
 - 24 i. The Bidder fails to submit written confirmation from each UDBE firm listed
25 on the Bidder's completed UDBE Utilization Certification that they are in
26 agreement with the bidder's UDBE participation commitment, if
27 applicable, as required in Section 1-02.6, or if the written confirmation that
28 is submitted fails to meet the requirements of the Special Provisions;
 - 29 j. The Bidder fails to submit UDBE Good Faith Effort documentation, if
30 applicable, as required in Section 1-02.6, or if the documentation that is
31 submitted fails to demonstrate that a Good Faith Effort to meet the
32 Condition of Award was made;
 - 33 k. The Bidder fails to submit a UDBE Bid Item Breakdown form, if
34 applicable, as required in Section 1-02.6, or if the documentation that is
35 submitted fails to meet the requirements of the Special Provisions;
 - 36 l. The Bidder fails to submit UDBE Trucking Credit Forms, if applicable, as
37 required in Section 1-02.6, or if the documentation that is submitted fails
38 to meet the requirements of the Special Provisions;
 - 39 m. The Bid Proposal does not constitute a definite and unqualified offer to
40 meet the material terms of the Bid invitation; or
 - 41 n. More than one Proposal is submitted for the same project from a Bidder
42 under the same or different names.
- 43
- 44 2. A Proposal may be considered irregular and may be rejected if:
- 45 a. The Proposal does not include a unit price for every Bid item;
 - 46 b. Any of the unit prices are excessively unbalanced (either above or below
47 the amount of a reasonable Bid) to the potential detriment of the
48 Contracting Agency;
 - 49 c. Receipt of Addenda is not acknowledged;

- 1 d. A member of a joint venture or partnership and the joint venture or
2 partnership submit Proposals for the same project (in such an instance,
3 both Bids may be rejected); or
4 e. If Proposal form entries are not made in ink.

5
6 **1-02.14 Disqualification of Bidders**
7 **(May 17, 2018 APWA GSP, Option A)**

8 *Delete this section and replace it with the following:*
9

10 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory
11 bidder responsibility criteria in RCW 39.04.350(1), as amended.

12
13 The Contracting Agency will verify that the Bidder meets the mandatory bidder
14 responsibility criteria in RCW 39.04.350(1). To assess bidder responsibility, the
15 Contracting Agency reserves the right to request documentation as needed from the
16 Bidder and third parties concerning the Bidder's compliance with the mandatory bidder
17 responsibility criteria.

18
19 If the Contracting Agency determines the Bidder does not meet the mandatory bidder
20 responsibility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the
21 Contracting Agency shall notify the Bidder in writing, with the reasons for its
22 determination. If the Bidder disagrees with this determination, it may appeal the
23 determination within two (2) business days of the Contracting Agency's determination by
24 presenting its appeal and any additional information to the Contracting Agency. The
25 Contracting Agency will consider the appeal and any additional information before
26 issuing its final determination. If the final determination affirms that the Bidder is not
27 responsible, the Contracting Agency will not execute a contract with any other Bidder
28 until at least two business days after the Bidder determined to be not responsible has
29 received the Contracting Agency's final determination.

30
31 **1-02.15 Pre Award Information**
32 **(August 14, 2013 APWA GSP)**

33 *Revise this section to read:*
34

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

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

48
49
50 **END OF SECTION**

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

2
3 **1-03.1 Consideration of Bids**
4 **(January 23, 2006 APWA GSP)**

5 *Revise the first paragraph to read:*

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

18
19 **1-03.1(1) Identical Bid Totals**
20 **(January 4, 2016 APWA GSP)**

21 *Revise this section to read:*

22
23 After opening Bids, if two or more lowest responsive Bid totals are exactly equal, then
24 the tie-breaker will be the Bidder with an equal lowest bid that proposed to use the
25 highest percentage of recycled materials in the Project, per the form submitted with the
26 Bid Proposal. If those percentages are also exactly equal, then the tie-breaker will be
27 determined by drawing as follows: Two or more slips of paper will be marked as follows:
28 one marked "Winner" and the other(s) marked "unsuccessful". The slips will be folded to
29 make the marking unseen. The slips will be placed inside a box. One authorized
30 representative of each Bidder shall draw a slip from the box. Bidders shall draw in
31 alphabetic order by the name of the firm as registered with the Washington State
32 Department of Licensing. The slips shall be unfolded and the firm with the slip marked
33 "Winner" will be determined to be the successful Bidder and eligible for Award of the
34 Contract. Only those Bidders who submitted a Bid total that is exactly equal to the lowest
35 responsive Bid, and with a proposed recycled materials percentage that is exactly equal
36 to the highest proposed recycled materials amount, are eligible to draw.

37
38 **1-03.3 Execution of Contract**
39 **(October 1, 2005 APWA GSP)**

40 *Revise this section to read:*

41
42 Copies of the Contract Provisions, including the unsigned Form of Contract, will be
43 available for signature by the successful bidder on the first business day following
44 award. The number of copies to be executed by the Contractor will be determined by the
45 Contracting Agency.

46
47 Within 10 calendar days after the award date, the successful bidder shall return the
48 signed Contracting Agency-prepared contract, an insurance certification as required by
49 Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before
50 execution of the contract by the Contracting Agency, the successful bidder shall provide
51 any pre-award information the Contracting Agency may require under Section 1-02.15.

1 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting
2 Agency nor shall any work begin within the project limits or within Contracting Agency-
3 furnished sites. The Contractor shall bear all risks for any work begun outside such
4 areas and for any materials ordered before the contract is executed by the Contracting
5 Agency.
6

7 If the bidder experiences circumstances beyond their control that prevents return of the
8 contract documents within the calendar days after the award date stated above, the
9 Contracting Agency may grant up to a maximum of 10 additional calendar days for
10 return of the documents, provided the Contracting Agency deems the circumstances
11 warrant it.
12

13 **1-03.4 Contract Bond**
14 **(July 23, 2015 APWA GSP)**

15 *Delete the first paragraph and replace it with the following:*
16

17 The successful bidder shall provide executed payment and performance bond(s) for the
18 full contract amount. The bond may be a combined payment and performance bond; or
19 be separate payment and performance bonds. In the case of separate payment and
20 performance bonds, each shall be for the full contract amount. The bond(s) shall:

- 21 1. Be on Contracting Agency-furnished form(s);
- 22 2. Be signed by an approved surety (or sureties) that:
 - 23 a. Is registered with the Washington State Insurance Commissioner, and
 - 24 b. Appears on the current Authorized Insurance List in the State of Washington
 - 25 published by the Office of the Insurance Commissioner,
- 26 3. Guarantee that the Contractor will perform and comply with all obligations, duties,
27 and conditions under the Contract, including but not limited to the duty and
28 obligation to indemnify, defend, and protect the Contracting Agency against all
29 losses and claims related directly or indirectly from any failure:
 - 30 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
 - 31 subcontractors of the Contractor) to faithfully perform and comply with all
 - 32 contract obligations, conditions, and duties, or
 - 33 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
 - 34 Contractor) to pay all laborers, mechanics, subcontractors, lower tier
 - 35 subcontractors, material person, or any other person who provides supplies
 - 36 or provisions for carrying out the work;
- 37 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on
38 the project under titles 50, 51, and 82 RCW; and
- 39 5. Be accompanied by a power of attorney for the Surety's officer empowered to
40 sign the bond; and
- 41 6. Be signed by an officer of the Contractor empowered to sign official statements
42 (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be
43 signed by the president or vice president, unless accompanied by written proof of
44 the authority of the individual signing the bond(s) to bind the corporation (i.e.,
45 corporate resolution, power of attorney, or a letter to such effect signed by the
46 president or vice president).
47
48
49

END OF SECTION

1 **1-04 SCOPE OF THE WORK**

2
3 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions,**
4 **Specifications, and Addenda**
5 **(March 13, 2012 APWA GSP)**

6 *Revise the second paragraph to read:*

7
8 Any inconsistency in the parts of the contract shall be resolved by following this order of
9 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

- 10 1. Addenda,
11 2. Proposal Form,
12 3. Special Provisions,
13 4. Contract Plans,
14 5. Amendments to the Standard Specifications,
15 6. Standard Specifications,
16 7. Contracting Agency's Standard Plans or Details (if any), and
17 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

18
19
20
21 **END OF SECTION**
22
23

1 **1-05 CONTROL OF WORK**

2
3 **1-05.4 Conformity With and Deviations from Plans and Stakes**

4 *Section 1-05.4 is supplemented with the following:*

5
6 **(August 7, 2017)**

7 **Contractor Surveying - Roadway**

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

10
11 The Contractor shall be responsible for setting, maintaining, and resetting all alignment
12 stakes, slope stakes, and grades necessary for the construction of the roadbed,
13 drainage, surfacing, paving, channelization and pavement marking, illumination and
14 signals, guardrails and barriers, and signing. Except for the survey control data to be
15 furnished by the Contracting Agency, calculations, surveying, and measuring required
16 for setting and maintaining the necessary lines and grades shall be the Contractor's
17 responsibility.

18
19 The Contractor shall inform the Engineer when monuments are discovered that were not
20 identified in the Plans and construction activity may disturb or damage the monuments.
21 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout
22 the length of the project or be replaced at the Contractors expense.

23
24 Detailed survey records shall be maintained, including a description of the work
25 performed on each shift, the methods utilized, and the control points used. The record
26 shall be adequate to allow the survey to be reproduced. A copy of each day's record
27 shall be provided to the Engineer within three working days after the end of the shift.

28
29 The meaning of words and terms used in this provision shall be as listed in "Definitions
30 of Surveying and Associated Terms" current edition, published by the American
31 Congress on Surveying and Mapping and the American Society of Civil Engineers.

32
33 The survey work shall include but not be limited to the following:

- 34
- 35 1. Verify the primary horizontal and vertical control furnished by the Contracting
36 Agency, and expand into secondary control by adding stakes and hubs as well
37 as additional survey control needed for the project. Provide descriptions of
38 secondary control to the Contracting Agency. The description shall include
39 coordinates and elevations of all secondary control points.
40
 - 41 2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on
42 centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and
43 at points on the alignments spaced no further than 50 feet.
44
 - 45 3. Establish clearing limits, placing stakes at all angle points and at intermediate
46 points not more than 50 feet apart. The clearing and grubbing limits shall be 5
47 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise
48 shown in the Plans.
49
 - 50 4. Establish grading limits, placing slope stakes at centerline increments not more
51 than 50 feet apart. Establish offset reference to all slope stakes. If Global
52 Positioning Satellite (GPS) Machine Controls are used to provide grade control,
53 then slope stakes may be omitted at the discretion of the Contractor

5. Establish the horizontal and vertical location of all drainage features, placing offset stakes to all drainage structures and to pipes at a horizontal interval not greater than 25 feet.
6. Establish roadbed and surfacing elevations by placing stakes at the top of subgrade and at the top of each course of surfacing. Subgrade and surfacing stakes shall be set at horizontal intervals not greater than 50 feet in tangent sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-foot intervals in intersection radii with a radius less than 10 feet. Transversely, stakes shall be placed at all locations where the roadway slope changes and at additional points such that the transverse spacing of stakes is not more than 12 feet. If GPS Machine Controls are used to provide grade control, then roadbed and surfacing stakes may be omitted at the discretion of the Contractor.
7. Establish intermediate elevation benchmarks as needed to check work throughout the project.
8. Provide references for paving pins at 25-foot intervals or provide simultaneous surveying to establish location and elevation of paving pins as they are being placed.
9. For all other types of construction included in this provision, (including but not limited to channelization and pavement marking, illumination and signals, guardrails and barriers, and signing) provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.
10. Contractor shall determine if changes are needed to the profiles or roadway sections shown in the Contract Plans in order to achieve proper smoothness and drainage where matching into existing features, such as a smooth transition from new pavement to existing pavement. The Contractor shall submit these changes to the Engineer for review and approval 10 days prior to the beginning of work.

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

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

1 The Contractor shall ensure a surveying accuracy within the following tolerances:

	<u>Vertical</u>	<u>Horizontal</u>
2		
3		
4	Slope stakes	±0.10 feet
5	Subgrade grade stakes set	±0.10 feet
6	0.04 feet below grade	±0.5 feet
7		(parallel to alignment)
8		±0.1 feet
9		(normal to alignment)
10		
11	Stationing on roadway	N/A
12	Alignment on roadway	N/A
13	Surfacing grade stakes	±0.04 feet
14		±0.5 feet
15		(parallel to alignment)
16		±0.1 feet
17		(normal to alignment)
18	Roadway paving pins for	
19	surfacing or paving	±0.01 feet
20		±0.2 feet
21		(parallel to alignment)
22		±0.1 feet
23		(normal to alignment)

24 The Contracting Agency may spot-check the Contractor's surveying. These spot-checks
25 will not change the requirements for normal checking by the Contractor.

26
27 When staking roadway alignment and stationing, the Contractor shall perform
28 independent checks from different secondary control to ensure that the points staked are
29 within the specified survey accuracy tolerances.

30
31 The Contractor shall calculate coordinates for the alignment. The Contracting Agency
32 will verify these coordinates prior to issuing approval to the Contractor for commencing
33 with the work. The Contracting Agency will require up to seven calendar days from the
34 date the data is received.

35
36 Contract work to be performed using contractor-provided stakes shall not begin until the
37 stakes are approved by the Contracting Agency. Such approval shall not relieve the
38 Contractor of responsibility for the accuracy of the stakes.

39
40 Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
41 needed that are not described in the Plans, then those stakes shall be marked, at no
42 additional cost to the Contracting Agency as ordered by the Engineer.

43 **Payment**

44 Payment will be made for the following bid item when included in the proposal:

45 "Roadway Surveying", lump sum.

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

5
6 **(April 4, 2011)**

7 **Licensed Surveyors**

8 The Contractor shall be responsible for reestablishing or locating legal survey markers
9 such as GLO monuments or property corner monuments, conduct boundary surveys to
10 determine Contracting Agency right-of-way locations, and obtain, review and analyze
11 deeds and records as necessary to determine these boundaries. The Contracting
12 Agency will provide "rights of entry" as needed by the Contractor to perform the work.

13
14 The Contractor shall brush out or clear and stake or mark the right-of-way lines as
15 designated by the Engineer.

16
17 The Contractor shall inform the Engineer when monuments are discovered that were not
18 identified in the Plans and construction activity may disturb or damage the monuments.
19 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout
20 the length of the project or be replaced at Contractors expense.

21
22 When required, the Contractor shall prepare and file a Record of Survey map in
23 accordance with RCW 58.09 and provide a recorded copy to the Contracting Agency.
24 The Contracting Agency will provide all existing base maps, existing horizontal and
25 vertical control, and other material available with Washington State Plane Coordinate
26 information to the Contractor. The Contracting Agency will also provide maps, plan
27 sheets, and/or aerial photographs clearly identifying the limits of the areas to be
28 surveyed. The Contractor shall establish Washington State Plane Coordinates on all
29 points required in the Record of Survey and other points designated in the Contract
30 documents.

31
32 Existing right of way documentation, existing base maps, existing horizontal and vertical
33 control descriptions, maps, plan sheets, aerial photographs and all other available
34 material may be viewed by prospective bidders at the office of the Engineer.

35
36 The Contractor shall perform all of the necessary calculations for the contracted survey
37 work and shall provide copies of these calculations to the Contracting Agency. Electronic
38 files of all survey data shall be provided and in a format acceptable to the Contracting
39 Agency.

40
41 All survey work performed by the Contractor shall conform to all applicable sections of
42 the Revised Code of Washington and the Washington Administrative Code.

43
44 The Contractor shall provide all traffic control, signing, and temporary traffic control
45 devices in order to provide a safe work zone.

46
47 **Payment**

48 Payment will be made in accordance with Section 1-09.6 for the following bid item when
49 included in the proposal:

50
51 "Licensed Surveying", Force Account.

1 For the purpose of providing a common proposal for all bidders, the Contracting Agency
2 has entered an amount for the item "Licensed Surveying" in the bid proposal to become
3 a part of the total bid by the Contractor.

4
5 **(April 2, 2018)**

6 **Contractor Surveying – ADA Features**

7 **ADA Feature Staking Requirements**

8 The Contractor shall be responsible for setting, maintaining, and resetting all alignment
9 stakes, and grades necessary for the construction of the ADA features. Calculations,
10 surveying, and measuring required for setting and maintaining the necessary lines and
11 grades shall be the Contractor's responsibility. The Contractor shall build the ADA
12 features within the specifications in the Standard Plans and contract documents.

13
14 **ADA Feature As-Built Measurements**

15 The Contractor shall be responsible for providing electronic As-Built records of all ADA
16 feature improvements completed in the Contract.

17
18 The survey work shall include but not be limited to completing the measurements,
19 recording the required measurements and completing other data fill-ins found on the
20 ADA Measurement Forms, and transmitting the electronic Forms to the Engineer. The
21 ADA Measurement Forms are found at the following website location:

22
23 <http://www.wsdot.wa.gov/Design/ADAGuidance.htm>
24

25 In the instance where an ADA Feature does not meet accessibility requirements, all work
26 to replace non-conforming work and then to measure, record the as-built measurements,
27 and transmit the electronic Forms to the Engineer shall be completed at no additional
28 cost to the Contracting Agency, as ordered by the Engineer.

29
30 **Payment**

31 Payment will be made for the following bid item that is included in the Proposal:

32
33 "ADA Features Surveying", lump sum.

34
35 The unit Contract price per lump sum for "ADA Features Surveying" shall be full pay for
36 all the Work as specified.

37
38 **1-05.4(2) Bridge and Structure Surveys**
39 **(October 1, 2005 APWA GSP)**

40
41 For all structural work such as bridges and retaining walls, the Contractor shall retain as
42 a part of Contractor's organization an experienced team of surveyors.

43
44 The Contractor shall provide all surveys required to complete the structure, except the
45 following primary survey control which will be provided by the Engineer:

- 46 1. Centerline or offsets to centerline of the structure.
 - 47 2. Stations of abutments and pier centerlines.
 - 48 3. A sufficient number of bench marks for levels to enable the Contractor to set
49 grades at reasonably short distances.
 - 50 4. Monuments and control points as shown in the Plans.
- 51

1 The Contractor shall establish all secondary survey controls, both horizontal and vertical,
2 as necessary to assure proper placement of all project elements based on the primary
3 control points provided by the Engineer. Survey work shall be within the following
4 tolerances:

5 Stationing	+.01 foot
6 Alignment	+.01 foot (between successive points)
7 Superstructure Elevations	+.01 foot (from plan elevations)
8 Substructure Elevations	+.05 foot (from plan elevations)

9
10 During the progress of the work, the Contractor shall make available to the Engineer all
11 field books including survey information, footing elevations, cross sections and
12 quantities.

13
14 The Contractor shall be fully responsible for the close coordination of field locations and
15 measurements with appropriate dimensions of structural members being fabricated.

16
17 **1-05.7 Removal of Defective and Unauthorized Work**
18 **(October 1, 2005 APWA GSP)**

19 *Supplement this section with the following:*

20
21 If the Contractor fails to remedy defective or unauthorized work within the time specified
22 in a written notice from the Engineer, or fails to perform any part of the work required by
23 the Contract Documents, the Engineer may correct and remedy such work as may be
24 identified in the written notice, with Contracting Agency forces or by such other means
25 as the Contracting Agency may deem necessary.

26
27 If the Contractor fails to comply with a written order to remedy what the Engineer
28 determines to be an emergency situation, the Engineer may have the defective and
29 unauthorized work corrected immediately, have the rejected work removed and
30 replaced, or have work the Contractor refuses to perform completed by using
31 Contracting Agency or other forces. An emergency situation is any situation when, in the
32 opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause
33 serious risk of loss or damage to the public.

34
35 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
36 remedying defective or unauthorized work, or work the Contractor failed or refused to
37 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
38 monies due, or to become due, the Contractor. Such direct and indirect costs shall
39 include in particular, but without limitation, compensation for additional professional
40 services required, and costs for repair and replacement of work of others destroyed or
41 damaged by correction, removal, or replacement of the Contractor's unauthorized work.

42
43 No adjustment in Contract time or compensation will be allowed because of the delay in
44 the performance of the work attributable to the exercise of the Contracting Agency's
45 rights provided by this Section.

46
47 The rights exercised under the provisions of this section shall not diminish the
48 Contracting Agency's right to pursue any other avenue for additional remedy or
49 damages with respect to the Contractor's failure to perform the work as required.

1 **1-05.11 Final Inspection**

2 *Delete this section and replace it with the following:*

4 **1-05.11 Final Inspections and Operational Testing**
5 **(October 1, 2005 APWA GSP)**

7 **1-05.11(1) Substantial Completion Date**

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

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

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

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

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

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

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

1 The Contractor will not be allowed an extension of Contract time because of a delay in
2 the performance of the work attributable to the exercise of the Engineer's right
3 hereunder.

4
5 Upon correction of all deficiencies, the Engineer will notify the Contractor and the
6 Contracting Agency, in writing, of the date upon which the work was considered
7 physically complete. That date shall constitute the Physical Completion Date of the
8 Contract, but shall not imply acceptance of the work or that all the obligations of the
9 Contractor under the contract have been fulfilled.

10 11 **1-05.11(3) Operational Testing**

12
13 It is the intent of the Contracting Agency to have at the Physical Completion Date a
14 complete and operable system. Therefore when the work involves the installation of
15 machinery or other mechanical equipment; street lighting, electrical distribution or signal
16 systems; irrigation systems; buildings; or other similar work it may be desirable for the
17 Engineer to have the Contractor operate and test the work for a period of time after final
18 inspection but prior to the physical completion date. Whenever items of work are listed in
19 the Contract Provisions for operational testing they shall be fully tested under operating
20 conditions for the time period specified to ensure their acceptability prior to the Physical
21 Completion Date. During and following the test period, the Contractor shall correct any
22 items of workmanship, materials, or equipment which prove faulty, or that are not in first
23 class operating condition. Equipment, electrical controls, meters, or other devices and
24 equipment to be tested during this period shall be tested under the observation of the
25 Engineer, so that the Engineer may determine their suitability for the purpose for which
26 they were installed. The Physical Completion Date cannot be established until testing
27 and corrections have been completed to the satisfaction of the Engineer.

28
29 The costs for power, gas, labor, material, supplies, and everything else needed to
30 successfully complete operational testing, shall be included in the unit Contract prices
31 related to the system being tested, unless specifically set forth otherwise in the proposal.

32
33 Operational and test periods, when required by the Engineer, shall not affect a
34 manufacturer's guaranties or warranties furnished under the terms of the Contract.

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

38 *Delete the sixth and seventh paragraphs of this section.*

39 40 **1-05.15 Method of Serving Notices** 41 **(March 25, 2009 APWA GSP)**

42 *Revise the second paragraph to read:*

43
44 All correspondence from the Contractor shall be directed to the Project Engineer. All
45 correspondence from the Contractor constituting any notification, notice of protest, notice
46 of dispute, or other correspondence constituting notification required to be furnished
47 under the Contract, must be in paper format, hand delivered or sent via mail delivery
48 service to the Project Engineer's office. Electronic copies such as e-mails or
49 electronically delivered copies of correspondence will not constitute such notice and will
50 not comply with the requirements of the Contract.

1 *Add the following new section:*

2
3 **1-05.16 Water and Power**
4 **(October 1, 2005 APWA GSP)**

5
6 The Contractor shall make necessary arrangements, and shall bear the costs for power
7 and water necessary for the performance of the work, unless the Contract includes
8 power and water as a pay item.
9

10 *Add the following new section:*

11
12 **1-05.18 Record Drawings**
13 **(March 8, 2013 APWA GSP)**
14

15 The Contractor shall maintain one set of full size plans for Record Drawings, updated with
16 clear and accurate red-lined field revisions on a daily basis, and within 2 business days
17 after receipt of information that a change in Work has occurred. The Contractor shall not
18 conceal any work until the required information is recorded.
19

20 This Record Drawing set shall be used for this purpose alone, shall be kept separate from
21 other Plan sheets, and shall be clearly marked as Record Drawings. These Record
22 Drawings shall be kept on site at the Contractor's field office, and shall be available for
23 review by the Contracting Agency at all times. The Contractor shall bring the Record
24 Drawings to each progress meeting for review.
25

26 The preparation and upkeep of the Record Drawings is to be the assigned responsibility
27 of a single, experienced, and qualified individual. The quality of the Record Drawings, in
28 terms of accuracy, clarity, and completeness, is to be adequate to allow the Contracting
29 Agency to modify the computer-aided drafting (CAD) Contract Drawings to produce a
30 complete set of Record Drawings for the Contracting Agency without further investigative
31 effort by the Contracting Agency.
32

33 The Record Drawing markups shall document all changes in the Work, both concealed
34 and visible. Items that must be shown on the markups include but are not limited to:
35

- 36 • Actual dimensions, arrangement, and materials used when different than shown in
- 37 the Plans.
- 38 • Changes made by Change Order or Field Order.
- 39 • Changes made by the Contractor.
- 40 • Accurate locations of storm sewer, sanitary sewer, water mains and other water
- 41 appurtenances, structures, conduits, light standards, vaults, width of roadways,
- 42 sidewalks, landscaping areas, building footprints, channelization and pavement
- 43 markings, etc. Include pipe invert elevations, top of castings (manholes, inlets,
- 44 etc.).
45

46 If the Contract calls for the Contracting Agency to do all surveying and staking, the
47 Contracting Agency will provide the elevations at the tolerances the Contracting Agency
48 requires for the Record Drawings.
49

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

	Vertical	Horizontal
As-built sanitary & storm invert and grate elevations	± 0.01 foot	± 0.01 foot
As-built monumentation	±0.001 foot	±0.001 foot
As-built waterlines, inverts, valves, hydrants	± 0.10 foot	± 0.10 foot
As-built ponds/swales/water features	± 0.10 foot	± 0.10 foot
As-built buildings (fin. Floor elev.)	± 0.01 foot	± 0.10 foot
As-built gas lines, power, TV, Tel, Com	± 0.10 foot	± 0.10 foot
As-built signs, signals, etc.	N/A	± 0.10 foot

3

4 Making Entries on the Record Drawings:

5

- 6 • Use erasable colored pencil (not ink) for all markings on the Record Drawings,
7 conforming to the following color code:
- 8 ○ Additions - Red
 - 9 ○ Deletions - Green
 - 10 ○ Comments - Blue
 - 11 ○ Dimensions - Graphite
- 12 • Provide the applicable reference for all entries, such as the change order number,
13 the request for information (RFI) number, or the approved shop drawing number.
- 14 • Date all entries.
- 15 • Clearly identify all items in the entry with notes similar to those in the Contract
16 Drawings (such as pipe symbols, centerline elevations, materials, pipe joint
17 abbreviations, etc.).
- 18

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

24

25 Payment will be made for the following bid item:

26

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

27

28 Payment for this item will be made on a prorated monthly basis for work completed in
29 accordance with this section up to 75% of the lump sum bid. The final 25% of the lump
30 sum item will be paid upon submittal and approval of the completed Record Drawings set
31 prepared in conformance with these Special Provisions.

32

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

35

36

END OF SECTION

1 **1-06 CONTROL OF MATERIAL**

2
3 **1-06.6 Recycled Materials**
4 **(January 4, 2016 APWA GSP)**

5
6 *Delete this section, including its subsections, and replace it with the following:*

7
8 The Contractor shall make their best effort to utilize recycled materials in the
9 construction of the project. Approval of such material use shall be as detailed elsewhere
10 in the Standard Specifications.

11
12 Prior to Physical Completion the Contractor shall report the quantity of recycled
13 materials that were utilized in the construction of the project for each of the items listed
14 in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete
15 aggregate, recycled glass, steel furnace slag and other recycled materials (e.g.
16 utilization of on-site material and aggregates from concrete returned to the supplier).
17 The Contractor's report shall be provided on DOT form 350-075 Recycled Materials
18 Reporting.

19
20 *Section 1-06 is supplemented with the following:*

21
22 **Buy America**
23 **(August 6, 2012)**

24 In accordance with Buy America requirements contained in 23 CFR 635.410, the major
25 quantities of steel and iron construction material that is permanently incorporated into
26 the project shall consist of American-made materials only. Buy America does not apply
27 to temporary steel items, e.g., temporary sheet piling, temporary bridges, steel
28 scaffolding and falsework.

29
30 Minor amounts of foreign steel and iron may be utilized in this project provided the cost
31 of the foreign material used does not exceed one-tenth of one percent of the total
32 contract cost or \$2,500.00, whichever is greater.

33
34 American-made material is defined as material having all manufacturing processes
35 occurring domestically. To further define the coverage, a domestic product is a
36 manufactured steel material that was produced in one of the 50 States, the District of
37 Columbia, Puerto Rico, or in the territories and possessions of the United States.

38
39 If domestically produced steel billets or iron ingots are exported outside of the area of
40 coverage, as defined above, for any manufacturing process then the resulting product
41 does not conform to the Buy America requirements. Additionally, products manufactured
42 domestically from foreign source steel billets or iron ingots do not conform to the Buy
43 America requirements because the initial melting and mixing of alloys to create the
44 material occurred in a foreign country.

45
46 Manufacturing begins with the initial melting and mixing, and continues through the
47 coating stage. Any process which modifies the chemical content, the physical size or
48 shape, or the final finish is considered a manufacturing process. The processes include
49 rolling, extruding, machining, bending, grinding, drilling, welding, and coating. The action
50 of applying a coating to steel or iron is deemed a manufacturing process. Coating
51 includes epoxy coating, galvanizing, aluminizing, painting, and any other coating that

1 protects or enhances the value of steel or iron. Any process from the original reduction
2 from ore to the finished product constitutes a manufacturing process for iron.
3 Due to a nationwide waiver, Buy America does not apply to raw materials (iron ore and
4 alloys), scrap (recycled steel or iron), and pig iron or processed, pelletized, and reduced
5 iron ore.

6 The following are considered to be steel manufacturing processes:

- 7
8 1. Production of steel by any of the following processes:
 - 9
10 a. Open hearth furnace.
 - 11
12 b. Basic oxygen.
 - 13
14 c. Electric furnace.
 - 15
16 d. Direct reduction.
- 17
18 2. Rolling, heat treating, and any other similar processing.
- 19
20 3. Fabrication of the products
 - 21
22 a. Spinning wire into cable or strand.
 - 23
24 b. Corrugating and rolling into culverts.
 - 25
26 c. Shop fabrication.

27
28 A certification of materials origin will be required for any items comprised of, or
29 containing, steel or iron construction materials prior to such items being incorporated into
30 the permanent work. The certification shall be on DOT Form 350-109EF provided by the
31 Engineer, or such other form the Contractor chooses, provided it contains the same
32 information as DOT Form 350-109EF.

33
34
35 **END OF SECTION**
36

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

2
3 **1-07.1 Laws to be Observed**
4 **(October 1, 2005 APWA GSP)**

5 *Supplement this section with the following:*

6
7 In cases of conflict between different safety regulations, the more stringent regulation
8 shall apply.

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

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

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

31
32 **(May 13, 2020)**

33 In response to COVID-19, the Contractor shall prepare a project specific COVID-19
34 health and safety plan (CHSP) in conformance with Section 1-07.4(2) as supplemented
35 in these specifications, COVID-19 Health and Safety Plan (CHSP).

36
37 **1-07.2 State Taxes**

38 *Delete this section, including its sub-sections, in its entirety and replace it with the*
39 *following:*

40
41 **1-07.2 State Tax**
42 **(June 27, 2011 APWA GSP)**

43
44 The Washington State Department of Revenue has issued special rules on the State
45 sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The
46 Contractor should contact the Washington State Department of Revenue for answers to
47 questions in this area. The Contracting Agency will not adjust its payment if the
48 Contractor bases a bid on a misunderstood tax liability.

1 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other
2 contract amounts. In some cases, however, state retail sales tax will not be included.
3 Section 1-07.2(2) describes this exception.
4

5 The Contracting Agency will pay the retained percentage (or release the Contract Bond
6 if a FHWA-funded Project) only if the Contractor has obtained from the Washington
7 State Department of Revenue a certificate showing that all contract-related taxes have
8 been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to
9 the Contractor any amount the Contractor may owe the Washington State Department of
10 Revenue, whether the amount owed relates to this contract or not. Any amount so
11 deducted will be paid into the proper State fund.
12

13 **1-07.2(1) State Sales Tax — Rule 171**

14

15 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets,
16 roads, etc., which are owned by a municipal corporation, or political subdivision of the
17 state, or by the United States, and which are used primarily for foot or vehicular traffic.
18 This includes storm or combined sewer systems within and included as a part of the
19 street or road drainage system and power lines when such are part of the roadway
20 lighting system. For work performed in such cases, the Contractor shall include
21 Washington State Retail Sales Taxes in the various unit bid item prices, or other contract
22 amounts, including those that the Contractor pays on the purchase of the materials,
23 equipment, or supplies used or consumed in doing the work.
24

25 **1-07.2(2) State Sales Tax — Rule 170**

26

27 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
28 existing buildings, or other structures, upon real property. This includes, but is not
29 limited to, the construction of streets, roads, highways, etc., owned by the state of
30 Washington; water mains and their appurtenances; sanitary sewers and sewage
31 disposal systems unless such sewers and disposal systems are within, and a part of, a
32 street or road drainage system; telephone, telegraph, electrical power distribution lines,
33 or other conduits or lines in or above streets or roads, unless such power lines become a
34 part of a street or road lighting system; and installing or attaching of any article of
35 tangible personal property in or to real property, whether or not such personal property
36 becomes a part of the realty by virtue of installation.
37

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

44 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor
45 or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or
46 consumable supplies not integrated into the project. Such sales taxes shall be included
47 in the unit bid item prices or in any other contract amount.
48

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

2
3 The Contractor shall not collect retail sales tax from the Contracting Agency on any
4 contract wholly for professional or other services (as defined in Washington State
5 Department of Revenue Rules 138 and 244).
6

7 **1-07.4 Sanitation**

8
9 **1-07.4(2) Health Hazards**

10 *Section 1-07.4(2) is supplemented with the following:*

11
12 **(May 13, 2020)**

13 **COVID-19 Health and Safety Plan (CHSP)**

14
15 The Contractor shall prepare a project specific COVID-19 health and safety plan
16 (CHSP). The CHSP shall be prepared and submitted as a Type 2 Working Drawing prior
17 to beginning physical Work. The CHSP shall be based on the most current State and
18 Federal requirements. If the State or Federal requirements are revised, the CHSP shall
19 be updated as necessary to conform to the current requirements.
20

21 The Contractor shall update and resubmit the CHSP as the work progresses and new
22 activities appear on the look ahead schedule required under Section 1-08.3(2)D. If the
23 conditions change on the project, or a particular activity, the Contractor shall update and
24 resubmit the CHSP. Work on any activity shall cease if conditions prevent full
25 compliance with the CHSP.
26

27 The CHSP shall address the health and safety of all people associated with the project
28 including State workers in the field, Contractor personnel, consultants, project staff,
29 subcontractors, suppliers and anyone on the project site, staging areas, or yards.
30

31 **COVID-19 Health and Safety Plan (CHSP) Inspection**

32 The Contractor shall grant full and unrestricted access to the Engineer for CHSP
33 Inspections. The Engineer (or designee) will conduct periodic compliance inspections on
34 the project site, staging areas, or yards to verify that any ongoing work activity is
35 following the CHSP plan. If the Engineer becomes aware of a noncompliance incident
36 either through a site inspection or other means, the Contractor will be notified
37 immediately (within 1 hour). The Contractor shall immediately remedy the
38 noncompliance incident or suspend all or part of the associated work activity. The
39 Contractor shall satisfy the Engineer that the noncompliance incident has been corrected
40 before the suspension will end.
41

42 **1-07.9 Wages**

43
44 **1-07.9(1) General**

45 *Section 1-07.9(1) is supplemented with the following:*

46
47 **(January 6, 2020)**

48 The Federal wage rates incorporated in this contract have been established by the
49 Secretary of Labor under United States Department of Labor General Decision No.
50 WA20200001.
51

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

(April 2, 2007)

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 Project 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.

1-07.9(5) Required Documents

(January 3, 2020 APWA GSP)

Delete this section and replace it with the following:

General

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

1 **Intents and Affidavits**

2 On forms provided by the Industrial Statistician of State L&I, the Contractor shall
3 submit to the Engineer the following for themselves and for each firm covered under
4 RCW 39.12 that will or has provided Work and materials for the Contract:

- 5
- 6 1. The approved "Statement of Intent to Pay Prevailing
7 Wages" State L&I's form number F700-029-000. The
8 Contracting Agency will make no payment under this
9 Contract until this statement has been approved by State
10 L&I and reviewed by the Engineer.
- 11
- 12 2. The approved "Affidavit of Prevailing Wages Paid", State
13 L&I's form number F700-007-000. The Contracting Agency
14 will not grant Completion until all approved Affidavit of
15 Wages paid for the Contractor and all Subcontractors have
16 been received by the Engineer. The Contracting Agency
17 will not release to the Contractor any funds retained under
18 RCW 60.28.011 until "Affidavit of Prevailing Wages Paid"
19 forms have been approved by State L&I and all of the
20 approved forms have been submitted to the Engineer for
21 every firm that worked on the Contract.
- 22

23 The Contractor is responsible for requesting these forms from State L&I and for
24 paying any fees required by State L&I.

25

26 **Certified Payrolls**

27 Certified payrolls are required to be submitted by the Contractor for themselves, all
28 Subcontractors and all lower tier subcontractors. The payrolls shall be submitted
29 weekly on all Federal-aid projects and no less than monthly on State funded projects.

30

31 **Penalties for Noncompliance**

32 The Contractor is advised, if these payrolls are not supplied within the prescribed
33 deadlines, any or all payments may be withheld until compliance is achieved. In
34 addition, failure to provide these payrolls may result in other sanctions as provided
35 by State laws (RCW 39.12.050) and/or Federal regulations (29 CFR 5.12).

36

37 **1-07.11 Requirements for Nondiscrimination (Option B)**

38 *Supplement this section with the following:*

39

40 (September 3, 2019)

41 Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive
42 Order 11246)

43

- 44 1. The Contractor's attention is called to the Equal Opportunity Clause and the Standard
45 Federal Equal Employment Opportunity Construction Contract Specifications set forth
46 herein.
- 47

2. The goals and timetables for minority and female participation set by the Office of Federal Contract Compliance Programs, expressed in percentage terms for the Contractor's aggregate work force in each construction craft and in each trade on all construction work in the covered area, are as follows:

Women - Statewide

<u>Timetable</u>	<u>Goal</u>
Until further notice	6.9%
<u>Minorities - by Standard Metropolitan Statistical Area (SMSA)</u>	
Spokane, WA:	
SMSA Counties:	
Spokane, WA	2.8
WA Spokane.	
Non-SMSA Counties	
WA Adams; WA Asotin; WA Columbia; WA Ferry; WA Garfield; WA Lincoln, WA Pend Oreille; WA Stevens; WA Whitman.	3.0
Richland, WA	
SMSA Counties:	
Richland Kennewick, WA	5.4
WA Benton; WA Franklin.	
Non-SMSA Counties	
WA Walla Walla.	3.6
Yakima, WA:	
SMSA Counties:	
Yakima, WA	9.7
WA Yakima.	
Non-SMSA Counties	
WA Chelan; WA Douglas; WA Grant; WA Kittitas; WA Okanogan.	7.2
Seattle, WA:	
SMSA Counties:	
Seattle Everett, WA	7.2
WA King; WA Snohomish.	
Tacoma, WA	6.2
WA Pierce.	
Non-SMSA Counties	
WA Clallam; WA Grays Harbor; WA Island; WA Jefferson; WA Kitsap; WA Lewis; WA Mason; WA Pacific; WA San Juan; WA Skagit; WA Thurston; WA Whatcom.	6.1
Portland, OR:	
SMSA Counties:	
Portland, OR-WA	4.5
WA Clark.	
Non-SMSA Counties	
WA Cowlitz; WA Klickitat; WA Skamania; WA Wahkiakum.	3.8

1 These goals are applicable to each nonexempt Contractor's total on-site construction
2 workforce, regardless of whether or not part of that workforce is performing work on a
3 Federal, or federally assisted project, contract, or subcontract until further notice.
4 Compliance with these goals and time tables is enforced by the Office of Federal
5 Contract compliance Programs.
6

7 The Contractor's compliance with the Executive Order and the regulations in 41
8 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause,
9 specific affirmative action obligations required by the specifications set forth in 41 CFR
10 60-4.3(a), and its efforts to meet the goals. The hours of minority and female
11 employment and training must be substantially uniform throughout the length of the
12 contract, in each construction craft and in each trade, and the Contractor shall make a
13 good faith effort to employ minorities and women evenly on each of its projects. The
14 transfer of minority or female employees or trainees from Contractor to Contractor or
15 from project to project for the sole purpose of meeting the Contractor's goal shall be a
16 violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4.
17 Compliance with the goals will be measured against the total work hours performed.
18

19 3. The Contractor shall provide written notification to the Office of Federal Contract
20 Compliance Programs (OFCCP) within 10 working days of award of any construction
21 subcontract in excess of \$10,000 or more that are Federally funded, at any tier for
22 construction work under the contract resulting from this solicitation. The notification shall
23 list the name, address and telephone number of the Subcontractor; employer
24 identification number of the Subcontractor; estimated dollar amount of the subcontract;
25 estimated starting and completion dates of the subcontract; and the geographical area in
26 which the contract is to be performed. The notification shall be sent to:
27

28 U.S. Department of Labor
29 Office of Federal Contract Compliance Programs Pacific Region
30 Attn: Regional Director
31 San Francisco Federal Building
32 90 – 7th Street, Suite 18-300
33 San Francisco, CA 94103
34 (415) 625-7800 Phone
35 (415) 625-7799 Fax
36

37 4. As used in this Notice, and in the contract resulting from this solicitation, the
38 Covered Area is as designated herein.
39

40 **Standard Federal Equal Employment Opportunity Construction Contract**
41 **Specifications (Executive Order 11246)**
42

43 1. As used in these specifications:
44

45 a. Covered Area means the geographical area described in the solicitation from which
46 this contract resulted;
47

48 b. Director means Director, Office of Federal Contract Compliance Programs, United
49 States Department of Labor, or any person to whom the Director delegates authority;
50

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

1 d. Minority includes:
2

3 (1) Black, a person having origins in any of the Black Racial Groups of Africa.
4

5 (2) Hispanic, a fluent Spanish speaking, Spanish surnamed person of Mexican, Puerto
6 Rican, Cuban, Central American, South American, or other Spanish origin.
7

8 (3) Asian or Pacific Islander, a person having origins in any of the original peoples of the
9 Pacific rim or the Pacific Islands, the Hawaiian Islands and Samoa.
10

11 (4) American Indian or Alaskan Native, a person having origins in any of the original
12 peoples of North America, and who maintain cultural identification through tribal
13 affiliation or community recognition.
14

15 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of
16 the work involving any construction trade, it shall physically include in each subcontract
17 in excess of \$10,000 the provisions of these specifications and the Notice which
18 contains the applicable goals for minority and female participation and which is set forth
19 in the solicitations from which this contract resulted.
20

21 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan
22 approved by the U.S. Department of Labor in the covered area either individually or
23 through an association, its affirmative action obligations on all work in the Plan area
24 (including goals and timetables) shall be in accordance with that Plan for those trades
25 which have unions participating in the Plan. Contractors must be able to demonstrate
26 their participation in and compliance with the provisions of any such Hometown Plan.
27 Each Contractor or Subcontractor participating in an approved Plan is individually
28 required to comply with its obligations under the EEO clause, and to make a good faith
29 effort to achieve each goal under the Plan in each trade in which it has employees. The
30 overall good faith performance by other Contractors or Subcontractors toward a goal in
31 an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to
32 take good faith effort to achieve the Plan goals and timetables.
33

34 4. The Contractor shall implement the specific affirmative action standards provided in
35 paragraphs 7a through 7p of this Special Provision. The goals set forth in the solicitation
36 from which this contract resulted are expressed as percentages of the total hours of
37 employment and training of minority and female utilization the Contractor should
38 reasonably be able to achieve in each construction trade in which it has employees in
39 the covered area. Covered construction contractors performing construction work in
40 geographical areas where they do not have a Federal or federally assisted construction
41 contract shall apply the minority and female goals established for the geographical area
42 where the work is being performed. The Contractor is expected to make substantially
43 uniform progress in meeting its goals in each craft during the period specified.
44

45 5. Neither the provisions of any collective bargaining agreement, nor the failure by a
46 union with whom the Contractor has a collective bargaining agreement, to refer either
47 minorities or women shall excuse the Contractor's obligations under these specifications,
48 Executive Order 11246, or the regulations promulgated pursuant thereto.
49

50 6. In order for the nonworking training hours of apprentices and trainees to be counted in
51 meeting the goals, such apprentices and trainees must be employed by the Contractor
52 during the training period, and the Contractor must have made a commitment to employ

1 the apprentices and trainees at the completion of their training, subject to the availability
2 of employment opportunities. Trainees must be trained pursuant to training programs
3 approved by the U.S. Department of Labor.
4

5 7. The Contractor shall take specific affirmative actions to ensure equal employment
6 opportunity. The evaluation of the Contractor's compliance with these specifications shall
7 be based upon its effort to achieve maximum results from its action. The Contractor shall
8 document these efforts fully, and shall implement affirmative action steps at least as
9 extensive as the following:
10

11 a. Ensure and maintain a working environment free of harassment, intimidation, and
12 coercion at all sites, and in all facilities at which the Contractor's employees are assigned
13 to work. The Contractor, where possible, will assign two or more women to each
14 construction project. The Contractor shall specifically ensure that all foremen,
15 superintendents, and other on-site supervisory personnel are aware of and carry out the
16 Contractor's obligation to maintain such a working environment, with specific attention to
17 minority or female individuals working at such sites or in such facilities.
18

19 b. Establish and maintain a current list of minority and female recruitment sources,
20 provide written notification to minority and female recruitment sources and to community
21 organizations when the Contractor or its unions have employment opportunities
22 available, and maintain a record of the organizations' responses.
23

24 c. Maintain a current file of the names, addresses and telephone numbers of each
25 minority and female off-the-street applicant and minority or female referral from a union,
26 a recruitment source or community organization and of what action was taken with
27 respect to each such individual. If such individual was sent to the union hiring hall for
28 referral and was not referred back to the Contractor by the union or, if referred, not
29 employed by the Contractor, this shall be documented in the file with the reason therefor,
30 along with whatever additional actions the Contractor may have taken.
31

32 d. Provide immediate written notification to the Director when the union or unions with
33 which the Contractor has a collective bargaining agreement has not referred to the
34 Contractor a minority person or woman sent by the Contractor, or when the Contractor
35 has other information that the union referral process has impeded the Contractor's
36 efforts to meet its obligations.
37

38 e. Develop on-the-job training opportunity and/or participate in training programs for the
39 area which expressly include minorities and women, including upgrading programs and
40 apprenticeship and trainee programs relevant to the Contractor's employment needs,
41 especially those programs funded or approved by the U.S. Department of Labor. The
42 Contractor shall provide notice of these programs to the sources compiled under 7b
43 above.
44

45 f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions
46 and training programs and requesting their cooperation in assisting the Contractor in
47 meeting its EEO obligations; by including it in any policy manual and collective
48 bargaining agreement; by publicizing it in the company newspaper, annual report, etc.;
49 by specific review of the policy with all management personnel and with all minority and
50 female employees at least once a year; and by posting the company EEO policy on
51 bulletin boards accessible to all employees at each location where construction work is
52 performed.

1 g. Review, at least annually, the company's EEO policy and affirmative action obligations
2 under these specifications with all employees having any responsibility for hiring,
3 assignment, layoff, termination or other employment decisions including specific review
4 of these items with on-site supervisory personnel such as Superintendents, General
5 Foremen, etc., prior to the initiation of construction work at any job site. A written record
6 shall be made and maintained identifying the time and place of these meetings, persons
7 attending, subject matter discussed, and disposition of the subject matter.

8
9 h. Disseminate the Contractor's EEO policy externally by including it in any advertising in
10 the news media, specifically including minority and female news media, and providing
11 written notification to and discussing the Contractor's EEO policy with other Contractors
12 and Subcontractors with whom the Contractor does or anticipates doing business.

13
14 i. Direct its recruitment efforts, both oral and written to minority, female and community
15 organizations, to schools with minority and female students and to minority and female
16 recruitment and training organizations serving the Contractor's recruitment area and
17 employment needs. Not later than one month prior to the date for the acceptance of
18 applications for apprenticeship or other training by any recruitment source, the
19 Contractor shall send written notification to organizations such as the above, describing
20 the openings, screening procedures, and tests to be used in the selection process.

21
22 j. Encourage present minority and female employees to recruit other minority persons
23 and women and where reasonable, provide after school, summer and vacation
24 employment to minority and female youth both on the site and in other areas of a
25 Contractor's work force.

26
27 k. Validate all tests and other selection requirements where there is an obligation to do
28 so under 41 CFR Part 60-3.

29
30 l. Conduct, at least annually, an inventory and evaluation of all minority and female
31 personnel for promotional opportunities and encourage these employees to seek or to
32 prepare for, through appropriate training, etc., such opportunities.

33
34 m. Ensure that seniority practices, job classifications, work assignments and other
35 personnel practices, do not have a discriminatory effect by continually monitoring all
36 personnel and employment related activities to ensure that the EEO policy and the
37 Contractor's obligations under these specifications are being carried out.

38
39 n. Ensure that all facilities and company activities are non-segregated except that
40 separate or single-user toilet and necessary changing facilities shall be provided to
41 assure privacy between the sexes.

42
43 o. Document and maintain a record of all solicitations of offers for subcontracts from
44 minority and female construction contractors and suppliers, including circulation of
45 solicitations to minority and female contractor associations and other business
46 associations.

47
48 p. Conduct a review, at least annually, of all supervisors' adherence to and performance
49 under the Contractor's EEO policies and affirmative action obligations.

1 8. Contractors are encouraged to participate in voluntary associations which assist in
2 fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of
3 a contractor association, joint contractor-union, contractor-community, or other similar
4 group of which the Contractor is a member and participant, may be asserted as fulfilling
5 any one or more of the obligations under 7a through 7p of this Special Provision
6 provided that the Contractor actively participates in the group, makes every effort to
7 assure that the group has a positive impact on the employment of minorities and women
8 in the industry, ensure that the concrete benefits of the program are reflected in the
9 Contractor's minority and female work-force participation, makes a good faith effort to
10 meet its individual goals and timetables, and can provide access to documentation which
11 demonstrate the effectiveness of actions taken on behalf of the Contractor. The
12 obligation to comply, however, is the Contractor's and failure of such a group to fulfill an
13 obligation shall not be a defense for the Contractor's noncompliance.
14

15 9. A single goal for minorities and a separate single goal for women have been
16 established. The Contractor, however, is required to provide equal employment
17 opportunity and to take affirmative action for all minority groups, both male and female,
18 and all women, both minority and non-minority. Consequently, the Contractor may be in
19 violation of the Executive Order if a particular group is employed in substantially
20 disparate manner (for example, even though the Contractor has achieved its goals for
21 women generally, the Contractor may be in violation of the Executive Order if a specific
22 minority group of women is underutilized).
23

24 10. The Contractor shall not use the goals and timetables or affirmative action standards
25 to discriminate against any person because of race, color, religion, sex, or national
26 origin.
27

28 11. The Contractor shall not enter into any subcontract with any person or firm debarred
29 from Government contracts pursuant to Executive Order 11246.
30

31 12. The Contractor shall carry out such sanctions and penalties for violation of these
32 specifications and of the Equal Opportunity Clause, including suspensions, terminations
33 and cancellations of existing subcontracts as may be imposed or ordered pursuant to
34 Executive Order 11246, as amended, and its implementing regulations by the Office of
35 Federal Contract Compliance Programs. Any Contractor who fails to carry out such
36 sanctions and penalties shall be in violation of these specifications and Executive Order
37 11246, as amended.
38

39 13. The Contractor, in fulfilling its obligations under these specifications, shall implement
40 specific affirmative action steps, at least as extensive as those standards prescribed in
41 paragraph 7 of this Special Provision, so as to achieve maximum results from its efforts
42 to ensure equal employment opportunity. If the Contractor fails to comply with the
43 requirements of the Executive Order, the implementing regulations, or these
44 specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
45

46 14. The Contractor shall designate a responsible official to monitor all employment
47 related activity to ensure that the company EEO policy is being carried out, to submit
48 reports relating to the provisions hereof as may be required by the government and to
49 keep records. Records shall at least include, for each employee, their name, address,
50 telephone numbers, construction trade, union affiliation if any, employee identification
51 number when assigned, social security number, race, sex, status (e.g., mechanic,
52 apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per

1 week in the indicated trade, rate of pay, and locations at which the work was performed.
2 Records shall be maintained in an easily understandable and retrievable form; however,
3 to the degree that existing records satisfy this requirement, the Contractors will not be
4 required to maintain separate records.
5

6 15. Nothing herein provided shall be construed as a limitation upon the application of
7 other laws which establish different standards of compliance or upon the application of
8 requirements for the hiring of local or other area residents (e.g., those under the Public
9 Works Employment Act of 1977 and the Community Development Block Grant
10 Program).
11

12 16. Additional assistance for Federal Construction Contractors on contracts administered
13 by Washington State Department of Transportation or by Local Agencies may be found
14 at:
15

16 Washington State Dept. of Transportation
17 Office of Equal Opportunity
18 PO Box 47314
19 310 Maple Park Ave. SE
20 Olympia WA
21 98504-7314
22 Ph: 360-705-7090
23 Fax: 360-705-6801
24 <http://www.wsdot.wa.gov/equalopportunity/default.htm>
25

26 **1-07.11 Requirements for Nondiscrimination** 27 **(December 19, 2019 APWA GSP, Option B)** 28

29 *Supplement this section with the following:*
30

31 ***Disadvantaged Business Enterprise Participation***

32 The Disadvantaged Business Enterprise (DBE) requirements of 49 CFR Part 26 and
33 USDOT's official interpretations (i.e., Questions & Answers) apply to this Contract.
34 Demonstrating compliance with these Specifications is a Condition of Award (COA)
35 of this Contract. Failure to comply with the requirements of this Specification may
36 result in your Bid being found to be nonresponsive resulting in rejection or other
37 sanctions as provided by Contract.
38

39 **DBE Abbreviations and Definitions**

40 **Broker** – A business firm that provides a bona fide service, such as
41 professional, technical, consultant or managerial services and assistance
42 in the procurement of essential personnel, facilities, equipment, materials,
43 or supplies required for the performance of the Contract; or,
44 persons/companies who arrange or expedite transactions.
45

46 **Certified Business Description** – Specific descriptions of work the DBE
47 is certified to perform, as identified in the Certified Firm Directory, under
48 the Vendor Information page.
49

50 **Certified Firm Directory** – A database of all Minority, Women, and
51 Disadvantaged Business Enterprises, including those identified as a

UDBE, currently certified by Washington State. The on-line Directory is available to Bidders for their use in identifying and soliciting interest from DBE firms. The database is located under the Firm Certification section of the Diversity Management and Compliance System web page at: <https://omwbe.diversitycompliance.com>.

Commercially Useful Function (CUF) – 49 CFR 26.55(c)(1) defines commercially useful function as: *“A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, you must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors.”*

Disadvantaged Business Enterprise (DBE) – A business firm certified by the Washington State Office of Minority and Women’s Business Enterprises, as meeting the criteria outlined in 49 CFR 26 regarding DBE certification. A Underutilized Disadvantaged Business Enterprise (UDBE) firm is a subset of DBE.

Force Account Work – Work measured and paid in accordance with Section 1-09.6.

Good Faith Efforts – Efforts to achieve the UDBE COA Goal or other requirements of this part which, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement.

Manufacturer (DBE) – A DBE firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract. A DBE Manufacturer shall produce finished goods or products from raw or unfinished material or purchase and substantially alters goods and materials to make them suitable for construction use before reselling them.

Reasonable Fee (DBE) – For purposes of Brokers or service providers a reasonable fee shall not exceed 5% of the total cost of the goods or services brokered.

Regular Dealer (DBE) – A DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a Contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a Regular Dealer, the DBE firm must be an established regular business that engages in as its principal business and in its own name the purchase and

1 sale of the products in question. A Regular Dealer in such items as steel,
2 cement, gravel, stone, and petroleum products need not own, operate or
3 maintain a place of business if it both owns and operates distribution
4 equipment for the products. Any supplementing of regular dealers' own
5 distribution equipment shall be by long-term formal lease agreements and
6 not on an ad-hoc basis. Brokers, packagers, manufacturers'
7 representatives, or other persons who arrange or expedite transactions
8 shall not be regarded as Regular Dealers within the meaning of this
9 definition.

10
11 **Underutilized Disadvantaged Business Enterprise (UDBE)** – A DBE
12 Firm that is underutilized based on WSDOT's Disparity Study.

13
14 **UDBE Commitment** – The dollar amount the Bidder indicates they will be
15 subcontracting to be applied towards the UDBE Condition of Award Goal
16 as shown on the UDBE Utilization Certification Form for each UDBE
17 Subcontractor. This UDBE Commitment amount will be incorporated into
18 the Contract and shall be considered a Contract requirement. Any changes
19 to the UDBE Commitment require the Engineer's approval.

20
21 **UDBE Condition of Award (COA) Goal** – An assigned numerical amount
22 specified as a percentage of the Contract. Initially, this is the minimum
23 amount that the Bidder must commit to by submission of the Utilization
24 Certification Form and/or by Good Faith Effort (GFE).

25
26 **UDBE COA Goal**

27 The Contracting Agency has established a **UDBE COA Goal for this Contract**
28 **in the amount of: 6%**

29
30 **Crediting DBE Participation**

31 Subcontractors proposed as COA must be certified prior to the due date for
32 bids on the Contract. All non-COA DBE Subcontractors shall be certified
33 before the subcontract on which they are participating is executed.

34
35 DBE participation is only credited upon payment to the DBE.

36
37 The following are some definitions of what may be counted as DBE
38 participation.

39
40 **DBE Prime Contractor**

41 Only take credit for that portion of the total dollar value of the Contract
42 equal to the distinct, clearly defined portion of the Work that the DBE Prime
43 Contractor performs with its own forces and is certified to perform.

44
45 **DBE Subcontractor**

46 Only take credit for that portion of the total dollar value of the subcontract
47 that is equal to the distinct, clearly defined portion of the Work that the
48 DBE performs with its own forces and is certified to perform. The value of
49 work performed by the DBE includes the cost of supplies and materials
50 purchased by the DBE and equipment leased by the DBE, for its work on
51 the contract. Supplies, materials or equipment obtained by a DBE that are

not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

When the subcontractor is part of a UDBE Commitment, the following apply:

1. If a UDBE subcontracts a portion of the Work of its contract to another firm, the value of the subcontracted Work may be counted toward the UDBE COA Goal only if the Lower-Tier Subcontractor is also a UDBE.
2. Work subcontracted to a Lower-Tier Subcontractor that is a DBE, but not a UDBE, may be counted as DBE participation but not counted toward the UDBE COA Goal.
3. Work subcontracted to a non-DBE does not count towards the UDBE COA Goal nor DBE participation.

DBE Subcontract and Lower Tier Subcontract Documents

There must be a subcontract agreement that complies with 49 CFR Part 26 and fully describes the distinct elements of Work committed to be performed by the DBE.

DBE Service Provider

The value of fees or commissions charged by a DBE firm behaving in a manner of a Broker, or another service provider for providing a bona fide service, such as professional, technical, consultant, managerial services, or for providing bonds or insurance specifically required for the performance of the contract will only be credited as DBE participation, if the fee/commission is determined by the Contracting Agency to be reasonable and the firm has performed a CUF.

Force Account Work

When the Bidder elects to utilize force account Work to meet the UDBE COA Goal, as demonstrated by listing this force account Work on the UDBE Utilization Certification Form, for the purposes of meeting UDBE COA Goal, only 50% of the Proposal amount shall be credited toward the Bidder's Commitment to meet the UDBE COA Goal.

One hundred percent of the actual amounts paid to the DBE for the force account Work shall be credited towards UDBE COA Goal or DBE participation.

Temporary Traffic Control

If the DBE firm is being utilized in the capacity of only "Flagging", the DBE firm must provide a Traffic Control Supervisor (TCS) and flagger, which are under the direct control of the DBE. The DBE firm shall also provide all flagging equipment (e.g. paddles, hard hats, and vests).

If the DBE firm is being utilized in the capacity of "Traffic Control Services", the DBE firm must provide a TCS, flaggers, and traffic control items (e.g., cones, barrels, signs, etc.) and be in total control of all items in implementing the traffic control for the project.

Trucking

DBE trucking firm participation may only be credited as DBE participation for the value of the hauling services, not for the materials being hauled unless the trucking firm is also certified as a supplier of those materials. In situations where the DBE's work is priced per ton, the value of the hauling service must be calculated separately from the value of the materials in order to determine DBE credit for hauling

The DBE trucking firm must own and operate at least one licensed, insured and operational truck on the contract. The truck must be of the type that is necessary to perform the hauling duties required under the contract. The DBE receives credit for the value of the transportation services it provides on the Contract using trucks it owns or leases, licenses, insures, and operates with drivers it employs.

The DBE may lease additional trucks from another DBE firm. The DBE who leases additional trucks from another DBE firm receives credit for the value of the transportation services the lessee DBE provides on the Contract.

The trucking Work subcontracted to any non-DBE trucking firm will not receive credit for Work done on the project.

The DBE may lease trucks from a truck leasing company (recognized truck rental center), but can only receive credit towards DBE participation if the DBE uses its own employees as drivers.

DBE Manufacturer and DBE Regular Dealer

One hundred percent (100%) of the cost of the manufactured product obtained from a DBE manufacturer can count as DBE participation. If the DBE manufacturer is a UDBE, participation may count towards the UDBE COA Goal.

Sixty percent (60%) of the cost of materials or supplies purchased from a DBE Regular Dealer may be credited as DBE Participation. If the role of the DBE Regular Dealer is determined to be that of a Broker, then DBE credit shall be limited to the fee or commission it receives for its services. Regular Dealer status and the amount of credit is determined on a Contract-by-Contract basis. If the DBE regular dealer is a UDBE, participation may count towards the UDBE COA Goal.

DBE firms proposed to be used as a Regular Dealer must be approved before being listed as a COA/used on a project. The WSDOT Approved Regular Dealer list published on WSDOT's Office of Equal Opportunity (OEO) web site must include the specific project for which approval is being requested. For purposes of the UDBE COA Goal participation, the Regular Dealer must submit the Regular Dealer Status Request form a minimum of five calendar days prior to bid opening.

Purchase of materials or supplies from a DBE which is neither a manufacturer nor a regular dealer, (i.e. Broker) only the fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can count as DBE participation provided the fees are not excessive as compared with fees customarily allowed for similar services. Documentation will be required to support the fee/commission charged by the DBE. The cost of the materials and supplies themselves cannot be counted toward as DBE participation.

Note: Requests to be listed as a Regular Dealer will only be processed if the requesting firm is a material supplier certified by the Office of Minority and Women's Business Enterprises in a NAICS code that falls within the 42XXXX NAICS Wholesale code section.

Underutilized Disadvantaged Business Enterprise Utilization

The requirements of this section apply to projects with a UDBE COA Goal. To be eligible for award of the Contract, the Bidder shall properly complete and submit an Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification with the Bidder's sealed Bid Proposal, as specified in Section 1-02.9 Delivery of Proposal. The Bidder's UDBE Utilization Certification must clearly demonstrate how the Bidder intends to meet the UDBE COA Goal. A UDBE Utilization Certification (WSDOT Form 272-056U) is included in the Proposal package for this purpose as well as instructions on how to properly fill out the form.

The Bidder is advised that the items listed below when listed in the Utilization Certification must have their amounts reduced to the percentages shown and those reduced amounts will be the amount applied towards meeting the UDBE COA Goal.

- Force account at 50%
- Regular dealer at 60%

In the event of arithmetic errors in completing the UDBE Utilization Certification, the amount listed to be applied towards the UDBE COA Goal for each UDBE shall govern and the UDBE total amount shall be adjusted accordingly.

Note: The Contracting Agency shall consider as non-responsive and shall reject any Bid Proposal submitted that does not contain a UDBE Utilization Certification Form that accurately demonstrates how the Bidder intends to meet the UDBE COA Goal.

1 **Underutilized Disadvantaged Business Enterprise Written Confirmation**
2 **Document(s)**

3 The requirements of this section apply to projects with a UDBE COA Goal. The
4 Bidder shall submit an Underutilized Disadvantaged Business Enterprise
5 (UDBE) Written Confirmation Document (completed and signed by the UDBE)
6 for each UDBE firm listed in the Bidder's completed UDBE Utilization
7 Certification submitted with the Bid. Failure to do so will result in the associated
8 participation being disallowed, which may cause the Bid to be determined to be
9 nonresponsive resulting in Bid rejection.

10
11 The Confirmation Documents provide confirmation from the UDBEs that they
12 are participating in the Contract as provided in the Bidder's Commitment. The
13 Confirmation Documents must be consistent with the Utilization Certification.

14
15 A UDBE Written Confirmation Document (WSDOT Form 422-031U) is included
16 in the Proposal package for this purpose.

17
18 The form(s) shall be received as specified in the special provisions for Section
19 1-02.9 Delivery of Proposal.

20
21 It is prohibited for the Bidder to require a UDBE to submit a Written
22 Confirmation Document with any part of the form left blank. Should the
23 Contracting Agency determine that an incomplete Written Confirmation
24 Document was signed by a UDBE, the validity of the document comes into
25 question. The associated UDBE participation may not receive credit.

26
27 **Selection of Successful Bidder/Good Faith Efforts (GFE)**

28 The requirements of this section apply to projects with a UDBE COA Goal. The
29 successful Bidder shall be selected on the basis of having submitted the lowest
30 responsive Bid, which demonstrates a good faith effort to achieve the UDBE
31 COA Goal. The Contracting Agency, at any time during the selection process,
32 may request a breakdown of the bid items and amounts that are counted
33 towards the overall contract goal for any of the UDBEs listed on the UDBE
34 Utilization Certification.

35
36 Achieving the UDBE COA Goal may be accomplished in one of two ways:

- 37
38 1. By meeting the UDBE COA Goal
39 Submission of the UDBE Utilization Certification, supporting UDBE
40 Written Confirmation Document(s) showing the Bidder has obtained
41 enough UDBE participation to meet or exceed the UDBE COA Goal,
42 the UDBE Bid Item Breakdown and the UDBE Trucking Credit Form, if
43 applicable.
44
45 2. By documentation that the Bidder made adequate GFE to meet the
46 UDBE COA Goal
47 The Bidder may demonstrate a GFE in whole or part through GFE
48 documentation ONLY IN THE EVENT a Bidder's efforts to solicit
49 sufficient UDBE participation have been unsuccessful. The Bidder
50 must supply GFE documentation in addition to the UDBE Utilization
51 Certification, supporting UDBE Written Confirmation Document(s), the

UDBE Bid Item Breakdown form and the UDBE Trucking Credit Form, if applicable.

Note: In the case where a Bidder is awarded the contract based on demonstrating adequate GFE, the advertised UDBE COA Goal will not be reduced. The Bidder shall demonstrate a GFE during the life of the Contract to attain the advertised UDBE COA Goal.

GFE documentation, the UDBE Bid Item Breakdown form, and the UDBE Trucking Credit Form, if applicable, shall be submitted as specified in Section 1-02.9.

The Contracting Agency will review the GFE documentation and will determine if the Bidder made an adequate good faith effort.

Good Faith Effort (GFE) Documentation

GFE is evaluated when:

1. Determining award of a Contract that has COA goal,
2. When a COA UDBE is terminated and substitution is required, and
3. Prior to Physical Completion when determining whether the Contractor has satisfied its UDBE commitments.

49 CFR Part 26, Appendix A is intended as general guidance and does not, in itself, demonstrate adequate good faith efforts. The following is a list of types of actions, which would be considered as part of the Bidder's GFE to achieve UDBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

1. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified UDBEs who have the capability to perform the Work of the Contract. The Bidder must solicit this interest within sufficient time to allow the UDBEs to respond to the solicitation. The Bidder must determine with certainty if the UDBEs are interested by taking appropriate steps to follow up initial solicitations.
2. Selecting portions of the Work to be performed by UDBEs in order to increase the likelihood that the UDBE COA Goal will be achieved. This includes, where appropriate, breaking out contract Work items into economically feasible units to facilitate UDBE participation, even when the Bidder might otherwise prefer to perform these Work items with its own forces.
3. Providing interested UDBEs with adequate information about the Plans, Specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation.

- a. Negotiating in good faith with interested UDBEs. It is the Bidder's responsibility to make a portion of the Work available to UDBE subcontractors and suppliers and to select those portions of the Work or material needs consistent with the available UDBE subcontractors and suppliers, so as to facilitate UDBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of UDBEs that were considered; a description of the information provided regarding the Plans and Specifications for the Work selected for subcontracting; and evidence as to why additional agreements could not be reached for UDBEs to perform the Work.
 - b. A Bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as the UDBE COA Goal into consideration. However, the fact that there may be some additional costs involved in finding and using UDBEs is not in itself sufficient reason for a Bidder's failure to meet the UDBE COA Goal, as long as such costs are reasonable. Also, the ability or desire of a Bidder to perform the Work of a Contract with its own organization does not relieve the Bidder of the responsibility to make Good Faith Efforts. Bidders are not, however, required to accept higher quotes from UDBEs if the price difference is excessive or unreasonable.
4. Not rejecting UDBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Bidder's efforts to meet the UDBE COA Goal.
 5. Making efforts to assist interested UDBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Bidder.
 6. Making efforts to assist interested UDBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
 7. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of UDBEs.
 8. Documentation of GFE must include copies of each UDBE and non-DBE subcontractor quotes submitted to the Bidder when a non-DBE subcontractor is selected over a UDBE for Work on the Contract. (ref. updated DBE regulations – 26.53(b)(2)(vi) & App. A)

Administrative Reconsideration of GFE Documentation

A Bidder has the right to request reconsideration if the GFE documentation submitted with their Bid was determined to be inadequate.

- The Bidder must request within 48 hours of notification of being nonresponsive or forfeit the right to reconsideration.
- The reconsideration decision on the adequacy of the Bidder's GFE documentation shall be made by an official who did not take part in the original determination.
- Only original GFE documentation submitted as a supplement to the Bid shall be considered. The Bidder shall not introduce new documentation at the reconsideration hearing.
- The Bidder shall have the opportunity to meet in person with the official for the purpose of setting forth the Bidder's position as to why the GFE documentation demonstrates a sufficient effort.
- The reconsideration official shall provide the Bidder with a written decision on reconsideration within five working days of the hearing explaining the basis for their finding.

UDBE Bid Item Breakdown

The Bidder shall submit a UDBE Bid Item Breakdown Form (WSDOT Form 272-054) as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

UDBE Trucking Credit Form

The Bidder shall submit a UDBE Trucking Credit Form (WSDOT Form 272-058), as specified in the Special Provisions for Section 1-02.9, Delivery of Proposal.

Note: The UDBE Trucking Credit Form is only required for a UDBE Firm listed on the UDBE Utilization Certification as a subcontractor for "Trucking" or "Hauling" and are performing a part of a bid item. For example, if the item of Work is Structure Excavation including Haul, and another firm is doing the excavation and the UDBE Trucking firm is doing the haul, the form is required. For a UDBE subcontractor that is responsible for an entire item of work that may require some use of trucks, the form is not required.

Procedures between Award and Execution

After Award and prior to Execution, the Contractor shall provide the additional information described below. Failure to comply shall result in the forfeiture of the Bidder's Proposal bond or deposit.

- 1
2 1. A list of all firms who submitted a bid or quote in attempt to participate
3 in this project whether they were successful or not. Include the
4 business name and mailing address.
5

6 Note: The firms identified by the Contractor may be contacted by the
7 Contracting Agency to solicit general information as follows: age of
8 the firm and average of its gross annual receipts over the past
9 three years.
10

11 **Procedures after Execution**

12 **Commercially Useful Function (CUF)**

13 The Contractor may only take credit for the payments made for Work
14 performed by a DBE that is determined to be performing a CUF. Payment
15 must be commensurate with the work actually performed by the DBE. This
16 applies to all DBEs performing Work on a project, whether or not the DBEs
17 are COA, if the Contractor wants to receive credit for their participation.
18 The Engineer will conduct CUF reviews to ascertain whether DBEs are
19 performing a CUF. A DBE performs a CUF when it is carrying out its
20 responsibilities of its contract by actually performing, managing, and
21 supervising the Work involved. The DBE must be responsible for
22 negotiating price; determining quality and quantity; ordering the material,
23 installing (where applicable); and paying for the material itself. If a DBE
24 does not perform "all" of these functions on a furnish-and-install contract, it
25 has not performed a CUF and the cost of materials cannot be counted
26 toward UDBE COA Goal. Leasing of equipment from a leasing company is
27 allowed. However, leasing/purchasing equipment from the Contractor is
28 not allowed. Lease agreements shall be provided prior to the
29 Subcontractor beginning Work. Any use of the Contractor's equipment by a
30 DBE may not be credited as countable participation.
31

32 The DBE does not perform a CUF if its role is limited to that of an extra
33 participant in a transaction, contract, or project through which the funds are
34 passed in order to obtain the appearance of DBE participation.
35

36 In order for a DBE traffic control company to be considered to be
37 performing a CUF, the DBE must be in control of its work inclusive of
38 supervision. The DBE shall employ a Traffic Control Supervisor who is
39 directly involved in the management and supervision of the traffic control
40 employees and services.
41

42 The following are some of the factors that the Engineer will use in
43 determining whether a DBE trucking company is performing a CUF:
44

- 45 • The DBE shall be responsible for the management and
46 supervision of the entire trucking operation for which it is
47 responsible on the contract. The owner demonstrates business
48 related knowledge, shows up on site and is determined to be
49 actively running the business.
50

- The DBE itself shall own and operate at least one fully licensed, insured, and operational truck used on the Contract. The drivers of the trucks owned and leased by the DBE must be exclusively employed by the DBE and reflected on the DBE's payroll.
- Lease agreements for trucks shall indicate that the DBE has exclusive use of and control over the truck(s). This does not preclude the leased truck from working for others provided it is with the consent of the DBE and the lease provides the DBE absolute priority for use of the leased truck.
- Leased trucks shall display the name and identification number of the DBE.

UDBE/DBE/FSBE Truck Unit Listing Log

In addition to the subcontracting requirements of Section 1-08.1, each DBE trucking firm shall submit supplemental information consisting of a completed Primary UDBE/DBE/FSBE Truck Unit Listing Log (WSDOT Form 350-077), copy of vehicle registrations, and all Rental/Lease agreements (if applicable). The supplemental information shall be submitted to the Engineer prior to any trucking services being performed for DBE credit. Incomplete or incorrect supplemental information will be returned for correction. The corrected Primary UDBE/DBE/FSBE Truck Unit Listing Log and any Updated Primary UDBE/DBE/FSBE Truck Unit Listing Logs shall be submitted and accepted by the Engineer no later than ten calendar days of utilizing applicable trucks. Failure to submit or update the DBE Truck Unit Listing Log may result in trucks not being credited as DBE participation.

Each DBE trucking firm shall complete a Daily UDBE/DBE/FSBE Trucking Unit Listing Log for each day that the DBE performs trucking services for DBE credit. The Daily UDBE/DBE/FSBE Trucking Unit Listing Log forms shall be submitted to the Engineer by Friday of the week after the work was performed.

Joint Checking

A joint check is a check between a Subcontractor and the Contractor to the supplier of materials/supplies. The check is issued by the Contractor as payer to the Subcontractor and the material supplier jointly for items to be incorporated into the project. The DBE must release the check to the supplier, while the Contractor acts solely as the guarantor.

A joint check agreement must be approved by the Engineer and requested by the DBE involved using the DBE Joint Check Request Form (form # 272-053) prior to its use. The form must accompany the DBE Joint Check Agreement between the parties involved, including the conditions of the arrangement and expected use of the joint checks.

The approval to use joint checks and the use will be closely monitored by the Engineer. To receive DBE credit for performing a CUF with respect to obtaining materials and supplies, a DBE must "be responsible for

negotiating price, determining quality and quantity, ordering the material, installing and paying for the material itself.” The Contractor shall submit DBE Joint Check Request Form for the Engineer approval prior to using a joint check.

Material costs paid by the Contractor directly to the material supplier are not allowed. If proper procedures are not followed or the Engineer determines that the arrangement results in lack of independence for the DBE involved, no DBE credit will be given for the DBE’s participation as it relates to the material cost.

Prompt Payment

Prompt payment to all subcontractors shall be in accordance with Section 1-08.1. Prompt payment requirements apply to progress payments as well as return of retainage.

Subcontracts

Prior to a DBE performing Work on the Contract, an executed subcontract between the DBE and the Contractor shall be submitted to the Engineer. The executed subcontracts shall be submitted by email to the following email address

*** Olympic Region - ORegionOEO@wsdot.wa.gov***

The prime contractor shall notify the Engineer in writing within five calendar days of subcontract submittal.

Reporting

The Contractor and all subcontractors/suppliers/service providers that utilize DBEs to perform work on the project, shall maintain appropriate records that will enable the Engineer to verify DBE participation throughout the life of the project.

Refer to Section 1-08.1 for additional reporting requirements associated with this contract.

Changes in COA Work Committed to UDBE

The Contractor shall utilize the COA UDBEs to perform the work and supply the materials for which each is committed unless approved by the Engineer. The Contractor shall not be entitled to any payment for work or material completed by the Contractor or subcontractors that was committed to be completed by the COA UDBEs.

Owner Initiated Changes

Where the Engineer makes changes that result in changes to Work that was committed to a COA UDBE. The Contractor may be directed to substitute for the Work in such instances.

Contractor Initiated Changes

The Contractor cannot reduce the amount of work committed to a COA UDBE without good cause. Reducing UDBE Commitment is viewed as

1 partial UDBE termination, and therefore subject to the termination
2 procedures below.

3 4 **Original Quantity Underruns**

5 In the event that Work committed to a UDBE firm as part of the COA
6 underruns the original planned quantities the Contractor may be required
7 to substitute other remaining Work to another UDBE.

8 9 **Contractor Proposed DBE Substitutions**

10 Requests to substitute a COA UDBE must be for good cause (see UDBE
11 termination process below), and requires prior written approval of the
12 Engineer. After receiving a termination with good cause approval, the
13 Contractor may only replace a UDBE with another certified UDBE. When
14 any changes between Contract Award and Execution result in a
15 substitution of COA UDBE, the substitute UDBE shall be certified prior to
16 the bid opening on the Contract.

17 18 **UDBE Termination**

19 Termination of a COA UDBE (or an approved substitute UDBE) is only
20 allowed in whole or in part with prior written approval of the Engineer. If the
21 Contractor terminates a COA UDBE without the written approval of the
22 Engineer, the Contractor shall not be entitled to credit towards the UDBE
23 COA Goal for any payment for work or material performed/supplied by the
24 COA UDBE. In addition, sanctions may apply as described elsewhere in
25 this specification.

26
27 The Contractor must have good cause to terminate a COA UDBE.

28
29 Good cause typically includes situations where the UDBE Subcontractor is
30 unable or unwilling to perform the work of its subcontract. Good cause
31 may exist if:

- 32
33 • The UDBE fails or refuses to execute a written contract.
- 34
35 • The UDBE fails or refuses to perform the Work of its subcontract
36 in a way consistent with normal industry standards.
- 37
38 • The UDBE fails or refuses to meet the Contractor's reasonable
39 nondiscriminatory bond requirements.
- 40
41 • The UDBE becomes bankrupt, insolvent, or exhibits credit
42 unworthiness.
- 43
44 • The UDBE is ineligible to work on public works projects because
45 of suspension and debarment proceedings pursuant to federal
46 law or applicable State law.
- 47
48 • The UDBE voluntarily withdraws from the project, and provides
49 written notice of its withdrawal.
- 50

- The UDBE's work is deemed unsatisfactory by the Engineer and not in compliance with the Contract.
- The UDBE's owner dies or becomes disabled with the result that the UDBE is unable to complete its Work on the Contract.

Good cause does not exist if:

- The Contractor seeks to terminate a COA UDBE so that the Contractor can self-perform the Work.
- The Contractor seeks to terminate a COA UDBE so the Contractor can substitute another DBE contractor or non-DBE contractor after Contract Award.
- The failure or refusal of the COA UDBE to perform its Work on the subcontract results from the bad faith or discriminatory action of the Contractor (e.g., the failure of the Contractor to make timely payments or the unnecessary placing of obstacles in the path of the UDBE's Work).

Prior to requesting termination, the Contractor shall give notice in writing to the UDBE with a copy to the Engineer of its intent to request to terminate UDBE Work and the reasons for doing so. The UDBE shall have five (5) days to respond to the Contractor's notice. The UDBE's response shall either support the termination or advise the Engineer and the Contractor of the reasons it objects to the termination of its subcontract.

When a COA UDBE is terminated, or fails to complete its work on the Contract for any reason, the Contractor shall substitute with another UDBE or provide documentation of GFE. A plan to achieve the COA UDBE Commitment shall be submitted to the Engineer within 2 days of the approval of termination or the Contract shall be suspended until such time the substitution plan is submitted.

Decertification

When a DBE is "decertified" from the DBE program during the course of the Contract, the participation of that DBE shall continue to count as DBE participation as long as the subcontract with the DBE was executed prior to the decertification notice. The Contractor is obligated to substitute when a DBE does not have an executed subcontract agreement at the time of decertification.

Consequences of Non-Compliance

Breach of Contract

Each contract with a Contractor (and each subcontract the Contractor signs with a Subcontractor) must include the following assurance clause:

The Contractor, subrecipient, or Subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49

CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the Contractor from future bidding as non-responsible.

Notice

If the Contractor or any Subcontractor, Consultant, Regular Dealer, or service provider is deemed to be in non-compliance, the Contractor will be informed in writing, by certified mail by the Engineer that sanctions will be imposed for failure to meet the UDBE COA Commitment and/or submit documentation of good faith efforts. The notice will state the specific sanctions to be imposed which may include impacting a Contractor or other entity's ability to participate in future contracts.

Sanctions

If it is determined that the Contractor's failure to meet all or part of the UDBE COA Commitment is due to the Contractor's inadequate good faith efforts throughout the life of the Contract, including failure to submit timely, required Good Faith Efforts information and documentation, the Contractor may be required to pay DBE penalty equal to the amount of the unmet Commitment, in addition to the sanctions outlined in Section 1-07.11(5).

Payment

Compensation for all costs involved with complying with the conditions of this Specification and any other associated DBE requirements is included in payment for the associated Contract items of Work, except otherwise provided in the Specifications.

(April 3, 2017)

Special Training Provisions

General Requirements

The Contractor's equal employment opportunity, affirmative action program shall include the requirements set forth below. The Contractor shall provide on-the-job training aimed at developing trainees to journeyman status in the trades involved. The number of training hours shall be 400 hours. Trainees shall not be assigned less than 400 hours. The Contractor may elect to accomplish training as part of the work of a subcontractor, however, the Prime Contractor shall retain the responsibility for complying with these Special Provisions. The Contractor shall also ensure that this training provision is made applicable to any subcontract that includes training.

Trainee Approval

The Federal government requires Contracting Agencies to include these training provisions as a condition attached to the receipt of Federal highway funding. The Federal government has determined that the training and promotion of members of certain minority groups and women is a primary objective of this training provision. The Contractor shall make every effort to enroll minority groups and women trainees to the extent such persons are available within a reasonable recruitment area. This training provision is not intended and shall not be used to discriminate against any applicant for training, whether that person is a minority, woman or otherwise. A non-minority male trainee or apprentice may be approved provided the following requirements are met:

1. The Contractor is otherwise in compliance with the contract's Equal Employment Opportunity and On-the-Job Training requirements and provides documentation of the efforts taken to fill the specific training position with either minorities or females
2. or, if not otherwise in compliance, furnishes evidence of his/her systematic and direct recruitment efforts in regard to the position in question and in promoting the enrollment and/or employment of minorities and females in the craft which the proposed trainee is to be trained
3. and the Contractor has made a good faith effort towards recruiting of minorities and women. As a minimum this good faith effort shall consist of the following:
 - Distribution of written notices of available employment opportunities with the Contractor and enrollment opportunities with its unions. Distribution should include but not be limited to; minority and female recruitment sources and minority and female community organizations;
 - Records documenting the Contractor's efforts and the outcome of those efforts, to employ minority and female applicants and/or refer them to unions;
 - Records reflecting the Contractor's efforts in participating in developing minority and female on-the-job training opportunities, including upgrading programs and apprenticeship opportunities;
 - Distribution of written notices to unions and training programs disseminating the Contractor's EEO policy and requesting cooperation in achieving EEO and OJT obligations.

No employee shall be employed as a trainee in any classification in which the employee has successfully completed a training course leading to journeyman status or in which the employee has been employed as a journeyman. The Contractor's records shall document the methods for determining the trainee's status and findings in each case. When feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

1 For the purpose of this specification, acceptable training programs are those employing
2 trainees/apprentices registered with the following:

3
4 1. Washington State Department of Labor & Industries — State Apprenticeship
5 Training Council (SATC) approved apprenticeship agreement:

- 6
7 a. Pursuant to RCW 49.04.060, an apprenticeship agreement shall be;
8
9 i. an individual written agreement between an employer and
10 apprentice
11 ii. a written agreement between (an employer or an
12 association of employers) and an organization of
13 employees describing conditions of employment for
14 apprentices
15 iii. a written statement describing conditions of employment
16 for apprentices in a plant where there is no bona fide
17 employee organization.

18
19 All such agreements shall conform to the basic standards and other
20 provisions of RCW Chapter 49.

21
22 2. Apprentices must be registered with U.S. Department of Labor —
23 Apprenticeship Training, Employer, and Labor Services (ATELS)
24 approved program.

25
26 Or

27
28 3. Trainees participating in a non-ATELS/SATC program, which has been
29 approved by the contracting agency for the specific project.

30
31 4. For assistance in locating trainee candidates, the Contractor may call
32 WSDOT's OJT Support Services Technical Advisor at (360) 704-6314.

33
34 **Obligation to Provide Information**

35 Upon starting a new trainee, the Contractor shall furnish the trainee a copy of the
36 approved program the Contractor will follow in providing the training. Upon completion of
37 the training, the Contractor shall provide the Contracting Agency with a certification
38 showing the type and length of training each trainee.

39
40 **Training Program Approval**

41 The Training Program shall meet the following requirements:

- 42
43 1. The Training Program (DOT Form 272-049) must be submitted to the Engineer
44 for approval prior to commencing contract work and shall be resubmitted when
45 modifications to the program occur.
46
47 2. The minimum length and type of training for each classification will be as
48 established in the training program as approved by the Contracting Agency.
49

- 1 3. The Training Program shall contain the trades proposed for training, the number
2 of trainees, the hours assigned to the trade and the estimated beginning work
3 date for each trainee.
4
- 5 4. Unless otherwise specified, Training Programs will be approved if the proposed
6 number of training hours equals the training hours required by contract and the
7 trainees are not assigned less than 400 hours each.
8
- 9 5. After approval of the training program, information concerning each individual
10 trainee and good faith effort documentation shall be submitted on (DOT Form
11 272-050.)
12
- 13 6. In King County, laborer trainees or apprentices will not be approved on contracts
14 containing less than 2000 training hours as specified in this Section. In King
15 County, no more than twenty percent (20%) of hours proposed for trainees or
16 apprentices shall be in the laborer classification when the contract contains 2000
17 or more hours of training as specified in this Section. Trainees shall not be
18 assigned less than 400 hours.
19
- 20 7. Flagging programs will not be approved. Other programs that include flagging
21 training will only be approved if the flagging portion is limited to an orientation of
22 not more than 20 hours.
23
- 24 8. It is the intention of these provisions that training is to be provided in the
25 construction crafts rather than clerk-typists or secretarial-type positions. Training
26 is permissible in lower level management positions such as office engineers,
27 estimators, timekeepers, etc., where the training is oriented toward construction
28 applications. Some off-site training is permissible as long as the training is an
29 integral part of an approved training program.
30
- 31 9. It is normally expected that a trainee will begin training on the project as soon as
32 feasible after start of work, utilizing the skill involved and remain on the project as
33 long as training opportunities exist in the work classification or upon completion
34 of the training program. It is not required that all trainees be on board for the
35 entire length of the contract. The number trained shall be determined on the
36 basis of the total number enrolled on the contract for a significant period.
37
- 38 10. Wage Progressions: Trainees will be paid at least the applicable ratios or wage
39 progressions shown in the apprenticeship standards published by the
40 Washington State Department of Labor and Industries. In the event that no
41 training program has been established by the Department of Labor and
42 Industries, the trainee shall be paid in accordance with the provisions of RCW
43 39.12.021 which reads as follows:
44 Apprentice workmen employed upon public works projects for whom an
45 apprenticeship agreement has been registered and approved with the
46 State Apprenticeship Council pursuant to RCW 49.04, must be paid at
47 least the prevailing hourly rate for an apprentice of that trade. Any
48 workman for whom an apprenticeship agreement has not been registered
49 and approved by the State Apprenticeship Council shall be considered to
50 be a fully qualified journeyman, and, therefore, shall be paid at the
51 prevailing hourly rate for journeymen.

Compliance

In the event that the Contractor is unable to accomplish the required training hours but can demonstrate a good faith effort to meet the requirements as specified, then the Contracting Agency will adjust the training goals accordingly.

Requirements for Non ATELS/SATC Approved Training Programs

Contractors who are not affiliated with a program approved by ATELS or SATC may have their training program approved provided that the program is submitted for approval on DOT Form 272-049, and the following standards are addressed and incorporated in the Contractor's program:

- The program establishes minimum qualifications for persons entering the training program.
- The program shall outline the work processes in which the trainee will receive supervised work experience and training on-the-job and the allocation of the approximate time to be spent in each major process. The program shall include the method for recording and reporting the training completed shall be stated.
- The program shall include a numeric ratio of trainees to journeymen consistent with proper supervision, training, safety, and continuity of employment. The ratio language shall be specific and clear as to application in terms of job site and workforce during normal operations (normally considered to fall between 1:10 and 1:4).
- The terms of training shall be stated in hours. The number of hours required for completion to journeyman status shall be comparable to the apprenticeship hours established for that craft by the SATC. The following are examples of programs that are currently approved:

CRAFT	HOURS
Laborer	4,000
Ironworker	6,000
Carpenter	5,200-8,000
Construction Electrician	8,000
Operating Engineer	6,000-8,000
Cement Mason	5,400
Teamster	2,100

- The method to be used for recording and reporting the training completed shall be stated.

Measurement

The Contractor may request that the total number of "training" hours for the contract be increased subject to approval by the Contracting Agency. This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other sources do not prohibit other reimbursement. Reimbursement to the Contractor for off-site training as indicated previously may only be made when the Contractor does one or more of the following and the trainees are concurrently employed on a Federal-aid project:

- contributes to the cost of the training,
- provides the instruction to the trainee,
- pays the trainee's wages during the off- site training period.

Reimbursement will be made upon receipt of a certified invoice that shows the related payroll number, the name of trainee, total hours trained under the program, previously paid hours under the contract, hours due this estimate, and dollar amount due this estimate. The certified invoice shall show a statement indicating the Contractor's effort to enroll minorities and women when a new enrollment occurs. If a trainee is participating in a SATC/ATELS approved apprenticeship program, a copy of the certificate showing apprenticeship registration must accompany the first invoice on which the individual appears. Reimbursement for training occurring prior to approval of the training program will be allowed if the Contractor verbally notifies the Engineer of this occurrence at the time the apprentice/trainee commences work. A trainee/apprentice, regardless of craft, must have worked on the contract for at least 20 hours to be eligible for reimbursement.

Payment

The Contractor will be reimbursed under the item "Training" per hour for each hour of training for each employee.

1-07.12 Federal Agency Inspection

Section 1-07.12 is supplemented with the following

(January 25, 2016)

Required Federal Aid Provisions

The Required Contract Provisions Federal Aid Construction Contracts (FHWA 1273) Revised May 1, 2012 and the amendments thereto supersede any conflicting provisions of the Standard Specifications and are made a part of this Contract; provided, however, that if any of the provisions of FHWA 1273, as amended, are less restrictive than Washington State Law, then the Washington State Law shall prevail.

The provisions of FHWA 1273, as amended, included in this Contract require that the Contractor insert the FHWA 1273 and amendments thereto in each Subcontract, together with the wage rates which are part of the FHWA 1273, as amended. Also, a clause shall be included in each Subcontract requiring the Subcontractors to insert the FHWA 1273 and amendments thereto in any lower tier Subcontracts, together with the wage rates. The Contractor shall also ensure that this section, REQUIRED FEDERAL AID PROVISIONS, is inserted in each Subcontract for Subcontractors and lower tier Subcontractors. For this purpose, upon request to the Project Engineer, the Contractor will be provided with extra copies of the FHWA 1273, the amendments thereto, the applicable wage rates, and this Special Provision.

1-07.17 Utilities and Similar Facilities

Section 1-07.17 is supplemented with the following:

(April 2, 2007)

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:

- City of Tacoma Light Division, Contact: Kevin Kelley, phone: (253) 502-8229
- City of Tacoma Water Division, Contact: Kimberly Baard, phone: (253) 396-3317
- City of Tacoma Traffic Division, Signal/Streetlight Shop, phone: (253) 591-5287
- CLICK! Network, Contact: Ken Mathes, phone: (253) 502-8851
- Puget Sound Energy, Contact: Mike Klapperich, Electric, phone: (253) 313-3790
- OR Amber Uhls, Gas, phone: (253) 476-6137
- CenturyLink, Contact: Eric Charity, phone: (206) 733-8871
- Comcast, Contact: Todd Gallant, phone: (253) 878-4955
- AT&T Broadband Information Services, Contact: Dan McGeough, phone: (425) 896-9830
- Level 3 Communications, Level3NetworkRelocations@Level3.com
- One-Number Locator Service "One Call System" telephone **1-800-424-5555**
- Verizon, Contact: David Lacombe, phone: (206) 305-5366
- MCI Metro Utility, Contact: Brad Landis, phone: (425) 229-3123
- BNSF Roadmaster: Contact BNSF Manager of Public Projects (below) for current Roadmaster information
- BNSF Manager Public Projects: Stephen Semenick, phone: 206.625.6152 office, 817.422.2486 cell, Stephen.Semenick@BNSF.com
- Metro Parks: Tom Dargan, Project Administrator, (253) 305-1017, tomd@tacomaparks.com
- Steamers Restaurant: Jeremy Anderson, 206-957-3202

If the Contractor plans to excavate or trench within ten (10) feet of any utility pole or other electric or water utility structure owned by the City of Tacoma, the Contractor shall contact the City of Tacoma, Department of Public Utilities, Field Coordinator, telephone number 502-8044, and arrange for an inspection before proceeding. The Contractor shall perform, at the Contractor's expense, such additional work as is required to protect the pole or structure from subsidence. The Contractor may be directed to suspend work at the site of any such excavation until such utility structures are adequately protected.

Garbage, recycling, and yard waste pick up within the project limits is on various days and the Contractor should check the website <http://www.govme.com/Common/govME/MyTacoma/CollectionCalendar.aspx> and coordinate their work appropriately.

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.

G. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency

H. 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.

I. 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
- insurance policies required under this Contract that name "City of Tacoma" as Additional Insured shall be considered primary and non-contributory for all claims.

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 offence
\$1,000,000	Stop Gap / Employers' Liability each accident

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

2
3 Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall
4 be written on a coverage form at least as broad as ISO form CA 00 01. If the work
5 involves the transport of pollutants, the automobile liability policy shall include MCS 90
6 and CA 99 48 endorsements.

7
8 Such policy must provide the following minimum limit:

9 \$1,000,000 Combined single limit each accident

10
11 **1-07.18(5)C Workers' Compensation**

12
13 The Contractor shall comply with Workers' Compensation coverage as required by the
14 Industrial Insurance laws of the state of Washington.

15
16 **1-07.18(5)D Excess or Umbrella Liability**
17 **(January 4, 2016 APWA GSP)**

18
19 The Contractor shall provide Excess or Umbrella Liability insurance with limits of not less
20 than \$1 million each occurrence and annual aggregate. This excess or umbrella liability
21 coverage shall be excess over and as least as broad in coverage as the Contractor's
22 Commercial General and Auto Liability insurance

23
24 All entities listed under 1-07.18(2) of these Special Provisions shall be named as
25 additional insureds on the Contractor's Excess or Umbrella Liability insurance policy.

26
27 This requirement may be satisfied instead through the Contractor's primary Commercial
28 General and Automobile Liability coverages, or any combination thereof that achieves
29 the overall required limits of insurance.

30
31 **1-07.18(5)E Railroad Protective Liability Insurance**

32 **(*****)**

33 Contractor shall maintain Railroad Protective Liability coverage with limits of Two
34 Million Dollars (\$2,000,000) per occurrence and Six Million Dollars (\$6,000,000) in
35 the aggregate during the term of the Contract if Contractor's work will involve working
36 on, above, under or being within Fifty (50) feet of BNSF railroad right-of-way.

37
38 The policy must be issued on a standard ISO form CG 00 35 (04-13), or equivalent,
39 with City of Tacoma as a named insured (not named as an additional insured) and
40 shall include the following:

- 41
42
 - Endorsed to include Limited Seepage and Pollution Endorsement
 - Endorsed to include Evacuation Expense Coverage Endorsement.

43
44
45 **1-07.23 Public Convenience and Safety**
46

**1-07.23(1) Construction Under Traffic
(May 2, 2017 APWA GSP)**

Revise the third sentence of the second paragraph to read:

Accessibility to existing or temporary pedestrian push buttons shall not be impaired; if approved by the Contracting Agency activating pedestrian recall timing or other accommodation may be allowed during construction.

Section 1-07.23(1) is supplemented with the following:

(January 2, 2012)

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

1 Section 1-07.23(1) is supplemented with the following:

2
3 **(January 5, 2015)**

4 Lane closures are subject to the following restrictions:

5
6 ***

7 **Minimum Work Zone Clear Zone Distance**

8 Lane closures are subject to the following restrictions:

9
10 ***

11 Lane closures shall require the following:

- 12 1. Emergency vehicles shall be allowed uninterrupted access through the work zone
13 and across the railroad tracks (with minimum necessary width available/possible)
14 at all times.
- 15
16 2. Public vehicular and pedestrian access to/from the west side of the railroad
17 crossing shall be available at all times (although can be flagger controlled if
18 available width across railroad crossing is limited at times) based on the route
19 across the railroad tracks being the only access means to/from the area.
- 20
21 3. Accommodate and adjust work zone, work elements/limits, and/or closure limits to
22 permit property access (whether pre-existing or a coordinated-in-advance and
23 agreed upon alternative or definitive closure period) at all times.
- 24
25 4. Accommodate pedestrians around or through the Work Zone Area if a pedestrian
26 route is not available. If a continuous pedestrian path is not viable, the Contractor
27 shall provide pedestrian hold areas and be escorted or transported through the
28 work zone area.

29
30 Work within railroad crossing area/right-of-way shall require the following:

- 31 1. Contractor shall provide BNSF notice no less than 45 calendar days prior to any
32 work that would be within 25 ft of BNSF trackways and additional
33 provisions/coordination will likely be required for work that would be within 8 ft of
34 the BNSF trackways.
- 35
36 2. Any additional requirements/certifications required by BNSF for work/workers
37 occurring within a certain proximity of the BNSF trackways.
- 38
39 3. Contractor shall coordinate project work/scheduling with any work being performed
40 by BNSF within BNSF right-of-way relating to BNSF infrastructure (existing or
41 new).

42
43 Where turns from arterial routes are restricted to implement the temporary traffic control
44 to perform the Work, the Contractor shall develop and implement a signed detour route
45 based on City review and approval. Detour routes must use arterial roadways and be
46 approved by the Engineer. Arterial roadways that can be used for detours are listed
47 below:

1 **East-West Arterial Roadways**

2 E 28th Street
3 E 32nd Street
4 E 34th Street
5 E Fairbanks Street
6 E 38th Street
7 E 44th Street (east of Portland Ave)
8 E 48th Street (west of Portland Ave)
9 E 56th Street
10 E 64th Street
11 E 72nd Street

12
13 **North-South Arterial Roadways**

14 Pacific Avenue
15 E McKinley Avenue
16 E D Street (north of Wiley Ave)
17 E L Street (north of Fairbanks St) Portland Ave E
18 E Roosevelt Avenue
19 Grandview Avenue (E 32nd St to SR163)

20
21 **1-07.24 Rights of Way**
22 **(July 23, 2015 APWA GSP)**
23

24 *Delete this section and replace it with the following:*
25

26 Street Right of Way lines, limits of easements, and limits of construction permits are
27 indicated in the Plans. The Contractor's construction activities shall be confined within
28 these limits, unless arrangements for use of private property are made.

29 Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of
30 way and easements, both permanent and temporary, necessary for carrying out the
31 work. Exceptions to this are noted in the Bid Documents or will be brought to the
32 Contractor's attention by a duly issued Addendum.

33
34 Whenever any of the work is accomplished on or through property other than public
35 Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any
36 easement agreement obtained by the Contracting Agency from the owner of the private
37 property. Copies of the easement agreements may be included in the Contract
38 Provisions or made available to the Contractor as soon as practical after they have been
39 obtained by the Engineer.

40
41 Whenever easements or rights of entry have not been acquired prior to advertising,
42 these areas are so noted in the Plans. The Contractor shall not proceed with any portion
43 of the work in areas where right of way, easements or rights of entry have not been
44 acquired until the Engineer certifies to the Contractor that the right of way or easement is
45 available or that the right of entry has been received. If the Contractor is delayed due to
46 acts of omission on the part of the Contracting Agency in obtaining easements, rights of
47 entry or right of way, the Contractor will be entitled to an extension of time. The
48 Contractor agrees that such delay shall not be a breach of contract.
49

1 Each property owner shall be given 48 hours notice prior to entry by the Contractor.
2 This includes entry onto easements and private property where private improvements
3 must be adjusted.
4

5 The Contractor shall be responsible for providing, without expense or liability to the
6 Contracting Agency, any additional land and access thereto that the Contractor may
7 desire for temporary construction facilities, storage of materials, or other Contractor
8 needs. However, before using any private property, whether adjoining the work or not,
9 the Contractor shall file with the Engineer a written permission of the private property
10 owner, and, upon vacating the premises, a written release from the property owner of
11 each property disturbed or otherwise interfered with by reasons of construction pursued
12 under this contract. The statement shall be signed by the private property owner, or
13 proper authority acting for the owner of the private property affected, stating that
14 permission has been granted to use the property and all necessary permits have been
15 obtained or, in the case of a release, that the restoration of the property has been
16 satisfactorily accomplished. The statement shall include the parcel number, address,
17 and date of signature. Written releases must be filed with the Engineer before the
18 Completion Date will be established.
19

20 *Section 1-07.24 is supplemented with the following:*
21

22 Right-of-Way plans are contained in Appendix E detailing the permanent acquisition of
23 243 SF of parcel # 0220041019.
24

25 **END OF SECTION**
26
27

1 **1-08 PROSECUTION AND PROGRESS**

2
3 *Add the following new section:*

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

6
7 **1-08.0(1) Preconstruction Conference**
8 **(October 10, 2008 APWA GSP)**

9
10 Prior to the Contractor beginning the work, a preconstruction conference will be held
11 between the Contractor, the Engineer and such other interested parties as may be
12 invited. The purpose of the preconstruction conference will be:

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

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

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

26
27 **1-08.1 Subcontracting**

28 *(December 19, 2019 APWA GSP, Option A)*

29
30 Prior to any subcontractor or lower tier subcontractor beginning work, the Contractor
31 shall submit to the Engineer a certification (WSDOT Form 420-004) that a written
32 agreement between the Contractor and the subcontractor or between the subcontractor
33 and any lower tier subcontractor has been executed. This certification shall also
34 guarantee that these subcontract agreements include all the documents required by the
35 Special Provision Federal Agency Inspection.

36
37 A Subcontractor or lower tier Subcontractor will not be permitted to perform any work
38 under the contract until the following documents have been completed and submitted to
39 the Engineer:

- 40
41 1. Request to Sublet Work (WSDOT Form 421-012), and
- 42 2. Contractor and Subcontractor or Lower Tier Subcontractor Certification for
43 Federal-aid Projects (WSDOT Form 420-004).

44
45 The Contractor shall submit to the Engineer a completed Monthly Retainage Report
46 (WSDOT Form 272-065) within 15 calendar days after receipt of every monthly progress
47 payment until every Subcontractor and lower tier Subcontractor's retainage has been
48 released.

1 The ninth paragraph, beginning with “On all projects, ...” is revised to read:

2
3 The Contractor shall certify to the actual amount received from the Contracting
4 Agency and amounts paid to all firms that were used as Subcontractors, lower tier
5 subcontractors, manufacturers, regular dealers, or service providers on the Contract.
6 This includes all Disadvantaged, Minority, Small, Veteran or Women’s Business
7 Enterprise firms. This Certification shall be submitted to the Engineer on a monthly
8 basis each month between Execution of the Contract and Physical Completion of the
9 Contract using the application available at: <https://wsdot.diversitycompliance.com>. A
10 monthly report shall be submitted for every month between Execution of the Contract
11 and Physical Completion regardless of whether payments were made or work
12 occurred.

13
14 *Add the following new section:*

15 **1-08.0(2) Hours of Work**
16 **(December 8, 2014 APWA GSP)**
17

18 Except in the case of emergency or unless otherwise approved by the Engineer, the
19 normal working hours for the Contract shall be any consecutive 8-hour period between
20 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the
21 Contractor desires different than the normal working hours stated above, the request
22 must be submitted in writing prior to the preconstruction conference, subject to the
23 provisions below. The working hours for the Contract shall be established at or prior to
24 the preconstruction conference.

25
26 All working hours and days are also subject to local permit and ordinance conditions
27 (such as noise ordinances).

28
29 If the Contractor wishes to deviate from the established working hours, the Contractor
30 shall submit a written request to the Engineer for consideration. This request shall state
31 what hours are being requested, and why. Requests shall be submitted for review no
32 later than \$5 days prior to the day(s) the Contractor is requesting to change the
33 hours.

34
35 If the Contracting Agency approves such a deviation, such approval may be subject to
36 certain other conditions, which will be detailed in writing. For example:

- 37 1. On non-Federal aid projects, requiring the Contractor to reimburse the
38 Contracting Agency for the costs in excess of straight-time costs for Contracting
39 Agency representatives who worked during such times. (The Engineer may
40 require designated representatives to be present during the work.
41 Representatives who may be deemed necessary by the Engineer include, but
42 are not limited to: survey crews; personnel from the Contracting Agency’s
43 material testing lab; inspectors; and other Contracting Agency employees or third
44 party consultants when, in the opinion of the Engineer, such work necessitates
45 their presence.)
- 46 2. Considering the work performed on Saturdays, Sundays, and holidays as
47 working days with regard to the contract time.
- 48 3. Considering multiple work shifts as multiple working days with respect to contract
49 time even though the multiple shifts occur in a single 24-hour period.
- 50 4. If a 4-10 work schedule is requested and approved the non-working day for the
51 week will be charged as a working day.

5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and recorded properly on certified payroll

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

Revise this section to read:

The Contractor shall submit ~~\$\$ 7 \$\$~~ 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

1 declares as unworkable. Within 10 calendar days after the date of each statement, the
2 Contractor shall file a written protest of any alleged discrepancies in it. To be considered
3 by the Engineer, the protest shall be in sufficient detail to enable the Engineer to
4 ascertain the basis and amount of time disputed. By not filing such detailed protest in
5 that period, the Contractor shall be deemed as having accepted the statement as
6 correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10
7 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily
8 be charged as a working day then the fifth day of that week will be charged as a working
9 day whether or not the Contractor works on that day.

10
11 *Revise the sixth paragraph to read:*

12
13 The Engineer will give the Contractor written notice of the completion date of the
14 contract after all the Contractor's obligations under the contract have been performed by
15 the Contractor. The following events must occur before the Completion Date can be
16 established:

- 17 1. The physical work on the project must be complete; and
- 18 2. The Contractor must furnish all documentation required by the contract and
19 required by law, to allow the Contracting Agency to process final acceptance of
20 the contract. The following documents must be received by the Project Engineer
21 prior to establishing a completion date:
 - 22 a. Certified Payrolls (per Section 1-07.9(5)).
 - 23 b. Material Acceptance Certification Documents
 - 24 c. Monthly Reports of Amounts Credited as DBE Participation, as required by
25 the Contract Provisions.
 - 26 d. Final Contract Voucher Certification
 - 27 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor
28 and all Subcontractors
 - 29 f. Property owner releases per Section 1-07.24

30
31 *Revise the sixth paragraph to read:*

32
33 The Engineer will give the Contractor written notice of the completion date of the
34 contract after all the Contractor's obligations under the contract have been performed by
35 the Contractor. The following events must occur before the Completion Date can be
36 established:

- 37 1. The physical work on the project must be complete; and
- 38 2. The Contractor must furnish all documentation required by the contract and
39 required by law, to allow the Contracting Agency to process final acceptance of
40 the contract. The following documents must be received by the Project Engineer
41 prior to establishing a completion date:
 - 42 a. Certified Payrolls (per Section 1-07.9(5)).
 - 43 b. Material Acceptance Certification Documents
 - 44 c. Quarterly Reports of Amounts Credited as DBE Participation, as required by
45 the Contract Provisions.
 - 46 d. Final Contract Voucher Certification
 - 47 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor
48 and all Subcontractors

1 f. Property owner releases per Section 1-07.24

2

3 *This section is supplemented with the following:*

4 **(March 1, 2004 Tacoma GSP)**

5

6 This project shall be physically completed within **75** working days.

7

8 **1-08.9 Liquidated Damages**

9 **(August 14, 2013 APWA GSP)**

10 *Revise the fourth paragraph to read:*

11

12 When the Contract Work has progressed to Substantial Completion as defined in the
13 Contract, the Engineer may determine that the work is Substantially Complete. The
14 Engineer will notify the Contractor in writing of the Substantial Completion Date. For
15 overruns in Contract time occurring after the date so established, the formula for
16 liquidated damages shown above will not apply. For overruns in Contract time occurring
17 after the Substantial Completion Date, liquidated damages shall be assessed on the
18 basis of direct engineering and related costs assignable to the project until the actual
19 Physical Completion Date of all the Contract Work. The Contractor shall complete the
20 remaining Work as promptly as possible. Upon request by the Project Engineer, the
21 Contractor shall furnish a written schedule for completing the physical Work on the
22 Contract.

23

24

25 **END OF SECTION**

26

1 **1-09 MEASUREMENT AND PAYMENT**

2
3 **1-09.2(1) General Requirements for Weighing Equipment**
4 **(July 23, 2015 APWA GSP, Option 2)**

5
6 *Revise item 4 of the fifth paragraph to read:*

- 7
8 4. Test results and scale weight records for each day's hauling operations are
9 provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027,
10 Scaleman's Daily Report, unless the printed ticket contains the same information
11 that is on the Scaleman's Daily Report Form. The scale operator must provide
12 AM and/or PM tare weights for each truck on the printed ticket.
13

14 **1-09.6 Force Account**
15 **(October 10, 2008 APWA GSP)**

16 *Supplement this Section with the following:*

17
18 The Contracting Agency has estimated and included in the Proposal, dollar amounts for
19 all items to be paid per force account, only to provide a common proposal for Bidders.
20 All such dollar amounts are to become a part of Contractor's total bid. However, the
21 Contracting Agency does not warrant expressly or by implication that the actual amount
22 of work will correspond with those estimates. Payment will be made on the basis of the
23 amount of work actually authorized by Engineer.
24

25 **1-09.9 Payments**
26 **(March 13, 2012 APWA GSP)**

27
28 *Delete the first four paragraphs and replace them with the following:*

29
30 The basis of payment will be the actual quantities of Work performed according to the
31 Contract and as specified for payment.
32

33 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
34 Preconstruction Conference, to enable the Project Engineer to determine the Work
35 performed on a monthly basis. A breakdown is not required for lump sum items that
36 include a basis for incremental payments as part of the respective Specification. Absent
37 a lump sum breakdown, the Project Engineer will make a determination based on
38 information available. The Project Engineer's determination of the cost of work shall be
39 final.
40

41 Progress payments for completed work and material on hand will be based upon
42 progress estimates prepared by the Engineer. A progress estimate cutoff date will be
43 established at the preconstruction conference.
44

45 The initial progress estimate will be made not later than 30 days after the Contractor
46 commences the work, and successive progress estimates will be made every month
47 thereafter until the Completion Date. Progress estimates made during progress of the
48 work are tentative, and made only for the purpose of determining progress payments.
49 The progress estimates are subject to change at any time prior to the calculation of the
50 final payment.
51

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

- 2 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable
- 3 units of work completed multiplied by the unit price.
- 4 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump
- 5 sum breakdown for that item, or absent such a breakdown, based on the
- 6 Engineer's determination.
- 7 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job
- 8 site or other storage area approved by the Engineer.
- 9 4. Change Orders — entitlement for approved extra cost or completed extra work
- 10 as determined by the Engineer.
- 11

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

- 13 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
- 14 2. The amount of progress payments previously made; and
- 15 3. Funds withheld by the Contracting Agency for disbursement in accordance with
- 16 the Contract Documents.
- 17

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

22
23 **1-09.9(1) Retainage**
24 **(June 27, 2011)**

25 *Section 1-09.9(1) content and title is deleted and replaced with the following:*

26
27 Vacant

28
29 **1-09.11 Disputes and Claims**

30 *Sections 1-09.11 through 1-09.11(1)B are replaced with the following:*

31
32 **(September 3, 2019)**
33 ***Disputes and Claims***

34 When protests occur during a Contract, the Contractor shall pursue resolution through
35 the Engineer in accordance with Section 1-04.5. Unless noted otherwise in the
36 specifications, compliance with all the requirements of Section 1-04.5 is a condition
37 precedent to initiating any action pursuant to these Special Provisions.

38
39 If the negotiations using the procedures outlined in Section 1-04.5 fail to provide
40 satisfactory resolution of the protest, then the Contractor shall provide the Engineer with
41 written notification of dispute stating that the Contractor will continue to pursue the
42 dispute in accordance with the provisions of these Special Provisions. The written
43 notification of dispute shall be provided within 14 calendar days after receipt of the
44 Engineer's written determination that the Contractor's protest is invalid pursuant to
45 Section 1-04.5. Should the Contractor not provide written notification of dispute within
46 the designated time period, the Contractor shall be deemed to have waived any right to
47 pursue the protest further and the matter shall be considered resolved.

1 When the Proposal Form includes the Bid item "Disputes Review Board", unresolved
2 protests shall be subject to the Disputes Review Board subsection of this Special
3 Provision. Either party, Engineer or Contractor, may refer a matter in dispute to the
4 Disputes Review Board. Compliance with the requirements of the Disputes Review
5 Board subsection of this Special Provision is a condition precedent to any further right of
6 the Contractor to pursue the dispute either by certified claim or litigation/arbitration.

7
8 When the Proposal Form does not include the Bid item "Disputes Review Board", the
9 Contractor's written notification of dispute shall indicate whether the Contractor is
10 requesting to resolve the dispute through the use of a Disputes Review Board as
11 outlined in the Disputes Review Board section of this Special Provision, or will submit a
12 formal certified claim directly to the Engineer pursuant to Section 1-09.11(2). If the
13 Contractor requests a Disputes Review Board, the Engineer will notify the Contractor in
14 writing within 7 calendar days of receipt of the request whether the request is
15 acceptable. If both parties to the dispute agree to use a Disputes Review Board, then a
16 pay item "Disputes Review Board" will be added to the Contract by change order and the
17 dispute will be subject to the provisions of the Disputes Review Board subsection of this
18 Special Provision. If the parties do not agree to establish a Disputes Review Board or
19 the Contractor does not request a Disputes Review Board in its written notification of
20 dispute, the Contractor shall comply with the provisions of Section 1-09.11(2).

21
22 Regardless of any protest or dispute, the Contractor shall proceed promptly with the
23 Work as the Engineer orders.

24 25 **Disputes Review Board**

26 The procedures set forth in these Special Provisions shall only apply when the
27 Contract includes the pay item "Disputes Review Board".

28 29 **Disputes Review Board – General**

30 In order to assist in the resolution of dispute(s) between the Contracting
31 Agency and the Contractor arising out of the work of this Contract, a
32 Disputes Review Board, hereinafter called the "Board", will consider
33 disputes referred to it and furnish written recommendations to the
34 Contracting Agency and Contractor to assist in resolution of the
35 dispute(s). The purpose of the Board response to such issues is to
36 provide nonbinding findings and recommendations designed to expose
37 the disputing parties to an independent view of the dispute.

38 39 **Disputes Eligible for Consideration by the Disputes Review Board**

40 The Board shall consider and provide written recommendations
41 concerning the following disputes:

- 42
43 1. Interpretation of the Contract.
- 44
45 2. Entitlement to additional compensation and/or time for completion.
- 46
47 3. Other subjects mutually agreed by the Contracting Agency and
48 Contractor to be a Board issue.

1 **Board Member Qualifications**

2 The following definitions apply for the purpose of setting forth experience
3 and disclosure requirements for Board members.
4

5 **Financial ties** - any ownership interest, loans, receivables or
6 payables. Party directly involved - The Contracting Agency or
7 Contractor of this Contract.
8

9 **Party indirectly involved** - The firms associated with the
10 Contractor on this Contract, including joint venture partners,
11 subcontractors of any tier, and suppliers; and firms associated
12 with the Contractor or the Contracting Agency on this Contract,
13 such as designers, architects, engineers, or other professional
14 service firms or consultants.
15

16 The Board members shall:

- 17 1. Be experienced in the interpretation of construction contract
18 documents.
19
- 20 2. Have attended training by the Dispute Resolution Board
21 Foundation in dispute resolution within the last five years.
22
- 23 3. Be experienced in construction Contract dispute resolution for an
24 owner or Contractor at the level of having responsibility and
25 authority to settle disputes.
26
- 27 4. Be able to discharge their responsibilities impartially and
28 independently, considering the facts and conditions related to the
29 matters under consideration in strict compliance with the
30 provisions of the Contract.
31
- 32 5. Not be a current employee of any party directly or indirectly
33 involved.
34
- 35 6. Not have been an employee of any party directly or indirectly
36 involved with the Project within a period of one year of the
37 Contract Execution date.
38
- 39 7. Not have a financial interest in the Contract except for payments
40 for services on the Board.
41

42 **Board Member Ongoing Responsibilities**

43 While serving on the Disputes Review Board on this project:
44

- 45 1. Board members shall not participate in any discussion
46 contemplating the creation of an agreement or making an
47 agreement with any party directly or indirectly involved in the
48 Contract regarding employment or fee-based consulting services,
49 or any other business arrangement after the Contract is
50 completed.
51

2. Board members shall not officially give any advice to either party. The individual members will act in a completely independent manner and will have no consulting or business connections with either party, except for payments for services on the Board.
3. During routine meetings of the Board as well as during formal hearings, Board members shall refrain from expressing opinions on the merits of statements on matters under dispute or potential dispute. Opinions of Board members expressed in private sessions with other Board members should be kept strictly confidential.
4. The Board shall comply with the terms of the Contract and enforce such terms consistent with the laws of the State of Washington. Board members shall not supplant or otherwise interfere with the respective rights, authorities, duties and obligations of the parties as defined in the Contract. In making its recommendations, the Board shall not make a recommendation that ignores, disregards, or undermines the intention, requirements, or allocation of risk, established by the Contract.
5. Throughout the life of the Contract, if Board members become aware of potential conflicts of interest, they shall be disclosed to the parties immediately.

Establishment of the Board

The Contracting Agency and Contractor shall meet prior to the start of Contract time to jointly select three Board nominees. If the pay item, "Disputes Review Board" is added by change order, the Contracting Agency and Contractor shall meet to select Board nominees after the change order is processed.

The Contracting Agency and the Contractor shall provide to the Board nominees a list of the firms directly and indirectly involved with the Project, including, but not limited to designers, architects, engineers, professional service firms, consultants, JV partners, subcontractors and suppliers, along with a listing of key personnel of each.

Board nominees shall provide to the Contractor and Contracting Agency the following information within 21 calendar days of nomination. Board nominees that are included on the Washington State Department of Transportation "Statewide Prequalified DRB Candidate Roster" will not be required to submit resumes.

1. Resume showing:
 - a. Full name and contact information
 - b. Experience qualifying the person as a Board member as outlined in the Board Member Qualifications subsection of this Special Provision.

1
2 c. Previous Board participation, if any. List each Board
3 assignment separately, indicating the name and
4 location of the project, approximate dates of Board
5 service, name of Contracting Agency, name of
6 Contractor, names of the other Board members and
7 the approximate number of disputes heard. When
8 previous Board experience is extensive, the list may be
9 truncated at the prospective Board member's
10 discretion.

11
12 2. Disclosure statement addressing the following:

- 13 a. Previous or current direct employment by one of the
14 parties directly or indirectly involved.
15
16 b. Previous or current engagement as a consultant to any
17 party directly or indirectly involved - by the prospective
18 Board member or by the firm to which the prospective
19 Board member is directly employed.
20
21 c. Previous, current, or future financial ties to any of the
22 parties directly or indirectly involved.
23
24 d. Previous or current personal or professional
25 relationships with a key member of any party directly or
26 indirectly involved.
27
28 e. Previous and current service as a Board member on
29 projects where any of the parties directly or indirectly
30 involved in this Contract were also involved.
31
32 f. Any prior involvement in this project.

33
34 Within 14 calendar days of receiving the resumes and disclosure
35 statements from the Board nominees, the Contracting Agency and the
36 Contractor shall review and jointly agree on the final selection of the three
37 members to serve on the Board. In the event that any of the three
38 nominees are not acceptable to either party, the process shall be
39 repeated until all positions are filled.
40

41 The Contracting Agency, the Contractor, and the Board shall execute the
42 Three-Party Agreement not later than the first Board meeting. The Three-
43 Party Agreement form (WSDOT Form 134-091) is available online at
44 WSDOT Electronic Forms webpage.
45

46 The Board shall determine and notify the parties which Board member will
47 act as the Board chair.
48

49 **Disputes Review Board Candidates**

50 The qualifications of some potential Board members have been
51 reviewed and deemed potentially acceptable by the Washington

1 State Department of Transportation (WSDOT). This list of
2 potential Board members, Statewide Prequalified DRB Candidate
3 Roster, is available from the WSDOT Headquarters Construction
4 Office website at
5 [https://www.wsdot.wa.gov/business/construction/dispute-review-](https://www.wsdot.wa.gov/business/construction/dispute-review-boards)
6 [boards](https://www.wsdot.wa.gov/business/construction/dispute-review-boards). Either party may propose a Board nominee that is not on
7 the WSDOT list. In either case, Board nominees must comply with
8 the requirements of the **Board Member Qualifications, Board**
9 **Member Ongoing Responsibilities**, and **Establishment of the**
10 **Board** subsection of this Special Provision, and every Board
11 member must be deemed acceptable by both the Contracting
12 Agency and the Contractor.

13 **Replacement or Termination of a Board Member**

14 Procedures for terminating Board members are defined in The
15 Three-Party Agreement.
16

17 **Disputes Review Board Procedures – General**

18 The Board, Contracting Agency, and Contractor may mutually develop
19 rules of operation of the Board that supplement the Three-Party
20 Agreement. Such supplemental rules must be in writing and accepted by
21 the Board, Contracting Agency, and Contractor.
22

23
24 The Board members shall act impartially and independently in the
25 consideration of facts and conditions surrounding any dispute presented
26 by the Contracting Agency or the Contractor and that the
27 recommendations concerning any such dispute are advisory.
28

29 The Contracting Agency and the Contractor shall furnish to the Board
30 documents in accordance with the Three-Party Agreement.
31

32 **Regular Disputes Review Board Meetings**

33 All regular Board meetings will be held at or near the job site. The
34 frequency of regular meetings will be set by mutual agreement of the
35 Board, the Contracting Agency and the Contractor. Each regular meeting
36 is expected to consist of a round table discussion and a field inspection of
37 the project site. A member of the Contracting Agency and Contractor are
38 expected to jointly facilitate the round table discussion. Round table
39 discussion attendees are expected to include selected personnel from the
40 Contracting Agency and the Contractor. The agenda for each meeting will
41 be managed by the Board.
42

43 **Standard Procedure for Consideration of Disputes**

44 **Dispute Referral**

45 Disputes shall be referred in writing to the Board chair with a copy
46 concurrently provided to the other Board members and the other
47 party.
48

- 49 1. The dispute referral shall concisely define the nature and
50 specifics of the dispute that is proposed to be considered
51 by the Board and the scope of the recommendation

requested. This referral is not expected to contain a mutually agreed upon statement of the dispute.

2. The Board chair shall confer with the parties to establish a briefing schedule for delivering prehearing submittals/rebuttals, and a date, time, and location for convening the Board for a hearing.

Pre-Hearing Submittal

1. The Contracting Agency and the Contractor shall each prepare a pre-hearing submittal and transmit both a hard copy and an electronic copy of it to all three members of the Board and the other party. The pre-hearing submittal, comprising a position paper with such backup data as is referenced in the position paper, shall be tabbed, indexed, and the pages consecutively numbered.
2. Both position papers shall, at a minimum, contain the following:
 - a. A mutually agreed upon joint statement of the dispute and the scope of the desired report being requested of the Board, placed at the beginning of the papers. The language of this joint statement shall summarize in a few sentences the nature of the dispute. If the parties are unable to agree on the wording of the joint statement of dispute, each party's position paper shall contain both statements, and identify the party authoring each statement.
 - b. The basis and justification for the party's position, with reference to Contract language and other supporting documents for each element of the dispute. In order to minimize duplication and repetitiveness, the parties may identify a common set of documents that will be referred to by both parties, and submit them in a separate package.
3. If requested by the Board or either party, the Contracting Agency and the Contractor shall each prepare and submit a rebuttal paper in response the position paper of the other party.
4. The number of copies, distribution requirements, and time for submittal will be established by the Board and communicated to the parties by the Board chair.

Disputes Review Board Hearing

1. The Contracting Agency will arrange for or provide hearing facilities at or near the project site.

2. Attendance:

- a. The Contracting Agency and the Contractor will have a representative at all hearings.
- b. The Contracting Agency and Contractor shall both limit attendance at the hearing to personnel directly involved in the dispute and participants in the good-faith negotiations that were conducted prior to submittal to the Board except as noted elsewhere in this section.
- c. At least 14 calendar days before the hearing, each party shall provide a list of proposed attendees to the Board and to the other party. In the event of any disagreement, the Board shall make the final determination as to who attends the hearing.
- d. Attorneys shall not attend hearings except as follows:
 - i. Attorneys are identified as such on the list of proposed attendees;
 - ii. All parties desiring their attorney present are able to do so.
 - iii. Attorneys shall not participate in the hearing, unless the scope and extent of Attorney participation is mutually agreed to by the Contracting Agency, Contractor and the Board at least 7 calendar days before the hearing.
- e. For hearings regarding disputes involving a Subcontractor, the Contractor shall require and ensure that each Subcontractor involved in the dispute have present an authorized representative with actual knowledge of the facts underlying the Subcontractor disputes.

- 3. A party furnishing written evidence or documentation of any kind to the Board must furnish copies of such information to the other party and the Board a minimum of 21 calendar days prior to the date the Board sets to convene the hearing for the dispute, unless otherwise mutually agreed to by the parties and the Board. Either party shall produce such additional evidence as the Board may deem necessary and furnish copies to the other party prior to submittal to the Board.
- 4. The conduct of the hearing shall be established by the Board and be generally consistent with the following guidelines:

- a. The party who referred the dispute to the Board shall present first, followed by the other party.
 - b. To assure each party a full and adequate opportunity to present their position, both parties shall be allowed successive rebuttals and to rebut the opposing party's position until, in the Board's opinion, all aspects of the dispute have been fully and fairly covered.
 - c. The Board shall be fully prepared to, and may at any time, ask questions, request clarifications, or ask for additional data, documents, and/or job records.
 - d. Either party may request that the Board direct a question to, or request a clarification from the other party. The Board shall determine at what point in the proceedings such requests may be made and if they will be granted. In general, the Board will not allow one party to be questioned directly by the other party.
 - e. In difficult or complex cases, additional hearings may be necessary to facilitate full consideration and understanding of the dispute.
 - f. The Board, in its discretion, may allow introduction of arguments, exhibits, handouts, or documentary evidence that were not included in that party's prehearing position paper or rebuttal and have not been previously submitted to the other party. In such cases the other party will be granted time to review and prepare a rebuttal to the new material, which may require a continuation of the hearing.
5. After the hearing is concluded, the Board shall meet in private and reach a conclusion supported by two or more members. Its findings and recommendations, together with its reasons shall then be submitted as a written report to both parties. The recommendations shall be based on the pertinent Contract provisions, facts, and circumstances involved in the dispute. The Contract shall be interpreted and construed in accordance with the laws of the State of Washington.

Failure to Prepare a Pre-Hearing Submittal or Attend a Hearing

In the event that either party fails to deliver a pre-hearing submittal by the date established by the Board, the Board shall, at its discretion, determine whether the hearing shall proceed as originally scheduled, or allow additional time for the submittal and/or reschedule the hearing. On the final date and time

1 established for the hearing, the Board shall proceed with the
2 hearing utilizing the information that has been submitted.
3

4 In the event that representatives of either the Contracting Agency
5 or the Contractor fail to appear at the appointed time of a hearing,
6 the Board shall postpone the hearing until such time as
7 representatives from both parties are available to proceed with the
8 hearing.
9

10 **Use of Outside Experts**

11 1. By the Contracting Agency or the Contractor:

- 12
- 13 a. A party intending to offer an outside expert's
14 analysis at the hearing shall notify the other party
15 and the Board in writing no less than 30 calendar
16 days prior to the due date for delivering the pre-
17 hearing submittal, and provide the following
18 disclosure:
19
 - 20 i. The expert's name and a general statement
21 of the area of the dispute that will be
22 covered by his or her testimony.
 - 23
 - 24 ii. A statement prepared by the proposed
25 expert which addresses the requirements of
26 the Establishment of the Board subsection
27 of this Special Provision, item 2.
 - 28 iii. A statement prepared by the proposed
29 expert which identifies the experience and
30 training which qualifies them as an expert.
- 31
- 32 b. Upon receipt of the disclosure, the other party shall
33 have the opportunity to secure the services of an
34 outside expert to address or respond to those
35 issues that may be raised by the other party's
36 outside expert. The notification and disclosure
37 requirement shall be the same as that specified
38 elsewhere in this section, except the time
39 requirement is 21 calendar days.
40

41 2. By the Board:

- 42
- 43 a. When requested by the Board and subject to
44 approval of the parties, outside experts may be
45 needed to assist the Board. In such cases, the
46 outside expert shall in no way be deemed
47 authorized to usurp the Board's authority to issue
48 the Board recommendations. Such authority shall
49 remain vested solely in the Board.
50

- 1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
- b. Prior to arranging for outside experts, the Board shall obtain prior approval from the Contracting Agency and the Contractor by providing:
 - i. A statement explaining why the expert assistance is needed.
 - ii. An estimate of the cost of the expert assistance.
 - iii. The expert's name and a general statement of the area of expertise they will provide.
 - iv. A statement prepared by the proposed expert which addresses the requirements of the Establishment of the Board subsection of this Special Provision, item 2.
 - v. A statement prepared by the proposed expert which identifies the experience and training which qualifies them as an expert.
 - vi. A confidentiality statement, consistent with the confidentiality obligations of the Board described in the Three Party Agreement, executed by the proposed expert.

28 **Disputes Review Board Report**

29 The Board's recommendations shall be formalized in a written
30 report signed by all Board members. The recommendations shall
31 be based on the Contract Provisions and the facts and
32 circumstances involved in the dispute. The report should include a
33 description of the dispute, statements of each party's position,
34 findings as to the facts of the dispute, discussion and rationale for
35 the recommendation(s), and the recommendation(s). The report
36 shall be submitted concurrently to the parties, as soon as possible
37 after completion of the hearing as agreed by all parties.
38

39 Either party may request clarification of a report within 14 calendar
40 days following receipt of the report. Within a reasonable period of
41 time, the Board shall provide written clarification to both parties.
42 Requests for clarification shall be submitted in writing
43 simultaneously to the Board and the other party.
44

45 Either party may request reconsideration of a report, provided:

- 46
47
48
49
50
51
1. The request is made within 14 calendar days following receipt of the report, and
 2. New information is obtained or developed that was not known at the time of the hearing or, in the party's opinion,

1 the Board misunderstood or failed to consider pertinent
2 facts of the dispute.
3

4 Requests for reconsideration shall be submitted in writing
5 simultaneously to the Board and the other party. The Board shall
6 give the party not requesting reconsideration the option of
7 submitting a rebuttal to any information that is the basis of the
8 request for reconsideration. The Board shall provide a written
9 response to the request for reconsideration.
10

11 **Acceptance of Disputes Review Board Recommendations**

12 Within 30 calendar days of receiving the Board's report, or within
13 14 calendar days of receiving the Board's written clarification
14 and/or reconsideration, both the Contracting Agency and the
15 Contractor shall respond to the other in writing signifying that the
16 dispute is either resolved or remains unresolved. Although both
17 parties should place weight upon the Board recommendations, the
18 recommendations are not binding.
19

20 If the Board's assistance does not lead to resolution of the
21 dispute, the Contractor must file a claim according to Section 1-
22 09.11(2) before seeking any form of judicial relief.
23

24 In the event the Board's recommendations do not lead to
25 resolution of the dispute, the Board's recommendation consisting
26 solely of the Board's written report and any written minority
27 reports, along with the Board's written clarifications and written
28 responses to requests for reconsideration, if any, will be
29 admissible in any subsequent dispute resolution proceedings
30 including, but not limited to litigation/arbitration. The
31 aforementioned list of documentation shall be considered all
32 inclusive.
33

34 **Payment for the Disputes Review Board**

35 The Contracting Agency and Contractor shall share equally in the cost of
36 the Board's services and all operating expenses of the Board. The Board
37 members' compensation shall be in accordance with the Three Party
38 Agreement. After the Contractor and Contracting Agency review invoices
39 from the Board and other operating expenses of the Board, the
40 Contractor shall make full payment for all Board members and Board
41 operating expenses. The Contracting Agency will reimburse the
42 Contractor for fifty percent of such payments, under the pay item
43 "Disputes Review Board".
44

45 The Contractor and the Contracting Agency shall equally bear the cost of
46 the services of the outside expert hired to advise the Board. Outside
47 experts hired to advise the Board shall Contract directly with the
48 Contractor after concurrence from the Board and approval from the
49 Contracting Agency. Invoices for these services shall be submitted by the
50 expert to both the Contractor and Contracting Agency for approval by
51 both parties. The Contractor shall pay approved invoices in full, and the

1 Contracting Agency will reimburse the Contractor for fifty percent of such
2 payments, under the Bid item "Disputes Review Board".

3
4 The cost for securing outside expert services for the Contracting Agency
5 or the Contractor shall be borne by the party securing such services.
6

7 The Contracting Agency will provide administrative services, such as
8 conference facilities and copying services, to the Board and the
9 Contracting Agency will bear the costs for these services.
10

11 **Indemnification of Disputes Review Board Members**

12 The Contracting Agency and Contractor shall indemnify and hold
13 harmless the Board members from and against all claims, damages,
14 losses and expenses, including but not limited to attorney's fees arising
15 out of and resulting from the actions and recommendations of the Board.
16

17 **1-09.13(3)A Administration of Arbitration**
18 **(November 30, 2018 APWA GSP)**
19

20 *Revise the third paragraph to read:*
21

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

31
32 **END OF SECTION**
33

1 **1-10 TEMPORARY TRAFFIC CONTROL**

2
3 **Traffic Control Management**

4 **1-10.2(1) General**

5 **(January 3, 2017)**

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

7
8 Only training with WSDOT TCS card and WSDOT training curriculum is recognized in
9 the State of Washington. The Traffic Control Supervisor shall be certified by one of the
10 following:

11
12 The Northwest Laborers-Employers Training Trust
13 27055 Ohio Ave.
14 Kingston, WA 98346
15 (360) 297-3035

16
17 Evergreen Safety Council
18 12545 135th Ave. NE
19 Kirkland, WA 98034-8709
20 1-800-521-0778

21
22 The American Traffic Safety Services Association
23 15 Riverside Parkway, Suite 100
24 Fredericksburg, Virginia 22406-1022
25 Training Dept. Toll Free (877) 642-4637
26 Phone: (540) 368-1701

27
28 **1-10.3(2) Traffic Control Procedures**

29 *Section 1-10.3(2) is supplemented with the following:*

30
31 **1-10.3(2)F Pedestrian Accommodation**

32 **(*****)**

33
34 The Contractor shall accommodate pedestrians and bicyclists through the work zones.

35
36 All pedestrian paths shall comply with the Proposed Accessibility Guidelines for
37 Pedestrian Facilities in the Public Right-of-Way (PROWAG), as well as the City's Traffic
38 Control Handbook. Pedestrian paths shall be a minimum of 5 feet wide and shall be
39 maintained at all times by the Contractor. Pedestrian path materials and maintenance
40 shall be as accepted by the City. Other conditions in Appendix F shall apply, where
41 applicable.

42
43 Due to potential concurrent construction operations with BNSF crews, the limited
44 space/right-of-way at each rail crossing, multiple driveway BNSF ROW access points,
45 etc., the Contractor shall accommodate pedestrian travel by locating, relocating,
46 restoring and maintaining pedestrian paths to accommodate all construction activity, as
47 needed, throughout the work. All pedestrian plans, including updates, shall be submitted
48 to the City for review.

1 **1-10.3(2)G Emergency Communication Plan**

2 **(*****)**

3
4 Due to the work being at rail crossings that border residential and commercial areas
5 where emergency access could be limited due to train blockage and/or construction
6 operations, the Contractor shall participate in the project's emergency communication
7 procedures to assure that emergency vehicles have uninterrupted access through the
8 project work zone during an emergency.
9

10 A Draft Communication Flow Chart is included as Appendix G of these Special
11 Provisions. At the Pre-Construction meeting and at the onsite utility meeting with BNSF,
12 the Contractor shall discuss planned construction operations with BNSF and City
13 representatives, and shall provide comment and contact information for the flow chart.
14 The flow chart will be updated by the City and shall be readily available in the field for
15 the Contractor to utilize in case of emergency.
16

17 **1-10.3(3) Traffic Control Devices**

18 *Section 1-10.3(3) is supplemented with the following:*
19

20 **1-10.3(3)C Portable Changeable Message Sign**

21 **(*****)**

22
23 *This section is supplemented with the following:*
24

25 Portable Changeable Message Signs shall be required on 6th Avenue and South 19th
26 Street where construction occurs for durations longer than seven (7) calendar days.
27 Signs shall be updated daily and/or as needed to inform the traveling public and
28 businesses of the pending work and updated information as the work progresses. Signs
29 shall be solar charged and programmable. Signs shall be provided a minimum of seven
30 (7) calendar days prior to construction and remain throughout the duration of the work.
31

32 To prevent hacker from getting access to the Portable Change Message Signs (PCMS),
33 the contractor is required to change the default password and to take other appropriate
34 measures for field access to message control features on the PCMS. In addition, the
35 contractor shall verify the PCMS control box, if any, is secured and locked from
36 tampering during the daily review of the work zone set up and conditions of the traffic
37 control devices.
38

39 **1-10.4 Measurement**

40
41 **1-10.4(3) Reinstating Unit Items With Lump Sum Traffic Control**

42 *Section 1-10.4(3) is supplemented with the following:*
43

44 **(August 2, 2004)**

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

49 ***

50 Pedestrian Accommodation

51
52 Emergency Communication Plan

53 ***
54

1 **1-10.5 Payment**

2
3 **1-10.5(2) Item Bids with Lump Sum for Incidentals**

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

5 *This section is supplemented with the following:*

6
7 "Pedestrian Accommodation", lump sum.

8
9 The unit Contract price for "Pedestrian Accommodation", shall be full pay to provide,
10 maintain and remove/restore pedestrian paths, the required signs and labor, including
11 installing and resetting associated devices, surface materials, etc., throughout the duration
12 of the entire project.

13
14 "Emergency Communication Plan", lump sum.

15
16 The unit Contract price for "Emergency Communication Plan", shall be full pay to
17 participate in the plan's development, its updates throughout the work, and to implement
18 the Emergency Communication Plan throughout the duration of the entire project.

19
20 **END OF SECTION**

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP
(March 17, 2016 Tacoma GSP)

2-01.1 Description

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

The Contractor shall clear, grub, and cleanup those areas within 2-feet behind the back proposed back of curb or sidewalk.

This section is supplemented with the following:

Trees, stumps, shrubs, and brush located outside the Clearing & Grubbing limits shall be considered as part of "Clearing and Grubbing" when identified for removal on the Plans.

2-01.2 Disposal of Usable Material and Debris

The second paragraph is revised to read:

The Contractor shall dispose of all debris in accordance with Section 2-01.2(2).

2-01.3(1) Clearing

This section is revised to read:

1. Fell trees only within the area to be cleared.
2. Close-cut parallel to the slope of the ground all stumps to be left in the cleared area outside the slope stakes.
3. Close cut all stumps that will be buried by fills 5-feet or less in depth.
4. Follow these requirements for all stumps that will be buried by fills deeper than 5-feet from the top, side, or end surface of the embankment or any structure and are in a location that will not be terraced as described in Section 2-03.3(14):
 - a. Close-cut stumps under 18-inches in diameter.
 - b. Trim stumps that exceed 18-inches in diameter to no more than 12- inches above original ground level.
5. Leave standing any trees or native growth indicated by the Engineer.
6. Trim all trees to be left standing to the height specified by the Engineer, with a minimum height of eight (8) feet above sidewalk and fourteen (14) feet above the roadway surface. Neatly cut all limbs close to the tree trunk.
7. Thin clumps of native growth as the Engineer may direct.
8. Protect, by fencing if necessary, all trees or native growth from any damage caused by construction operations.

2-01.3(2) Grubbing

Item e is revised to read:

Upon which embankments will be placed, except stumps may be close-cut or trimmed as allowed in Section 2-01.3(1) item 4.

END OF SECTION

1 **2-03 ROADWAY EXCAVATION AND EMBANKMENT**
2 **(August 14, 2019 Tacoma GSP)**

3
4 **2-03.1 Description**

5 *The last sentence of the first paragraph is deleted.*
6

7 **2-03.3 Construction Requirements**
8

9 **2-03.3(5) Slope Treatment**

10 *This section is deleted.*
11

12 **2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters**

13 *This section is deleted.*
14

15 **2-03.5 Payment**

16 *The pay item "Gravel Borrow, Incl. Haul" is revised to read:*
17

18 "Gravel Borrow, Incl. Haul", per cubic yard.
19

20 The unit Contract price per cubic yard for "Gravel Borrow, Incl. Haul" shall be full pay for
21 all material, labor, and equipment to furnish, place, and compact the material.
22

23 **END OF SECTION**
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **2-06 SUBGRADE PREPARATION**
2 **(September 20, 2018 Tacoma GSP)**

3
4 **2-06.3 Construction Requirements**

5 *This section is supplemented with the following:*

6
7 **Subgrade Repair for Subgrade Not Constructed Under Same Contract**

8 Upon removal of pavement, the Contractor and City Inspector shall walk the subgrade
9 surface to determine and delineate any subgrade areas that need to be repaired. Any
10 Subgrade areas that require repair, from the initial walkthrough, shall be determined
11 solely by the City Inspector. Any initial subgrade repairs shall be paid for according to
12 Section 2-06.5(2). Subgrade repair shall be performed in accordance with Section 2-0
13 and immediately after it has been determined and delineated. In order to minimize
14 damage to the subgrade, the Contractor is encouraged to minimize pavement removal
15 during the work.

16
17 **Subgrade Maintenance and Protection**

18 Immediately after the contractor constructs the subgrade or completes initial subgrade
19 repair to the City's satisfaction, the contractor shall maintain and protect the subgrade.
20 Any defects or damage of the subgrade thereafter shall be repaired or replaced
21 according to Section 2-06, at the Contractor's expense before placement of any
22 succeeding courses or pavement. Maintenance and protection of the subgrade shall be
23 the responsibility of the Contractor. The Contractor shall be required to take
24 precautionary measures to prevent damage by heavy loads or equipment, as well as
25 from inclement weather.

26
27 The Contractor and City Inspector should walk the exposed subgrade on a daily basis to
28 determine if there is damage to the subgrade. Any Subgrade areas that require repair
29 according to this section shall be determined solely by the City Inspector.

30
31 **2-06.5 Measurement and Payment**

32 *This section is supplemented with the following:*

33
34 Subgrade Maintenance and Protection shall be paid by lump sum and shall apply to all
35 subgrade.

36
37 "Subgrade Maintenance and Protection", per lump sum

38
39 The lump sum price for "Subgrade Maintenance and Protection" shall be full pay for all
40 material, labor, and equipment for implementation of subgrade maintenance and
41 protection, as determined by the City Inspector.

42
43 If the contractor fails to protect the subgrade so that additional subgrade repairs are
44 required as determined by the City Inspector, then the city shall not owe payment for
45 these additional subgrade repairs in accordance with Section 2-06.3.

46
47 **2-06.5(2) Subgrade Not Constructed Under Same Contract**

48 *Item 5 under this section is deleted.*

49
50 **END OF SECTION**
51

1 **2-07 WATERING**
2 **(August 3, 2009 Tacoma GSP)**
3

4 **2-07.3 Construction Requirements**

5 *The last sentence of the first paragraph is revised to read:*
6

7 The Engineer may direct that the Contractor apply water during non-working hours such
8 as evenings, weekends, or recognized holidays.
9

10 *Section 2-07.3 is supplemented with the following:*
11

12 **2-07.3(1) Water Supplied from Hydrants**
13

14 There is no guarantee that all fire hydrants will be available for use for cleaning, lining, or
15 any other construction activities associated with this project. Prior to construction
16 activities, it shall be the Contractor's responsibility to verify which hydrants will be
17 available by contacting Tacoma Water. The Contractor shall use only those hydrants
18 designated by Tacoma Water.
19

20 Water supplied from hydrants governed by Tacoma Water shall be used in strict
21 compliance with the "Operating Procedures for the use of Water Division Hydrants"
22 available at the Tacoma Water Permit Counter.
23

24 The Contractor shall obtain a Hydrant Permit prior to start of work by contacting the
25 Water Permit Counter at (253) 502-8247, 2nd floor, Tacoma Public Utilities,
26 Administrative Building, 3628 South 35th Street, Tacoma, WA 98409. A copy of the
27 approved Hydrant Permit shall be submitted to the Engineer.
28

29 Contractor personnel shall be in possession of a valid Tacoma Public Utilities Hydrant
30 Certification Card prior to obtaining a permit. If necessary, contractor personnel shall
31 undergo training to receive the required certification. Contact the Water Permit Counter
32 to set up training as necessary.
33

34 **END OF SECTION**
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **2-09 STRUCTURE EXCAVATION**
2 **(March 17, 2016 Tacoma GSP)**

3
4 **2-09.4 Measurement**

5 *This section is supplemented with the following:*

6
7 **Longitudinal Limits.** For all storm and sanitary sewers the longitudinal measurement
8 will be from center of manhole to center of manhole or to the inside face of catch basins
9 and similar type structures.

10
11 *The fourth paragraph is revised to read:*

12
13 There will be no specific unit of measure for the excavation required for manholes, catch
14 basins, grate inlets, and drop inlets.

15
16 **2-09.5 Payment**

17 *The pay item for "Structure Excavation Class B", is revised to read:*

18
19 "Structure Excavation Class B", per cubic yard.

20
21 The unit Contract price for "Structure Excavation Class B" shall be full payment for all
22 excavation, removal of water; storing, protecting and re-handling of suitable backfill
23 material; backfilling of the trench, compaction of backfill, and all other work necessary for
24 the construction of the sewer trench.

25
26 **END OF SECTION**
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **2-14 PAVEMENT REMOVAL**
2 **(March 17, 2003 Tacoma GSP)**

3
4 **2-14.1 Description**

5
6 The Work described in this section includes the removal and disposal of pavement
7 surfaces identified on the Plans or as marked in the field.
8

9 **2-14.2 Pavement Classification**

10
11 Removal of pavement will be according to type and class based on composition and
12 thickness, as defined below:
13

14 **Type I** Pavement removal where all or portions of the existing pavement is
15 being removed in conjunction with street construction or any other
16 removal not described below for Type II or Type III.
17

18 **Type II** Pavement removal required for the placing of utilities at greater and
19 varying depths, such as sewers.
20

21 **Type III** Pavement removal required for narrow and shallow utility cuts in order
22 to install light cables, conduits and similar shallow utilities.
23

24 **Class A2** Class A2 pavement removal shall apply to the removal of asphalt
25 concrete, bituminous road surfacing, multiple lift bituminous surface
26 treatments or any combination of these components having an
27 average thickness of two inches or less.
28

29 **Class A4** Class A4 pavement removal shall apply to the removal of asphalt
30 concrete, bituminous road surfacing, multiple lift bituminous surface
31 treatments or any combination of these components having an
32 average thickness between two inches and four inches.
33

34 **Class A8** Class A8 pavement removal shall apply to the removal of asphalt
35 concrete, bituminous road surfacing, multiple lift bituminous surface
36 treatments or any combination of these components having an
37 average thickness between four inches and eight inches.
38

39 **Class C6** Class C6 pavement removal shall apply to all non-reinforced cement
40 concrete pavements or slabs having an average thickness of six
41 inches or less. After the curbs and pavement have been constructed,
42 the Contractor may be required to remove additional sidewalk
43 necessary to provide proper connections and grades, as determined
44 by the Engineer.
45

46 **Class C12** Class C12 pavement removal shall apply to all non-reinforced cement
47 concrete pavements or slabs having an average thickness of between
48 6 inches and 12 inches.
49
50
51

1 **Class CA** Class CA pavement removal shall apply to all pavements that have a
2 wearing surface of asphalt concrete upon a cement concrete pavement or, cement
3 concrete base, and for which the total combined thickness of the pavement averages
4 between six inches and twelve inches.

5
6 **Class H** Class H pavement removal shall apply to early type pavement of a
7 cement concrete base with a brick or cobblestone surface and
8 potentially an additional layer of asphalt concrete pavement for which
9 the total combined thickness of the pavement averages between ten
10 inches and twenty inches.

11 **2-14.3 Construction Requirements**

12
13
14 All final meetlines shall be sawcut.

15
16 Where monolithic cement concrete pavement and curb are being removed, the curb
17 removal shall be considered as pavement removal, and the measurement for payment
18 will be to the back of the curb.

19
20 The removal of existing street improvements shall be conducted in such a manner as not
21 to damage utilities and any portion of the improvement that is to remain in place. Any
22 deviation in this matter will obligate the Contractor, at no expense to the Contracting
23 Agency, to repair, replace, or otherwise make proper restoration to the satisfaction of the
24 Engineer.

25
26 In the event a pavement averages more than the maximum thickness specified for its
27 class, an additional payment will be made to cover the extra thickness removed by a
28 proportional conversion into additional square yards.

29 **2-14.4 Measurement**

30
31
32 Pavement removal will be measured per square yard.

33
34 Type I pavement removal will be measured in its original position through the use of
35 survey techniques.

36 **2-14.5 Payment**

37
38
39 Payment will be made in accordance with Section 1-04.1.

40
41 "Remove Existing Pavement, Type ____ Class____", per square yard

42
43 All costs associated with saw cutting meet lines shall be included in the unit Contract
44 price for pavement removal.

45
46 **END OF SECTION**
47
48
49
50
51

1 **2-15 CURB AND CURB AND GUTTER REMOVAL**
2 **(March 17, 2003 Tacoma GSP)**
3

4 **2-15.1 Description**
5

6 The Work described in this section includes the complete removal and disposal of curbs
7 and curb and gutter identified on the Plans or as marked in the field.
8

9 **2-15.2 Curb Classification**
10

11 Removal of curb and/or curb and gutter will be based on composition, as defined below:
12

13 **Integral Curb** - Integral curb shall consist of curb that is constructed monolithic with the
14 adjacent cement concrete pavement.
15

16 **Curb** - Curb may consist of cement concrete curb, granite curb, or any other
17 combination of rigid material that extends below the pavement surface elevation.
18

19 **Extruded/Precast Curb** - Extruded or precast curb may consist of asphalt or concrete
20 extruded or precast curb that is installed on a pavement surface.
21

22 **Curb and Gutter** - Curb and gutter may be cement concrete, or a cement concrete curb
23 with a brick gutter on a cement concrete base, or other combination of rigid material.
24

25 **2-15.3 Construction Requirements**
26

27 Integral curb removal shall consist of the removal of the curb and the integral base section
28 under the curb. The removal shall be accomplished by sawcutting along the face of the curb.
29

30 The removal of the curb and/or curb and gutter shall be conducted in such a manner as not
31 to damage utilities and any portion of the improvement that is to remain in place. Any
32 deviation in this matter will obligate the Contractor, at no expense to the Contracting Agency,
33 to repair, replace, or otherwise make proper restoration to the satisfaction of the Engineer.
34

35 **2-15.4 Measurement**
36

37 Curb and curb and gutter removal will be measured per linear foot.
38

39 **2-15.5 Payment**
40

41 Payment will be made in accordance with Section 1-04.1.
42

43 "_____ Remove Integral Curb", per linear foot
44

45 "Remove Curb", per linear foot
46

47 "Remove Extruded/Precast Curb", per linear foot
48

49 "Remove Curb and Gutter", per linear foot
50

51 All costs associated with saw cutting necessary for the removal of curb and/or curb and
52 gutter shall be included in the unit Contract price for removal.
53

54 **END OF SECTION**
55

1 **3-04 ACCEPTANCE OF AGGREGATE**
2 **(April 1, 2012 Tacoma GSP)**

3
4 **3-04.1 Description**

5 *The first and third paragraphs are deleted.*

6
7 *The fourth paragraph is revised to read:*

8
9 Nonstatistical evaluation will be used for the acceptance of aggregate materials.

10
11 **3-04.3(1) General**

12 *The first sentence is revised to read:*

13
14 For the purpose of acceptance sampling and testing, all test results obtained for a
15 material type will be evaluated collectively.

16
17 **3-04.3(4) Testing Results**

18 *This section is replaced with the following:*

19
20 The results of all acceptance testing will be provided by the City's Project Engineer
21 within 3 working day of testing.

22
23 **3-04.3(6) Statistical Evaluation**

24 *This section is deleted:*

25
26 **END OF SECTION**
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 Supplement Division 4 with the following new section:

2
3 **4-06 ASPHALT TREATED BASE (ATB)**
4 **(June 16, 2016 Tacoma GSP)**

5
6 **4-06.1 Description**
7

8 Asphalt treated base (ATB) consists of a compacted course of base material which has
9 been weatherproofed and stabilized by treatment with an asphalt binder.

10
11 The Work shall consist of one or more courses of asphalt treated base placed on the
12 Subgrade in accordance with these Specifications and in conformity with the lines,
13 grades, thicknesses, and typical cross-sections shown in the Plans or as staked.
14

15 **4-06.2 Materials**
16

17 Materials shall meet the requirements of the following sections:

18
19 Asphalt 9-02.1

20 Anti-Stripping Additive 9-02.4

21 Aggregates 9-03.6
22

23 The grade of paving asphalt shall be as required in the Contract.
24

25 **4-06.3 Construction Requirements**
26

27 **4-06.3(1) Asphalt Mixing Plant**
28

29 Asphalt mixing plants for asphalt treated base shall meet the following requirements:
30

31 **Heating**

32 The plant shall be capable of heating the aggregates to the required temperature.
33

34 **Proportioning**

35 The mixing plant shall be capable of proportioning: the aggregates to meet the
36 Specifications, and the asphalt binder will be introduced at the rate specified in the
37 approved mix design. If the aggregates are supplied in two or more sizes, means shall
38 be provided for proportioning or blending the different sizes of aggregates to produce
39 material meeting the Specification requirements.
40

41 Recycled asphalt pavement (RAP) may be used in the production of ATB. If utilized, the
42 amount of RAP shall not exceed 30 percent of the total weight of the ATB. The final
43 gradation and asphalt binder content will conform to the approved Job Mix Formula
44 (JMF). ATB will be evaluated under Commercial Evaluation as shown in section 9-
45 03.8(7). Va limits under 9-03.8(7) are excluded from ATB evaluation criteria.
46

47 **Mixing**

48 The mixer shall be capable of producing a uniform mixture of uniformly coated
49 aggregates meeting the requirements of these Specifications.
50
51

1 **4-06.3(2) Preparation of Aggregates**

2
3 Aggregates for asphalt treated base shall be stockpiled before use in accordance with
4 the requirements of Section 3-02.

5
6 The aggregates shall be heated as required by the Engineer.
7

8 **4-06.3(2)A Mix Design**

9
10 The mix design requirements for asphalt treated base shall be as described in Section 9-
11 03.6(3). Ndesign will be 100 gyrations for all ATB design applications. The asphalt
12 binder shall be PG 64-22 unless specifically altered in the project specifications. The
13 proposed mix design will be submitted for review on WSDOT Form 350-042 with
14 included notes applicable to the ATB design evaluation.
15

16 **4-06.3(3) Vacant**

17
18 **4-06.3(4) Mixing**

19
20 The asphalt treated base shall be mixed in accordance with the requirements of Section
21 5-04.3(8).
22

23 **4-06.3(5) Hauling Equipment**

24
25 Hauling equipment for asphalt treated base shall conform to the requirements of Section
26 5-04.3(2).
27

28 **4-06.3(6) Spreading and Finishing**

29
30 Asphalt treated base shall be spread with a spreading machine equipped with a
31 stationary, vibratory, or oscillating screed or cut-off device, subject to the approval of the
32 Engineer. Approval of the equipment shall be based on a job demonstration that the
33 finished product will meet all requirements of the Specifications. Automatic controls will
34 not be required. Unless otherwise directed by the Engineer, the nominal compacted
35 depth of any ATB layer shall not exceed 0.40 feet. On areas where irregularities or
36 unavoidable obstacles make the use of mechanical spreading and finishing equipment
37 impractical, the paving may be done with other equipment or by hand.
38

39 The internal temperature of the ATB mixture at the time compaction is achieved shall be
40 a minimum of 185°F. Rollers shall only be operated in the static mode when the internal
41 temperature of the mix is less than 175°F.
42

43 **4-06.3(6)A Subgrade Protection Course**

44
45 Unless otherwise specified by the Engineer, the Contractor shall place the asphalt
46 treated base as a protection for the prepared Subgrade on all sections of individual
47 Roadways which are to receive asphalt treated base as soon as 10,000 square yards of
48 Subgrade is completed. This requirement shall not be limited to contiguous areas on
49 the project.
50
51

1 The surface of the Subgrade protection 1 layer when constructed on a grading project
2 shall conform to grade and smoothness requirements that apply to the Subgrade upon
3 which it is placed.

4 5 **4-06.3(6)B Finish Course**

6
7 The final surface course of the asphalt treated base, excluding Shoulders, shall not
8 deviate at any point more than $\frac{3}{8}$ inch from the bottom of a 10-foot straightedge laid in
9 any direction on the surface on either side of the Roadway crown. Failure to meet this
10 requirement shall necessitate sufficient surface correction to achieve the required
11 tolerance, as approved by the Engineer, at no expense to the Contracting Agency.

12
13 When portland cement concrete pavement is placed on an asphalt base, the surface
14 tolerance of the asphalt base shall be such that no elevation lies more than 0.05 feet
15 below nor 0.00 feet above the plan grade minus the specified plan depth of portland
16 cement concrete pavement. Prior to placing the portland cement concrete pavement,
17 any such irregularities shall be brought to the required tolerance by grinding or other
18 means approved by the Engineer, at no expense to the Contracting Agency.

19 20 **4-06.3(7) Density**

21
22 The asphalt treated base shall be compacted to a density of not less than 80% percent
23 of the maximum theoretical density established for the mix by WSDOT FOP for AASHTO
24 T 209. The density of the base shall be determined by means of tests on cores taken
25 from the Roadway or with the nuclear gauge in accordance with Section 5-04.3(10)B.
26 The frequency of these tests shall be at the discretion of the Engineer, but in no case
27 shall it be less than one control lot for each normal day's production. The use of
28 equipment which results in damage to the materials or produces substandard
29 workmanship will not be permitted.

30 31 **4-06.3(8) Anti-Stripping Additive**

32
33 An anti-stripping additive shall be added to the asphalt binder material in accordance
34 with Section 9-02.4 in the amount designated in a WSDOT mix design/anti-strip
35 evaluation report for a dense graded hot mix asphalt design from the same gravel
36 source within the last 24 months or as evaluated separately by an accredited lab using
37 current WSDOT test methods (AASHTO T324 – Hamburg or WSDOT TM T718 –
38 Modified Lottman). Alternately, the ATB may be evaluated for anti-strip additive using
39 ASTM D3625 (Standard Practice for Effect of Water on Bituminous-Coated Aggregate
40 Using Boiling Water) by an accredited lab. The anti-stripping additive required will be
41 the minimum amount necessary to achieve a passing evaluation.

42 43 **4-06.4 Measurement**

44
45 Asphalt treated base including paving asphalt will be measured by the ton.

46
47 No specific unit of measure will apply to Anti-Stripping Additive, which shall be included
48 in the measurements for the HMA items that are included in the Bid Proposal.

1 **4-06.5 Payment**

2
3 Payment will be made in accordance with Section 1-04.1, for each of the following Bid
4 items that are included in the Proposal:

5
6 "Asphalt Treated Base, PG __", per ton.
7

8 The unit Contract price per ton for "Asphalt Treated Base, PG __" shall be full payment
9 for all costs incurred to carry out the requirements of Section 4-06 in accordance with the
10 Contract, including coring and testing, and shall include anti-stripping additive.
11

12 **END OF SECTION**
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **5-02 BITUMINOUS SURFACE TREATMENT**
2 **(March 3, 2008 Tacoma GSP)**

3
4 **5-02.3(1) Equipment**

5
6 *The third sentence of the third paragraph is revised to read:*

7
8 Each roller shall not weigh less than 8-tons and shall be capable of providing constant
9 contact pressure.

10
11 **END OF SECTION**
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **5-04 HOT MIX ASPHALT**

2 **(April 1, 2018 Tacoma GSP)**

3 *This Section is revised according to the following overriding provisions:*

4
5 Nonstatistical or test point evaluation shall be the method for HMA compaction
6 acceptance for all HMA pavement, except where visual or commercial evaluation is
7 specified. Visual evaluation shall be considered synonymous with commercial
8 evaluation. The Contracting Agency will not be required to perform any acceptance by
9 statistical evaluation.

10
11 All references to “statistical” are revised to read “nonstatistical”, and “nonstatistical”
12 evaluation shall be considered synonymous with “test point” evaluation. Thus, all
13 Specifications for test procedures, methods, construction requirements, and
14 requirements for evaluation and acceptance shall apply to the Work with the following
15 exceptions:

- 16 • The Contracting Agency shall not be required to perform statistical analysis of
17 any acceptance test results.
- 18 • Quantities for sublots and lots shall be as determined by the Engineer. If test
19 results are found not to be within specification requirements, additional testing
20 as needed to determine a CPF may be performed.
- 21 • The Contracting Agency shall not be required to make price adjustments based
22 on pay factors and composite pay factors.

23
24 **5-04.2 Materials**

25
26 **5-04.2(1) How to Get an HMA Mix Design on the QPL**

27 **(April 1, 2018 Tacoma GSP)**

28 *For Subsection 5-04.2(1) the term “Contracting Agency” is revised to read “WSDOT”.*

29
30 **5-04.2(2) Mix Design – Obtaining Project Approval**

31 **(April 1, 2018 Tacoma GSP)**

32 *This section is revised to read:*

33
34 The Contactor shall submit each HMA mix design to the Contracting Agency on WSDOT
35 Form 350-042. The Contractor shall provide a mix design based upon 3 million ESAL's.

36
37 No paving shall begin prior to the HMA mix design acceptance by the Engineer for the
38 Job Mix Formula (JMF) that will be used for the same paving. The Contracting Agency
39 will evaluate HMA mix design submittals according to Visual Evaluation per Table 1.
40 The mix design will be the initial JMF for the class of HMA. The Contractor may request
41 a change in the JMF. Any adjustments to the JMF will require the approval of the
42 Project Engineer and must be made in accordance with Section 9-03.8(7).

43
44 Mix designs for HMA shall have the aggregate structure and asphalt binder content
45 determined in accordance with WSDOT Standard Operating Procedure 732 and meet
46 the requirements of Sections 9-03.8(2) and 9-03.8(6). The Contractor shall determine
47 anti-strip additive requirements for the HMA and submit laboratory test data for anti
48 stripping and rutting in accordance with the following options:

- 49 • Hamburg Wheel track Test and Section 9-03.8(2), or
- 50 • Tensile Strength Ratio (TSR) Test per AASHTO T 283, or

- Previous WSDOT Lab mix design verification test data and stripping evaluation, per the Engineer's discretion and as stated below.
- With the HMA mix design submittal the Contractor shall provide one of the following mix design verification certifications for Contracting Agency review:
 - The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below.
 - The proposed HMA mix design on WSDOT Form 350-042 with the seal and certification (stamp & signature) of a valid licensed Washington State Professional Engineer.**
 - The Mix Design Report for the proposed HMA mix design developed by a qualified City or County laboratory that is within one year of the approval date.**

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

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

For the use of Commercial HMA, the Contractor shall select a class of HMA and design level of Equivalent Single Axle Loads (ESAL's) appropriate for the required use. Commercial HMA can be accepted by a Contractor certificate of compliance letter stating the material meets the HMA requirements defined in the Contract.

5-04.2(2)B Using HMA Additives (April 1, 2018 Tacoma GSP)

This section is revised to read:

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 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 Construction Requirements

5-04.3(2) Paving Under Traffic (April 1, 2018 Tacoma GSP)

The second paragraph is supplemented with the following:

No traffic shall be allowed on any newly placed pavement without the approval of the Engineer.

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

2 **(April 1, 2018 Tacoma GSP)**

3 *The second paragraph is deleted.*

5 **5-04.3(3)D Material Transfer Device or Material Transfer Vehicle**

6 **(April 1, 2018 Tacoma GSP)**

7 *The first paragraph is revised to read:*

9 A Material Transfer Device/Vehicle (MTD/V) shall not be used unless specific paving
10 areas are specified below. A MTD/V shall only be used according to this special
11 provision for the following paving areas:

12
13 None

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

16 **(April 1, 2018 Tacoma GSP)**

17 *This section is revised to read:*

18
19 Pavement repair shall be in accordance with the City of Tacoma Right-of-Way
20 Restoration Policy found at:

21
22 https://www.cityoftacoma.org/government/city_departments/public_works/right-of-way

23
24 Pavement repair consists of asphalt concrete saw-cutting, removing asphalt concrete
25 pavement, removing crushed surfacing and subgrade, and installing Construction
26 Geotextile for Separation, placing crushed surfacing top course over the Construction
27 Geotextile, and HMA in accordance with the Contract or as directed by the Engineer.

28
29 Pavement repair excavation may also be performed by the use of a milling machine of a
30 type that has operated successfully on work comparable with that to be done under the
31 Contract and shall be approved by the Engineer prior to use. If a milling machine is
32 used for excavation, the excavation shall be as directed by the Engineer.

33
34 In all types of excavation, after the removal of the asphalt, the base material will be
35 evaluated by the Engineer to determine if it is suitable. If the base is determined not to
36 be suitable, the Contractor shall remove the base material and restore the sub-grade in
37 accordance with Section 2-06 and the Plans, regardless of the method used for
38 excavation.

39
40 Payment for pavement repair shall be by the unit Bid prices according to the Contract for
41 all materials, labor, and equipment required to complete the pavement repair. Items not
42 included in the Proposal shall be paid for according to Section 1-04.1(2).

44 **5-04.3(6) Mixing**

45 **(April 1, 2018 Tacoma GSP)**

46 *The first paragraph is revised to read:*

47
48 The asphalt supplier shall add anti-stripping additive to the liquid asphalt prior to
49 shipment to the asphalt mixing plant. The Contractor shall submit the anti-stripping
50 additive amount and the manufacturer's certification, together with the HMA mix design
51 submittal in accordance with Section 5-04.2. Paving shall not begin before the anti-
52 stripping additive submittal is accepted by the Engineer.

**5-04.3(9) HMA Mixture Acceptance
(April 1, 2018 Tacoma GSP)**

The first paragraph is revised to read:

The Contracting Agency will evaluate the HMA mixture by nonstatistical or visual evaluation as determined from the criteria in Table 7 or as determined by the Engineer.

**5-04.3(9)A Test Sections
(April 1, 2018 Tacoma GSP)**

The first paragraph is revised to read:

At the start of paving, if requested by the Contractor, a compaction test section shall be constructed as directed by the Engineer to determine the compactibility of the mix design. Compactibility shall be based on the ability of the mix to attain the specified minimum density (91 percent of the maximum density determined by WSDOT SOP 729, and FOP for AASHTO T 209).

Following determination of compactibility, the Contractor is responsible for the control of the compaction effort. If the Contractor does not request a test section, the mix will be considered compactible. See also Section 5-04.3(10)C2.

The Contractor shall also construct a test section when requested by the Engineer. Test sections that are in complete compliance with the requirements of Section 5-04 can be incorporated into the Work, and shall be included in the quantities for related Bid Items; otherwise, the Contractor shall remove the defective pavement in failed test sections as determined by the Engineer and at no cost to the Contracting Agency. The Contracting Agency will only pay for HMA pavement that is accepted and incorporated into the project at the discretion of the Engineer. See also Section 5-04.3(10)C2.

The second paragraph is revised to read:

The purpose of a test section is to determine whether or not the Contractor's mix design and production processes will produce HMA meeting the Contract requirements related to mixture. Construct HMA mixture test sections at the beginning of paving, using at least 100 tons and a maximum of 800 tons or as specified by the Engineer. Each test section shall be constructed in one continuous operation.

**5-04.3(9)B Mixture Acceptance – Statistical Evaluation
(April 1, 2018 Tacoma GSP)**

The title of this Section is revised to read:

5-04.3(9)B Mixture Acceptance – Nonstatistical Evaluation

**5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots
(April 1, 2018 Tacoma GSP)**

The title of this Section is revised to read:

5-04.3(9)B1 Mixture Nonstatistical Evaluation – Lots and Sublots

This Section is revised to read:

For HMA in a structural application, sampling and testing for total project quantities less than 400 tons is at the discretion of the engineer. For HMA used in a structural

1 application and with a total project quantity less than 800 tons but more than 400 tons, a
2 minimum of one acceptance test shall be performed:

3 i. If test results are found to be within specification requirements, additional
4 testing will be at the engineer's discretion.

5 ii. If test results are found not to be within specification requirements, additional
6 testing as needed to determine a CPF shall be performed.

7 iii. For a mixture lot in progress with a mixture CPF less than 0.75, a new
8 mixture lot will begin at the Contractor's request after the Engineer is satisfied
9 that material conforming to the Specifications can be produced. See also
10 Section 5-04.3(11)F.

11 iv. If, before completing a mixture lot, the Contractor requests a change to the
12 JMF which is approved by the Engineer, the mixture produced in that lot after
13 the approved change will be evaluated on the basis of the changed JMF, and
14 the mixture produced in that lot before the approved change will be evaluated
15 on the basis of the unchanged JMF; however, the mixture before and after
16 the change will be evaluated in the same lot. Acceptance of subsequent
17 mixture lots will be evaluated on the basis of the changed JMF.

18
19 **5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results**
20 **(April 1, 2018 Tacoma GSP)**

21 *The first and second paragraphs of this section are revised to read:*

22
23 The Contracting Agency will endeavor to provide written notification (via email to the
24 Contractor's designee) of acceptance test results within 24 hours of the sample being
25 made available to the Contracting Agency. However, the Contractor agrees:

26
27 1. Quality control, defined as the system used by the Contractor to monitor,
28 assess, and adjust its production processes to ensure that the final HMA
29 mixture will meet the specified level of quality, is the sole responsibility of the
30 Contractor.

31
32 2. The Contractor has no right to rely on any testing performed by the
33 Contracting Agency, nor does the Contractor have any right to rely on timely
34 notification by the Contracting Agency of the Contracting Agency's test
35 results (or statistical analysis thereof), for any part of quality control and/or
36 for making changes or correction to any aspect of the HMA mixture.

37
38 3. The Contractor shall make no claim for untimely notification by the
39 Contracting Agency of the Contracting Agency's test results (or statistical
40 analysis thereof).

41
42 **5-04.3(10)B HMA Compaction - Cyclic Density**
43 **(April 1, 2018 Tacoma GSP)**

44 *This section is deleted.*

45
46 **5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots**
47 **(April 1, 2018 Tacoma GSP)**

48 *This section is deleted.*

49
50 **5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing**
51 **(April 1, 2018 Tacoma GSP)**

The title of this section is revised to read:

5-04.3(10)C2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing

The second paragraph is revised to read:

Compaction tests will be performed at a minimum of 5 various locations, as determined by the Engineer, for each 400 tons placed. The locations will be determined by the stratified random sampling procedure conforming to WSDOT Test Method T 716. For an area in progress with a CPF less than 0.75, a new compaction sequence will begin at the Contractor's request after the Project Engineer is satisfied that material conforming to the Specifications can be produced. The Compaction Test Procedures will be provided to the Contractor by the Contracting Agency at the Pre-Construction Conference or a Pre-Paving Meeting, prior to the placement of HMA material on site.

This Section is supplemented with the following:

Cores may be used as an addition to the nuclear density gauge tests. When cores are taken by the Engineer at the request of the Contractor, the request shall be made by noon of the first working day following placement of the mix. The Engineer shall be reimbursed for the coring expenses.

The Engineer will inform the Contractor of field compaction test results as work is being performed. Formal Test Report(s) will be provided to the Contractor within 3 Working Days.

HMA for preleveling shall be compacted to the satisfaction of the Engineer.

5-04.4 Measurement

(April 1, 2018 Tacoma GSP)

The first paragraph is revised to read:

HMA CI. ____ PG ____, HMA for ____ CI. ____ PG ____, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, blending sand, mineral filler, anti-stripping additive, or any other component of the mixture; and the measurement shall include asphalt wedge curbs and thickened edges in accordance with the Plans or as directed by the Engineer. If the Contractor elects to remove and replace mix as allowed in Section 5-04.3(11), the material removed will not be measured.

The second paragraph is revised to read:

No specific unit of measure will apply to roadway cores, which shall be included in the measurements for the HMA items that are included in the Proposal.

This section is supplemented with the following:

HMA for Approach CI. ____ PG 58H-22 shall be measured per square yard of finished driveway and approach.

No specific unit of measure will apply to anti-stripping additive, which shall be included in the measurements for the HMA items that are included in the Proposal.

1 **5-04.5 Payment**

2 **(April 1, 2018 Tacoma GSP)**

3 *Pay items for "Job Mix Compliance Price Adjustment" and "Compaction Price*
4 *Adjustment" are deleted.*

5
6 *The following pay items for HMA are revised to read:*

7
8 "HMA Cl. ___ PG ___", per ton.

9 "HMA for ___ Cl. ___ PG ___", per ton.

10
11 The unit Contract price per ton for "HMA Cl. ___ PG ___" and "HMA for ___ Cl. ___ PG ___"
12 shall be full payment for all costs incurred to carry out the requirements of Section 5-04,
13 including coring and testing, and shall include anti-stripping additive, asphalt wedge
14 curbs, thickened edges, curb drains, and connection to existing drains in accordance
15 with the Contract. Any costs that are already included in other Bid items in the Proposal
16 shall not be included in the unit Contract prices per ton for these HMA Bid items.

17
18 *The pay item "HMA for Approach Cl. ___ PG ___" is revised to read:*

19
20 "HMA for Approach Cl. ___ PG 58H-22", per square yard.

21
22 The unit Contract price per square yard for "HMA for Approach Cl. ___ PG 58H-22" shall
23 be full payment for all costs incurred to carry out the requirements of Section 5-04,
24 including anti-stripping additive; and shall include asphalt wedge curbs, thickened edges,
25 curb drains, and connection to existing drains in accordance with the Contract. Any
26 costs that are already included in other Bid items in the Proposal shall not be included in
27 the unit Contract price per square yard for this HMA Bid item. The Contractor shall also
28 include all costs associated with excavating for driveways and approach, including haul
29 and disposal in the unit Contract price per square yard for "HMA for Approach Cl. ___ PG
30 58H-22", regardless of the depth.

31
32 *This section is supplemented with the following:*

33
34 "HMA Cl. ___ PG ___ for Pavement Patch", per ton.

35
36 The unit Contract price for pavement patch shall be full pay for all labor, equipment, and
37 materials required to complete the patching of the street, including joints, where
38 required, and removal of temporary base.

39
40 "Cold Plant Mix for Temporary Pavement Patch", per ton.

41
42 The unit Contract price for "Cold Plant Mix for Temporary Pavement Patch" shall be full
43 pay for all labor, equipment, and materials required to furnish and install; maintain; and
44 remove and dispose of the temporary patch.

45
46 Temporary pavement patches placed between October 1st and March 31st shall be
47 HMA
48 Cl. 1/2" PG 58H-22.

49
50 **END OF SECTION**

1 **6-02 CONCRETE STRUCTURES**

2 **(*****)**

3
4 **6-02.3(1) Classification of Structural Concrete**

5 *This section is supplemented with the following:*

6
7 Sidewalks, Curb Ramps, Driveway Entrances, Curbs and Gutters shall be
8 constructed with Concrete Class 3000 psi. at a minimum.

9
10 **6-02.3(2)B Commercial Concrete**

11 *The second paragraph is revised to read:*

12
13 Where concrete Class 3000 is specified for items such as culvert headwalls,
14 plugging culverts, concrete pipe collars, pipe anchors, monument cases, Type PPB,
15 PS, I, FB and RM signal standards, pedestals, cabinet bases, guardrail anchors, and
16 fence post footings, the Contractor may use commercial concrete.

17
18 *This section is supplemented with the following:*

19
20 Where concrete Class 3000 is specified for driveways, the Contractor may use
21 commercial concrete. If commercial concrete is used for driveways, it shall have a
22 minimum cementitious material content of 564 pounds per cubic yard of concrete, shall
23 be air-entrained, and the tolerances of Section 6-02.3(5)C shall apply.

24
25 **6-02.3(4) Ready-Mix Concrete**

26 *The first paragraph is revised to read.*

27
28 All concrete shall be batched in a prequalified manual, semi-automatic, or automatic
29 plant as described in Section 6-02.3(4)A.

30
31
32 **END OF SECTION**
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS**
2 **(March 23, 2010 Tacoma GSP)**
3

4 **7-05.3(1) Adjusting Manholes and Catch Basins to Grade**

5 *This section is revised to read:*
6

7 **7-05.3(1) Adjusting Utility Structures to Grade**
8

9 Where shown in the Plans or where directed by the Engineer, utility structures shall be
10 adjusted to grade as staked or as otherwise designated by the Engineer.
11

12 The materials and methods of construction shall conform to the requirements specified
13 in Section 7-05.3 and Standard Plan No. SU-25. The finished structure shall conform to
14 the requirements of the standard plan for the specific structure.
15

16 **7-05.5 Payment**

17 *The first paragraph is supplemented with the following:*
18

19 "Adjust Existing Catch Basin, Furnish New Frame and Grate", per each
20

21 The unit Contract price per each for "Adjust Existing Catch Basin, Furnish New Frame
22 and Grate" shall be full pay for all costs associated with adjusting the frame and grate to
23 finished grade, including but not limited to, excavating, furnish and place backfill,
24 furnishing and installing the new frame and grate, compacting, surfacing, and
25 restoration.
26

27 "Adjust Existing Manhole, Furnish New Frame and Cover", per each
28

29 The unit Contract price per each for "Adjust Existing Manhole, Furnish New Frame and
30 Cover" shall be full pay for all costs associated with adjusting the frame and cover to
31 finished grade, including but not limited to, excavating, furnish and place backfill,
32 furnishing and installing the new frame and cover, compacting, surfacing, and
33 restoration.
34

35 "Adjust Existing Valve Chamber to Grade", per each
36

37 The unit Contract price per each for "Adjust Existing Valve Chamber to Grade" shall be
38 full pay for all costs associated with the adjusting the valve chamber to finished
39 grade,
40 including but not limited to, excavating, furnish and place backfill, compacting,
41 surfacing,
42 and restoration.
43

44 "Remove and Replace Junction Box to Grade", per each
45

46 The unit Contract price per each for "Remove and Replace Junction Box to Grade" shall
47 be full pay for all costs associated with the adjusting the Junction Box to finished grade,
48 including but not limited to, removing and disposing of the existing junction box,
49 furnishing and installing the new junction box and cover, excavating, furnish and place
50 backfill, compacting, surfacing, and restoration.
51

52 **END OF SECTION**
53

1 **7-07 CLEANING EXISTING DRAINAGE STRUCTURES**
2 **(March 23, 2010 Tacoma GSP)**
3

4 **7-07.3 Construction Requirements**

5 *Item three of paragraph two is revised to read:*
6

7 3. If sediment and water from structures does not meet the conditions described in
8 1 or 2 above, the Contractor shall collect and dispose of all water used and all
9 debris generated in cleaning operations. No cleaning water or debris shall be
10 flushed downstream beyond the limits of the work.
11

12 **END OF SECTION**
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **8-01 EROSION CONTROL AND WATER POLLUTION CONTROL**
2 **(April 1, 2018 Tacoma GSP)**

3
4 **8-01.1 Description**

5 *This section is supplemented with the following:*

6
7 The City of Tacoma Stormwater Management Manual is available on the City's website
8 at www.cityoftacoma.org/stormwatermanual.
9

10 **8-01.3(1) General**

11
12 **8-01.3(1)A Submittals**

13 *This section is revised to read:*

14
15 The Contractor shall prepare and implement a project-specific Construction Stormwater
16 Pollution Prevention Plan (SWPPP) in accordance with the City of Tacoma Stormwater
17 Management Manual (SWMM), Volume 2. The SWPPP is a document that describes
18 the potential for pollution problems on a construction site and explains and illustrates the
19 measures to be taken on the construction site to control those problems.
20

21 The Construction SWPPP shall be prepared as a stand-alone document consisting of
22 two sections: Section 1) Construction SWPPP Narrative and Section 2) Temporary
23 Erosion and Sediment Control (TESC) Plans.
24

25 The Contracting Agency has prepared the Construction Stormwater Pollution Prevention
26 Plan Checklist to aid the Contractor in development of the SWPPP. This checklist
27 provides the Contractor with a tool to determine if all the major items are included in the
28 Construction SWPPP and on the TESC Plans and can be found in Volume 2, Chapter 2
29 of the SWMM. Contractors are encouraged to complete and submit this checklist with
30 the Construction SWPPP.
31

32 The Department of Ecology has prepared a SWPPP template that can be used for
33 projects in the City of Tacoma. The template can be found on Ecology's website at:
34 <http://www.ecy.wa.gov/programs/wq/stormwater/construction/resourcesguidance.html>.
35 The Contractor developing the SWPPP must ensure that all references are appropriate
36 for the City of Tacoma.
37

38 The SWPPP is considered a "living" document that shall be revised to account for
39 additional erosion control/pollution prevention BMPs as they become necessary and are
40 implemented in the field during project construction. A copy of the most current SWPPP
41 and TESC Plan shall remain on-site at all times and an additional copy shall be
42 forwarded to the Engineer. At the Contractor's preference, revisions to the SWPPP and
43 TESC Plan may be forwarded to the Engineer rather than submitting a complete
44 document. Revisions to the SWPPP and TESC Plan may be kept on-site in a file along
45 with the original SWPPP document.
46

47 The Contractor shall provide Stormwater Pollution Prevention Plan inspection reports or
48 forms per 8-01.3(1) B to the Project Engineer no later than the end of the next working
49 day following the inspection.
50
51

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

2 *This section is revised to read:*

3
4 The Contractor shall identify the ESC Lead at the Preconstruction Meeting and the
5 contact information for the ESC Lead shall be added to the Stormwater Pollution
6 Prevention Plan (SWPPP) Report and the Temporary Erosion and Sediment Control
7 (TESC) Plan Sheet. The ESC Lead shall maintain, for the life of the contract, a current
8 Certified Erosion and Sediment Control Lead (CESCL) certificate or maintain a current
9 Certified Professional in Erosion and Sediment Control (CPESC) certificate from a
10 course approved by the Washington State Department of Ecology. The CESCL or
11 CPESC shall be listed on the Emergency Contact List required under Section 1-
12 05.13(1).

13
14 The CESCL or CPESC shall direct implementation of the measures identified in the
15 SWPPP and as shown on the TESC plan. Implementation shall include, but is not
16 limited to the following:

- 17
18 1. Installing and maintaining all temporary erosion and sediment control Best
19 Management Practices (BMPs) included in the SWPPP and as shown on the
20 TESC plan. Damaged or inadequate BMPs shall be corrected as needed to
21 assure continued performance of their intended function in accordance with
22 BMP specifications and Permit requirements.
23 2. Performing monitoring as required by the NPDES Construction Stormwater
24 General Permit.
25 3. Inspecting all on-site erosion and sediment control BMPs at least once every
26 calendar week and within 24 hours of any discharge from the site. A SWPPP
27 Inspection report or form shall be prepared for each inspection and shall be
28 included in the SWPPP file. A copy of each SWPPP Inspection report or
29 form shall be submitted to the Engineer no later than the end of the next
30 working day following the inspection. The report or form shall include, but not
31 be limited to the following:
32 a. When, where, and how BMPs were installed, maintained, modified,
33 and removed.
34 b. Observations of BMP effectiveness and proper placement.
35 c. Recommendations for improving future BMP performance with
36 upgraded or replacement BMPs when inspections reveal SWPPP
37 inadequacies.
38 d. Approximate amount of precipitation since last inspection and when
39 last inspection was performed.
40 4. Updating and maintaining a SWPPP file on site that includes, but is not
41 limited to the following:
42 a. SWPPP Inspection Reports or Forms.
43 b. SWPPP narrative.
44 c. National Pollutant Discharge Elimination System Construction
45 Stormwater General Permit (Notice of Intent).
46 d. All documentation and correspondence related to the NPDES
47 Construction Stormwater General Permit.
48 e. Other applicable permits.

49
50 Upon request, the file shall be provided to the Engineer for review.
51

1 **8-01.3(7) Stabilized Construction Entrance**

2 *The third paragraph is revised to read:*

3
4 When the contract requires a wheel wash in conjunction with the stabilized entrance, the
5 details for the wheel wash and the method for containing and treating the sediment
6 laden runoff shall be included as part of the SWPPP and TESC Plan.

7
8 **8-01.3(8) Street Cleaning**

9 *The third paragraph is revised to read:*

10
11 Street washing with water shall not be permitted.

12
13 **8-01.3(9)D Inlet Protection**

14 *Replace the third paragraph of this section with the following:*

15
16 When the depth of accumulated sediment and debris reaches approximately 1/3 the
17 height of an internal device or 1/3 the height of the external device (or less when so
18 specified by the manufacturer), or as designated by the Engineer, the sediment and
19 debris shall be removed and disposed of per SWMM BMP C220 or as specified on the
20 Plans or within the SWPPP.

21
22 *The section is supplemented with the following:*

23
24 Only bag-type filters are allowed for use in the public right of way.

25
26 **8-01.3(10) Wattles**

27 *The fifth and sixth sentences are revised to read:*

28
29 On gradually sloped or clay-type soils trenches shall be 3 to 5 inches deep. On loose
30 soils, in high rainfall areas, or on steep slopes, trenches shall be 3 to 5 inches deep, or
31 1/2 to 2/3 the thickness of the wattle.

32
33 **8-01.4 Measurement**

34 *The third paragraph is revised to read:*

35
36 Check dams will be measured by the linear foot along the ground line of the completed
37 check dam. No additional measurement will be made for check dams that are required
38 to be rehabilitated or replaced due to wear.

39
40 *This section is supplemented with the following:*

41
42 No specific unit of measurement shall apply to the lump sum item "Stormwater Pollution
43 Prevention Plan (SWPPP)".

44
45 No specific unit of measurement shall apply to the lump sum item "Dewatering Plan".

46
47 *Add the following new sections:*

48
49 **8-01.4(1) Lump Sum Bid for Project (No Unit Items)**

50
51 When the bid Proposal contains the item "Erosion/Water Pollution Control", there will be

no measurement of unit items for Work defined by Section 8-01.4 except as described in Section 8-01.4(2). Also, except as described in Section 8-01.4(2), all of Sections 8-01.4 and 8-01.5 are deleted.

8-01.4(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control

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. When that occurs, the corresponding measurement provision in Section 8-01.4 is not deleted and the Work under that item will be measured as specified.

The bid proposal contains the item "Erosion/Water Pollution Control," lump sum and the additional erosion control items listed below. The provisions of Section 8-01.4(1), Section 8-01.4(2), and Section 8-01.5(2) shall apply.

"Inlet Protection," per each

No specific unit of measurement shall apply to the lump sum item "Stormwater Pollution Prevention Plan (SWPPP)".

8-01.5 Payment

This section is supplemented with the following:

Where removal of erosion control BMPs is directed by the Engineer according to 8-01.3(16) or according to these specification and the plans, removal shall be included in the lump sum or unit cost for these respective BMPs.

"Erosion Control", per lump sum. The lump sum contract price for "Erosion Control" shall be full pay for all cost for labor, equipment, and materials to perform all work associated with erosion control. Work shall include, but shall not be limited to, furnishing, purchase and delivery or required materials, installation and maintenance of temporary erosion and sediment control measures, and all costs incurred by the Contractor in performing the Contract Work defined in Section 8-01, except for unit bid items in Section 8-01 when these are included in the bid proposal. It is the Contractor's responsibility to maintain, repair, and replace any and all erosion control measures as required to maintain compliance with the NPDES Construction Stormwater General Permit and Tacoma Municipal Code 12.08 for the entire duration of the Project.

"Stormwater Pollution Prevention Plan (SWPPP)", per lump sum. The lump sum contract price for "Stormwater Pollution Prevention Plan (SWPPP)" shall be full pay for all costs, including but not limited to, preparing, submitting, revising, and resubmitting revisions for the Stormwater Pollution Prevention Plan.

Add the following new sections:

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

"Erosion/Water Pollution Control", per lump sum.

1 The lump sum contract price for "Erosion/Water Pollution Control" shall be full
2 compensation for all costs incurred by the Contractor in performing the Contract Work
3 defined in Section 8-01, except for costs compensated by Bid Proposal items inserted
4 through Contract Provisions as described in Section 8-01.5(2)

5
6 Where removal of erosion control BMPs is directed by the engineer according to 8-
7 01.3(16) or according to these specifications and the plans, removal shall be included in
8 the lump sum or unit cost for these respective BMPs.

9
10 **8-01.5(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control**

11
12 The Contract Provisions may establish the project as lump sum, in accordance with
13 section 8-01.4(1) and also reinstate the measurement of one or more of the items
14 described in section 8-01.4. When that occurs, the corresponding payment provision in
15 Section 8-01.5 is not deleted and the Work under that item will be paid as specified.

16
17 This section is supplemented with the following:

18
19 "Inlet Protection," per each

20
21 "Stormwater Pollution Prevention Plan (SWPPP)", per lump sum

22
23 The lump sum contract price for "Stormwater Pollution Prevention Plan (SWPPP)" shall
24 be full pay for all costs, including but not limited to, preparing, submitting, revising, and
25 resubmitting revisions for the Stormwater Pollution Prevention Plan.

26
27
28 **END OF SECTION**
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

8-02 ROADSIDE RESTORATION
(April 1, 2018 Tacoma GSP)

8-02.3 Construction Requirements

8-02.3(6) Soil Amendments

This section is supplemented with the following:

Recycled/compost material in accordance with Section 9-14.4(8) shall be blended with the specified topsoil at a ratio of 1/1 by volume.

8-02.3(11) Bark or Wood Chip Mulch

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

Mulch shall be feathered to plant material trunks, stems, canes, or root collars, and level with the top of junction and valve boxes, curbs and pavement edges.

This section is supplemented with the following:

Bark or wood chip mulch in accordance with Section 9-14.4(3) shall be applied to a depth of 3 inches at the location indicated on the Plans or as directed by the Engineer.

8-02.3(17) Site Restoration
(***)**

During the fulfillment of the Contract; the Contractor shall replace in kind, including but not limited to, any topsoil, plants, irrigation heads/pipes, mulch, gravel, etcetera, affected by the work whether designated in the plans or not. Each location of work shall be graded to a smooth and even surface, matching existing grades. Grading shall be accomplished to blend the new work with the existing ground lines and to maintain natural drainage courses. In addition landscaping items not included in specific bid items shall be included under the bid item "Site Restoration".

8-02.4 Measurement

The first paragraph is revised to read:

Topsoil, mulch and soil amendments will be measured by the cubic yard in the haul conveyance at the point of delivery.

The seventh paragraph is revised to read:

Compost will be measured by the cubic yard in the haul conveyance at the point of delivery.

This section is supplemented with the following:

Irrigation water used to establish vegetation will be considered included in the cost of plants.

Site restoration will be measured per lump sum.

8-02.5 Payment

The pay item for "Plant Selection" is revised to read

"Plant Selection ____", per each.

Payment for "Plant Selection ____" shall be full pay for all materials, labor, tools, equipment and supplies necessary for weed control within planting areas, planting area preparation, fine grading, planting, cultivating, and clean-up for the particular items called for in the Plans until the physical completion date of the contract. A one (1) year plant warranty shall be included in the unit contract price.

Paragraphs 7 through 18, pertaining to partial payment, are deleted.

The pay unit of square yards will be used in lieu of acres.

The following pay items are revised to read:

"Topsoil Type__", per cubic yard

The unit contract price per cubic yard for "Topsoil Type __" shall be full pay for providing the source of material for Topsoil Type A and C, for pre-excavation weed control, excavating, loading, hauling, intermediate windrowing, stockpiling, weed control on stockpiles or windrows, and removal, placing, spreading, processing, cultivating, and compacting topsoil Type A, Type B, and Type C.

"Fine Compost", per cubic yard

"Medium Compost", per cubic yard

"Coarse Compost", per cubic yard

The unit contract price per cubic yard for "___ Compost" shall be full pay for furnishing and spreading the compost onto the existing soil.

"Soil Amendment", per cubic yard

The unit contract price per cubic yard for "Soil Amendment" shall be full pay for furnishing and incorporating the soil amendment into the existing soil.

"Bark or Wood Chip Mulch", per cubic yard

The unit contract price per cubic yard for "Bark of Wood Chip Mulch" shall be full pay for furnishing and spreading the compost onto the existing soil.

"Site Restoration", per lump sum.

Payment for "Site Restoration" per lump sum shall be full pay for all materials, labor, tools, equipment, and supplies necessary for restoration of the site including replacement of irrigation appurtenances, planting area preparation, grading, planting, cultivating, cleanup, and water necessary to complete the site restoration, as specified.

END OF SECTION

1 **8-03 IRRIGATION SYSTEM**
2 **(April 1, 2018 Tacoma GSP)**
3

4 **8-03.3 Construction Requirements**

5 *The third paragraph is supplemented with the following:*
6

7 All electrical work from the electrical source to the controller junction box must be
8 completed by a licensed electrical contractor
9

10 **8-03.3(5) Installation**

11 *The first sentence of the second paragraph is revised to read:*
12

13 Final position of turf heads shall be level or ½ inch below finished grade measured
14 from the top of the sprinkler.
15

16 *The fourth paragraph is revised to read:*
17

18 Final position of valve boxes, capped sleeves, and quick coupler valves shall be level
19 with the finished grade or mulch.
20

21 *This section is supplemented with the following:*
22

23 The Contractor shall advise the Engineer at least 24 hours before pressure tests are
24 to be conducted.
25

26 A zone diagram shall be posted in the controller to facilitate the selection of the
27 valves to be operated.
28

29 **END OF SECTION**
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **8-04 CURBS, GUTTERS, AND SPILLWAYS**
2 **(April 1, 2018 Tacoma GSP)**

3
4 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

5 *The first paragraph is revised to read:*

6
7 Cement concrete curb, curb and gutters, gutters, and spillways shall be
8 constructed with air entrained concrete Class 3000 conforming to the requirements
9 of Section 6-02.

10
11 *Section 8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways is supplemented with*
12 *the following:*

13
14 **8-04.3(1)C Integral Cement Concrete Curb**

15
16 When integral curb is being constructed with the pavement, fresh concrete for the
17 integral curb shall be placed at such time as will enable the top section of the curb to
18 be consolidated, finished, and bonded to the pavement slab while the concrete is
19 plastic.

20
21 Where curb is not being placed integral with the pavement slab, reinforcing steel
22 dowels shall be placed in the base section for the curb in accordance with the
23 standard drawing.

24
25 *Section 8-04.3 Construction Requirements is supplemented with the following:*

26
27 **8-04.3(6) Cold Weather Work**

28
29 The following additional requirements for placing concrete shall be in effect from
30 November 1 to April 1:

- 31 • The Engineer shall be notified at least 24 hours prior to placement of concrete.
32 • All concrete placement shall be completed no later than 2:00 p.m. each day.
33 • Where forms have been placed and the subgrade has been subjected to frost, no
34 concrete shall be placed until the ground is completely thawed. At that time, the
35 forms shall be adjusted and subgrade repaired as determined by the Engineer.

36
37 **8-04.5 Payment**

38 *This section is supplemented with the following:*

39
40 "Integral Cement Conc. Traffic Curb", per linear foot
41 "Extruded Curb Type ", per linear foot.

42
43 **END OF SECTION**
44
45
46
47
48
49
50
51

1 **8-06 CEMENT CONCRETE DRIVEWAY ENTRANCES**
2 **(April 1, 2018 Tacoma GSP)**

3
4 **8-06.3 Construction Requirements**

5 *The first paragraph is revised to read:*

6
7 Cement concrete driveway approaches shall be constructed with air entrained concrete
8 Class 3000 conforming to the requirements of Section 6-02 or Portland Cement
9 Concrete Pavement conforming to the requirements of Section 5-05.

10
11 *This section is supplemented with the following sub-section:*

12
13 **8-06.3(1) Cold Weather Work**

14
15 The following additional requirements for placing concrete shall be in effect from
16 November 1 to April 1:

- 17
18 • The Engineer shall be notified at least 24 hours prior to placement of concrete.
19 • All concrete placement shall be completed no later than 2:00 p.m. each day.
20 • Where forms have been placed and the subgrade has been subjected to frost, no
21 concrete shall be placed until the ground is completely thawed. At that time, the
22 forms shall be adjusted and subgrade repaired as determined by the Engineer.

23
24 **8-06.5 Payment**

25 *The third paragraph is revised to read:*

26
27 Excavation required for the construction of the driveway entrance shall be paid for under
28 the unit Contract price for "Roadway Excavation, Incl. Haul" when included in the
29 Proposal. Otherwise, the Contractor shall include all costs associated with excavating,
30 including haul and disposal, regardless of the depth in the unit Contract price for
31 "Cement Conc. Driveway Entrance Type___".

32
33
34 **END OF SECTION**
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **8-13 MONUMENT CASES**
2 **(March 17, 2003 Tacoma GSP)**

3
4 *This section is revised to read:*

5
6 **8-13 Monuments**

7
8 **8-13.1 Description**

9
10 This work shall consist of constructing monuments in accordance with the Standard
11 Plan and these Specifications, in conformity with the lines and locations shown in the
12 Plans or as staked by the Engineer.

13
14 **8-13.2 Materials**

15
16 Concrete shall be Class 3000 in accordance with the requirements of Section 6-02.
17 'Ready Mix' bag concrete shall not be used.

18
19 Bronze markers will be supplied by the Contracting Agency on City funded projects.

20
21 **8-13.3 Construction Requirements**

22
23 The Contractor shall construct the poured monument in accordance with the City of
24 Tacoma Standard Plan SU-01.

25
26 **8-13.4 Measurement**

27
28 Measurement of the poured monument will be per each.

29
30 **8-13.5 Payment**

31
32 Payment will be made in accordance with Section 1-04.1.

33
34 "Poured Monument", per each.

35
36 The unit contract price per each for "Poured Monument" shall be full pay for all labor,
37 equipment, and materials required to furnish and install the monument, including the
38 removal of existing monuments and necessary pavement removal to accommodate
39 the installation in accordance with the standard plan and specifications.

40
41 **END OF SECTION**
42
43
44
45
46
47
48
49
50
51

1 **8-14 CEMENT CONCRETE SIDEWALKS**
2 **(March 23, 2010 Tacoma GSP)**

3
4 **8-14.3 Construction Requirements**

5
6 **8-14.3(3) Placing and Finishing Concrete**

7 *The fourth paragraph is revised to read:*

8
9 Curb ramps shall be of the type specified in the Plans. The detectable warning
10 pattern shall have the truncated dome shape shown in the Standard Plans.

11
12 **8-14.3(4) Curing**

13 *The second sentence is revised to read:*

14
15 Curing shall be in accordance with Section 5-05.3(13).

16
17 *Section 8-14 is supplemented with the following:*

18
19 **8-14.3(20) Cold Weather Work**

20
21 The following additional requirements for placing concrete shall be in effect from
22 November 1 to April 1:

- 23 • The Engineer shall be notified at least 24 hours prior to placement of concrete.
24 • All concrete placement shall be completed no later than 2:00 p.m. each day.
25 • Where forms have been placed and the subgrade has been subjected to frost, no
26 concrete shall be placed until the ground is completely thawed. At that time, the
27 forms shall be adjusted and subgrade repaired as determined by the Engineer.

28
29 **8-14.3(21) Thickened Edge for Sidewalk**

30
31 Thickened edge shall be constructed in accordance with the standard plan.

32
33 **8-14.5 Payment**

34
35 *The pay item "Cement Conc. Sidewalk" is supplemented with the following:*

36
37 All additional costs related to the construction of thickened edges shall be included in
38 the unit contract cost for "Cement Conc. Sidewalk".

39
40 *The sixth paragraph is revised to read:*

41
42 Excavation required for the construction of the sidewalk shall be paid for under the
43 unit contract price for "Roadway Excavation, Incl. Haul" when included in the
44 proposal. Otherwise, the Contractor shall include all costs associated with
45 excavating, including haul and disposal, regardless of the depth in the unit contract
46 price for "Cement Conc. Sidewalk" and/or "Cement Conc. Curb Ramp Type ____".

47
48 **END OF SECTION**

1 **8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL**
2 **(*****)**

3
4 **8-20.2 Materials**

5 *This section is supplemented with the following:*

6
7 The Contractor shall warranty all electrical and mechanical equipment described in this
8 section for satisfactory in service operation for one year following project acceptance.
9 Warranty shall include troubleshooting, labor, materials and all other costs to bring the
10 equipment to a satisfactory level of service. Normal maintenance is not included in the
11 warranty.

12
13 This section is supplemented with the following:

14
15 **Junction Boxes, Cable Vaults, and Pull Boxes**

16
17 **Standard Duty Junction Boxes**

18 Section 9-29.2(1)A is supplemented with the following:

19
20 **Concrete Junction Boxes**

21 **(August 1, 2016, WSDOT GSP)**

22
23 Both the slip-resistant lid and slip-resistant frame shall be treated with Mebac#1 as
24 manufactured by IKG industries, or SlipNOT Grade 3-coarse as manufactured by W.S.
25 Molnar Co. Where the exposed portion of the frame is ½ inch wide or less the slip
26 resistant treatment may be omitted on that portion of the frame. The slip-resistant lid
27 shall be identified with permanent marking on the underside indicating the type of
28 surface treatment ("M1" for Mebac#1; or "S3" for SlipNOT Grade 3-coarse) and the year
29 manufactured. The permanent marking shall be 1/8 inch line thickness formed with a
30 mild steel weld bead.

31
32 **8-20.2(1) Equipment List and Drawings**

33 *This section is revised to read:*

34
35 Within 20 days following execution of the Contract, the Contractor shall submit to
36 the Engineer a completed "Request for Approval of Material" that describes the material
37 proposed for use to fulfill the Plans and Specifications.

38
39 The Contractor shall submit Type 2 Working Drawings consisting of supplemental data,
40 sample articles, or both, of the material proposed for use. Supplemental
41 data includes such items as catalog cuts, product Specifications, shop drawings, wiring
42 diagrams, etc.

43
44 The Contractor shall submit for approval Type 3E Working Drawings in accordance with
45 Section 1-05.3 for each type of signal standard called for on this project.

46
47 The Engineer's acceptance of any submitted documentation shall in no way relieve the
48 Contractor from compliance with the safety and performance requirements as specified
49 herein.

Submittals required shall include but not be limited to the following:

1. A Type 2 Working Drawing consisting of a material staging plan, should the Contractor propose Contracting Agency-owned property for staging areas.
2. A Type 2E Working Drawing consisting of a pit plan, for each boring pit, depicting the protection of traffic and pedestrians, pit dimensions, shoring, bracing, struts, walers, sheet piles, conduit skids, and means of attachment, casing type, and casing size.
3. A Type 2E Working Drawing consisting of a boring plan depicting the boring system and entire support system.

8-20.3 Construction Requirements

8-20.3(1) General

This section is supplemented with the following:

The Contractor shall call 24 hours prior for inspection before covering any underground conduit, prior to installing any detection loops, or placing concrete for foundations. For inspections, notify Traffic Signal/Streetlighting at (253) 591-5287.

Work shall be sequenced such that after the new signal is placed in operation, the Contractor shall remove any equipment not required for the operation of the new signal. The Contractor shall remove the old vehicle and pedestrian signal heads immediately after the new system is operational.

Uniformed police officers shall be provided by the Contractor to direct traffic at any time he signal is not in normal operation. This work shall be paid for in accordance with Section 1-10.

The following existing and temporary equipment shall be deconstructed/removed by the Contractor and delivered to the City of Tacoma Signal/Streetlight Shop located at 3401A South Orchard Street. Care shall be exercised in removing and salvaging the equipment. Any equipment damaged during removal, hauling, and stockpiling shall be repaired or replaced by the Contractor at no expense to the City.

- All signal heads and mounting hardware
- Flashing beacons, and flasher control panel
- Steel poles, mast arms, and hardware
- Aluminum poles, mast arms, and hardware
- Controller cabinets and all internal hardware and wiring
- Vehicle detection systems, including video, microwave, and infrared systems, and associated hardware
- All Opticom equipment or other preemption and priority equipment.
- LED luminaries, LED retrofit kits, and LED lamps
- Ornamental/Decorative fixtures and poles/posts
- Pedestrian signals, poles, and pushbuttons.
- Signs, brackets, and hardware.
- Locking junction box security lids, security bolts, and all other wire theft deterrent security hardware

1 All other equipment shall be removed of and disposed of by the Contractor, including but
2 not limited to the following:

- 3 • Wood poles
- 4 • All wiring outside of the controller cabinet
- 5 • Loops
- 6 • Non-LED cobra-head fixtures

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

9 *This section is supplemented with the following:*

10
11 Anchor bolts for streetlight standards and for strain poles shall extend a minimum of two
12 threads and a maximum of six threads above the top heavy-hex-nut. A minimum of
13 three threads shall remain between bottom of the leveling hex-nut and the top of the
14 foundation. Breakaway base connection brackets for pedestrian pushbuttons poles
15 (Type PPB) shall be installed with the flanges parallel to the traveled way, as shown on
16 WSDOT standard plan J-20.15-03.

17
18 Foundations shall be excavated using an auger and poured against undisturbed material
19 unless otherwise approved by the Engineer. Vacuum excavation should be used where
20 there is a possibility of conflict with utilities or other facilities.

21
22 Forming the foundation with galvanized culvert pipe or similar forming methods will only
23 be allowed when soil conditions or other factors make this method of construction
24 necessary and is approved by the Engineer. Biodegradable forming tubes shall be fully
25 removed from the cured concrete prior to backfilling. When using culvert or tubes, the
26 following backfill requirements will apply. The area between the form and undisturbed
27 material shall be filled with CDF. For lightly loaded installations and only with the
28 approval of the Engineer, Crushed Surfacing Top Course meeting the requirements of
29 Section 9-03.9(3) may be used. Placement shall be in accordance with Section 2-
30 09.3(1)E and shall be backfilled and compacted in the presence of the Engineer.

31 **8-20.3(5) Conduit**

32 **8-20.3(5)A General**

33
34 *This section is supplemented with the following:*

35
36
37 As soon as the mandrel has been pulled through, both ends of the conduit shall be
38 sealed in an approved manner. Location wire and pull tape, in conformance with 9-29,
39 shall be installed in all empty conduits. At least three (3) feet of the location wire shall be
40 neatly coiled and secured to the conduit in the same manner as is shown in Washington
41 39 State Department of Transportation Standard Plan J-28.70-01, Details A and B.

42 **8-20.3(5)B Conduit Type**

43
44 *This section is supplemented with the following:*

45
46 Conduit under driveways and other vehicular access ways shall be Schedule 80 high
47 density polyethylene (HDPE), Schedule 80 PVC, or rigid metal conduit (RMC)

48
49 Conduit installed in a joint trench, with power, and that is installed a minimum of 36-
50 inches from finished grade may utilize Schedule 40 PVC in lieu of Schedule 80 PVC.

1 This allowance shall not be construed to permit the use of dissimilar materials in a single
2 run.

3
4 Pole riser conduit material types shall be in accordance with applicable City of Tacoma
5 standard plans.

6
7 **8-20.3(5)D Conduit Placement**

8 *This Section is supplemented with the following:*

9
10 Conduit terminating in pole foundations shall extend to 3 inches below the handhole.

11
12 Conduit terminating in controller foundations shall terminate 1 inch above the foundation.

13
14 **8-20.3(5)E1 Open Trenching**

15 *Subsection 5 is revised to read:*

16
17 5. Trenches located within the paved roadway shall be backfilled with 3 inches of
18 sand over the conduit, followed by material meeting the requirements of Section
19 9-03.12(3). Compaction shall be in conformance with Section 2-09.3(1)E. All
20 street cuts shall be repaired in accordance with the standard plans.

21
22 *This section is supplemented with the following new Subsections:*

23
24 7. Where multiple conduits are installed in the same trench, the trench shall be of
25 sufficient width to accommodate all conduit, with a minimum 3-inch separation
26 between each conduit, and a minimum clearance of 1-inch on the sides of the
27 trench. When conduit is laid horizontal to one another, the conduit shall be laid
28 at the same elevation, parallel with one another. When conduit is laid vertically in
29 the same trench, conduit spacers shall be used to maintain the 3-inch separation.
30 Spacers shall be installed in accordance with the manufacturer's
31 recommendations for conduit of that size and type. Additional spacers shall be
32 required where the supported conduit is sagging more than 20% of the nominal
33 diameter of the conduit.

34 8. In all conduit trenches, metallic, detectible, utility warning tape shall be placed at
35 twelve (12) inches below final grade.

36
37 **8-20.3(6) Junction Boxes, Cable Vaults, and Pull boxes**

38 *This section is supplemented with the following:*

39
40 Unless otherwise specified in the plans, or as otherwise directed by the engineer, all
41 junction boxes exposed to vehicular traffic shall be Heavy-Duty. Field adjustment of
42 junction boxes, that cause junction boxes to be installed within an intersection radius and
43 within four feet of the curb face may be required to be Heavy-Duty. Final placement and
44 type of all junction boxes within an intersection shall be as directed by the Engineer.

45
46 Adjacent junction boxes shall be separated by a minimum of three-inches.

47
48 Concrete meeting the requirements of 6-02.3(2)B shall be placed surrounding all
49 junction boxes except as otherwise provided for below. Concrete shall be flush with the
50 top of the junction box and the adjacent improvements. Concrete shall be cast in place.
51 Junction boxes shall be secured with the concrete border as follows:

1. When the junction box is located within a concrete or asphalt section and is located a minimum of 12-inches from the edge of the section, a concrete border will not be required.
2. Where junction boxes are located within 12-inches from the edge of the concrete or asphalt section, the junction box shall be secured on all sides with a minimum 12-inch wide, 6-inch deep concrete section. Concrete shall be finished in the same manner as the adjacent concrete where applicable.
3. Where junction boxes are located within a planter strip, a landscaped area, or other non-hardened surface, the junction box shall be bordered on all sides with a minimum 6-inch wide, 12-inch deep concrete section flush with the top of the junction box.

8-20.3(7) Messenger Cable, Fittings

The second paragraph of this section is deleted.

This section is supplemented with the following:

Cable ties shall be used to neatly secure the signal cable to the span wire at 10-inch centers and shall be tightened at top. Excess tie material shall be completely cut off. The signal control cable shall be below the span wire and shall be straight with no twisting or spiraling.

A minimum 5% sag shall be provided in the span wire when fully loaded with all vehicular signal heads, unless otherwise directed by the Engineer.

8-20.3(8) Wiring

The third paragraph is revised to read:

All splices in underground illumination circuits, induction loop circuits, and magnetometer circuits shall be installed at junction boxes. The only splice allowed in an induction loop circuit shall be the shielded cable to loop wire splice. The only splice allowed in a magnetometer circuit shall be the probe lead-in cable to the magnetometer cable splice.

Induction loop splices and magnetometer splices shall be heat shrink type with moisture blocking material, sized for the conductors. Magnetometer and induction loop splices shall be soldered. The end of the sheathing shall be sealed with a heat shrink insulator.

The fourth paragraph is revised to read:

Signal wiring shall be in conformance with the following:

1. All termination for traffic signal control systems shall be in accordance with City of Tacoma Standard Plan TS-15.
2. All signal wiring shall be 5-conductor, 14 gauge or 2 conductor, 12 gauge stranded copper wire unless otherwise shown in the plans.
3. For 5-section and bimodal heads, 2-5c-14 gauge conductors shall be utilized.
4. 5c wire shall not be split between high voltage and low voltage. Where a pedestrian head and a pedestrian push button share a common pole, a separate 2c shall be pulled in for the push button.
5. A single 5c may be split between two pedestrian heads on a common pole with a jumper across the neutral.

6. Opticom and detection wiring shall be per manufacturer's recommendations.

All wiring entering the cabinet shall be gathered across the conduits to the right front of the cabinet, neatly tied, and circle the base of the cabinet counterclockwise as further described below:

1. Communication cables shall circle the base of the cabinet, counterclockwise from front right, one full circle, and around to the back of the right panel.

Cables shall follow up the back of the right panel and terminate on terminal strip identified by the Engineer. Unless otherwise directed by the Engineer, cable outer jacket sheathing shall be removed from a point two (2) inches below terminal strip. Cables shall be uniform in length, with sufficient slack to reach any terminal on the terminal strip. Individual wire slack shall be neatly looped back and tied. A bolt/flanged nut alligator jaw shield bond connector shall be utilized.

2. Power service conductors shall circle the base of the cabinet, counterclockwise from front right, one full circle, and back around to the front right of the base.

3. Detection cables shall circle the base of the cabinet, counterclockwise from front right, to the back of the left panel. Cables shall follow up the back of the left panel and terminate as directed in the field.

4. Signal vehicle and pedestrian head shall circle the base of the cabinet, counterclockwise from front right, to back left. Cable outer jacket sheathing shall be removed from the point that the conductor reaches the back left of the cabinet to the ends of the conductors. All vehicle and pedestrian conductors in the cabinets shall be uniform in length, with sufficient slack to reach any terminal on the load bay. Individual wire slack shall be neatly looped back and tied.

5. Push button conductors shall circle the base of the cabinet, counterclockwise from front right, to front left. Cable outer jacket sheathing shall be removed from the point that the conductor reaches the front left of the cabinet to the ends of the conductors. All push button conductors in the cabinets shall be uniform in length, with sufficient slack to reach any terminal on the TS3 terminal strip. Individual wire slack shall be neatly looped back and tied.

The fifth paragraph is revised to read:

Splices and taps on underground and overhead circuits shall be made with solderless crimp connectors, installed with an approved tool designed for the purpose, to securely join the wires both mechanically and electrically. Splices and taps will be sealed in accordance with this section.

The seventh paragraph is revised to read:

Aerial illumination splices shall be taped with thermoplastic electrical insulating tape equivalent to the original wire insulation rating and thickness. It shall be well lapped over the original insulation.

The eighth paragraph is revised to read:

All splices in junction boxes and handholes shall be taped and sealed with an electrical

coating. Tape splice insulation shall consist of thermoplastic electrical insulating tape equivalent to the original wire insulation rating and thickness. It shall be well lapped over the original insulation and moisture resistant electrical coating shall be applied and allowed to dry. Two layers of thermoplastic tape will then be applied, followed by a second layer of moisture resistant electrical coating.

The ninth paragraph is revised to read:

Illumination cable in light standards shall be #10 AWG USE or "Pole and Bracket" cable, as specified in Section 9-29.3(2)D of the Standard Specifications.

The tenth paragraph is revised to read:

Fifteen (15) feet of slack cable shall be provided at the controller end of all cables terminating in the controller cabinet. A minimum of three (3) feet of slack cable shall be left at all strain poles and junction boxes.

8-20.3(10) Service, Transformer, and Intelligent Transportation System (ITS) Cabinets

The second, third, and fifth paragraphs are deleted.

8-20.3(14) Signal Systems

8-20.3(14)A Signal Controllers

This section is revised to read:

The fully wired control cabinet, the controller, the MMU, and detection hardware for the cabinet shall be delivered to the City of Tacoma Traffic Signal Shop for configuration, programming, testing, and certification prior to installation. At the Contractor's request, the City will off load the equipment. The Contractor shall notify the City 24 hours in advance of the equipment delivery.

A minimum of two weeks shall be required for the City to configure and test the cabinet and controller for each intersection. If multiple cabinets and controllers are delivered, the Contractor shall identify the sequence for configuration and allow one additional week for each additional cabinet and controller delivered.

The Contractor shall be responsible for transporting the controller cabinet from the Signal/Streetlight Shop site to the jobsite, and for installation of the cabinet and all field wiring. Field wiring shall be performed in accordance with 8-20.3(8) and as directed by City of Tacoma Signal and Streetlight personnel in the field.

8-20.3(14)B Signal Heads

This section is supplemented with the following:

For span wire installation, the red indications shall be leveled to within 1 inch for each direction as approved by the City. The height to the bottom of the lowest head shall be 15.5 feet minimum.

For span wire installation, the signal stem (drop pipe) shall be 1 to 3 feet long unless otherwise approved by the Engineer. Drop pipes may be excluded when mounting traffic signal head, if necessary to meet required vertical clearances.

1 **8-20.3(14)C Induction Loop Vehicle Detectors**

2 *Subsections 2, 4, 9, and 10 are deleted.*

3
4 *Section 8-20.3(14) is supplemented with the following new section:*

5 **8-20.3(14)F Thermal, Microwave, and LED Optical Vehicle Detection**

6
7 A representative from the City of Tacoma Signal and Streetlight operations shop shall be
8 on site during all work within the signal cabinet. The Contractor shall notify the Engineer
9 two working days in advance of work within the cabinet.

10
11 The Contractor shall install and test the detection system in accordance with the
12 manufacturer's recommendations and these special provisions. Detection units shall be
13 mounted and all cabling shall be in accordance with the manufacture's
14 recommendations. The installation shall include all field equipment as well as all
15 equipment required in the controller cabinet.

16
17 Detection unit locations as shown on the plans are approximate. Detection units shall be
18 mounted at a sufficient height to prevent occlusion from cross traffic. Detection units
19 shall be field adjusted as directed by the Engineer and equipment manufacturer for
20 maximum coverage. A factory-certified representative of the equipment manufacturer
21 shall inspect and provide a written verification that the installation has been performed in
22 accordance with the manufacturer's requirements.

23
24 The factory-certified representative of the equipment manufacturer shall supervise all
25 testing of the equipment and shall provide written documentation showing acceptance of
26 the testing and verification that the system is a complete, fully functional system.

27
28 All equipment shall be warranted against manufacturing defects in materials and
29 workmanship for a period of 3 years from the date of signal turn-on.

30
31 **8-20.3(17)B "As Built" Plans**

32 *This section is supplemented with the following:*

33
34 These drawings shall show the routing of all underground conduits. The locations of the
35 conduit shall be dimensioned with a precision and accuracy of 1 foot.

36
37 **8-20.4 Measurement**

38 This section is revised to read:

39
40 When a bid item is shown as lump sum in the proposal, no specific unit of measurement
41 will apply, but measurement will be for the sum total of all items for a complete system to
42 be furnished and installed in accordance with approved methods, the Plans, and the
43 Special Provisions, and these Specifications. Removal, relocation, and salvage of
44 existing traffic signal equipment and signs where required shall be incidental to the lump
45 sum items and no separate measurement will be made.

46
47 **8-20.5 Payment**

48 *This section is supplemented with the following:*

49
50 "Traffic Signal System _____", lump sum.

1 The lump sum Contract price for "Traffic Signal System ____" shall be full pay for the
2 construction of the complete electrical system, modifying existing systems, or both, as
3 described above and as shown in the Plans, and herein specified, including excavation,
4 backfilling, concrete foundations, conduit, wiring, restoring facilities destroyed or
5 damaged during construction, salvaging existing materials, and for making all required
6 tests. All additional materials and labor, not shown in the Plans or called for herein and
7 which are required to complete the electrical system, shall be included in the lump sum
8 Contract price.

9
10 "Illumination System ____", lump sum.

11
12 The lump sum Contract price for "Illumination System ____" shall be full pay for the
13 construction of the complete electrical system, modifying existing systems, or both, as
14 described above and as shown in the Plans, and herein specified, including excavation,
15 backfilling, concrete foundations, conduit, wiring, restoring facilities destroyed or
16 damaged during construction, salvaging existing materials, and for making all required
17 tests. All additional materials and labor, not shown in the Plans or called for herein and
18 which are required to complete the electrical system, shall be included in the lump sum
19 Contract price.

20
21 **END OF SECTION**
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **9-03 AGGREGATES**

2 **(September 20, 2018 Tacoma GSP)**

4 **9-03.1 Aggregates for Portland Cement Concrete**

6 **9-03.1(1) General Requirements**

7 **(June 16, 2016 Tacoma GSP)**

8 *The seventh paragraph is deleted*

10 **9-03.6 Vacant**

11 **(Jun 16, 2016 Tacoma GSP)**

12 *This section, including the title, is revised to read:*

14 **9-03.6 Aggregates for Asphalt Treated Base (ATB)**

16 **9-03.6(1) General Requirements**

18 Aggregates for asphalt treated base shall be manufactured from ledge rock, talus, or
19 gravel, in accordance with the provisions of Section 3-01 that meet the following test
20 requirements:

22 Los Angeles Wear, 500 Rev. 30% max.

23 Degradation Factor 15 min.

25 **9-03.6(2) Grading**

27 Aggregates for asphalt treated base shall meet the following requirements for grading:

29 **Sieve Size Percent Passing**

30 2" 100

31 ½" 56-100

32 No. 4 32-72

33 No. 10 22-57

34 No. 40 8-32

35 No. 200 2.0-9.0

37 All percentages are by weight.

39 **9-03.6(3) Test Requirements**

41 When the aggregates are combined within the limits set forth in Section 9-03.6(2) and
42 mixed in the laboratory with the designated grade of asphalt, the mixture shall be
43 capable of meeting the following test values:

45 % of Theoretical Maximum Specific Gravity (GMM) (approximate) 93@

46 100 gyrations

47 AASHTO T324, WSDOT TM T718 or ASTM D3625 Pass

48 (Acceptable anti-strip evaluation tests)

50 The sand equivalent value of the mineral aggregate for asphalt treated base (ATB) shall
51 not be less than 35.

1 **9-03.8 Aggregates for Hot Mix Asphalt**

2 **(March 9, 2016 APWA GSP)**

3 *Supplement section 9-03.8 with the following:*

4
5 **Aggregates for Porous Hot Mix Asphalt/Porous Warm Mix Asphalt (PHMA/PWMA)**
6 **General Requirements**

7
8 Aggregates for Porous Hot Mix Asphalt (PHMA) or Porous Warm Mix Asphalt (PWMA)
9 shall be manufactured from ledge rock, talus, or gravel, in accordance with the
10 provisions of Section 3-01 that meet the following test requirements:

11
12 Los Angeles Wear, 500 Rev. 30% max.

13 Degradation Factor 15 min.

14
15 **Grading**

16 Aggregates for PHMA/PWMA shall meet the following requirements for grading:

17
18 **Sieve Size Percent Passing***

19 $\frac{3}{4}$ " square 100

20 $\frac{1}{2}$ " square 90 - 100

21 $\frac{3}{8}$ " square 55 - 90

22 U.S. No. 4 10 - 40

23 U.S. No. 8 0 - 20

24 U.S. No. 40 0 - 13

25 U.S. No. 200 0 - 5

26 * All percentages are by weight.

27
28 The aggregate for PHMA/PWMA shall consist of crushed stone with a percent fracture
29 greater than 90% on two faces on the No. 4 sieve and above, and shall be tested in
30 accordance with the field operating procedures for AASHTO T 335.

31
32 **9-03.12 Gravel Backfill**

33 *Add the following new Section:*

34
35 **9-03.12(10) Pea Gravel**

36 **(September 20, 2018 Tacoma GSP)**

37 *The grading requirements included in this section are revised to read:*

38
39 **Sieve Size Percent Passing***

40 $\frac{3}{4}$ " square 100

41 $\frac{3}{8}$ " square 95-100

42 U.S. No. 8 0 - 10

43 U.S. No. 200 0 - 3

44 33 Sand Equivalent 35 Minimum

45 112

46 * All percentages are by weight

47
48 **9-03.21 Recycled Material**

1 **9-03.21(1) General Requirements**
2 **(Jun 16, 2016 Tacoma GSP)**

3 *This section is supplemented with the following:*

4
5 Recycled materials will only be permitted upon approval of the Engineer. Recycled
6 concrete shall not be permitted for use as pipe zone backfill, backfill above pipe zone,
7 and extra excavation area backfill material.

8
9 **END OF SECTION**

1
2 **9-07 REINFORCING STEEL**
3 **(March 23, 2010 Tacoma GSP)**
4

5 **9-07.5(2) Corrosion Resistant Dowel Bars (For Cement Concrete Pavement)**

6 *This section is supplemented with the following:*
7

8 Dowel bars for all streets shall be corrosion resistant.
9

10 **END OF SECTION**
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **9-29 ILLUMINATION, SIGNALS, ELECTRICAL**
2 **(March 31, 2016 Tacoma GSP)**

3
4 **9-29.1(6) Detectable Underground Warning Tape**

5 *This section is supplemented with the following:*

6
7 For electrical circuits detectable underground warning tape shall be high visibility red,
8 with continuous legend of "Caution Electric Line Buried Below" or equal. The warning
9 tape shall be polyethylene with a metallic backing. The polyethylene shall be a minimum
10 3 inches wide, 4 mils thick.

11
12 **9-29.2 Junction Boxes, Cable Vaults and Pull Boxes**

13
14 Unless otherwise specified, all junction boxes containing illumination and signal control
15 cable shall be Type 1, Standard Duty with alternate 2 locking lid per state standard plan
16 J-40.10-02.

17
18 Unless otherwise specified, all junction boxes containing interconnect cabling shall be
19 Type 2, Standard Duty with alternate 2 locking lid per state standard plan J-40.10-02.

20
21 **9-29.2(4) Cover Markings**

22 *The second paragraph of this section is revised to read:*

23
24 Covers shall be marked or embossed with "LT" for boxes containing illumination circuits.
25 Covers shall be marked or embossed with "TS" for boxes containing traffic signal circuits

26
27 **9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable**

28 *This section is supplemented with the following:*

29
30 Where not otherwise specified, all wiring shall meet standard of the industry for the
31 application employed. Wiring shall be consistent with manufacturers' recommendations
32 and meet all applicable codes.

33
34 **9-29.3(2)A Single Conductor**

35
36 **9-29.3(2)A1 Single Conductor Current Carrying**

37 *This section is supplementing with the following:*

38
39 Service connections shall be stranded copper size AWG #6 USE unless otherwise
40 shown in the plans. Black conductor insulation shall be used for the service and the
41 neutral conductor shall be white. Color tape marking shall not be acceptable for the
42 neutral conductor.

43
44 **9-29.3(2)A2 Grounding Electrode Conductor**

45 *This section is supplemented with the following:*

46
47 Grounding electrode conductor shall be minimum #8 AWG unless otherwise shown in
48 the plans. When the ground is pulled through a conduit, the wire shall be insulated.
49 Color tape marking shall not be acceptable for marking the ground.

1 **9-29.3(2)A3 Equipment Grounding and Bonding Conductors**

2 *This section is supplemented with the following:*

3
4 Equipment grounding shall be minimum #8 AWG unless otherwise shown in the plans.
5 When the ground is pulled through a conduit, the wire shall be insulated. Color tape
6 marking shall not be acceptable for marking the ground.
7

8 **9-29.3(2)B Multi-Conductor Cable**

9 *This section is supplemented with the following:*

10
11 Two-conductor through 10-conductor unshielded signal control cable, shall have
12 stranded copper conductors, size AWG 14, and shall conform to International Municipal
13 Signal Association (IMSA) signal cable 20-1.
14

15 **9-29.4 Messenger Cable, Fittings**

16 *This section is supplemented with the following:*

17
18 Messenger cable shall be 5/16-inch, seven-wire strand messenger cables conforming to
19 ASTM A 475, extra-high strength grade, 11,200 lbs. min. breaking strength, Class B
20 galvanized.
21

22 All guy eye anchor rods shall be double-hub type.
23

24 Weatherheads shall be clamp-on type PVC. Where used for signal or flashing beacon
25 conductors, the center of the wire entrance shall be cut or machined out to a large
26 diameter to accommodate entry of multi-conductors. All edges shall be smoothed to
27 avoid chaffing.
28

29 All miscellaneous nuts, bolts, washers and fittings shall be stainless steel or brass
30 unless otherwise noted.
31

32 All metal line hardware shall be hot-dipped galvanized in conformance with the
33 requirements of ASTM Designation A-153. All eyebolts shall be thimble eye design cast
34 or welded to form a solid eye.
35

36 5-strand, class B galvanized steel, pretwisted guy strand dead ends, high strength cable
37 conforming to ASTM Designation A-475, shall be utilized at all span wire terminations.
38 1/2" rope wire thimbles shall be required where span wire connects to all poles or bull
39 rings, except where thimble eye bolts are used. Span wire shall normally be installed
40 directly pole to pole, unless otherwise directed or specified.
41

42 Strain insulators shall be installed where connecting to wood poles. Where span wire is
43 connected to a steel or concrete pole, insulators shall not be installed. Strain insulators
44 shall be wet process, porcelain, conforming to EEI-NEMA Class 54-2 standards for
45 12,000-pound ultimate strength and shall be installed 9 feet from the pole.
46

47 **9-29.6 Light and Signal Standards**

48 *This section is supplemented with the following:*

49
50 All light and signal standards shall be fixed base except pedestrian pushbutton post shall
51 be breakaway per WSDOT standard plan J-20.15-03.

The head of the handhold security bolt shall be flush with the face of plate. The face plate of the handhole shall be flush with pole.

9-29.6(5) Foundation Hardware

This section is supplemented with the following:

All pedestrian pushbutton poles (Type PPB) shall be installed utilizing a Breakaway Base Connection system in conformance with WSDOT standard plan J-20.15-03. Bracket shall be sized to accommodate a standard push button pole with an outside diameter of 3.5-inches. Anchor bolt receivers shall be installed at 2-3/4-inch by 7-15/16 inch on center.

Section 9-29.6 is supplemented with the following new section:

9-29.6(6) City of Tacoma Universal Pole

Unless otherwise specified, light standards and strain poles shall be in conformance with the following City of Tacoma standard design.

Strength

Each pole and mast arm shall have adequate strength for the designated luminaire with 1.8 safety factor for maximum combined stresses using 90 mph isotach (117 mph gusts) per AASHTO specifications for structure supports for highway luminaires. Design shall be based on total loading of 50 pounds and EPA of 2.0 square feet.

Standard Bolt Spacing

30 Foot poles -- Baseplate shall accommodate 1 inch anchor bolts. The bolt circle shall be between 11 inches and 13 inches.

40 Foot Poles -- Baseplate shall accommodate 1 inch anchor bolts. The bolt circle shall be between 12.5 inches and 14.5 inches.

9-29.6(6)A Steel Strain Poles

Each pole shall be of tapered round or octagonal construction.

CLASS 1 POLE: Design for dead load tensions up to 1500 pounds

CLASS 2 POLE: Design for dead load tensions up to 2600 pounds

Class 1 poles shall have a minimum base diameter of 12-inches for octagonal poles and 12-1/4-inches for round poles. Poles shall have a minimum wall thickness of 0.3125-inches. Anchor bolts shall be 1-1/2-inch by 60-inches and shall have a spacing of 11-5/16-inches on center, on the square. It is the responsibility of the pole manufacturer to maintain proper clearance between the pole shaft and nuts for the anchor bolts.

Class 2 poles shall have a minimum base diameter of 13-1/2-inches for octagonal poles and 14-inches for round poles. Poles shall have a minimum wall thickness of 0.375-inches. Anchor bolts shall be 2-inch by 66-inches and shall have a spacing of 12-3/4-inches on center, on the square. It is the responsibility of the pole manufacturer to maintain proper clearance between the pole shaft and nuts for the anchor bolts

Poles shall be of single-ply construction. Multiple-ply poles shall not be allowed.

1 Each pole shall be of tapered round or octagonal construction. Pole taper shall be in the
2 range of 0.13 to 0.14 in/ft.

3
4 A base plate and top casting shall be securely attached to each pole. The attachment of
5 the base plate to the pole shall be a welded connection sufficient to develop the full
6 strength of the pole. The base plate shall have four (4) holes which will sufficiently
7 accommodate the specified anchor bolts for the pole class.

8
9 Pole shall be of sufficient strength to allow for the span wire to be installed to sag an
10 amount equal to 5% of the span length.

11
12 The maximum acceptable deflection, at 30 feet above the base, is 5 inches. The
13 specified deflection shall be at a loading condition of 1,500 pounds horizontal pull at 30
14 feet above the base for Class 1 Poles. For Class 2 Poles, the loading condition shall be
15 2,600 pounds horizontal pull at 30 feet above the base.

16
17 Structural material shall be zinc-coated by a "hot-dip" process in accordance with ASTM
18 A123 and the final coating shall measure 0.0039 inch or more in thickness as
19 determined by a magnetic thickness gauge. All tapped holes shall be chased after
20 galvanizing. Hardware shall be coated in accordance with ASTM A307.

21
22 The finished pole shall be reasonably straight and free from injurious defects. If
23 galvanizing is damaged, the maximum area to be repaired is defined in accordance with
24 ASTM A123 Section 4.6. The maximum area to be repaired in the field shall be
25 determined in advance by the Engineer. Repair areas damaged during construction,
26 handling, transport or installation by one of the approved methods in accordance with
27 ASTM A780 whenever damage exceeds 3/16 inches in width. Minimum thickness for
28 repair shall measure 0.0039 inches.

29
30 The company shall furnish the purchaser with template prints showing spacing and size
31 of holes in base for the anchor rods.

32
33 The material shall carry the manufacturer's standard guarantee against any defect in
34 material or workmanship for a minimum period of one year following the date of
35 installation. The Contractor shall submit mil test reports for all steel used in the
36 manufacturing of strain poles and pedestals.

37
38 The Contractor shall submit a Certificate of Compliance with ASTM Standards and
39 Specifications for galvanizing. The certificate, signed by the galvanizer, shall detail
40 galvanizing process and testing procedure to determine that galvanizing meets minimum
41 thickness specified.

42
43 The contractor shall submit welder certification. Welders must be certified to AWS
44 standards.

45
46 Each pole shall include the following:

- 47 1. One (1) rain-tight pole cap.
- 48 2. One (1) 4-inch by 6-1/2-inch handhole at base end with cover plate opposite
- 49 to mast arm.

3. Anchor bolts shall be hot dipped galvanized steel with two (2) galvanized nuts and two (2) washers for each bolt. Only 12-inches of threaded end of the bolts must be galvanized. 1-1/2-inch diameter bolts shall have 8-inches of top thread and 2-inch diameter bolts shall have 10-inches of top thread.

4. Anchor bolts shall have threaded bottom ends to receive an anchor plate and nut. The nut shall be tack-welded to the anchor plate. Anchor plates for 1-1/2-inch diameter anchor bolts shall be 4-inch square by 1-inch thick. Anchor plates for 2-inch diameter anchor bolts shall be 6-inch square by 1-inch thick

5. One (1) adjustable strain clamp to be mountable between 26 to 28 feet above the base. Clamp shall provide facility to attach span wire at four-quarter points.

6. Provisions for mounting a mast arm of specified length. All poles shall be supplied with one mast arm mounting flange. The centerline of the flange shall be approximately 6 inches below the top of 38-foot poles and 24 inches below the top of 30-foot poles. The flanges shall conform with the detail drawing included in the Special Provisions. Poles ordered without mast arms but with provisions for a later addition of a mast arm shall be provided with a metal cover and gasket to protect the opening being provided. The cover shall be bolted to the pole using the holes provided for fastening the mast arm.

7. One (1) two-inch coupling to receive clamp-on type aluminum weatherhead positioned at 27 feet, and no more than 45° from the location of the mast arm, unless otherwise specified.

8. One (1) 1-1/4-inch coupling for wire inlet located directly opposite the mast arm.

9. One (1) grounding lug-hole in lip of handhole for 1/2-NC brass bolt.

9-29.12(2) Traffic Signal Splice Material

This section is revised to read:

Induction loop splices and magnetometer splices shall include an uninsulated barrel-type crimped connector capable of being soldered. The insulating material shall be a heat shrink type meeting requirements of 9-29.12(1)A.

9-29.13 Control Cabinet Assemblies

This section is revised to read:

Cabinet shall be wired for a Siemens M60 Controller TS 2, Type 1.

The Contractor shall furnish and install the following traffic signal equipment in the quantities shown in accordance with the respective specifications provided:

Location
Fully
Loaded
Traffic
Controller
Cabinet
Traffic
Signal
Controller

1 MMU
 2 Ethernet
 3 over
 4 Copper
 5 Switch
 6 Preempt/
 7 Priority
 8 Equip.
 9 APS
 10 PPB
 11 Cabinet
 12 Control
 13 Unit
 14 Load
 15 Switch
 16 E Puyallup
 17 Ave
 18 *1 Included in Fully Loaded Traffic Controller Cabinet*
 19 E 31st St - 1 1 - 1 1 -
 20 119
 21 *E 32nd St 1 Included in Fully Loaded Traffic Controller Cabinet*
 22 E Fairbanks
 23 St
 24 *1 Included in Fully Loaded Traffic Controller Cabinet*
 25 E 38th St 1 *Included in Fully Loaded Traffic Controller Cabinet*
 26 E 40th St - - - - 1 - -
 27 E 44th St 1 *Included in Fully Loaded Traffic Controller Cabinet*
 28 E 48th St 1 *Included in Fully Loaded Traffic Controller Cabinet*
 29 E 56th St 1 *Included in Fully Loaded Traffic Controller Cabinet*
 30 E 64th St - - - - 1 1 2
 31 E 72nd St 1 *Included in Fully Loaded Traffic Controller Cabinet*
 32

33 **9-29.13(1) Traffic Control Cabinets**

34 Each Traffic Controller Cabinet shall meet the following requirements:
 35

36 1. The Controller Cabinet shall be a NEMA P44 Controller Cabinet. The cabinet
 37 shall be constructed of 0.125" minimum thickness 5052 H32 ASTM B209
 38 aluminum alloy and be of clean cut design and appearance. The cabinet
 39 shall be unfinished, inside and outside. The cabinet shall be provided with a
 40 UL sticker, and shall meet NEMA 3R rating for enclosures.
 41

42 2. The cabinet shall have aluminum interior metal side mounted panels for
 43 mounting auxiliary equipment without drilling through the outer cabinet.
 44 Panels shall be mounted on "C" channel rails sufficient in strength to
 45 accommodate planned and future equipment needs.
 46

47 3. The cabinet shall have two (2) aluminum shelves with a 3/4" lip on the front
 48 edge of the shelf.
 49
 50
 51

1 4. A hinged door shall be provided permitting complete access to the cabinet
2 and the equipment to be contained therein. When closed, the door shall fit
3 closely to the gasket material making the cabinet weather-resistant and dust
4 tight. The door shall be provided with a standard traffic signal lock with a #2
5 key. The door hinge pins shall be stainless steel and all other exposed
6 hardware shall be non-corrosive. In addition to the main cabinet door, there
7 shall be an auxiliary police door fitted with a standard police lock. The panel
8 behind this door shall contain switches as detailed under auxiliary equipment.

9
10 5. Interior cabinet welds shall be continuous for all lap and butt welds.
11 Intermittent welds or silicone adhesive shall not be accepted in place of a
12 weld for weathertight penetrations.

13
14 6. The cabinet shall be designed for mounting on a concrete pad with anchor bolts and
15 typical flanges inside the cabinet. There shall be a minimum ten
16 (10) inch vertical clearance above the front half portion of the base area to
17 provide a clearance for conduit and cable entering the cabinet.

18 19 **9-29.13(2) Submittals**

20 The following submittals will be required for the review and approval by the City prior to
21 fabrication and wiring:

- 22
23 1. Proposed cabinet layout diagram including shelving/rack locations. In
24 addition, detailed diagrams shall be provided for the left side, right side, and
25 back panels. Drawings shall be clearly labeled and dimensioned.
26 2. Proposed cabinet wiring diagram shall be submitted for the review and
27 approval by the City. Wiring of cabinets shall not commence prior to City
28 approval of the cabinet wiring plan.

29 30 **9-29.13(3) Wiring**

31 All wiring within the cabinet shall be neat and firm. All cabinet wire shall be amply rated
32 for the function intended and shall include the use of terminal and suitable identification
33 labels.

34
35 Connectors and harnesses shall be provided as defined in the latest NEMA TS 1
36 standard. Connector A & B shall be supplied for the monitor unit. Connector A, B, C
37 & D shall be supplied for the controller unit. Wire for harnesses shall conform to MIL
38 W-16878E Type B, and shall be rated to 600 volt, 105 degree Celsius. Wire shall be
39 22 gage, 19 strand. Wires shall be connected to the heads in the form of crimp
40 pinned connections. Solder lugs shall not be allowed. Connectors shall conform to
41 MIL-C-26482 Series 1. Cables shall be covered with nylon expandable sleeving.
42 Spiral wrap shall not be used. Termination points of the harnesses shall be
43 accessible to the technician without requiring the backpanel to be dropped. Unused
44 harness wires shall be tied to the furthest location on the front of the backpanel and
45 shall be capped off.

46
47 Wires other than harnesses for the monitor and controller shall be THHN, rated at
48 600 volt, 105 degree Celsius, and shall be a minimum of 22 AWG.

49
50 Non insulated connectors shall be utilized for all connection to the TS2 Terminal Strip.

9-29.13(4) Auxiliary Equipment

9-29.13(4)A Traffic Signal Controller

Traffic Signal Controller shall be a Siemens M60 ATC Controller. The Contractor shall contact the City of Tacoma Traffic Signal Shop at 253-491-5287 to obtain the current firmware version to be utilized. Contractor shall include an M50 sub-assembly data key module and a 5MB flash data key.

9-29.13(4)B Malfunction Management Unit (MMU)

The cabinet shall come with a (MMU) that meets all the requirements of NEMA TS2-2003 while remaining downward compatible with NEMA TS1. The MMU shall be from one of the following manufacturers:

- Eberle Design, Inc. model MMU-16LEip

Contractor shall provide a compatible TS2 program card.

9-29.13(4)C Vent fan

A thermostat controlled vent fan assembly with screened vents with replaceable filters for cabinet ventilation. The fan shall have a rating of 100 CFM and the thermostat setting to allow variable turn-on between 90 degrees and 140 degrees Fahrenheit. The fan motor shall use ball-bearings. This unit shall be fitted with an electrical noise suppressor.

9-29.13(4)D Load Switches

Modular solid state relay load switching assemblies, in accordance with the latest NEMA TS 1 Standards, shall be used for opening and closing signal light circuits and shall be jack-mounted external to the controller unit. Indicator lights shall be connected to input circuits. Load switches shall be rated at twenty-five (25) amps per circuit. Each cabinet shall contain twelve (12) load switches.

9-29.13(4)E NEMA Flasher

The flasher shall be solid state, two circuit with a minimum current rating of twenty five (25) amps per circuit.

9-29.13(4)G Detector Power Supply

Auxiliary power supply for detectors power shall meet minimum TS 2-2003 standards

9-29.13(4)H Ethernet over Copper Switch

The Ethernet over copper switch shall be EtherWAN ED3575-622 Hardened Managed Switch with 2 VDSL2 Ethernet Extender ports. 6 10/100TX, + Gigabit SFP Combo + 2 Copper Pair VDSL2 Ports. Din Rail or Panel Mount. Terminal Block power connector, redundant 12 - 48VDC power input.

Power Supply shall be 30 Watts, 24VDC Output, Industrial Din Rail Mount, for EtherWAN Switch P/N ED3575-622.

1 **9-29.13(4)I Preemption/Priority Equipment**

2
3 Preemption/priority phase selector equipment shall include an Opticom Model 760 Card
4 Rack and an Opticom Model 764 Multimode Phase Selector.

5
6 **9-29.13(5) Electrical Design**

7
8 **9-29.13 (5)A Side Panels**

9 Left and Right Side Panels shall be 12"x47" in one continuous piece of smooth finish
10 aluminum no smaller than 16 gauge and no larger than 12 gauge. The side panels are
11 to be mounted 13" from rear and 2" from bottom of cabinet.

12
13 The left side panel shall contain the following:

- 14 1. TS2 - Loop Field Wire Terminals, 64-position, double row, high barrier block
15 with #6/32 slotted brass screws.
- 16 2. TS3 - Ped and Pre-Empt Terminals, 24-position, double row, high barrier
17 block with #6/32 slotted brass screws.
- 18 3. TS4 - Special Function Terminals, 30-Position, double row, high barrier block
19 with #6/32 slotted brass screws. Wired to a 37 pin "D" connector w/clips.
- 20 4. TS9 - Isolated Neutral Buss, 24 Position, solid copper bar with #10/32 slotted
21 brass screws.
- 22
- 23 5. TS18 – SDLC Termination, 10-position, double row, high barrier block with
24 #6/32 slotted brass screws.
- 25 6. GB1 - Ground buss, 10-position, standard copper grounding buss bar
26 suitable for #14 through #4 cu.

27
28 The right side panel shall contain the following:

- 29 7. TS11 - Isolated Neutral Buss, 24-position, solid copper bar with #10/32
30 slotted brass screws.
- 31 8. TS14 - Communication Terminals, 12-position, double row, high barrier block
32 with #6/32 slotted brass screws.
- 33 9. TS15 - Detector Power Terminals, 8-position, double row, high barrier block
34 with #6/32 slotted brass screws.
- 35 10. TS20 - Line Side AC Terminal, 2-position, double row, deadfront block
36 suitable for #6 cu.
- 37 11. GB2 - Ground buss, 20-position, standard copper grounding buss bar
38 suitable for #14 through #4 cu.

39
40 **9-29.13(5)B Back Panel**

41
42 The Back panel shall include the following:

- 43
- 44 1. A flash panel control assembly using NEMA flashing relays to provide
45 flashing sequence for a minimum of ten (10) circuits. All spare circuits shall
46 be wired and terminated on a terminal strip and shown on the wiring diagram.
47 The intersection shall be capable of being placed on flashing operation by the
48 conflict monitor, remote input, internal controller time clock and door switch.
49 Conflict flash shall be all-red. Remote and internal controller time clock flash
50 shall be in accordance with MUTCD flash.
- 51 2. Load switch sockets 1, 4, 5, and 8 wired to flasher circuit #1. Load switch

- sockets 2, 3, 6, and 7 wired to flasher circuit #2.
3. Install 2200 ohm, 10 watt load resistors on the green and yellow outputs of load switch sockets 1, 3, 5, 7, and 13. The resistors should be mounted to afford good air circulation.
4. Screw-type terminal strips for all NEMA controller input and output functions.
5. A minimum of thirteen sockets for NEMA load switches.
6. Load switch sockets 1 through 8 shall be for vehicle phases, 9 through 12 for pedestrian phases, and 13 wired and terminated on the back panel.
7. All terminals to be labeled front and rear of back panel.
8. All wire to enter lower edge to facilitate folding down back panel.
9. Hinging of back panel not to interfere with operation of signal while in service.
10. Bottom of back panel to be 7" above bottom of cabinet.

9-29.13(5)C Power Panel

The power panel shall be located in the lower right of the cabinet.

The power panel shall contain a 30 AMP circuit breaker, transient and over voltage protection lightning arrestors, 60 AMP line filter, solid state contactor rated for 50-amp minimum to supply loadbay power. An auxiliary 15 AMP circuit breaker shall be provided to supply GFI, fan and cabinet light.

Line side power terminal shall be a deadfront type rated at a minimum of 300V, 50 amp suitable for #6 cu.

Power panel shall include a two-stage, electrically isolated transient voltage suppressor capable of dissipating a high energy surge of 20KA (8x20 microsecond pulses) while clamping the output voltage to 340 volts or less. Isolation shall be provided between the neutral and ground connections.

Circuit breakers shall be Seimens, Square D, GE, Eaton/Cutler Hammer, or Engineer approved equal.

9-29.13(5)D Convenience Outlets

A 120 VAC GFI type outlet with screw terminals shall be provided and mounted as part of the Auxiliary panel. A second non-GFI outlet, on a separate circuit will be mounted at the upper left corner of the right side panel.

9-29.13(2)E Cabinet Illumination

Two LED light strips shall be provided for cabinet illumination. One shall be mounted to the top front of the cabinet interior, and shall be rated at a minimum of 475 lumens. A second LED light to illuminate the load bay area shall be mounted under the lower shelf and be rated at a minimum of 240 lumens. A door switch shall be wired so as to allow the lights to operated only when the door is open.

1 **9-29.13(5)F Police Panel**

2
3 The police panel shall contain the following switches:

- 4
5 1. Main Power Switch: This shall completely shut down power to the cabinet.
6 The switch shall be rated at 50 Amps
7 2. Auto/Flash Switch: This shall put the intersection into flashing operation
8 when placed in the "Flash" position. It shall also apply Stop Time to the
9 Controller when place in the "Flash" position.

10
11 **9-29.13(5)G Auxiliary Panel**

12
13 The auxiliary panel, mounted on the inside of the door, shall contain the following
14 switches:

- 15
16 1. Three-position detector switches (auto/off/test) to lock in all three positions.
17 2. Manual switches (auto/test) to test pre-empt 5, & 6.
18 3. Switch to select coordination or free operation.
19 4. Switch for cabinet light.
20 5. Stop time switch (on-off-auto).
21 6. Controller power switch (on-off).
22 7. Auto-flash switch.
23 8. Switch to select Interconnect or Timebase Operation.

24
25 **9-29.15 Flashing Beacon Control**

26
27 *This section is renamed and replaced with the following:*

28
29 **9-29.16 Vehicular Signal Heads, Displays, and Housing**

30
31 **9-29.16(2)B Signal Housing**

32 *The second paragraph is supplemented with the following:*

33
34 The door shall open a minimum of 160 degrees.

35
36 *The third paragraph is supplemented with the following:*

37
38 The sections shall be held firmly together by corrosion-resistant hardware in such a
39 manner that additional sections may be added easily.

40
41 *The fourth paragraph is supplemented with the following:*

42
43 The terminal strip for a standard three-section head shall be a minimum five-position,
44 ten-terminal, barrier-type strip with No. 8 screw-type fasteners. To one side of each
45 terminal shall be attached the white, red, yellow and green signal section leads, leaving
46 the opposite terminal for field wires. Multi-section heads shall be provided with a
47 terminal strip located in the yellow (center) section. Lead shall be No. 18 AWG type with
48 1/32-inch wall, 105-1/4 centigrade thermoplastic insulation.

1 **9-29.16(3) Polycarbonate Traffic Signal Heads**

2 *This section is deleted.*

4 **9-29.17 Signal Head Mounting Brackets and Fittings**

5 *This section is revised to read:*

7 Vehicle and pedestrian signal heads shall be as detailed in the standard plans.

9 Span wire vehicle signal hanger hardware shall consist of span wire clamp, balance
10 adjuster, wire entrance fitting and vehicle head locking device.

12 **A. Construction**

13 1. Bronze hangers are required.

14 2. The minimum size of pins shall be 5/8-inch diameter. Pins shall be stainless
15 steel.

16 3. The minimum size of the 'J' or 'U' cable clamps is 1/2-inch diameter. Cable
17 clamp bolts shall be stainless steel. Clamping insert shall be used.

18 4. The cable saddle shall be at least 9 inches long.

19 5. All cotter pins shall be brass and washers shall be stainless steel.

20 6. All hardware shall be of stainless steel, bronze or brass materials.

21 7. Signal stem shall be locked with a square headed set screw 1/4-inch
22 minimum in diameter.

23 8. Wire entrance shall be a minimum of 1-1/4-inch diameter and shall have a
24 female threaded base for nipple.

25 9. The balance adjuster directional lock shall be of the clamping type with 1/2-
26 inch through bolt for locking. No set screw or lock nut acceptable.

27 10. All stems shall be secured to signal head with proper lock fitting.

29 Vehicle signal heads attached to a mast arm shall use a type M mounting bracket as
30 detailed in the standard plans and in accordance with Section 8-20.3(14)B and Section
31 9-29.17.

33 **9-29.18 Vehicle Detector**

35 *This section is supplemented with the following:*

37 The Contractor shall furnish and install the following vehicle detection equipment,
38 relocate detection equipment, and salvage detection equipment in the quantities and as
39 shown in accordance with the respective specifications provided:

41 **Location**

42 **Detection Type**

43 **Existing Proposed**

44 E Puyallup Ave

45 4 Thermal Detection

46 Cameras

47 Remain as is

48 E 31st St Induction Loops Remain as is

49 E 32nd St

50 2 Video Detection Cameras

51 (salvage to City of Tacoma)

1 2 Thermal Detection Camera
2 (moved to E 40th St)
3 1 GridSmart Detection Camera
4 E Fairbanks St
5 Induction Loops
6 (abandon in place)
7 1 GridSmart Detection Camera
8 E 38th St
9 Sensys Pucks
10 (abandon in place)
11 Induction Loops
12 (abandon in place)
13 1 GridSmart Detection Camera
14 E 40th St
15 3 Video Detection Cameras
16 (salvage to City of Tacoma)
17 1 Thermal Detection Camera
18 2 Thermal Detection Cameras
19 (relocated from E 32nd St)
20 1 Thermal Detection Camera
21 (relocated from E 48th St)
22 1 Thermal Detection Camera
23 (remain as is)
24 E 44th St
25 4 Video Detection Cameras
26 (salvage to City of Tacoma)
27 1 GridSmart Detection Camera
28 E 48th St
29 3 Video Detection Cameras
30 (salvage to City of Tacoma)
31 1 Thermal Detection Camera
32 (moved to E 40th St)
33 1 GridSmart Detection Camera
34 E 56th St
35 4 Video Detection Cameras
36 (salvage to City of Tacoma)
37 1 GridSmart Detection Camera
38 E 64th St
39 1 GridSmartDetection
40 Camera
41 Remain as is
42 126
43 E 72nd St
44 4 Video Detection Cameras
45 (salvage to City of Tacoma)
46 1 GridSmart Detection Camera
47
48 *This section is supplemented with the following:*
49
50

9-29.18(3) Thermal Detection System

The system provided shall provide all necessary components required in order to fully install, setup, test, operate and maintain a fully functional detection system, including, but not limited to, the following components:

1. Thermal imaging video cameras, including camera enclosure, lens, lens adjustment modules, filters, sunshields and connector kits where applicable.
2. Camera mount assemblies, including extensions as required.
3. Camera mount utility box with connectors.
4. Video Image Processors
5. Input/output expansion modules
6. 9.5" to 10" LCD video monitor, including cable
7. Camera control keypad or otherwise applicable programming devices or software. One device is required for each cabinet.
8. Surge suppressors (in cabinet)
9. Data and power cables
10. Video System Communication Module
11. All other equipment necessary for a fully operational detection system.

The Video System Communication Module and the Input/Output Expansion Module shall be the same manufacturer as the Video Image Processor. All other equipment shall be fully compatible with the thermal cameras, and Video Image Processors and shall be in accordance with the manufacturers recommendations.

9-29.18(3)A Thermal Detection Cameras

The cameras shall use thermal imaging technology and meet the following requirements:

1. Interface with Video Image Processor (VIP) in the controller cabinet
2. Array Format: 320x240 NTSC
3. Detector Type: Long-Life, Uncooled VOx Microbolometer
4. Effective Resolution: 76,800
5. Pixel Pitch: 25µm
6. Focal Length (Field of View): 9mm(489mmld o), 13mm(34° × 26°) or 19mm(24° × 18°)
7. Spectral Range: 7.5 to 13.5 µm
8. Focus Range: Athermalized; focus-free
9. Outputs: BNC and connector-free video cable terminal strip
10. Video Output: NTSC or PAL
11. Input Voltage: 90-240 VAC Single Phase
12. Mounting Provisions: Two ¼-20 threaded holes, 1" spacing along centerline front to back
13. IP66 rated
14. Operating Temperature Range: -50°C to 75°C
15. Meets or exceeds NEMA TS 2-2003 requirements for operating voltage, operating frequency, ambient temperature, humidity, vibration & shock.
16. 10 year detector warranty, 2 year parts and labor

9-29.18(3)B Video Image Processor

The Video Image Processor (VIP) shall be modular by design and fit directly into NEMA TS1 & TS2 type racks. The VIP shall be interchangeable between a shelf or rack mount installation without replacing or modifying existing VIP units.

1
2 The Video Image Processor shall meet the following requirements:

- 3 1. The VIP shall provide a "Thermal On/Off" setting so the system can be
- 4 optimized to work with the image from a thermal camera.
- 5 2. The system shall control from 1 to 6 VIP boards allowing for 1 to 12 image
- 6 sensors.
- 7 3. The system shall be designed to operate reliably in the adverse environment
- 8 of roadside cabinets and shall meet or exceed all NEMA TS1 and TS2
- 9 environmental specifications.
- 10 4. Ambient operating temperature shall be from -34 to +74 degrees Centigrade
- 11 at 0 to 95% relative humidity non-condensing.
- 12 5. The system shall be powered by 12-40 VDC and draw less than 2 amperes.
- 13 6. The system shall utilize cabinet 24 VDC for rack mount installations or
- 14 external 24 VDC for stand-alone shelf installations.
- 15 7. Surge ratings shall be set forth in the NEMA TS1 and TS2 specifications.
- 16 8. Serial communications shall be through an RS232 serial port. This port can
- 17 be used for communications into a modem or laptop to upload/download
- 18 detector configurations, count data and software upgrades. RS485 on the
- 19 rear edge connector shall facilitate communications to other VIP boards.
- 20 9. Each VIP board shall have 4 opto-isolated open collector outputs. Twenty
- 21 (20) additional outputs shall be available via the expansion port. The
- 22 VIP/3Ds shall have 20 presence detection zones and 4 data detection zones
- 23 per camera. Data zones shall collect and store vehicle counts, volume,
- 24 speed, gap time, headway, occupancy, and classification. Data shall be time
- 25 stamped (6713 intervals) and stored onboard (non-volatile memory) in
- 26 intervals from 1-60 minutes.
- 27 10. Data alarms are generated for: queue, inverse direction, speed drop, no
- 28 video, and errors.
- 29 11. Must be able to provide single or double loop emulation.
- 30 12. Presence hold time must have parameters that range from 10 to 600
- 31 seconds.
- 32 13. Each VIP board shall allow for 20 digital inputs via the I/O Expansion port.
- 33 14. Each VIP board shall have error detection. Outputs will be turned "ON" if the
- 34 video signal is bad or the VIP board is not functioning properly. A user
- 35 defined quality level will automatically put selected outputs to recall in cases
- 36 of severe degraded visibility (i.e., fog, blizzard, etc.). Normal detection
- 37 resumes when visibility improves above the user defined quality level.
- 38 15. Operator selectable recall shall be available via the VIP front panel. Holding
- 39 the recall switch on for 5 seconds shall activate this function.
- 40 16. A video select button on the VIP front panel will switch between camera
- 41 images.
- 42 17. The VIP board shall have 2 video inputs (RS-170 NTSC or CCIR composite
- 43 video) and one video out.
- 44
- 45 18. The VIP board shall have a reset button on the front panel to reset video
- 46 detectors to "learn" the roadway image. During "relearn", selectable recall
- 47 can be enabled or disabled for immediate operation. Learning time of video
- 48 detectors shall be less than 6 minutes.
- 49 19. External surge suppression, independent of the VIP board shall separate the
- 50 VIP from the image sensor.
- 51 20. The VIP module shall have an onboard database capable of time stamping

1 and storing 500 events. The Event Log Database can be viewed or
2 downloaded to a selected spread sheet. Erasure of the Event Log Database
3 shall not alter programmed configurations. As a minimum, the VIP shall log
4 and time stamp the following events:

- 5 a. Firmware upgrade.
- 6 b. Loss of video signal.
- 7 c. Resumption of video signal.
- 8 d. Configuration change.
- 9 e. Bad video quality.
- 10 f. Loss of power to VIP module.
- 11 g. Resumption of power to VIP module.
- 12 h. Speed alarm.
- 13 i. Inverse direction.
- 14 j. Recall activated.

15 21. The VIP module shall perform the following functions:

- 16 a. Real Time Detection
- 17 b. Each VIP board shall be capable of processing the video signal of one or
18 two cameras. The video signal shall be analyzed in real time (30 times
19 per second for NTSC video format and 25 frames per second for pal video
20 format).
- 21 c. The system shall be expandable up to 12 cameras that may be connected
22 to different VIP units and programmed independently.
- 23 d. The system shall be capable of displaying detectors on the video image
24 with associated outputs. Outputs/Inputs status will be indicated on the
25 screen. Parameters will also include the ability to view raw video without
26 any verbiage and/or detectors for surveillance purposes.
- 27 e. Each VIP board will detect within the view of the connected camera the
28 presence of vehicles in user defined zones. Detectors available shall be
29 presence, count, delay, extension, or pulse mode for either arrival or
30 departure of vehicles. Delay and extension shall be defined between 0.1
31 – 99.9 seconds and pulse mode between 0 – 200ms in 33ms increments if
32 NTSC is used. Each VIP board shall also detect and collect within the
33 view of the connected camera traffic data of passing vehicles in user
34 defined zones.
- 35 f. Collected traffic data by direction shall include:
 - 36 • Volume (absolute numbers) per length class and per lane.
 - 37 • Average speed (km/h or mph) per length class and per lane.
 - 38 • Average gap time (1/10 sec) per length class and per lane.
 - 39 • Average headway (m or feet) per lane.
 - 40 • Occupancy (%) per lane
 - 41 • Concentration (vehicles/km or mile) per lane.
 - 42 • Average length (m or feet) per lane.
 - 43 • Confidence level (0-10) per lane.
- 44 g. The VIP board shall be programmed without the use of a supervisor
45 computer. A standard CCTV monitor and keypad plugged into the VIP
46 serial port will facilitate detector programming.
- 47 h. The VIP board shall store up to 4 detector configurations. It shall be
48 possible to switch between detector configurations manually,
49 automatically by time of day or remote input.
- 50 i. Via the serial port, detector configurations can be uploaded to a laptop
51 and stored on disk.

- j. Detectors may be linked to 24 outputs and 20 inputs using Boolean Logic features: AND, OR, NOT. It will be possible to generate conditional outputs based upon inputs from a controller.
- k. It shall be possible to make a detector directional sensitive. Options will include an omni-directional detector or a detector that only senses movement: from right to left, left to right, up to down or down to up as you look at the monitor.
- l. All detectors and parameters can be changed without interrupting detection. For example: when one detector is modified all existing detectors continue to operate, including the one that is being modified. When the new position is confirmed, the new detector will enter a learning phase. Once the new detector is in function it will take over the job of the old one. In this way, the detector is always fully operational with no interruption on any detector, even during modification. Learning phases for new detectors shall not exceed 6 minutes.
- m. Four data detection zones per camera on a two camera VIP board may be used for collection of vehicle count, speed, classification, occupancy, density, headway, and gap time.
- n. Eight data detection zones may be used on a single camera VIP board.
- o. These detectors will detect and store traffic data at user-defined intervals of 1, 2, 3, 5, 6, 10, 15, 30 & 60 minutes. It shall be possible for each VIP board to store up to 6713 intervals of data in non-volatile memory.
- p. Associated software may be used with a PC to download data and export to a spreadsheet. Software will also be used to upload and download detector configurations, traffic data, technical events, send software versions upgrades and do remote setup of detectors.
- q. The VIP board shall have an internal clock with daylight saving time system, which can be enabled or disabled.
- r. The VIP board shall provide overlaid tool tips for each individual menu and submenu-items.
- s. The VIP board shall have an optional password implementation. Different user-levels shall be available each having different rights.
- t. A minimum of 10 users can be defined for each user-level.
- u. The VIP board shall be able to delay or extend a detector zone output in combination with an input from the controller.
- v. The VIP board shall detect wrong-way drivers and shall provide an alarm/event via communication board and/or output.
- w. The VIP board shall provide an alarm and/or output when the user selected queue detection threshold of occupancy is exceeded for more than a user selected time threshold.
- x. The VIP board shall distinguish five classes of detected vehicles based upon user selectable vehicle length thresholds.
- y. The VIP shall be able to emulate loop emulation with user selectable loop dimensions.

9-29.18(3)B Video System Communication Board

The Communication board shall be of the same manufacturer as the Video Image Processor.

1 The Communication board shall be modular by design and housed in either a self
2 contained stand-alone unit or fit directly into NEMA TS1 & TS2 type racks.

3
4 The Video System Communication Board shall meet the following requirements:

5 1. The Communication board shall control from 1 to 6 VIP boards allowing for 1
6 to 12 image sensors.

7 2. The system shall be designed to operate reliably in the adverse environment
8 of roadside cabinets and shall meet or exceed all NEMA TS1 and TS2
9 environmental specifications.

10 3. Ambient operating temperature shall be from -34 to +74 degrees Centigrade
11 at 0 to 95% relative humidity non-condensing.

12 4. The system shall be powered by 12-40 VDC and draw less than 2 amperes.

13 5. Serial and Ethernet (TCP/IP) communications shall be through respectively
14 an RS232 serial port (F DB9 connector) and Ethernet port (RJ-45
15 connection). These ports can be used for communications to a laptop or
16 modem to upload/download detector configurations, traffic data, technical
17 events, send software upgrades and do remote setup of detectors. RS485 on
18 the rear edge connector shall facilitate communications to VIP boards.

19 6. Surge ratings shall be set forth in the NEMA TS1 and TS2 specifications.

20 21 **9-29.18(4) LED Optical 3D Detection System**

22
23 The Optical 3D Detection System shall be an auto ranging device that detects all types
24 of vehicles, including motorcycles and bicycles within the detection zones by measuring
25 the time-of-flight of non-visible light emitted by LED's (light emitting diodes) in the sensor
26 and reflected by objects (vehicles) in programmed detection zones. The detected zone
27 actuation shall be communicated to a traffic signal controller through the controller
28 interface card. The sensor shall operate and provide accurate presence and pulse
29 detection at a range of up to 200 feet from the sensor. The Optical 3D Detection System
30 shall consist of a single enclosure that contains the integrated sensor and shall include
31 the LED light pulse emitter, sensor receiver, detection processor, image sensor and the
32 integrated image sensor pan and tilt platform. The controller interface cards shall be a
33 four channel configuration. Communication and power between the sensor and the
34 controller interface card shall be provided via a single Ethernet CAT 5 cable. A 48 volt
35 power supply that powers up to four sensors shall be provided. Software to configure
36 the sensor and the controller interface card shall be included with each sensor.

37 38 **System Operations**

39 Configuration of each sensor and controller interface card shall be with a standard PC
40 operating on the Windows XP, Windows Vista or Windows 7 operating system. The
41 software shall be included with each sensor and be user friendly and intuitive and
42 require no specialized training. The sensor shall be capable of being programmed to
43 detect the presence of vehicles (car, truck, bus, motorcycle, and bicycle) in up to sixteen
44 zones of detection. A detection zone location and size shall be user definable. The
45 configuration of the detection zone shall be completed by tracing the virtual detection
46 zones on the image provided by the on-board image sensor. The sensor shall detect
47 vehicles in real time as they travel through each detection zone. The sensor shall
48 operate accurately in all types of weather conditions without significant performance
49 loss. The sensor shall be able to detect the presence of any type of vehicle that enters
50 the zone including bicycles without adjusting the sensitivity of the detection zone. The
51 sensors pan and tilt orientation shall be accessible and adjustable plus or minus 7

degrees in the sensor configuration mode. The sensor image shall provide an overlay of the sensor's active grid 16 field-of-view range outputs, user defined detection zones and the on-board image sensor display output. Software to allow remote viewing and system management shall be included with each sensor. Two or more controller interface cards shall be capable of being connected together via Ethernet cable to assign outputs to controller as required without re-wiring the controller. The controller interface cards shall be DIP switch programmable to allow for one card to serve as a DHCP server in locations equipped with multiple sensors and controller interface cards. The controller interface card shall have a RJ45 port for communications with an external computer for configuration, diagnostic and remote management applications. The sensor and the controller interface card shall be capable of accepting software and firmware upgrade via a RJ45 port. The confirmation of detection shall be provided by a signal sent from the sensor to the controller interface card through a CAT 5 cable. An LED indicating that the call is sent to the controller shall be included on the controller interface card. One LED shall be provided for each channel of detection.

Sensor

The sensor shall be a single enclosure and conform to the IP67 standard. The sensor shall be one piece and water tight and shall mount easily to standard mast arms, poles, etc. with standard traffic signal mounting hardware. The sensor shall operate at temperatures from -29°F to +140°F (-34°C to 60°C). The sensor shall operate with 48 Volt DC using industry-standard Power over Ethernet (PoE) technology. The sensor shall be equipped with an onboard motorized pan and tilt platform to finalize the aim of the sensor, the adjustment shall provide plus or minus 7 degrees in each direction. The integrated motorized pan and tilt platform shall be adjustable from the traffic signal cabinet through software supplied with the sensor. The sensor shall be equipped with an onboard image sensor to facilitate the detection zone set-up as well as the final alignment of the sensor by providing a visual feedback to the operator. The sensor shall be IP addressable and shall be capable of transmitting the sensor operation and images via Ethernet connection to the Traffic Operations Center.

Controller Interface Card

The controller interface card shall be available in a two channel configuration, four channel configuration half width and a four channel configuration. The controller interface card shall operate in standard 170, 2070, TS-1 and TS-2 detector racks. The controller interface card shall be equipped with a detection delay and extend feature.

The controller interface card shall be equipped with an LED that indicates that the sensor has detected a vehicle presence and the call is being sent to the controller. The controller interface cards shall be equipped with three RJ-45 connections that provide connections to the sensor, LAN in and LAN out. The controller interface cards shall be IP addressable and provide the access to the sensor via the RJ45 port. The controller interface cards shall be equipped with DIP switches that allow the operator to configure the cards to be a DHCP server and allow the daisy chaining of cards in the same cabinet for Ethernet communication.

48V Power Supply

The 48 volt power supply shall be a stand-alone unit that provides power to the sensor(s) through a port in the controller interface card. The 48 volt power supply shall be available in two configurations. Configuration one shall provide power to a single sensor, configuration two shall provide power from two to four sensors.

1 **Detector Rack Power Supply**

2 The detector rack power supply shall be 24 volt DC and supply power to the detector
3 rack and connected controller interface cards. The detector rack power supply shall be
4 standard 170, 2070, TS-1 and TS-2 configuration.

6 **9-29.19 Pedestrian Push Buttons**

7 *This section is supplemented with the following:*

9 Pushbuttons shall be steel with a directional vibro-tactile arrow. Push buttons shall be
10 fully voice messaging APS compliant and fully programmable/customizable by the end
11 user. Pushbuttons shall be provided to the City for programming/messaging 2 weeks
12 prior to installation.

14 The sign shall be in conformance with MUTCD R10-3b, 9" x 12".

16 The unit shall be black. The assembly shall include the cabinet control unit if applicable
17 to the brand selected. A 4" pole adapter shall be included for locations where two
18 pushbuttons are mounted to the same 4" pole.

20 If additional conduit pathways are required between the pushbutton and the pedestrian
21 head, due to the contractor's selection of pedestrian push button manufacturers, the
22 Contractor shall submit a revised design with the submittal of the push button material.
23 The design shall be stamped and signed by a licensed professional engineer. Required
24 additional pathways shall be provided at no additional cost to the City.

26 **9-29.20 Pedestrian Signals**

27 *This section is supplemented with the following:*

29 All pedestrian signals housings shall be die-cast aluminum.

31 *The Vacant Section 9-29.22 is replaced with the following:*

33 **9-29.22 Preemption Hardware**

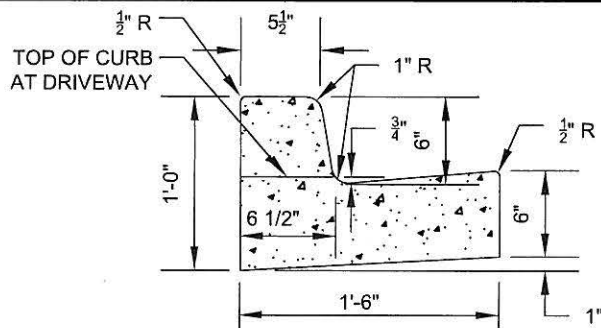
35 Preemption Hardware shall be Opticom TM Model 721 unless otherwise specified.

38 **END OF SECTION**

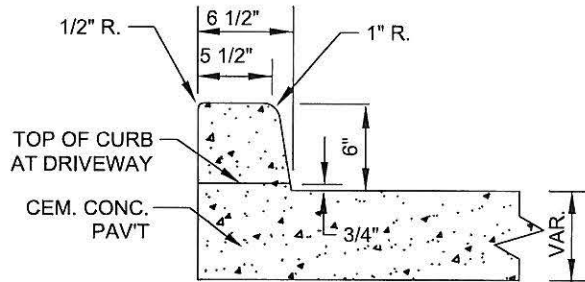
41 **END OF SPECIAL PROVISIONS**

APPENDIX A

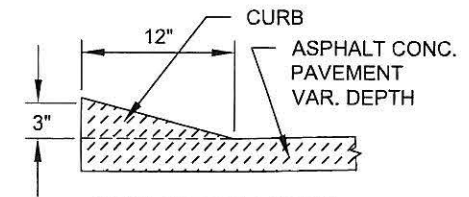
CITY OF TACOMA STANDARD PLANS



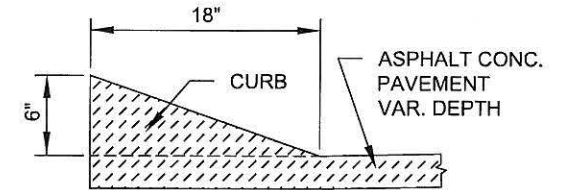
CEMENT CONCRETE TRAFFIC CURB & GUTTER



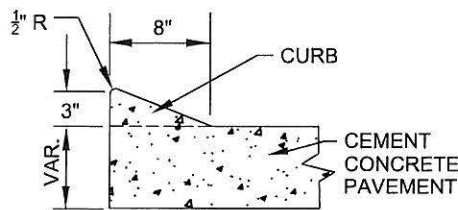
INTEGRAL CEMENT CONCRETE TRAFFIC CURB



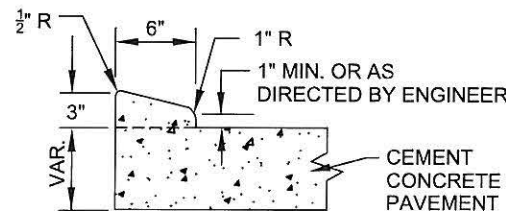
HMA WEDGE CURB STANDARD



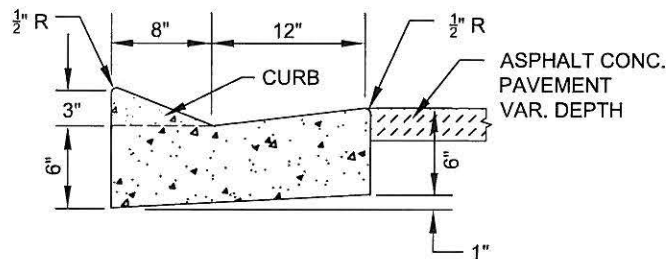
HMA WEDGE CURB DOWNHILL SIDE OF FULL STREET WARP



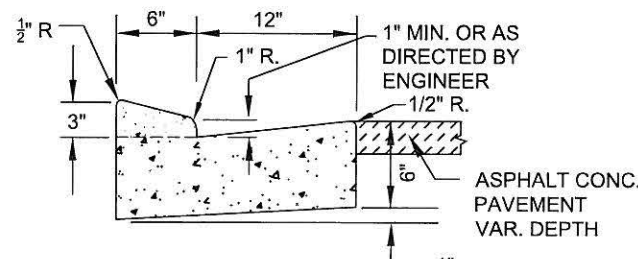
TYPE 'C' MOUNTABLE INTEGRAL CEMENT CONCRETE CURB



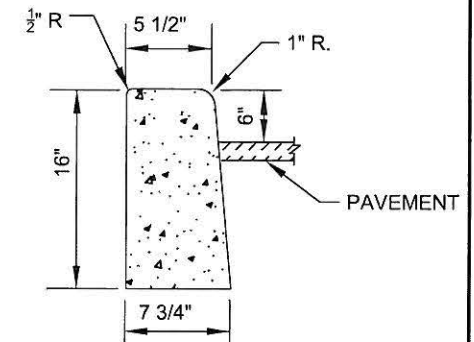
TYPE 'D' MOUNTABLE INTEGRAL CEMENT CONCRETE CURB



TYPE 'C' MOUNTABLE CEMENT CONCRETE CURB & GUTTER



TYPE 'D' MOUNTABLE CEMENT CONCRETE CURB & GUTTER



CEMENT CONCRETE TRAFFIC CURB

NOTE:

For trench crossings, curb and gutter shall be removed to a minimum 2' cut back over undisturbed soil. In all projects, any remaining sections of curb and gutter less than 5' in length between the project area and the nearest control joint shall also be removed and replaced. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Concrete finish shall match existing. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

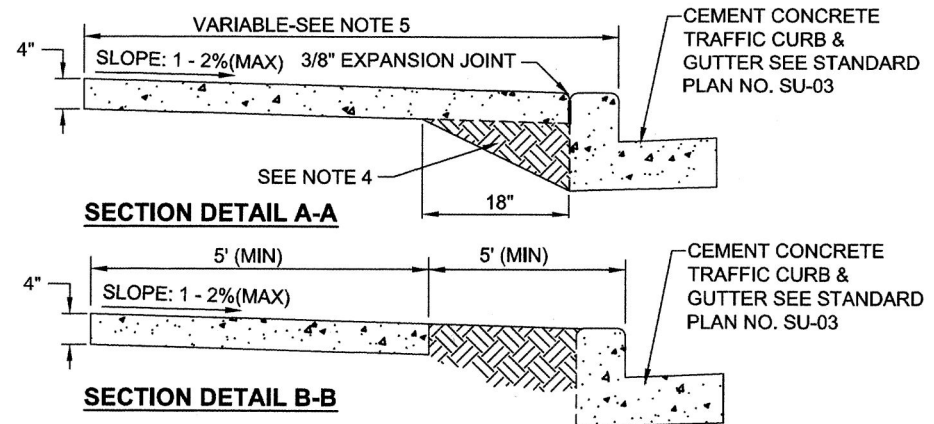
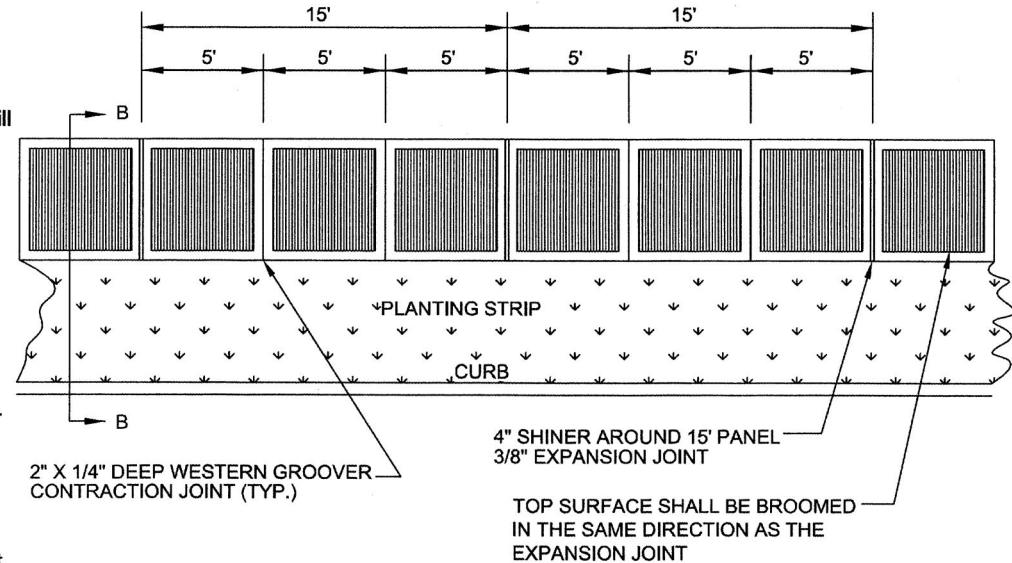
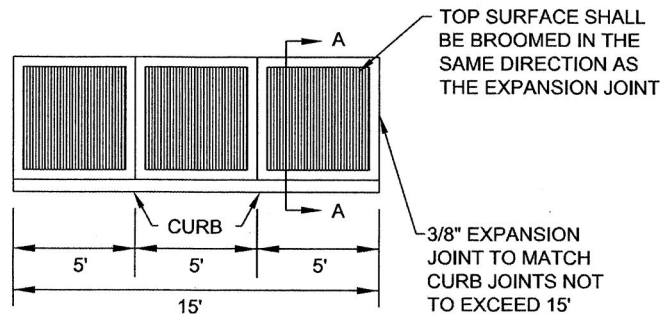
James Pervey
CITY ENGINEER

09 JUN 2009
DATE

CEMENT CONCRETE
CURB AND GUTTER AND
ASPHALT WEDGE CURB
STANDARD PLAN NO. SU-03

NOTES:

1. Sidewalks shall be designed and constructed in accordance with ADA Standards for Accessible Design, 28 CFR, Part 35 and as supplemented by the Public Right of Way Accessibility Guidelines (PROWAG).
2. When placing walk adjacent to existing curb and gutter, curb and gutter will be repaired as necessary before placing concrete forms for walk.
3. Staking is required where no curb is present.
4. Thickened edge shall be constructed using cement concrete on all radii. All other locations shall be backfilled and compacted.
5. Combination walk shall be 7' on all commercial sites and arterial streets. Combination walk shall be a minimum of 5'-6" on non arterial streets. Dimensions are from face of curb to back of walk.
6. All expansion joints shall be full depth with 3/8" premolded joint filler.
7. All joints shall be cleaned and edged. External edges shall be 1/2" radius. Internal joints shall be 1/4" radius.
8. All soft and yielding foundation material shall be removed and replaced with crushed surfacing top course (CSTC) per Section 9-03.9(3) of the WSDOT Standard Specifications.
9. All sidewalk shall be replaced to the nearest expansion or contraction joint. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
10. For sidewalks within the North Slope Historical District area per Standard Plan ND-NS01, see Standard Plan HD-NS03.



**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

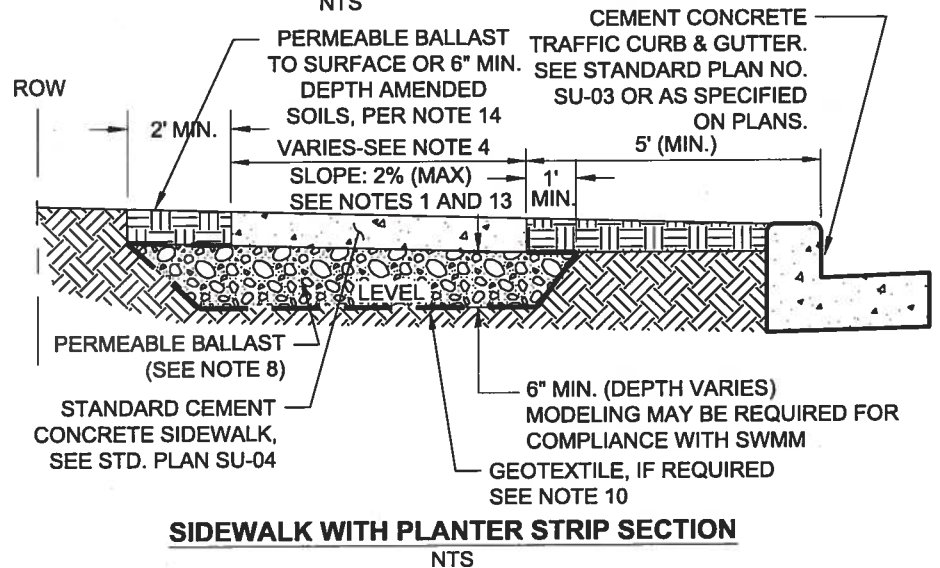
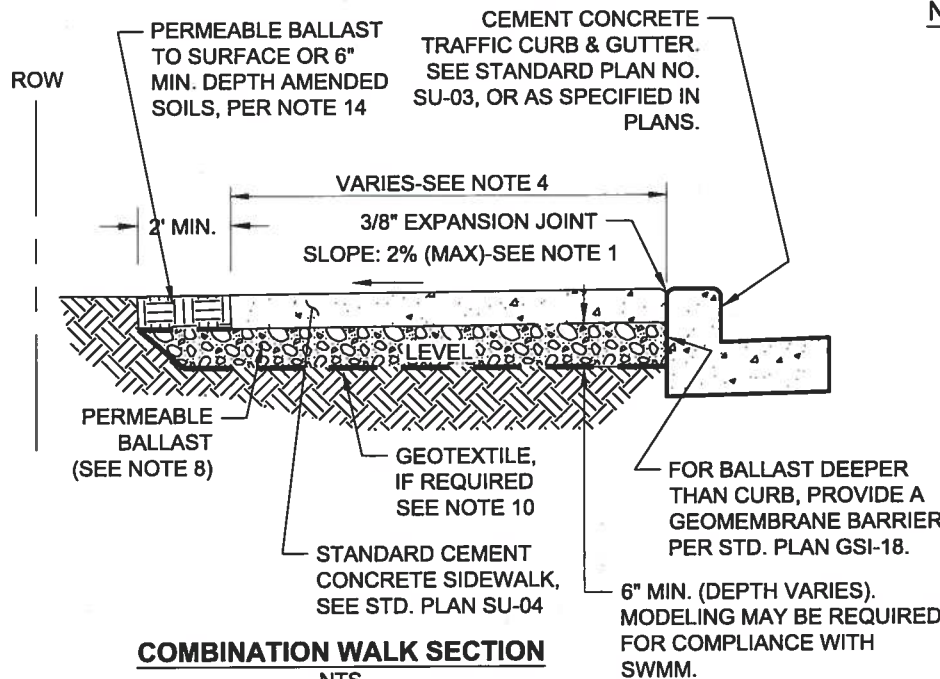
[Signature]
CITY ENGINEER

APPROVED FOR PUBLICATION

12/6/14
DATE

**CEMENT CONCRETE
SIDEWALK**

STANDARD PLAN NO. SU-04



NOTES:

- Sidewalks shall be designed and constructed in accordance with ADA standards for accessible design, 28 CFR, Part 35 and as supplemented by the public right of way accessibility guidelines (PROWAG). City of Tacoma prefers sidewalk cross slopes to be designed to a maximum of 1.5% and a minimum of 1.0%.
- When placing walk adjacent to existing curb and gutter, curb and gutter will be repaired as necessary before placing concrete forms for walk per Right-of-Way Restoration Policy.
- Staking is required where no curb is present.
- Combination walk shall be 7' min. on all commercial sites and arterial streets. Combination walk shall be a minimum of 5' on non arterial streets. Dimensions are from back of curb to back of walk. See contract plans for width and placement of sidewalk.
- All expansion joints shall be full depth with 3/8" premolded joint filler.
- All joints shall be cleaned and edged. External edges shall be 1/2" radius. Internal joints shall be 1/4" radius.
- Subgrade preparation shall meet APWA GSP 2-06.3(3) Subgrade for Permeable Pavements.
- Permeable ballast shall meet APWA GSP 4-04.2 Gravel Base and 9-03.9(2).Opt1 Pavement Ballast.
- All soft and yielding foundation material shall be removed and replaced with ballast per APWA GSP 4-04.2 Gravel Base and 9-03.9(2).Opt1 Permeable Ballast.
- Geotextile fabric may be required between native soils or amended soils and permeable ballast per the recommendation of the geotechnical professional. Geotextile shall be per WSDOT 9.33.2(1), Tables 1 and 2, nonwoven, moderate survivability.
- For sidewalks within the North Slope Historic District area use Standard Plan ND-NS03. See Standard Plan HD-NS01 for North Slope Historic District site map.
- For plan view refer to City of Tacoma Standard Plan SU-04.
- Sidewalk with planter strip may slope in either direction.
- Planting strip soils shall be per BMP L613 (see Std. Plan GSI-01), if applicable; or scarify or till subgrade to 3 inch depth. Place 3-inches of topsoil on surface and till into 5-inches of site soil. Install 3-inches of arborist wood chip mulch or as specified on plans. Topsoil layer with a minimum organic matter content of 10% dry weight in planting beds, and 5% in turf areas, and a pH from 6.0 to 8.0 or matching the pH of the original undisturbed soil.
- All disturbed areas not covered with hard surfaces shall be stabilized by planting or mulching.
- Where needed, adjust ballast in planting strip to accommodate plants. Keep permeable ballast a minimum 2 feet from trunk of trees.
- Where ballasted sidewalk is installed adjacent to permeable roadway, the permeable ballast may extend from the sidewalk to the roadway section. See Std. Plan SU-31b.
- Refer to Std. Plan SU-32 for subgrade terracing, as applicable.

DCS

PUBLIC WORKS

NA

TACOMA POWER

REVIEWED BY

ENVIRONMENTAL
SERVICES

NA

TACOMA WATER



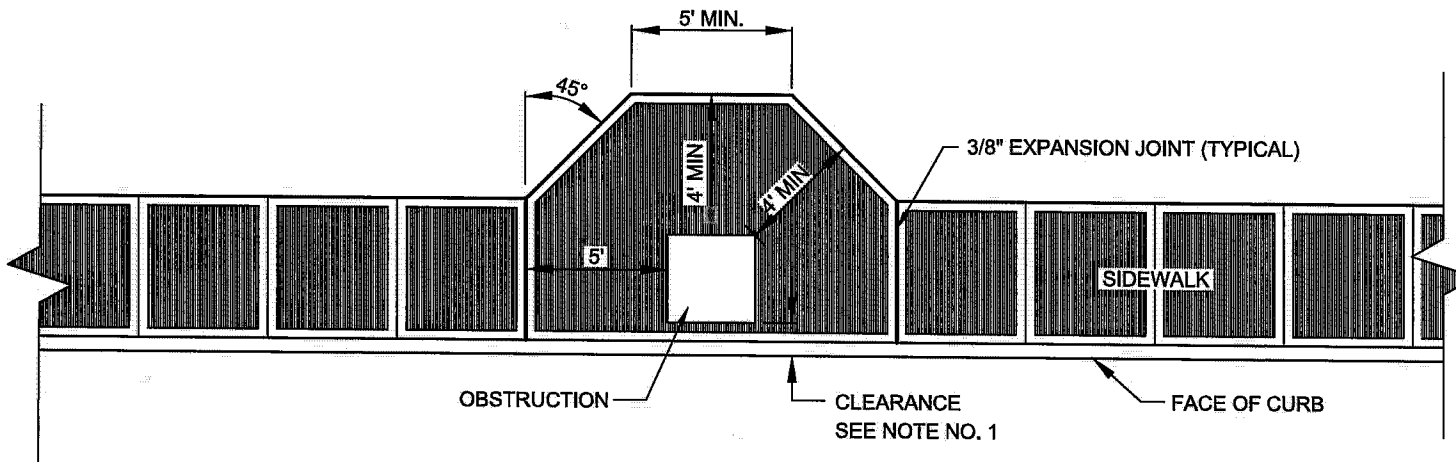
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE

CITY OF TACOMA
BALLASTED CEMENT
CONCRETE SIDEWALK

STANDARD PLAN NO. SU-04a



NOTES:

1. The clearance between the face of curb and any obstruction, except mail boxes, shall be a minimum of 1'-6". The front of a mail box shall be 6" to 8" from the face of curb.
2. A minimum clear width of 4' shall be provided for continuous passage around the obstruction.

**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

James Parvey
CITY ENGINEER

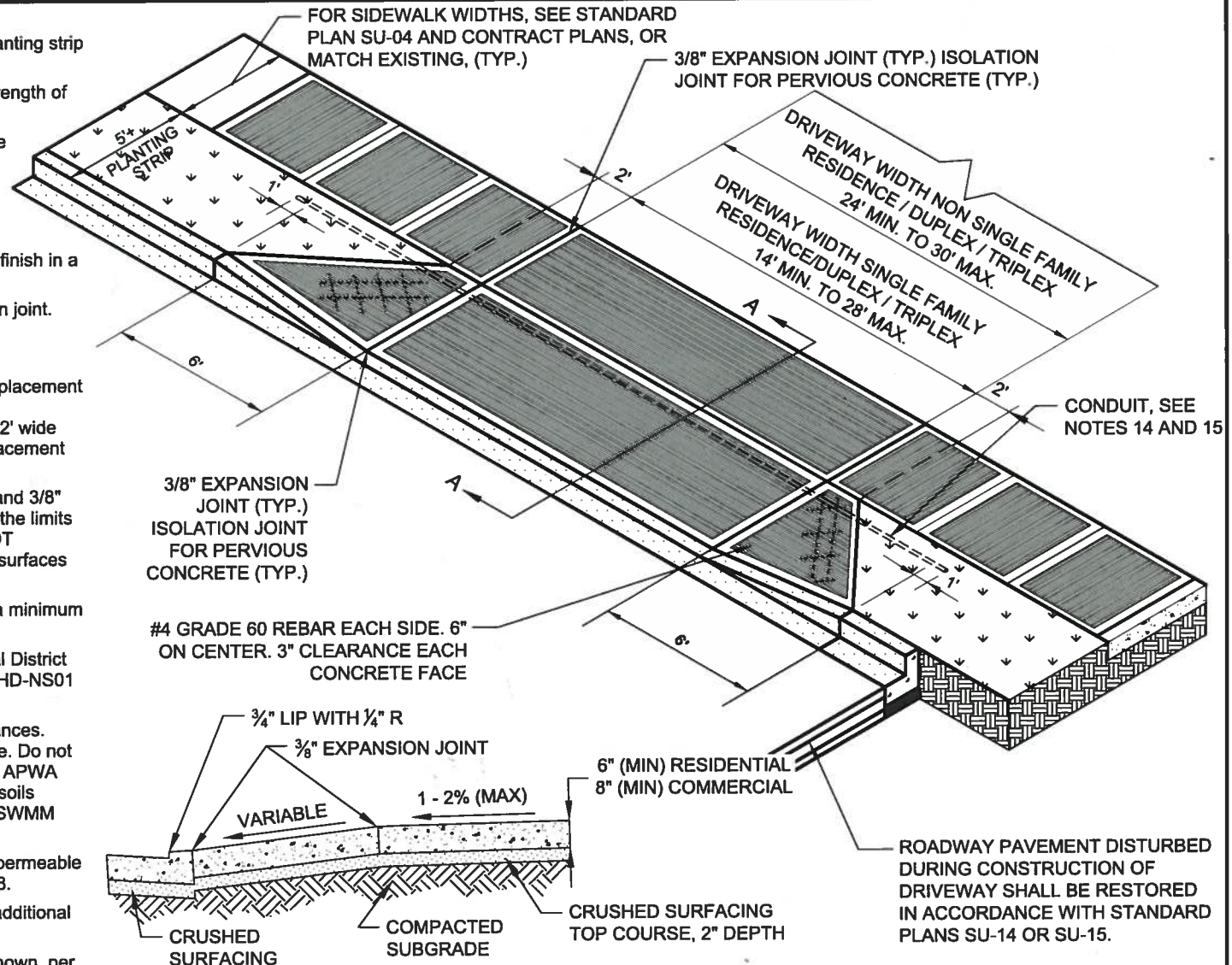
24 Aug 2009
DATE

**MINIMUM SIDEWALK
WIDTH AT OBSTRUCTIONS**

STANDARD PLAN NO. SU-06

NOTES:

1. Type 1 access shall be used at driveways where the planting strip width is 5' or greater.
2. Standard Concrete shall be a minimum compressive strength of 3,000 PSI.
3. All joints shall be cleaned & edged. External joints to the driveway shall be 1/2" radius. Internal joints to the driveway shall be 1/4" radius.
4. Driveways wider or narrower than shown on this plan require approval of the Director of Public Works.
5. Standard concrete driveway section shall be a brushed finish in a transverse direction to the center line of driveway.
6. Driveways wider than 20' require a center line expansion joint.
7. All expansion or isolation joints shall be full depth.
8. When trenching through a driveway access:
 - 8.a. If driveway is 20' or less in width, a full driveway replacement is required.
 - 8.b. If driveway is greater than 20' in width, a minimum 2' wide cut back over undisturbed soil is required and replacement shall extend to the nearest control joint.
9. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
10. Transition panel from new access to sidewalk shall be a minimum of 5 feet.
11. For driveway entrances within the North Slope Historical District area use Standard Plan HD-NS02. See Standard Plan HD-NS01 for map of Historical District area limits.
12. Permeable surfacing may be allowed for driveway entrances. Refer to Standard Plans PD-01 and PD-02 as applicable. Do not compact subgrade for permeable surfacing and refer to APWA GSP 2-06.3(3) Subgrade for Permeable Pavements. A soils report is required and modeling may be necessary per SWMM BMP L633.
13. Geomembrane barrier required between standard and permeable sections. Refer to City of Tacoma Standard Plan GSI-18.
14. Refer to Tacoma Municipal Code 10.14, driveways for additional information.
15. A 1-1/4" Ø PVC Sch. 80 Conduit shall be installed as shown, per TMC 10.14.070. Conduit shall be buried 24 inches below finished grade.



NOTE: DESIGNED SECTION REQUIRED FOR PERMEABLE SURFACING. SEE NOTES 12 AND 13.
STANDARD CONCRETE SECTION DETAIL A-A
 NTS

DCS

PUBLIC WORKS

REVIEWED BY

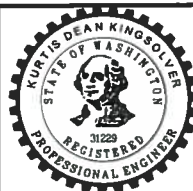
ENVIRONMENTAL
SERVICES

NA

TACOMA POWER

NA

TACOMA WATER



APPROVED FOR PUBLICATION

CITY ENGINEER

DATE

CITY OF TACOMA
CEMENT CONCRETE
ACCESS
TYPE 1

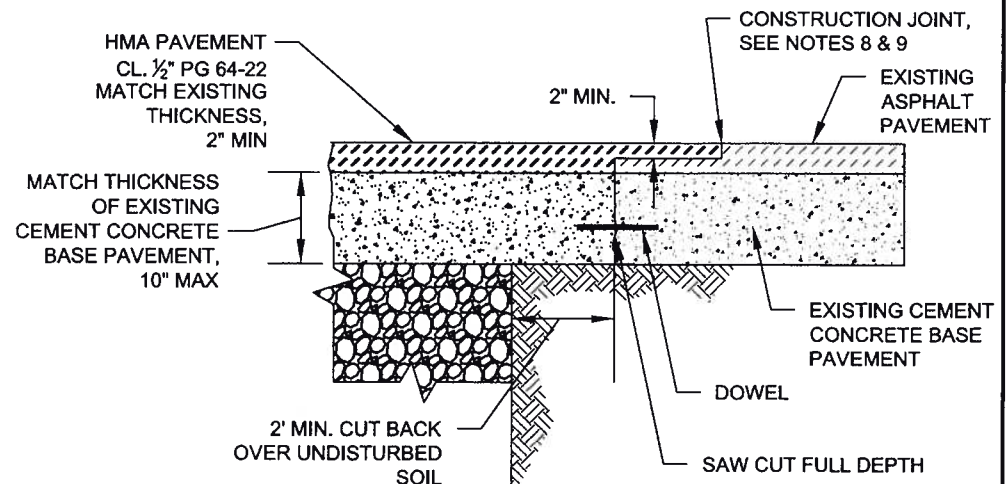
STANDARD PLAN NO.

SU-07

NOTES:

1. **All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy. See Standard Plan SU-14D for any streets exempt from this policy.**
2. Temporary Surface Restoration:
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
Residential areas and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.
3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Final compaction of HMA shall be 91% of maximum density.
Isolated patches: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.
Trench patches: 1 test every 150 linear feet of trench with a minimum of 2 tests per trench.
 Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
7. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

8. Longitudinal construction joints shall only be located at the center or edge of affected lanes.
 Streets and courts 20 feet or less in width and all alleys are considered one-lane streets.
 Non-arterial streets and courts greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.
 Non-arterial streets greater than 32 feet in width with no traffic channelization may be considered three lane streets upon prior approval from the City Engineer on a case by case basis.
9. Transverse construction joints terminate at the edge of the 2' cut back.
10. For municipal capital improvement projects, cement concrete base pavement shall be in accordance with WSDOT Standard Specification 5-05 for cement concrete pavement. For non-municipal capital improvement projects, concrete shall be a minimum compressive strength of 4,000 PSI.
11. Dowel in accordance with WSDOT Standard Plan A-60.10-00 for arterials, industrial areas, and/or roads with bus traffic. For residential streets the dowel bars may be reduced to 1-inch in diameter. In lieu of dowels, full panel replacement is acceptable.



**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

[Signature]
CITY ENGINEER

APPROVED FOR PUBLICATION

11/30/10
DATE

**TYPICAL PAVEMENT RESTORATION
FOR ASPHALT OVER
CEMENT CONCRETE BASE PAVEMENT**

STANDARD PLAN NO. SU-14A

NOTES:

1. **All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy. See Standard Plan SU-14E for any streets exempt from this policy.**
2. **Temporary Surface Restoration:**
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either hot-mix asphalt or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with hot-mix asphalt unless otherwise approved.
3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Final compaction of HMA shall be 91% of maximum density.
Isolated patches: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.
Trench patches: 1 test every 150 linear feet of trench with a minimum of 2 tests per trench.
 Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
7. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

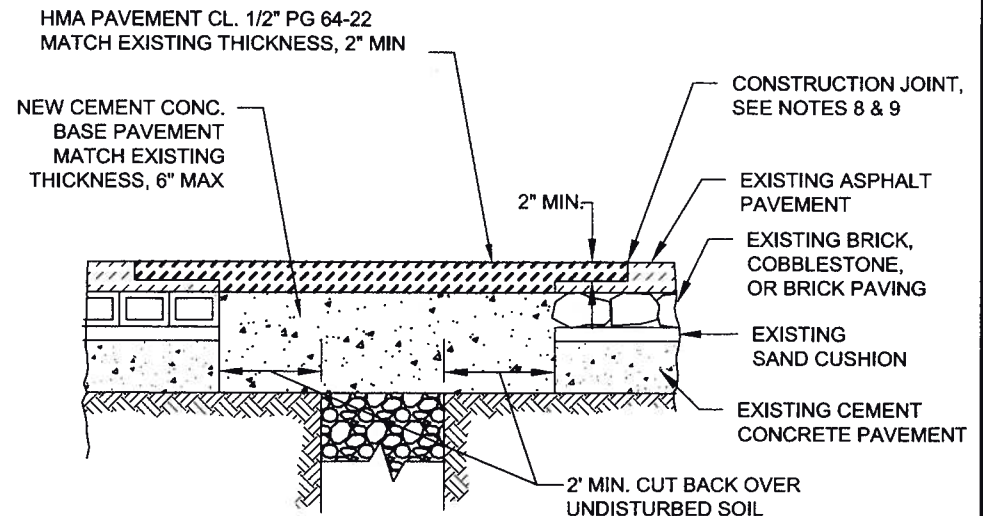
8. Longitudinal construction joints shall only be located at the center or edge of affected lanes.

Streets and courts 20 feet or less in width and all alleys are considered one-lane streets.

Non-arterial streets and courts greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.

Non-arterial streets greater than 32 feet in width with no traffic channelization may be considered three lane streets upon prior approval from the City Engineer on a case by case basis.

9. Transverse construction joints terminate at the edge of the 2' cut back.
10. For municipal capital improvement projects, cement concrete base pavement shall be in accordance with WSDOT Standard Specification 5-05 for cement concrete pavement. For non-municipal capital improvement projects, concrete shall be a minimum compressive strength of 4,000 PSI.



APPROVED FOR PUBLICATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

[Signature]
CITY ENGINEER

11/30/12
DATE

TYPICAL PAVEMENT RESTORATION FOR
ASPHALT OVER RIGID BASE BRICK
OR STONE BLOCK PAVEMENT

STANDARD PLAN NO. SU-14B

NOTES:

1. **All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy.**

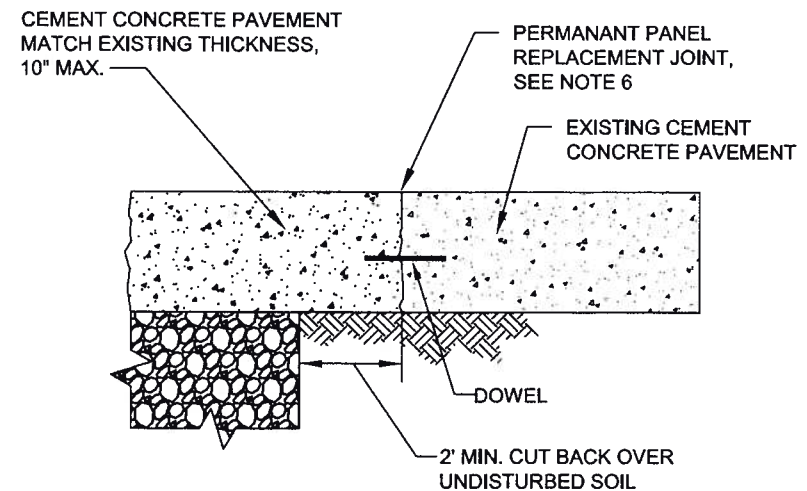
2. Temporary Surface Restoration:

Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).

Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.

3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Permanent Panel Replacement:
Arterials, industrial areas and/or roads with bus traffic:
100% panel replacement is required for all affected panels. Monolithic curbs will be poured at time of panel replacement.
Residential and Alleys: Panels cut greater than $\frac{1}{2}$ the panel length, width, or total area, including the 2-foot cut back, will require 100% panel replacement. Panels cut less than $\frac{1}{2}$ the panel length, width, or total area, including the 2-foot cut back will require 50% panel replacement. Three-piece panels are not acceptable and will require 100% panel replacement.
7. For municipal capital improvement projects, cement concrete base pavement shall be in accordance with WSDOT Standard Specification 5-05 for cement concrete pavement. For non-municipal capital improvement projects, concrete shall be a minimum compressive strength of 4,000 PSI.

8. Dowel in accordance with WSDOT Standard Plan A-60.10-00 for arterials, industrial areas, and/or roads with bus traffic. In residential streets the dowel bars may be reduced to 1-inch in diameter. In lieu of dowels, full panel replacement is acceptable.



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION


CITY ENGINEER

11/20/10
DATE

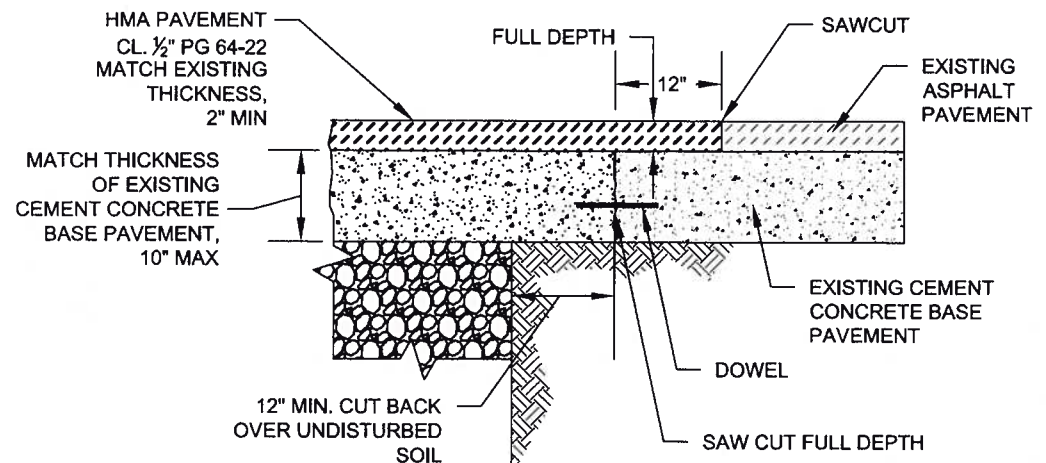
TYPICAL PAVEMENT RESTORATION FOR
CEMENT CONCRETE PAVEMENT

STANDARD PLAN NO. SU-14C

NOTES:

1. **This Standard Plan shall only apply to streets that are exempt from the City of Tacoma's Restoration Policy. See Standard Plan SU-14A for any streets not exempt from this policy.**
2. Temporary Surface Restoration:
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
Residentials and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.
3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Final compaction of HMA shall be 91% of maximum density.
 Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
7. If remaining pavement adjacent to the patch is less than 3' wide, remove and replace to match existing pavement.
8. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

9. For municipal capital improvement projects, cement concrete base pavement shall be in accordance with WSDOT Standard Specification 5-05 for cement concrete pavement. For non-municipal capital improvement projects, concrete shall be a minimum compressive strength of 4,000 PSI.
10. Dowel in accordance with WSDOT Standard Plan A-60.10-00 for arterials, industrial areas, and/or roads with bus traffic. For residential streets the dowel bars may be reduced to 1-inch in diameter. In lieu of dowels, full panel replacement is acceptable.



**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

[Signature]
CITY ENGINEER

11/28/13
DATE

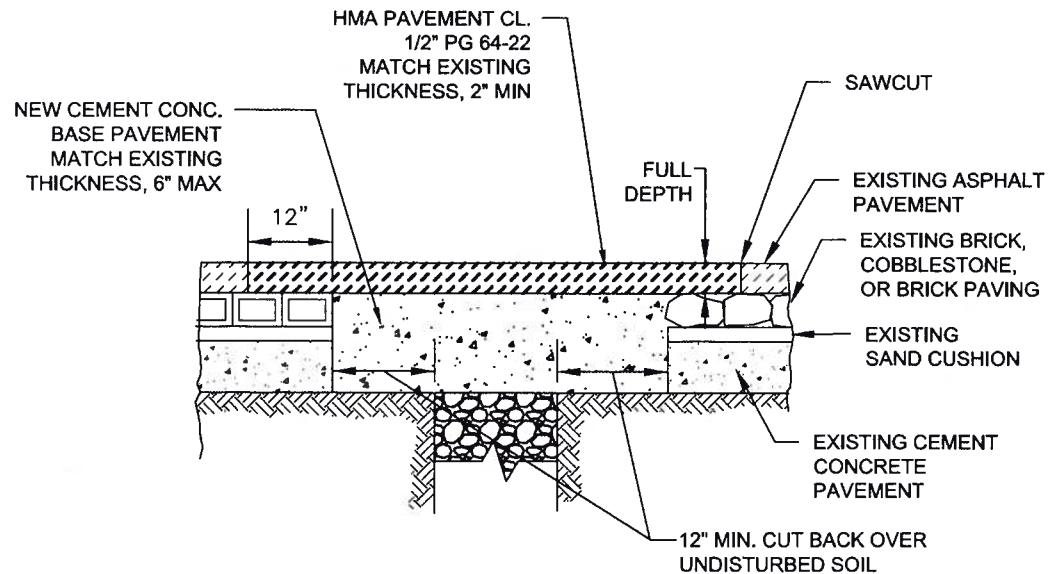
**TYPICAL PAVEMENT RESTORATION
FOR ASPHALT OVER
CEMENT CONCRETE BASE PAVEMENT**

STANDARD PLAN NO. SU-14D

NOTES:

1. **This Standard Plan shall only apply to streets that are exempt from the City of Tacoma's Restoration Policy. See Standard Plan SU-14B for any streets not exempt from this policy.**
2. Temporary Surface Restoration:
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
Residentials and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either hot-mix asphalt or cold-mix asphalt.
 Temporary patches between October 1st and March 31st shall be made with hot-mix asphalt unless otherwise approved.
3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Final compaction of HMA shall be 91% of maximum density.
 Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
7. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

8. For municipal capital improvement projects, cement concrete base pavement shall be in accordance with WSDOT Standard Specification 5-05 for cement concrete pavement. For non-municipal capital improvement projects, concrete shall be a minimum compressive strength of 4,000 PSI.



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

[Signature]
CITY ENGINEER

11/20/10
DATE

TYPICAL PAVEMENT RESTORATION FOR
ASPHALT OVER RIGID BASE BRICK
OR STONE BLOCK PAVEMENT

STANDARD PLAN NO. SU-14E

NOTES:

1. To be used only where abutting surfaces are pervious concrete or as directed in writing by City of Tacoma. Permeable roads may be required to be patched in an alternate material as directed in writing by City of Tacoma.

2. All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy.

3. Temporary Surface Restoration:

Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).

Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt.

Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.

4. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.

5. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.

6. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces. Joint sealant shall not migrate beyond run-out areas.

7. All pervious surfaces shall be vacuumed immediately after completion of sawcutting to prevent clogging.

8. Permanent Panel Replacement:

Arterials, industrial areas and/or roads with bus traffic:

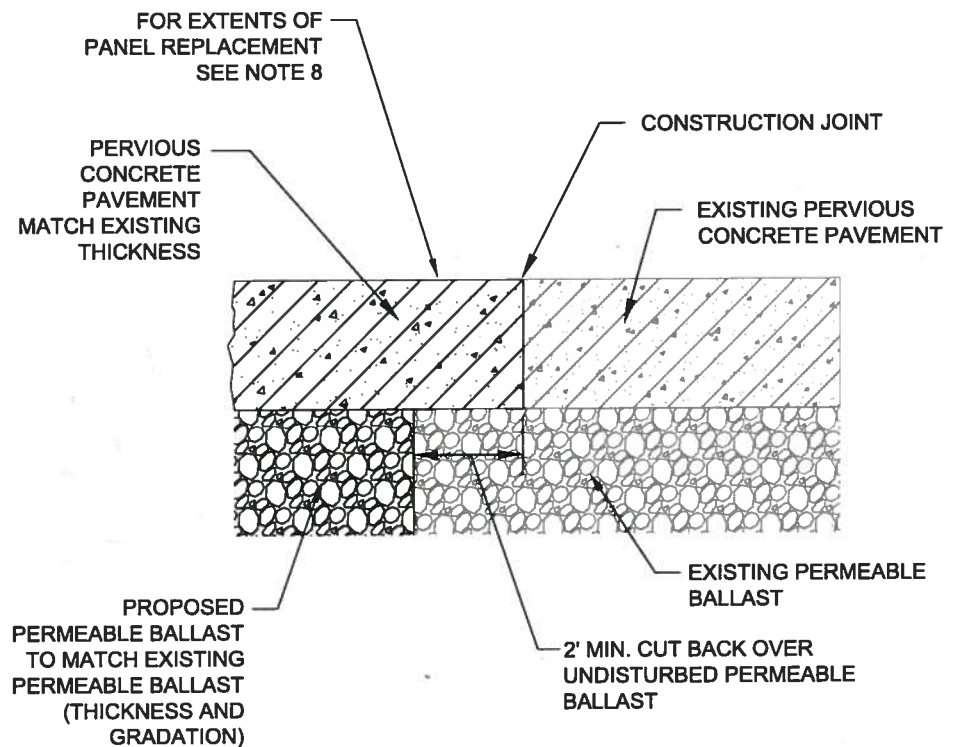
100% panel replacement is required for all affected panels. Monolithic curbs will be poured at time of panel replacement.

Residential and Alleys: Panels cut greater than ½ the panel length, width, or total area, including the 2-foot cut back, will require 100% panel replacement. Panels cut less than ½ the panel length, width, or total area, including the 2-foot cut back will require 50% panel replacement.

Three-piece panels are not acceptable and will require 100% panel replacement.

9. Pervious concrete pavement mix shall be approved in writing by the City of Tacoma.

10. Where geotextile fabric or geomembrane liner exist under the permeable ballast, replace with same material. Additional width of excavation may be necessary to overlay fabric or liner. Where a liner is used to create a watertight barrier, repair per manufacturer's specifications to maintain a watertight barrier.



DCS
PUBLIC WORKS

REVIEWED BY

GMS
ENVIRONMENTAL
SERVICES

NA
TACOMA POWER

NA
TACOMA WATER



APPROVED FOR PUBLICATION

[Signature]
CITY ENGINEER

DATE

CITY OF TACOMA
TYPICAL PAVEMENT RESTORATION
FOR PERVIOUS CONCRETE PAVEMENT

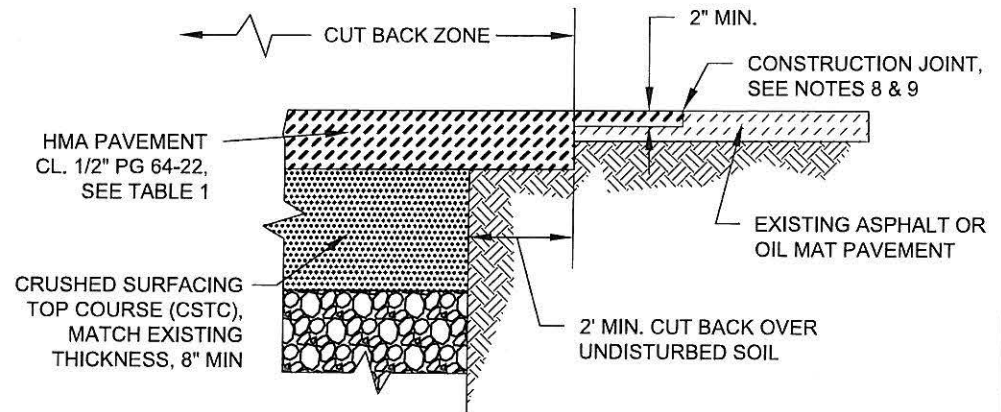
STANDARD PLAN NO. SU-14F

NOTES

1. **All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy. See Standard Plan SU-15B for any streets exempt from this policy.**
2. Temporary Surface Restoration:
 Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
 Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.
3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Final compaction of HMA shall be 91% of maximum density.
Isolated patches: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.
Trench patches: 1 test every 150 linear feet of trench with a minimum of 2 tests per trench.
 Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
7. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

8. Longitudinal construction joints shall only be located at the center or edge of affected lanes.
 Streets and courts 20 feet or less in width and all alleys are considered one-lane streets. Non-arterial streets and courts greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.
 Non-arterial streets greater than 32 feet in width with no traffic channelization may be considered three lane streets upon prior approval from the City Engineer.
9. Transverse construction joints terminate at the edge of the 2' cut back.
10. HMA pavement shall not be placed over CDF until approved by the City.

TABLE 1 PAVEMENT REPLACEMENT DEPTH IN CUT BACK ZONE		
	MIN.	MAX.
ARTERIALS, INDUSTRIAL AREAS & ROADS WITH BUS TRAFFIC	MATCH EXISTING +1", OR 4", WHICHEVER IS GREATER	6"
RESIDENTIALS AND ALLEYS	MATCH EXISTING +1", OR 3", WHICHEVER IS GREATER	4"



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

James Ramsey
CITY ENGINEER

12 Jun 2009
DATE

TYPICAL PAVEMENT RESTORATION
FOR ASPHALT CONCRETE/OIL MAT
PAVEMENT

STANDARD PLAN NO. SU-15A

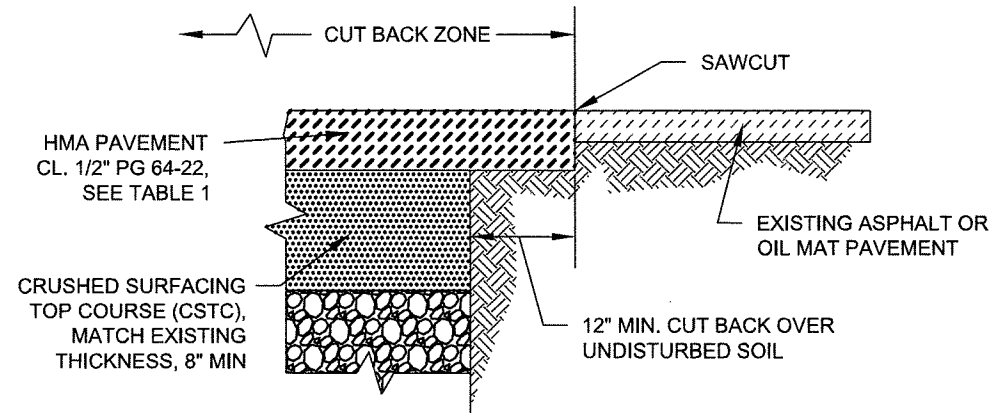
NOTES

1. This Standard Plan shall only apply to streets that are exempt from the City of Tacoma's Restoration Policy. See Standard Plan SU-15A for any streets not exempt from this policy.
2. Temporary Surface Restoration:
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.
3. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.
5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
6. Final compaction of HMA shall be 91% of maximum density.
 Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.
7. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.
8. HMA pavement shall not be placed over CDF until approved by the City.
9. If remaining pavement adjacent to the patch is less than 3' wide, remove and replace with asphalt concrete pavement to match existing (minimum 2").

TABLE 1

**PAVEMENT REPLACEMENT DEPTH
IN CUT BACK ZONE**

	MIN.	MAX.
ARTERIALS, INDUSTRIAL AREAS & ROADS WITH BUS TRAFFIC	MATCH EXISTING +1", OR 4", WHICHEVER IS GREATER	6"
RESIDENTIALS AND ALLEYS	MATCH EXISTING +1", OR 3", WHICHEVER IS GREATER	4"



**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

CITY ENGINEER

DATE

**TYPICAL PAVEMENT RESTORATION
FOR ASPHALT CONCRETE/OIL MAT
PAVEMENT**

STANDARD PLAN NO. SU-15B

NOTES:

1. To be used only where abutting surfaces are porous asphalt or as directed in writing by City of Tacoma. Permeable roads may be required to be patched in an alternate material as directed in writing by City of Tacoma.
2. All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy. For any streets exempt from this policy, compliance with notes 8 and 9 is not required, compliance with note 12 is required.
3. Temporary Surface Restoration:
Arterials, industrial areas and/or roads with bus traffic: Temporary patches shall be compacted and leveled to a minimum of 3-inches of hot-mix asphalt (HMA).
Residential and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.
4. All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
5. Where existing pavement defects are in close proximity to the new cut, the City Inspector may require additional pavement removal to eliminate the pavement defect.
6. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-04.3(5)C for asphalt concrete surfaces. Joint sealant shall not migrate beyond run-out areas.
7. Final compaction of porous HMA shall meet APWA GSP 5-04.3(10)A General.

Isolated patches: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.

Trench patches: 1 test every 150 linear feet of trench with a minimum of 2 tests per trench.

Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Inspector. Tests shall be completed and reports identifying the project number submitted to the City's Inspector within 48 hours of test.

8. Longitudinal construction joints shall only be located at the center or edge of affected lanes.

Roadways 20 feet or less in width and all alleys are considered one-lane streets. Non-arterial roadways greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.

Non-arterial streets greater than 32 feet in width with no traffic channelization may be considered three lane streets upon prior approval from the City Engineer.

9. Transverse construction joints terminate at the edge of the 2' cut back.
10. Porous HMA and Asphalt Treated Permeable Base (ATPB) pavement shall not be placed over CDF until approved by the City.
11. Where geotextile fabric or geomembrane liner exist under the permeable ballast, replace with same

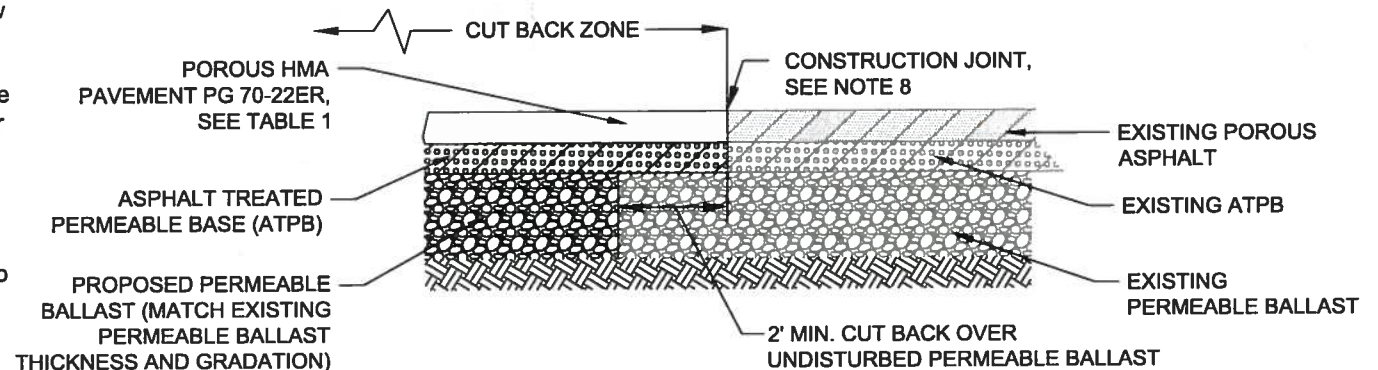
material. Additional width of excavation may be necessary to overlay fabric or liner. Where a liner is used to create a watertight barrier, repair per manufacturer's specifications and to maintain a watertight barrier.

12. If remaining pavement adjacent to the patch is less than 3' wide, remove and replace asphalt concrete pavement to match existing (minimum 2"). This note only applies to roads not subject to the City of Tacoma's Restoration Policy.
13. All pervious surfaces shall be vacuumed immediately after completion of sawcutting to prevent clogging.

TABLE 1

PAVEMENT REPLACEMENT DEPTH IN CUT BACK ZONE

ARTERIALS & INDUSTRIAL AREAS	PER WRITTEN AUTHORIZATION ONLY
RESIDENTIALS AND ALLEYS	MATCH EXISTING, OR 2" POROUS HMA OVER 3" ATPB, WHICHEVER IS GREATER



DCS

PUBLIC WORKS

NA

TACOMA POWER

REVIEWED BY

GMS

ENVIRONMENTAL SERVICES

NA

TACOMA WATER



APPROVED FOR PUBLICATION

[Signature]
CITY ENGINEER

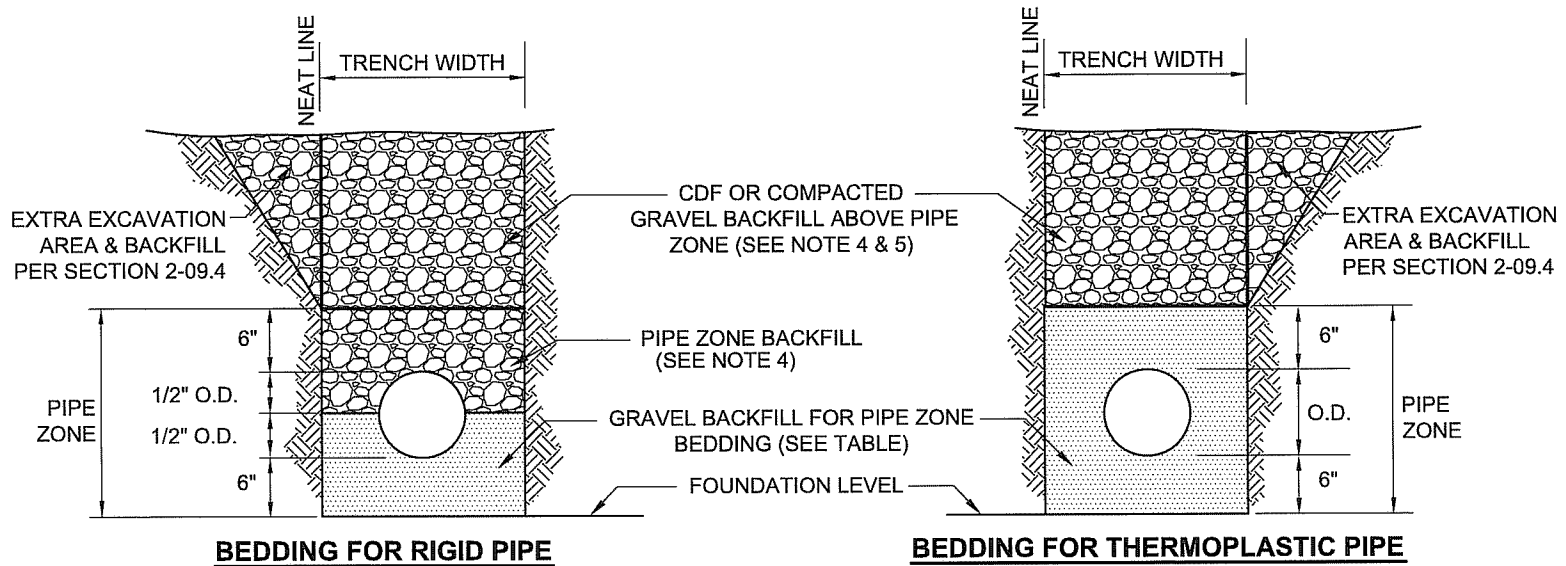
DATE

4/2/16

CITY OF TACOMA
TYPICAL PAVEMENT RESTORATION
FOR POROUS ASPHALT PAVEMENT

STANDARD PLAN NO.

SU-15C



**GRAVEL BACKFILL FOR
PIPE ZONE BEDDING**

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
3/4" SQUARE	100
3/8" SQUARE	95-100
U.S. NUMBER 8	0-10
U.S. NUMBER 200	0-3
SAND EQUIVALENT	35 MINIMUM

NOTES:

1. Provide uniform support under barrel.
2. Hand tamp under haunches.
3. Trench width shall be as specified in Section 2-09.4 of the WSDOT Standard Specifications.
4. See WSDOT Standard Specification Section 9-03.12(2) for material requirements on "Pipe Zone Backfill" and for "Backfill Above Pipe Zone."
5. All trenches shall be compacted in accordance with SU-28.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

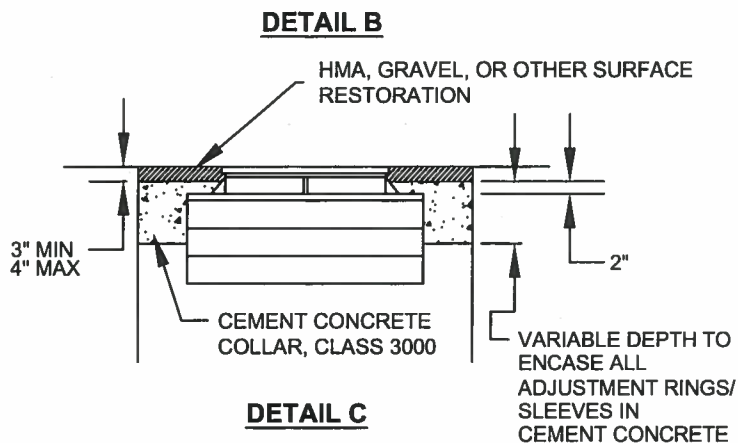
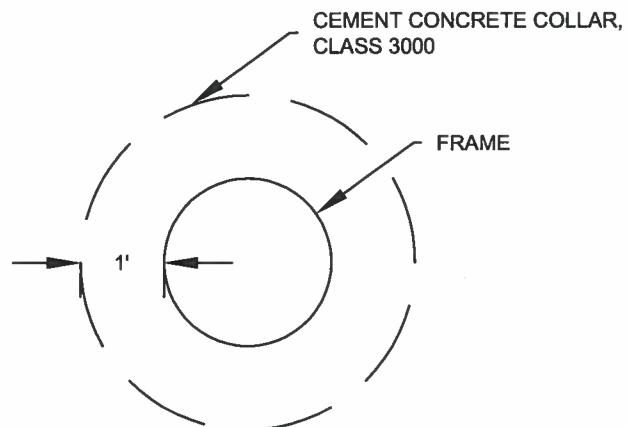
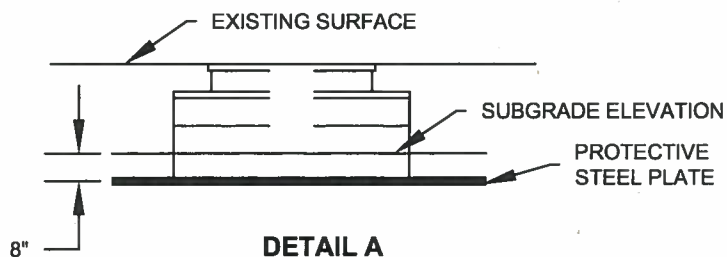
APPROVED FOR PUBLICATION

Jana Parvey
CITY ENGINEER

28 Jun 2010
DATE

PIPE BEDDING AND BACKFILL
FOR SANITARY AND STORM
SEWERS

STANDARD PLAN NO. SU-16



PROGRESSION OF WORK

PRIOR TO EXCAVATING OR RESURFACING:

Contractor shall:
Remove frame and risers to a depth 8-inches below subgrade.
Install steel protective plate in accordance with Detail A.
Reference the location of the utility structure.

CONSTRUCTION OF SURFACING:

Gravel surfacing:
Install base materials and gravel over protective steel plate.

Asphalt surfacing:
Install base materials and asphalt over protective steel plate.

Concrete surfacing:
Adjust frame and grate to final grade prior to placing concrete surfacing.

UPON COMPLETION OF SURFACING:

The asphalt concrete pavement or gravel surfacing shall be removed in a neat circle in accordance with Detail B.

The location of the asphalt or gravel removal shall be based upon the reference location established by the Contractor.

Crushed surfacing and base materials shall be removed and disposed of to allow the removal of the steel protective plate.

The structure shall be adjusted to finish grade utilizing the same methods of construction as specified for new construction in Section 7-05.

For hot mix asphalt, the area shall then be backfilled with Class 3000 cement concrete to an elevation of 3 to 4 inches below the finished pavement surface. 24-hours after placing the concrete, HMA pavement CL. 3/8" PG 64-22 shall be placed in accordance with Standard Plan No. SU-15.

For non-paved surfaces, the area shall be backfilled with Class 3000 cement concrete to an elevation of 3 to 4 inches below the top of the casting and then backfilled with crushed surfacing top course and compacted.

NOTE:

All general provisions, construction and warranty requirements of the Right of Way Restoration Policy will be followed.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

CITY ENGINEER

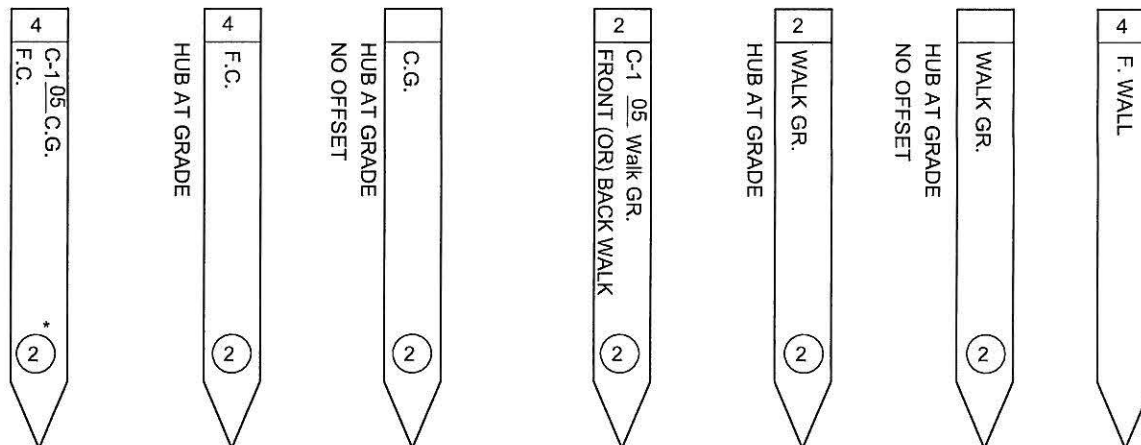
DATE

UTILITY ADJUSTMENT

STANDARD PLAN NO. SU-25

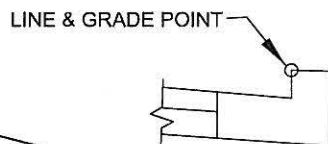
ABBREVIATIONS

F.C.....	FACE OF CURB
C.G.....	CURB GRADE
F.L.....	FLOW LINE
F.WALL...	FACE OF WALL
SH.GR....	SHOULDER GRADE
C.B.....	CATCH BASIN
M.H.....	MAN HOLE
L.H.....	LAMP HOLE
S.G.....	SUBGRADE
B.G.....	BALLAST GRADE
CR.R.GR.	CRUSHED ROCK GRADE
P.C.....	POINT OF CURVATURE
P.T.....	POINT OF TANGENCY
V.C.....	VERTICAL CURVE
E.P.....	EDGE OF PAVING

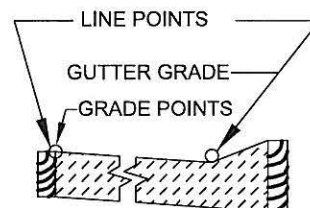


STAKES SHALL HAVE STATIONS ON BACK SIDE

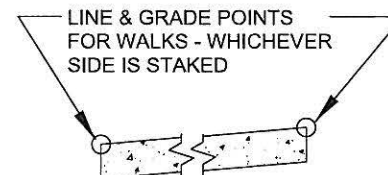
* DESIGNATES DISTANCE FROM GUARD STAKE TO GRADE OR LINE HUB. (OPTIONAL)



CURBS

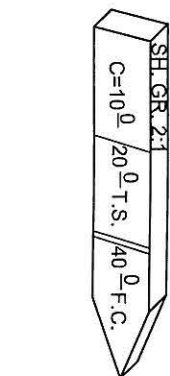


ALLEY SLABS

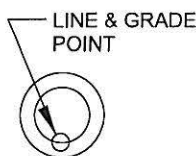
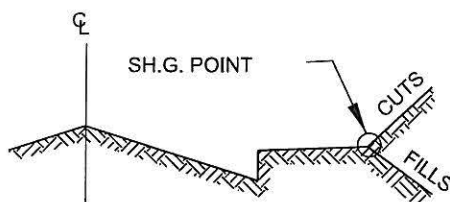


WALKS

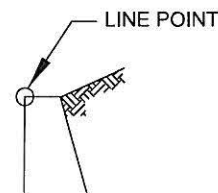
SIDE OR BACK



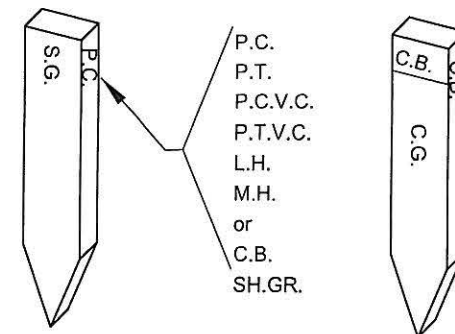
SLOPE STAKES



SEWERS



WALLS



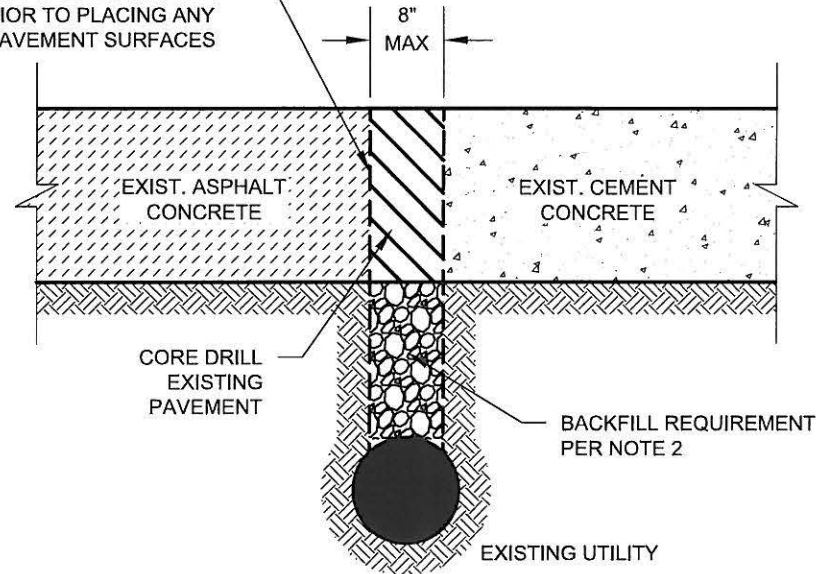
APPROVED FOR PUBLICATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

James Pomeroy 12 Jun 2009
CITY ENGINEER DATE

STANDARD PROCEDURE
FOR MARKING
CONSTRUCTION STAKES
STANDARD PLAN NO. SU-26

EXISTING SURFACES SHALL BE PREPARED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 5-04.3(5)A PRIOR TO PLACING ANY NEW PAVEMENT SURFACES



NOTES:

1. The existing pavement shall be cut full depth with an eight inch diameter core drill. The subbase material shall be removed using a vacuum excavator, keeping the excavation as minimal as possible.
2. Backfill the excavation with a six inch cushion of crushed rock over the utility then place the remaining void with CDF or compacted CSTC.
3. For asphalt concrete streets, repair the cored pavement section with HMA Class $\frac{1}{2}$ " PG 64-22 and seal the joint.
4. For cement concrete pavement streets, replace the cored section with Class 6000 cement concrete.
5. If excavation is larger than 8" core, restoration shall comply with the Right of Way Restoration Policy.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

June Perrey 12 Jun 2009
CITY ENGINEER DATE

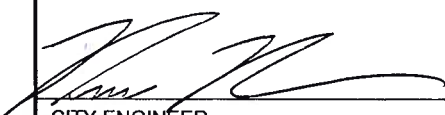
POTHOLING

STANDARD PLAN NO. SU-27

COMPACTION TESTING REQUIREMENTS ^A		
DEPTH	TESTING FREQUENCY ^C	
	VERTICAL	HORIZONTAL
SURFACE (BELOW HMA)	N/A	1 TEST EVERY 150 LINEAR FEET OF TRENCH OR MINIMUM 2 PER TRENCH
		1 TEST FOR 150 SQUARE FEET FOR ISOLATED PATCHES ^B
1 TO 4 FEET (OR MIN 18 IN. ABOVE PIPE)	1 EVERY 12 INCHES	SAME AS FOR SURFACE
> 4 FEET TO BOTTOM OF TRENCH	NO SPECIFIC REQUIREMENT - MAY BE REQUIRED BY COT INSPECTOR FOR VERIFICATION OF COMPACTION	
A. TESTING SHALL BE PERFORMED BY A CERTIFIED INDEPENDENT TESTING LABORATORY OR A CERTIFIED TESTOR AS APPROVED BY THE CITY'S CONSTRUCTION DIVISION. THE COST OF TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. TESTS SHALL BE COMPLETED AND REPORTS IDENTIFYING THE PROJECT NUMBER SUBMITTED TO THE CONSTRUCTION DIVISION WITHIN 48 HOURS OF TESTS.		
B. ONLY ONE COMPACTION TEST WILL BE REQUIRED FOR MULTIPLE TRENCHES WITHIN A 150 SF AREA PROVIDED COMPACTION PROCEDURES ARE THE SAME.		
C. EACH LIFT SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY, AS VERIFIED BY COMPACTION TESTING, BEFORE PROCEEDING TO THE NEXT LIFT. COT INSPECTOR MAY REQUIRE EXCAVATION AND REMOVAL OF SOIL WHERE COMPACTION IS IN QUESTION.		

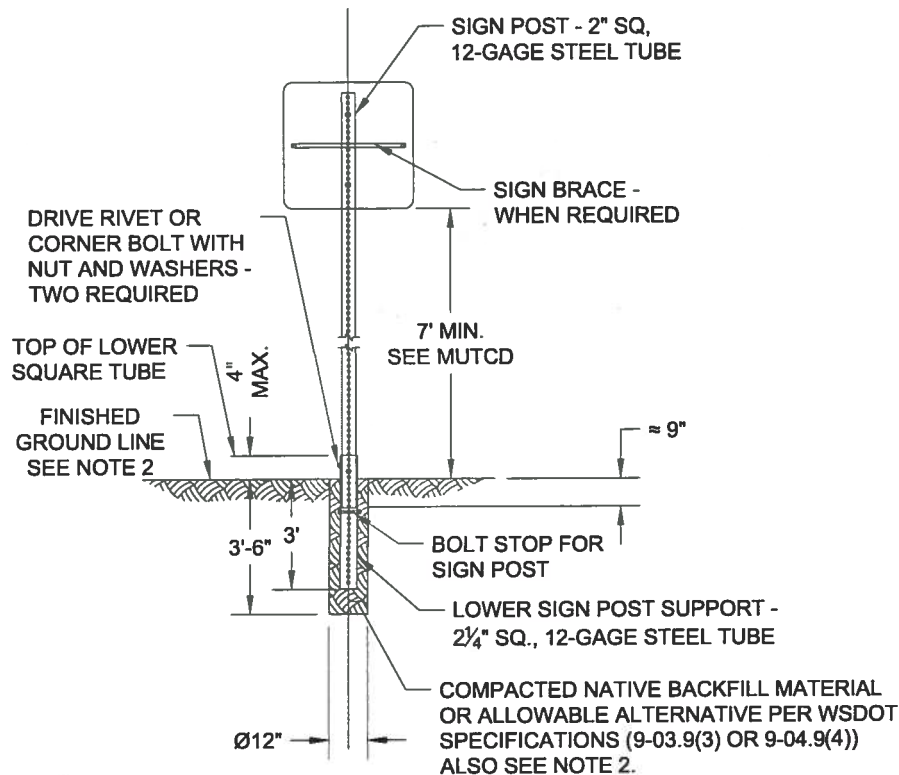
NOTES:

1. Compact backfill material in max. 12 in. lifts. Compact backfill material to 95% max. modified proctor density (ASTM 1557) except directly over pipe, hand tamp only.
2. Native backfill will require laboratory testing to determine max. modified proctor density. Imported backfill will require submittal of proctor test results from supplier.
3. See WSDOT Standard Specification Section 2-09.3(1)E for material requirements on "Controlled Density Fill" (CDF). CDF may be used for trenches less than 24 in. wide or as approved by the City Engineer. CDF shall be vibrated/compacted.

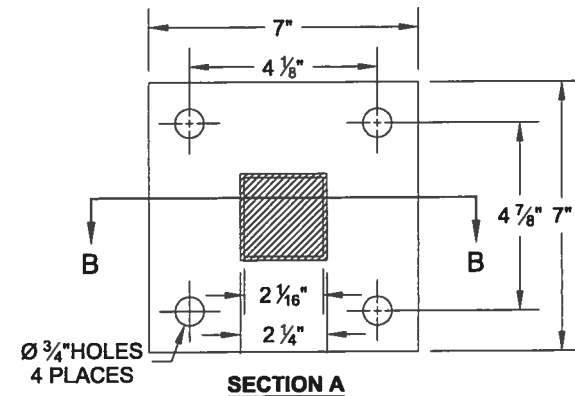
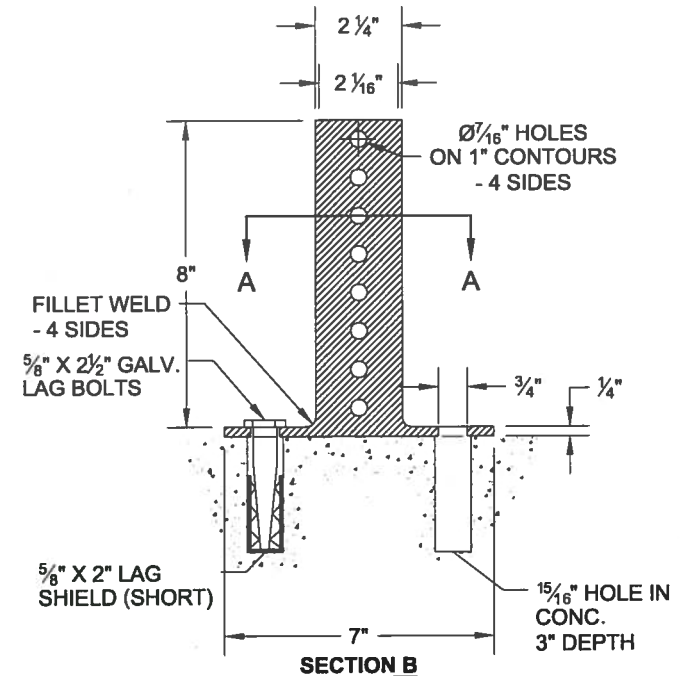
CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS	APPROVED FOR PUBLICATION		TRENCH BACKFILL COMPACTION REQUIREMENTS	
	 CITY ENGINEER	11/30/16 DATE	STANDARD PLAN NO.	SU-28

NOTES:

1. Surface mounting of sign posts, especially within traffic islands or medians, is only allowable with special authorization from the city's traffic engineering group, (Exception: Surface mounting of flexible post object markers within islands or medians is permitted).
2. If finished ground line is a hard surface, then compacted native backfill material shall be concrete with the top of foundation being smooth, dense, and uniform to finished ground line.



**SIGN SUPPORT DETAIL
FOR STEEL SIGN POST**



**BASE PLATE DETAIL FOR
STEEL SIGN POST SURFACE MOUNTING
(SEE NOTE 1)**

DCS
PUBLIC WORKS
NA
TACOMA POWER

REVIEWED BY

ENVIRONMENTAL SERVICES
NA
TACOMA WATER



APPROVED FOR PUBLICATION

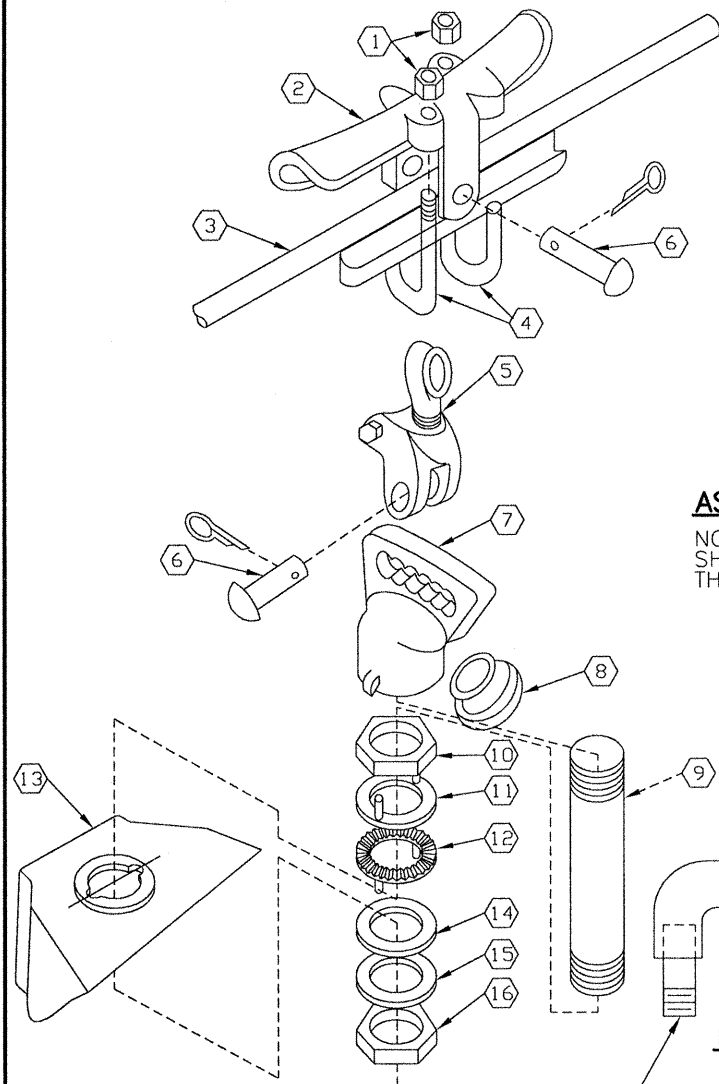
CITY ENGINEER

DATE

CITY OF TACOMA

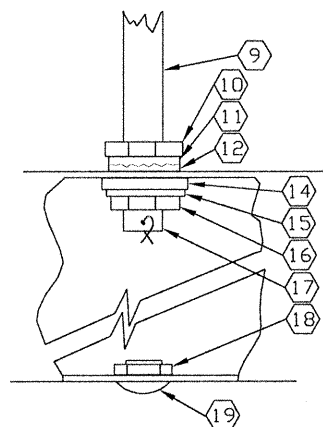
SIGN POST
INSTALLATION

STANDARD PLAN NO. SU-34



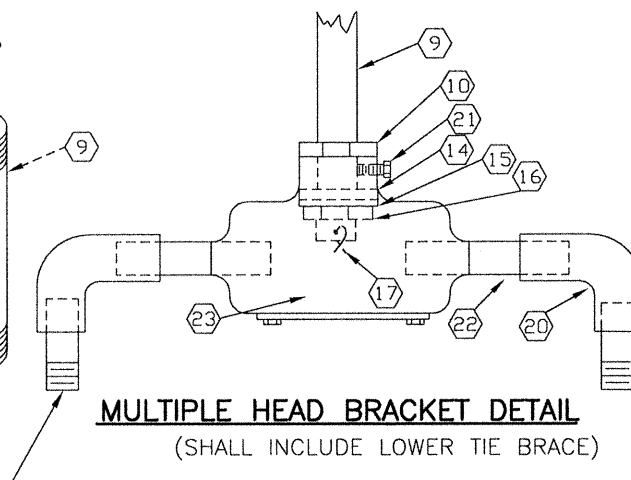
ASSEMBLED HEAD DETAIL

NOTE: A FIVE POSITION TERMINAL BLOCK SHALL BE MOUNTED INSIDE AT THE BACK OF THE YELLOW SECTION HOUSING.



MULTIPLE HEAD BRACKET DETAIL

(SHALL INCLUDE LOWER TIE BRACE)



LEGEND

1. 1/2" STAINLESS STEEL NUT WITH LOCK WASHERS (STAINLESS STEEL OR BRONZE).
2. 9" CABLE SADDLE (BRONZE). PAINTED GREEN, TO FIT 1/4" TO 1/2" SPAN WIRE.
3. SPAN WIRE.
4. 1/2" 'J' CABLE CLAMPS (STAINLESS STEEL).
5. BRONZE BALANCE ADJUSTER DIRECTIONAL LOCK, PAINTED GREEN, WITH STAINLESS STEEL BOLTS AND WASHERS.
6. 5/8" PINS (STAINLESS STEEL) WITH BRASS OR STAINLESS STEEL COTTER PIN. INSTALL BRASS OR STAINLESS STEEL WASHERS ON EACH SIDE OF COTTER PIN.
7. BRONZE ENTRANCE FITTING, PAINTED GREEN.
8. 1-1/2" INSULATED CHASE NIPPLE.
9. 1-1/2" GALVANIZED DROP PIPE PAINTED SILVER. SEE NOTE BELOW. BOTTOM THREADS TO ACCOMMODATE FULL NUT AND LOCKING WIRE.
10. 1-1/2" MALLEABLE LOCK NUT-JAM TIGHT BEFORE INSTALLING HEAD.
11. (NON-CORROSIVE) SERRATED LOCKING WASHER.
12. SERRATED LOCKING WASHER (MAY BE OMITTED IF THE TOP OF THE VEHICLE HEAD IS SERRATED).
13. SIGNAL HEAD WITH AUTOCAULKING IN LOCKING HOLES AT TOP OF THE VEHICLE HEAD.
14. 1-1/2" DIAMETER FLAT CORK GASKET. (NEOPRENE OK)
15. 1-1/2" NON-CORROSIVE SLIP RING.
16. 1-1/2" MALLEABLE NUT.
17. SAFETY LOCKING WIRE, #14TW OR EQUAL.
18. NUT (NO GASKET).
19. PINNACLE (NO WASHER) BOTTOM OF LOWEST SECTION.
20. 1-1/2" GALVANIZED 90° ELBOW, PAINTED GREEN.
21. STAINLESS STEEL SET SCREW WITH HEX HEAD.
22. 1-1/2" GALVANIZED NIPPLE, PAINTED GREEN.
23. TWO-WAY HOUSING WITH BOTTOM COVER, PAINTED GREEN.

NOTE:

ALL METAL THREADS AND BRACKETS SHALL BE PAINTED WITH A HIGH QUALITY RUST PREVENTATIVE PAINT. A COAT OF GALVANIZED BONDING PRIMER SHALL BE APPLIED AND THOROUGHLY DRY BEFORE APPLYING FINISH COAT OF PAINT. ANY PAINTED HARDWARE DAMAGED DURING ASSEMBLY OR SHIPPING SHALL BE PAINTED AGAIN.

SEE ASSEMBLED HEAD DETAIL (ABOVE)

PLACE AUTOCAULKING DUCT SEAL BETWEEN ALL TOP EXTERIOR COMPRESSION JOINTS.

APPROVED FOR PUBLICATION

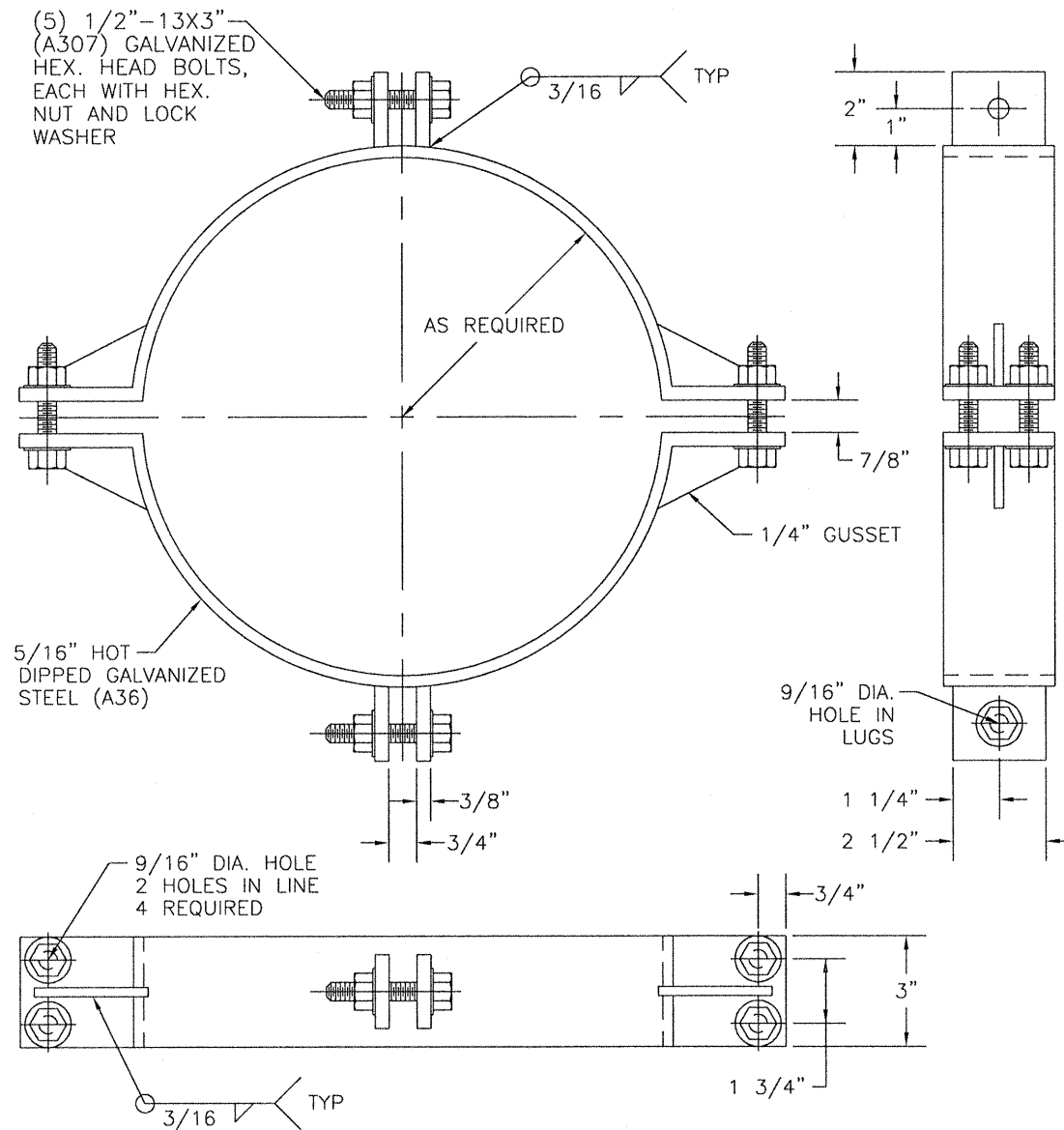
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER

DATE 2/4/03

VEHICLE TRAFFIC SIGNAL
(SINGLE & MULTIPLE)
HANGER ASSEMBLY

STANDARD PLAN NO. TS-01



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

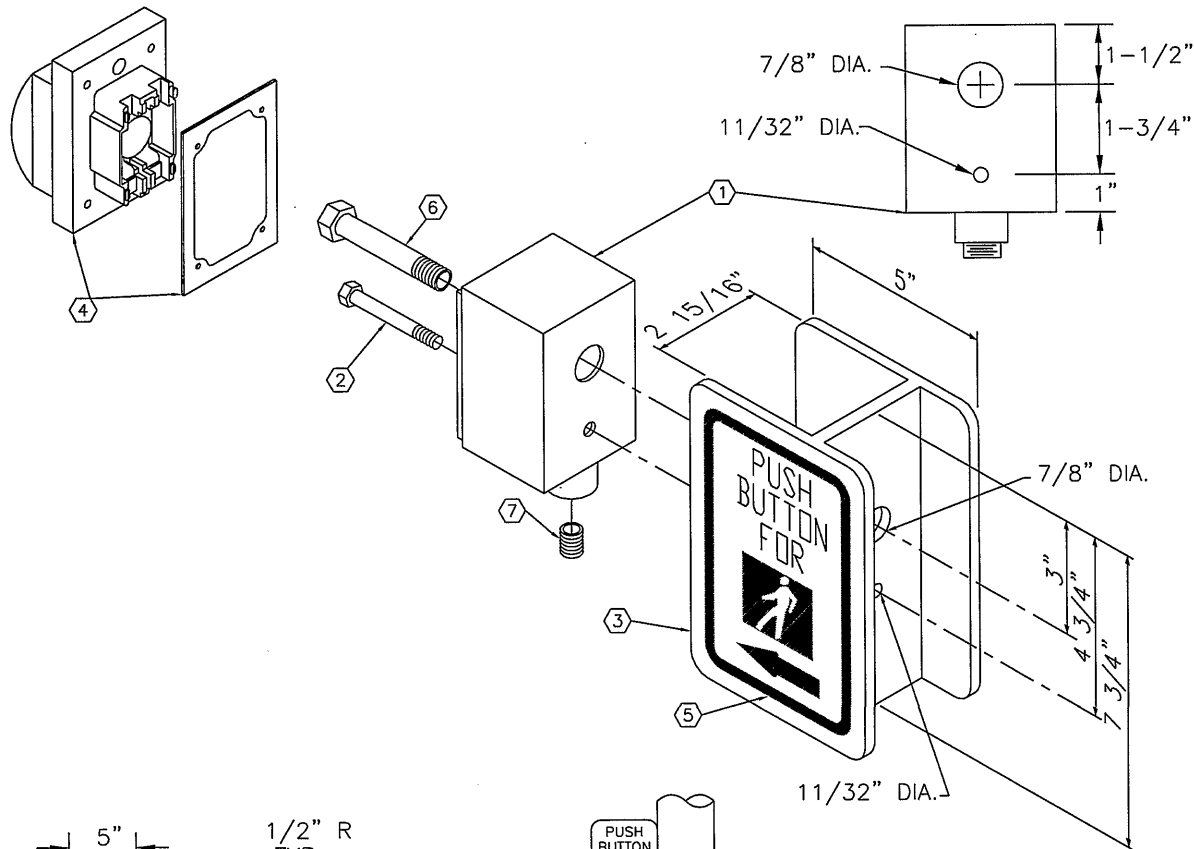
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

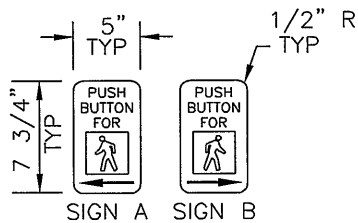
SPAN WIRE
STRAIN CLAMP

STANDARD PLAN NO. TS-02



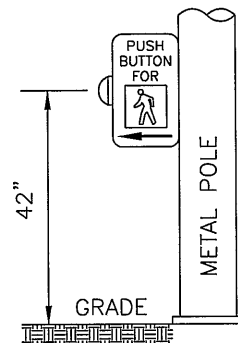
CONSTRUCTION NOTES

- ① FD-1-50-A CAST ALUMINUM BOX
- ② 5/16 INCH STAINLESS HEX BOLT WITH LOCK WASHER. DRILL & TAP POLE FOR 5/16 INCH STAINLESS STEEL BOLT.
- ③ H-TYPE EXTRUDED ALUMINUM OR FABRICATED APPROVED EQUAL
- ④ BUTTON, PLATE, STAINLESS STEEL FASTENERS & GASKET. PUSHBUTTON MECHANISM MUST HAVE MINIMUM OF 1/8 INCH OVER TRAVEL. REES #1371-412 OR APPROVED EQUAL.
- ⑤ SIGN TO BE SCREENED ON BOTH FACES OF EXTRUDED ALUMINUM OR ON SEPARATE PANELS
- ⑥ 1/2 INCH CHASE NIPPLE W/NPT
- ⑦ 1/2 INCH ALUMINUM PLUG (DRILL 1/8 INCH DRAIN HOLE)



ONE EACH
PER PUSHBUTTON
ASSEMBLY
R10-4B

SIGN DETAILS



TYPICAL INSTALLATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

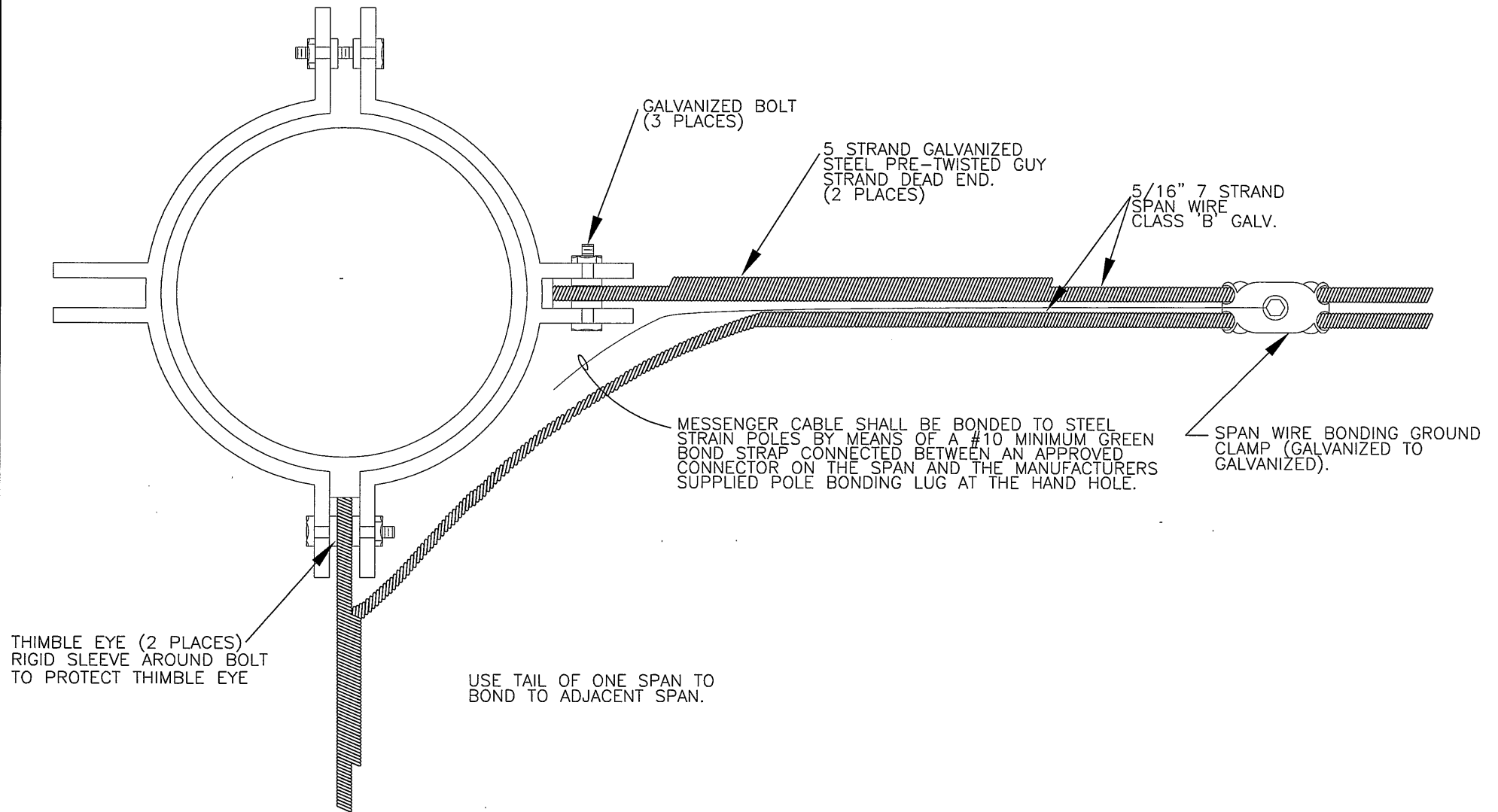
CITY ENGINEER

[Signature]

DATE 2/4/03

H-TYPE PEDESTRIAN
PUSHBUTTON
ASSEMBLY

STANDARD PLAN NO. TS-03



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

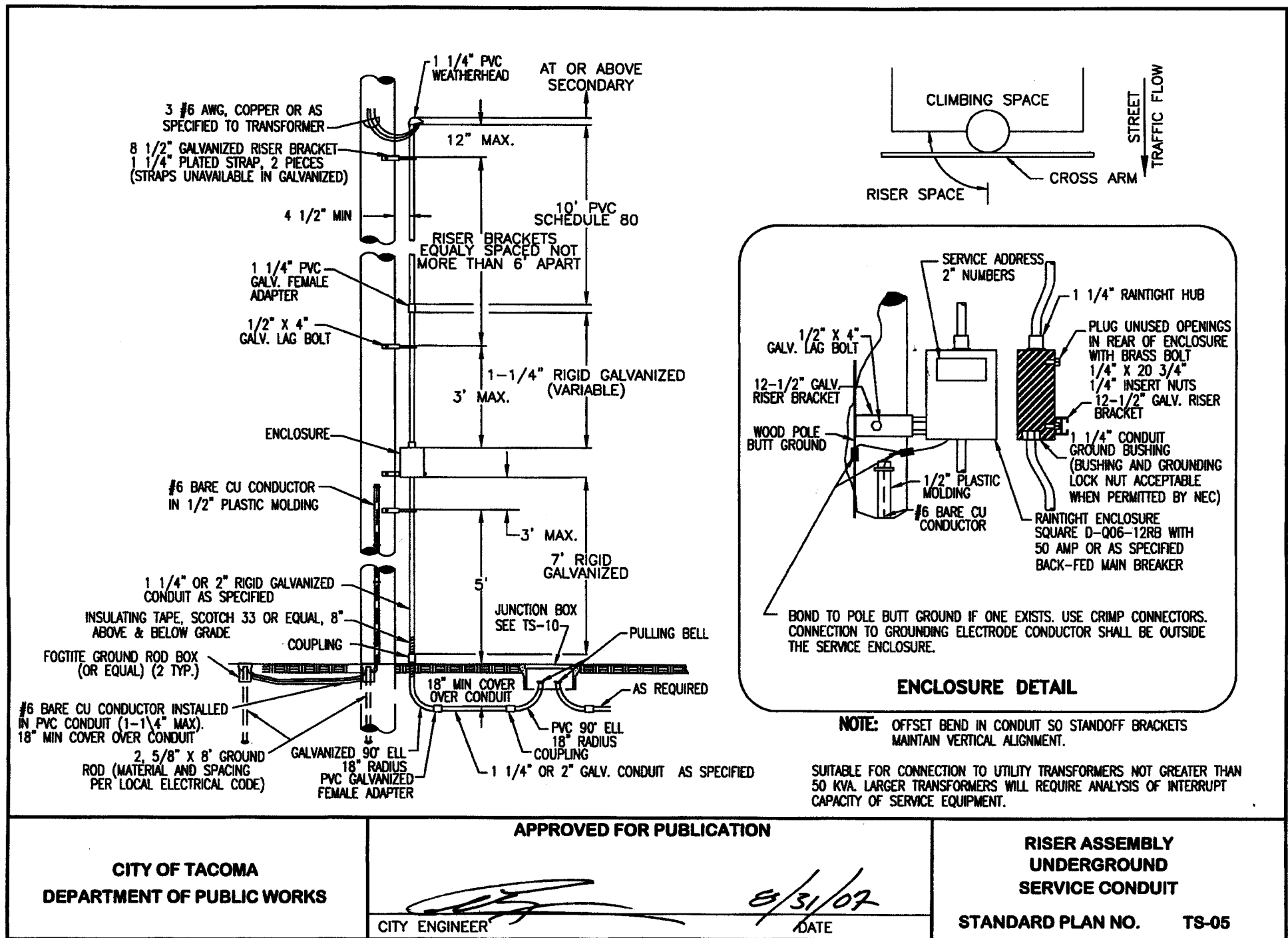
CITY ENGINEER

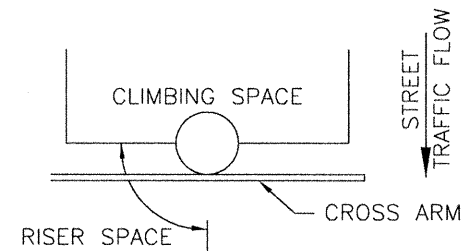
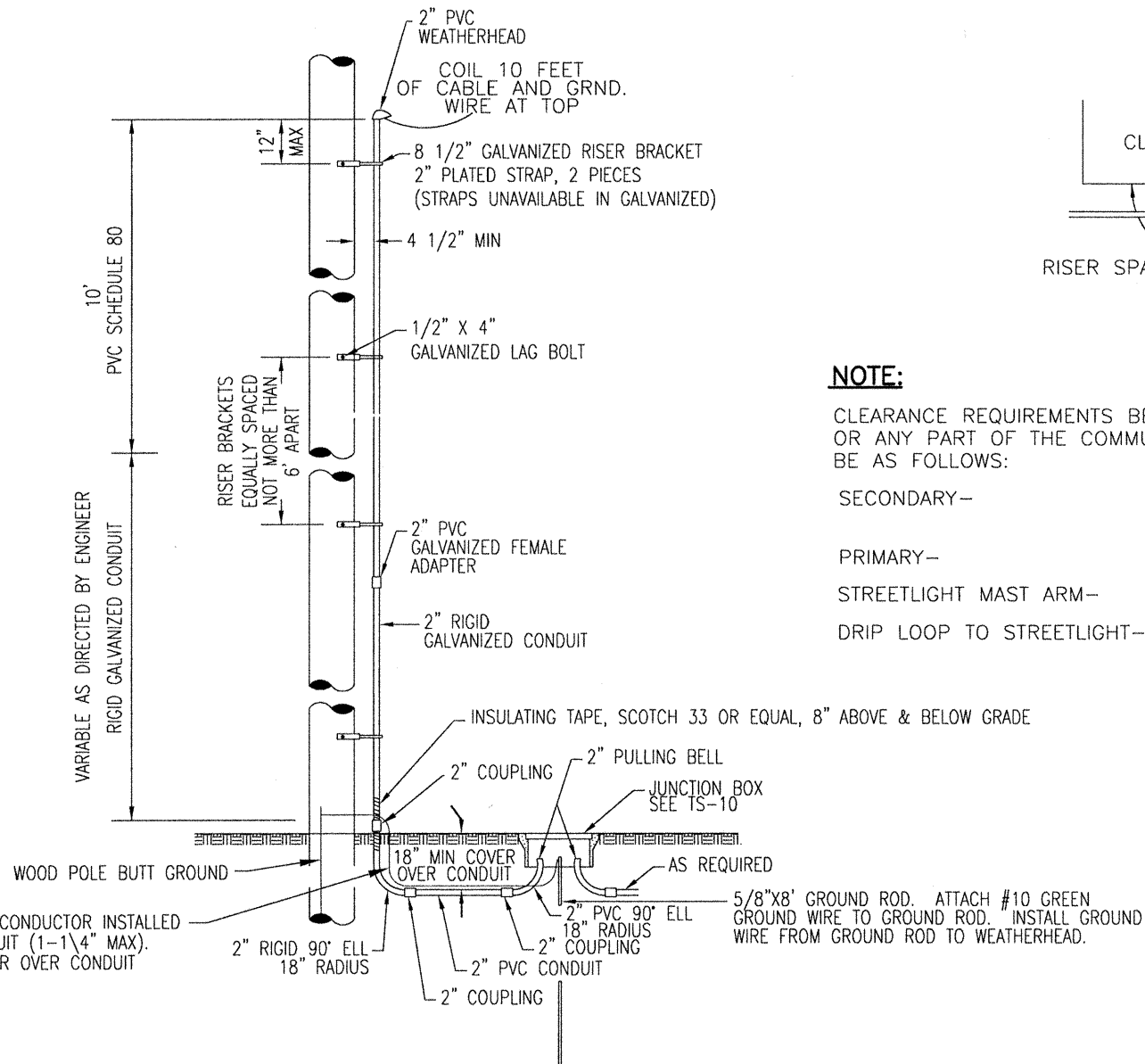
[Signature] 2/11/03

DATE 2/4/03

SPAN WIRE
DETAIL

STANDARD PLAN NO. TS-04





NOTE:

CLEARANCE REQUIREMENTS BETWEEN THE TOP OF WEATHERHEAD, OR ANY PART OF THE COMMUNICATION RISER ASSEMBLY, SHALL BE AS FOLLOWS:

SECONDARY—	MINIMUM 40 INCHES TO LOWEST PART OF SECONDARY OR NEUTRAL.
PRIMARY—	MINIMUM OF 10 FEET 2 INCHES.
STREETLIGHT MAST ARM—	MINIMUM OF 20 INCHES.
DRIP LOOP TO STREETLIGHT—	MINIMUM OF 12 INCHES.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

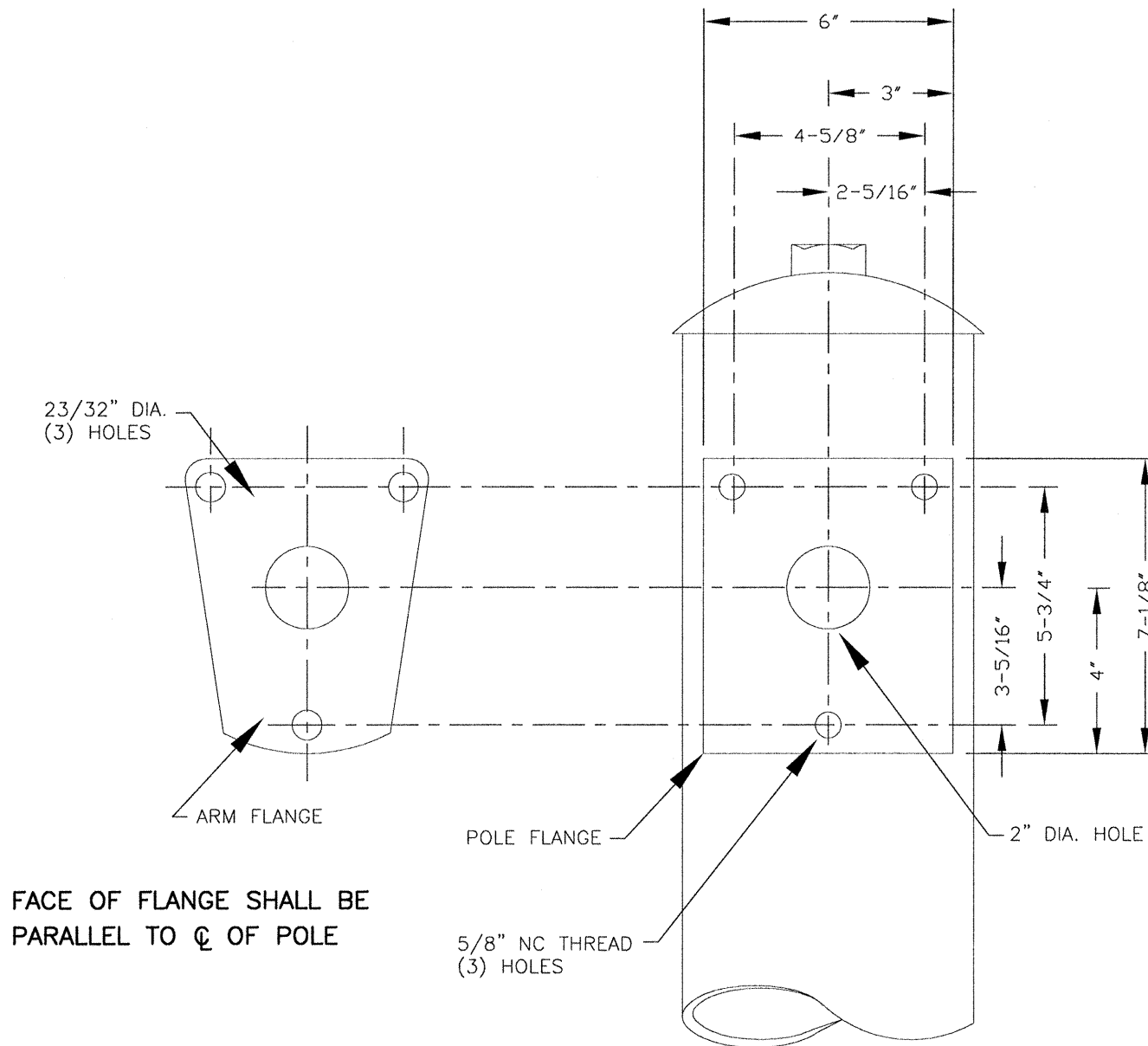
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

RISER ASSEMBLY
COMMUNICATION
SIGNAL CONDUIT

STANDARD PLAN NO. TS-06



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

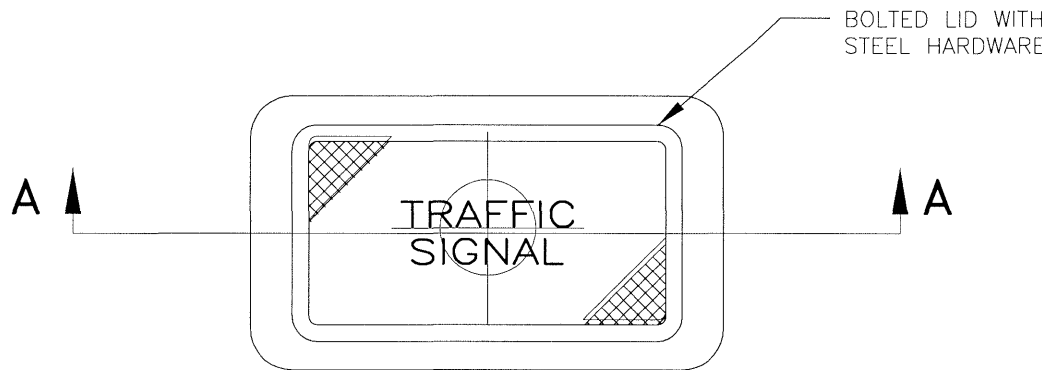
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

STREETLIGHT
MAST ARM MOUNTING
FLANGE DETAIL

STANDARD PLAN NO. TS-07



NOTES:

JUNCTION BOXES SHALL BE CONCRETE WITH LOCKING POLYMER CONCRETE OR CAST-IRON LIDS. LIDS SHALL BE RATED FOR TRAFFIC AND SHALL HAVE A NONSKID SURFACE. THE LIDS SHALL HAVE AN EDGE THICKNESS OF 1-3/4" AND BE APPROXIMATELY 10-1/8" x 15-1/4" FOR A STANDARD JUNCTION BOX AND 13-1/8" x 22-1/8" FOR A LARGE JUNCTION BOX. THE LID SHALL BE MARKED "TRAFFIC SIGNAL", "STREETLIGHTING", OR OTHER DESIGNATION AS CALLED FOR ON THE PROPOSAL. THE BODY OF THE BOX SHALL BE A MINIMUM OF 12 INCHES HIGH.

EITHER METHOD SHOWN IS ACCEPTABLE FOR PLASTIC OR METAL CONDUIT. IF PIPE BENDER IS NOT AVAILABLE USE COUPLING AND STANDARD 90° BEND. BOX SHALL SET ON A 6 INCH CRUSHED SURFACING TOP COURSE FOR DRAINAGE.

CARE SHALL BE TAKEN TO PLACE JUNCTION BOXES OUT OF AREAS HEAVILY USED BY PEDESTRIANS, ESPECIALLY NEAR CROSSWALKS AND CORNERS.

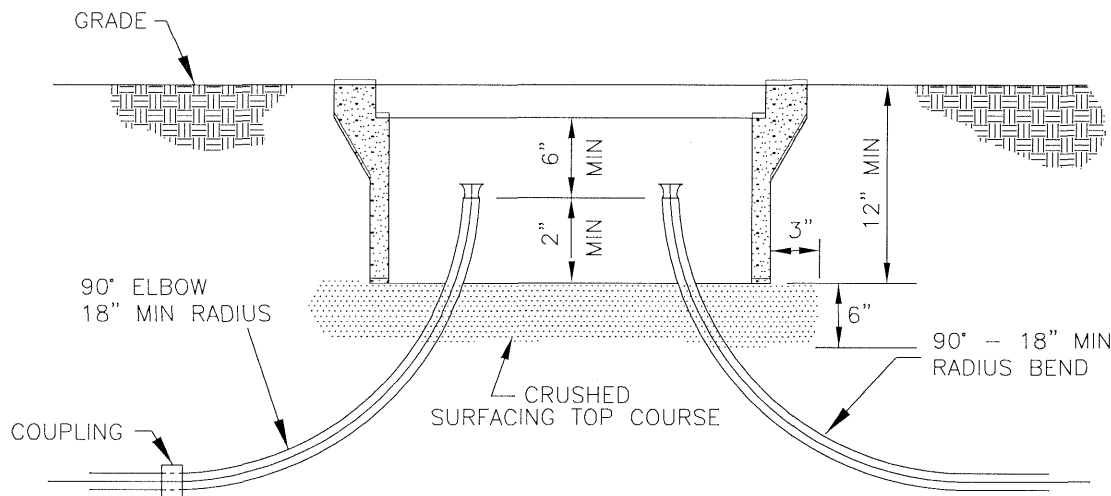
METAL COVERS SHALL BE GROUNDED. GROUND CONNECTION SHALL BE MINIMUM 24" LONG.

JUNCTION BOXES SHALL NOT BE PLACED IN CURB RAMPS OR AREAS SUBJECT TO VEHICULAR TRAFFIC.

ADJACENT JUNCTION BOXES SHALL BE SEPARATED BY A MINIMUM OF THREE (3) INCHES.

CONDUIT SHALL BE PLACED WITHIN 3" OF THE BOX WALL NEAREST ITS ENTRY LOCATION. INSTALL PULLING BELLS OR BUSHINGS ON CONDUIT ENDS.

JUNCTION BOXES SHALL BE RATED FOR 8000 POUND LOAD ON COVER.



CONDUIT METHOD I

CONDUIT METHOD II

SECTION A-A

APPROVED FOR PUBLICATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

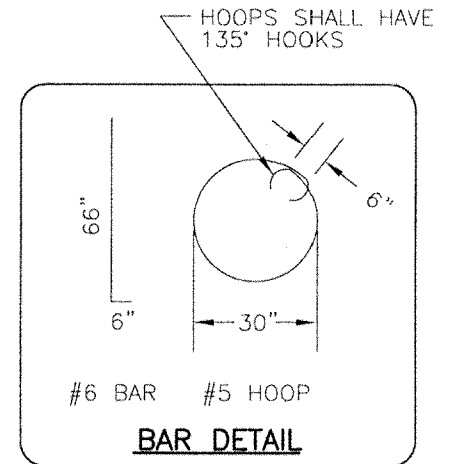
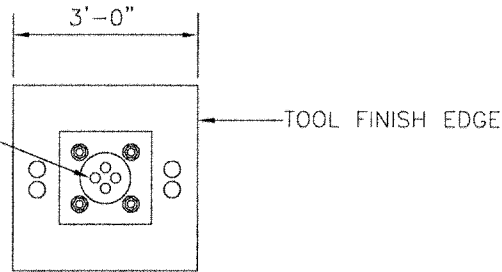
[Signature]
CITY ENGINEER

3/11/04
DATE

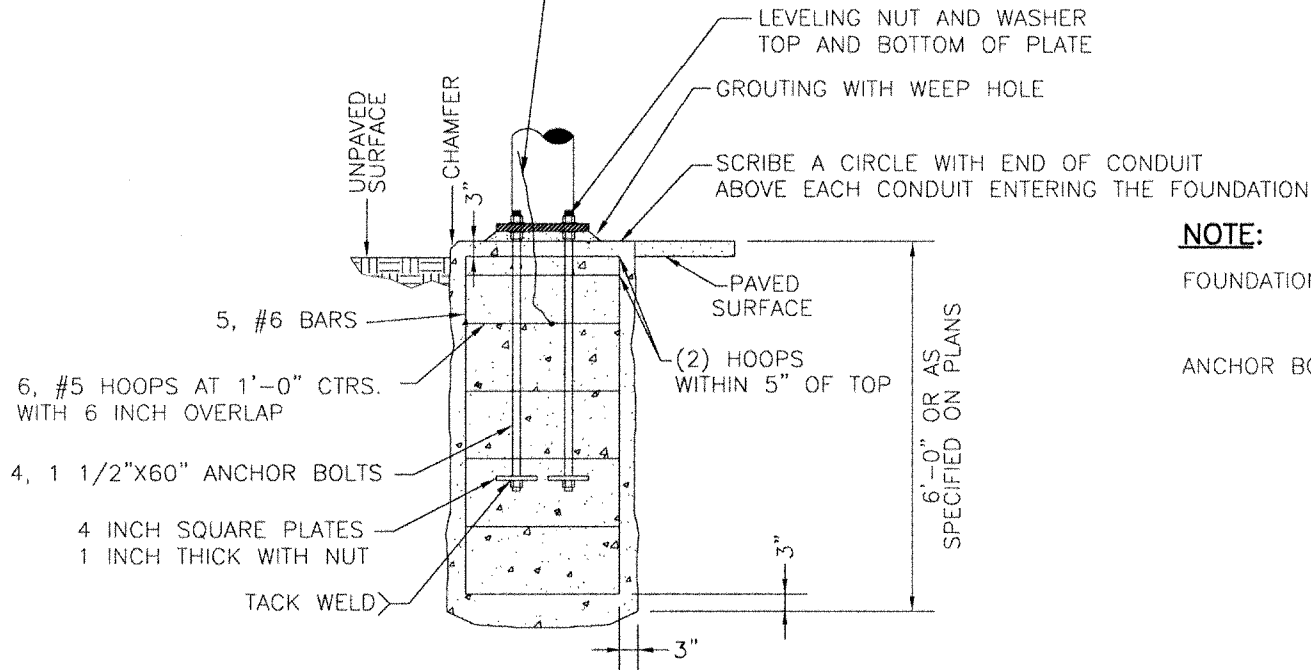
JUNCTION BOX
INSTALLATION
TYPICAL

STANDARD PLAN NO. TS-08

CONDUIT SHALL BE CENTERED IN 8 INCH DIAMETER CIRCLE WITH SPACING FOR COUPLINGS. CONDUIT SHALL BE STRAIGHT AND VERTICAL IN POLE. THERE SHALL BE A MINIMUM OF 4 CONDUITS IN EACH FOUNDATION.



#6 STRANDED GROUND CABLE. BOND CAGE TO GROUND LUG.



NOTE:

FOUNDATION

TOP ELEVATION SET BY ENGINEER.
TOP 6 INCHES SHALL BE FORMED SQUARE.

ANCHOR BOLTS

SPACING AS PER TEMPLATE SUPPLIED BY POLE SUPPLIER.
TOP OF BOLTS TO BE LEVEL.
SEE SECTION 9-29.14 OF THE CITY AMENDMENTS.
ANCHOR BOLTS SHALL EXTEND 6.0 TO 6.5 INCHES ABOVE THE FOUNDATION UNLESS OTHERWISE SPECIFIED.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

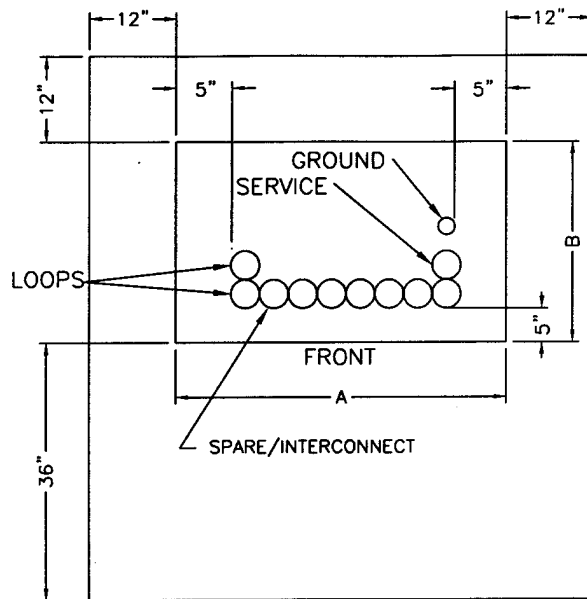
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

STRAIN POLE
STANDARD
FOUNDATION

STANDARD PLAN NO. TS-09



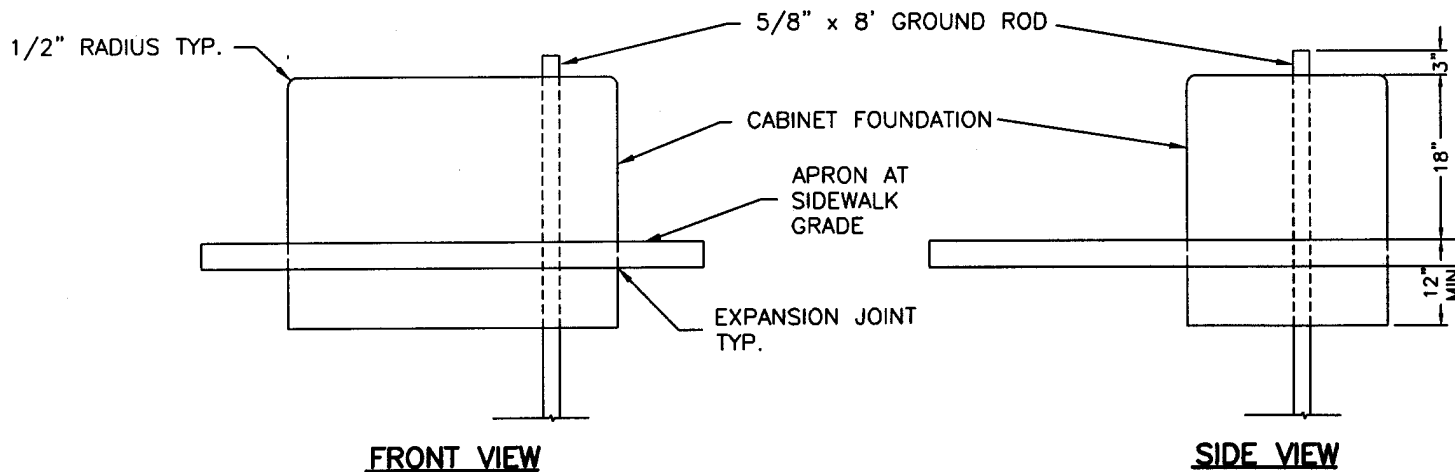
PLAN VIEW

M-CABINET FOUNDATION
A=32", B=19"

P-CABINET FOUNDATION
A=46", B=28"

NOTES:

1. CONDUIT SHALL HAVE MINIMUM 18" RADIUS BENDS.
2. CONDUITS SHALL EXTEND 1" ABOVE TOP OF BASE. INSTALL PULLING BELLS ON CONDUIT ENDS.
3. CONDUITS TO BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
4. 15 FEET OF SLACK CABLE SHALL BE PROVIDED AT THE CONTROLLER END OF ALL CABLES TERMINATING IN THE CONTROLLER CABINET.
5. CABINET ANCHORS SHALL BE EXPANSION ANCHORS (5/8" x 4-1/2").
6. 4" THICK CONCRETE APRON SHALL EXTEND 12" AROUND REAR AND SIDES AND 36" IN FRONT. INSTALL EXPANSION JOINT BETWEEN FOUNDATION AND APRON.



FRONT VIEW

SIDE VIEW

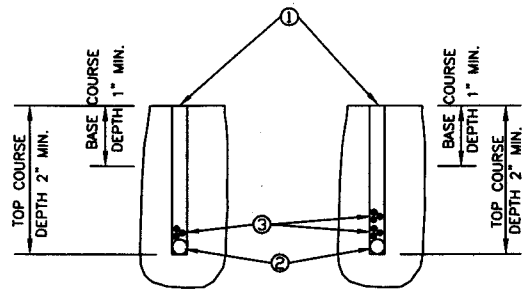
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

CITY ENGINEER

DATE

FOUNDATION & APRON FOR
"M" AND "P"
CONTROLLER CABINETS
STANDARD PLAN NO. TS-10



1/4" SAWCUT

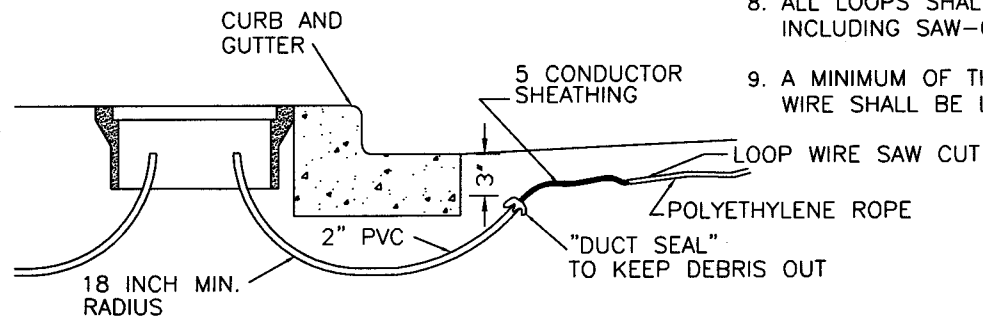
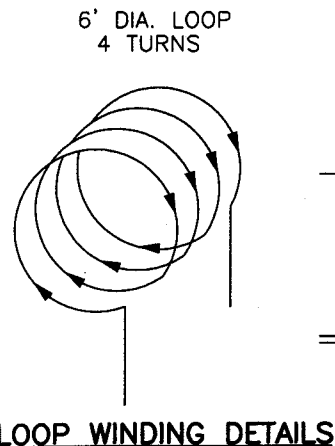
TYPICAL

3/8" SAWCUT

AS NOTED ON PLANS

NOTES:

- ① SEALANT - CRAFTCO 34271 OR EQUAL TO WITHIN 1/4 INCH OF THE SAWCUT. DO NOT OVERFILL.
- ② TWISTED POLYETHYLENE ROPE (SIZE FOR SNUG FIT).
- ③ LOOP WIRE #12 USE STRANDED COPPER CONDUCTOR (SEE LOOP WINDING DETAIL) OR LEAD-IN WIRES #18 STRANDED TINNED COPPER CONDUCTOR: ONE PAIR FOR EACH LOOP SERVED, 2 PAIRS MAX. PER SAWCUT.



**TYPICAL CONDUIT PLACEMENT
FOR LOOP LEAD-IN WIRES**

CONSTRUCTION NOTES:

1. CHANGE FROM 2 INCH CUT TO APPROXIMATELY A 4 INCH CUT AT ABOUT 12 INCHES FROM CURB.
2. LEAD-IN CUT SHALL BE THE SAME AS LOOP CUT EXCEPT AS INDICATED ON THE PLANS. IN THE LAST 12 TO 18 INCHES FROM THE GUTTER SECTION THE CUT SHALL GRADUALLY TRANSITION TO A FULL DEPTH CUT WHERE THE CONDUIT STUBS OUT UNDER THE CURB AND GUTTER. THIS WILL ALLOW THE LEAD-IN WIRE TO EXIT THE CONDUIT AND ENTER THE SAW CUT WITH NO SHARP EDGES.
3. METHOD SAME FOR CONCRETE OR ASPHALT PAVEMENTS.
4. INSTALL 5 CONDUCTOR CABLE SHEATHING OVER INDIVIDUAL PAIRS. EXTEND 6 INCHES INTO SAWCUTS AND 6 INCHES INTO CONDUIT. LEAVE SLACK AS DIRECTED BY ENGINEER.
5. ALL SAWCUTS SHALL BE CLEANED WITH A HIGH PRESSURE WASHER AND DRIED WITH 100 PSI MINIMUM AIR PRESSURE. ALL WASH WATER AND SLURRY SHALL BE VACCUMED UP AND PROHIBITED FROM LEAVING THE IMMEDIATE CUT AREA.
6. ONLY THOSE LOOPS THAT CAN BE COMPLETELY FINISHED, HAVING LOOP WIRE, ROPE AND SEALANT INSTALLED, IN ONE WORKING DAY, SHALL BE SAW-CUT IN THAT WORKING DAY. NO CONTINUOUS TRAFFIC SHALL BE ALLOWED TO TRAVEL OVER OPEN SAW-CUTS BEFORE LOOP WIRE, ROPE AND SEALANT HAVE BEEN INSTALLED. ALL ROADWAY SURFACES SHALL BE THOROUGHLY CLEANED UPON COMPLETION OF ANY LOOP WORK.
7. LOOP SPLICING PROCEDURE SHALL BE TO TWIST THE WIRE, SOLDER IT, WRAP WITH ELECTRICIAN'S TAPE TO 4 INCHES PAST THE SPICE EACH WAY, AND COAT WITH MOISTURE-RESISTANT VARNISH. LOOP SPLICING SHALL BE PERFORMED BY CITY OF TACOMA CREWS.
8. ALL LOOPS SHALL BE COMPLETELY INSTALLED BY THE CONTRACTOR INCLUDING SAW-CUTTING, LAYING WIRE, TESTING AND SEALANT.
9. A MINIMUM OF THREE (3) FEET OF SLACK LOOP WIRE OR LEAD-IN WIRE SHALL BE LEFT AT JUNCTION BOX.

**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

CITY ENGINEER

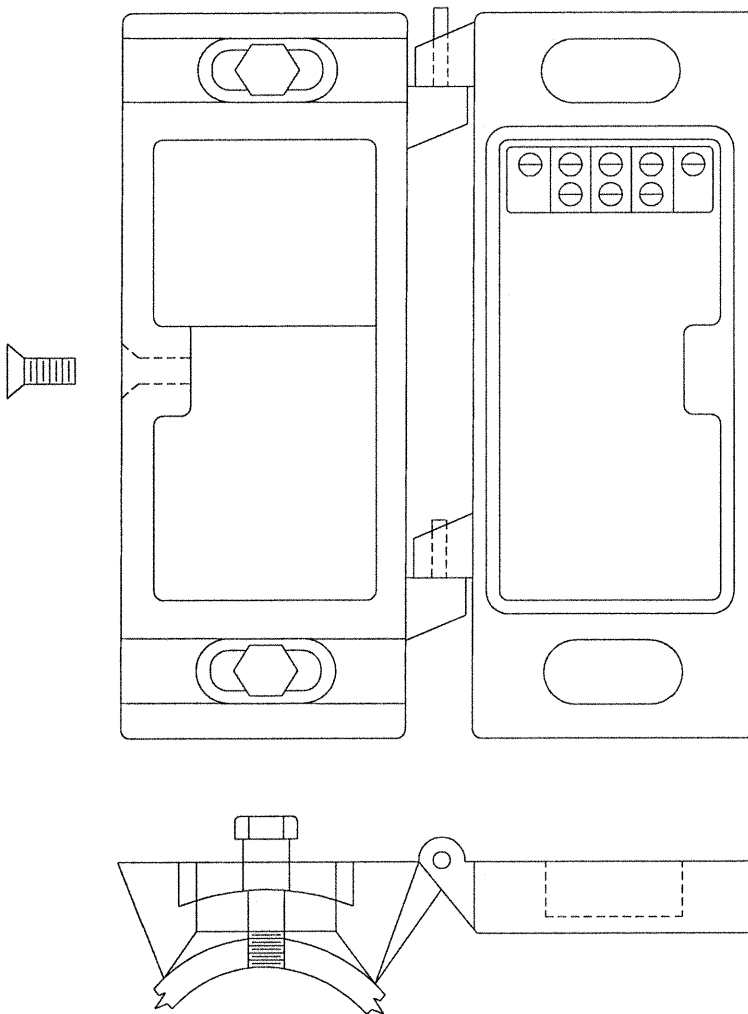
DATE

**INDUCTION LOOP
DETAILS**

STANDARD PLAN NO. TS-11

POLE HALF

SIGNAL HALF



MATERIAL:

CAST ALUMINUM ALLOY

STANDARD PAINT FINISHES:

DARK OLIVE GREEN

DIMENSIONS:

11-1/4" H MAXIMUM x5-1/2" W MAXIMUM x2-3/4 D MAXIMUM

WEIGHT:

TOTAL WEIGHT SHALL NOT EXCEED 7-1/2 LBS.

CONSTRUCTION:

THE CLAMSHELL CONSISTS OF A TWO PART MOUNTING ASSEMBLY. THE HINGE PINS ON THE POLE MOUNTED HALF SHALL BE STAINLESS STEEL AND FIT INTO THE EARS ON THE SIGNAL MOUNTED HALF.

MOUNTING:

THE POLE HALF OF THE ASSEMBLY SHALL BE DESIGNED TO FIT THE CURVATURE OF POLES 4" IN DIAMETER AND LARGER.

THE CLAMSHELL SHALL BE MECHANICALLY DESIGNED TO ALLOW FOR VARIOUS TYPES OF MOUNTING SUCH AS BANDING, THRU-BOLT OR LAG SCREW MOUNTING. THE BOLT HOLES SHALL BE ELONGATED HORIZONTALLY TO ALLOW FOR ROTATION ON THE POLE.

THE SIGNAL HALF OF THE ASSEMBLY SHALL BE SECURED TO THE POLE HALF THROUGH USE OF A FLATHEAD SOCKET BOLT AND TIGHTENED USING A 3/16" ALLEN WRENCH.

THE POLE HALF SHALL BE MOUNTED TO THE STRAIN POLE USING BOLTS EXCEPT AS DIRECTED BY THE ENGINEER.

THE BOTTOM OF THE PEDESTRIAN SIGNAL HEAD SHALL BE 8' ABOVE THE FINISHED SIDEWALK GRADE.

WIRING:

THE FIELD WIRING SHALL BE TERMINATED ON A HORIZONTALLY MOUNTED 3 POSITION TERMINAL BLOCK LOCATED IN THE UPPER HALF OF THE SIGNAL HALF.

MISCELLANEOUS:

A NEOPRENE GASKET WILL PROVIDE A RAIN-TIGHT SEAL

DRILL AND TAP HOLE IN STEEL POLE FOR 3/4" INSULATED CHASE NIPPLE FOR WIRING.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

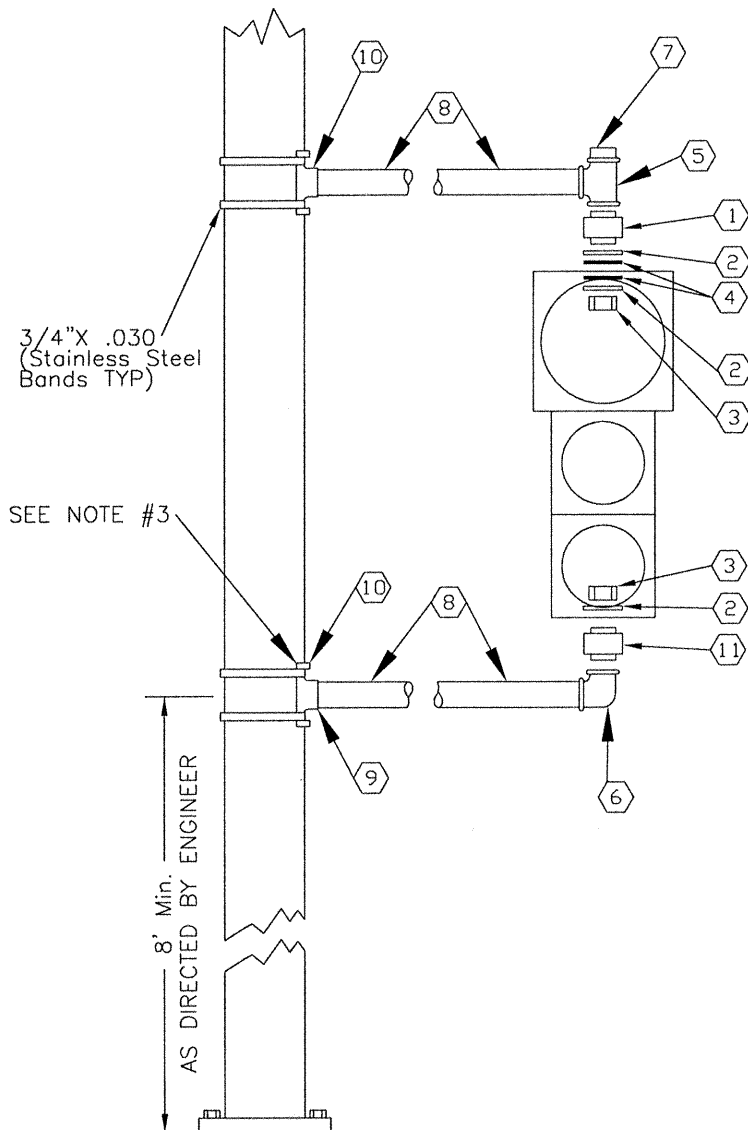
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

PEDESTRIAN SIGNAL
CLAMSHELL POLE
MOUNTING DETAIL

STANDARD PLAN NO. TS-12



NOTES:

1. ALL METAL THREADS SHALL BE PAINTED WITH A HIGH QUALITY RUST PREVENTATIVE PAINT AND DRIED BEFORE ASSEMBLY. AFTER ASSEMBLY, A COAT OF GALVANIZED BONDING PRIMER PAINT SHALL BE APPLIED (AND THOROUGHLY DRY BEFORE PAINTING). COMPLETE BRACKET ASSEMBLY SHALL HAVE A FINISH COAT OF EXTERIOR QUALITY GREEN PAINT. ANY PAINTED HARDWARE DAMAGED DURING ASSEMBLY OR SHIPPING SHALL BE PAINTED AGAIN.
2. ALL TEES AND ELBOWS SHALL BE MADE FLAT AND LEVEL AT CONTACT POINTS, FOR WATERTIGHT SEAL.
3. THE BOTTOM BRACKET FLANGE ON A STEEL POLE SHALL HAVE A 5/16" X 3/4" FLATHEAD BRASS OR BRONZE SCREW LOCATED IN THE TOP OF THE FLANGE. THE SCREW SHALL BE TAPPED INTO THE CENTERLINE OF THE POLE BEFORE BANDING.

LEGEND:

1. 1-1/2" GALVANIZED NIPPLE TO PROVIDE FULL NUT, (REAMED AND PRIMED) WITH 1" LONG PIECE OF PVC CONDUIT USED AS SPACER.
2. 1-1/2" DIAMETER NON-CORROSIVE SLIP RING.
3. 1-1/2" MALLEABLE NUT, NON-CORROSIVE.
4. 1-1/2" DIAMETER FLAT CORK GASKET. (NEOPRENE OK)
5. 1-1/2" GALVANIZED TEE.
6. 1-1/2" GALVANIZED ELBOW.
7. GALVANIZED PIPE PLUG.
8. FOR STEEL OR WOOD POLES 1-1/2" GALVANIZED NIPPLE 12" LONG.
9. FOR CONCRETE POLES, SEE CONCRETE POLE MOUNTING DETAIL.
10. DRILL AND TAP HOLE IN STEEL POLE FOR 3/4" INSULATED CHASE NIPPLE FOR WIRING.
11. ALUMINUM POLE FLANGE. SEE NOTE #3.
12. 1-1/2" GALVANIZED NIPPLE TO PROVIDE FULL NUT, (REAMED AND PRIMED) WITH 3" LONG PIECE OF PVC CONDUIT USED AS SPACER.

STEEL POLE

**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

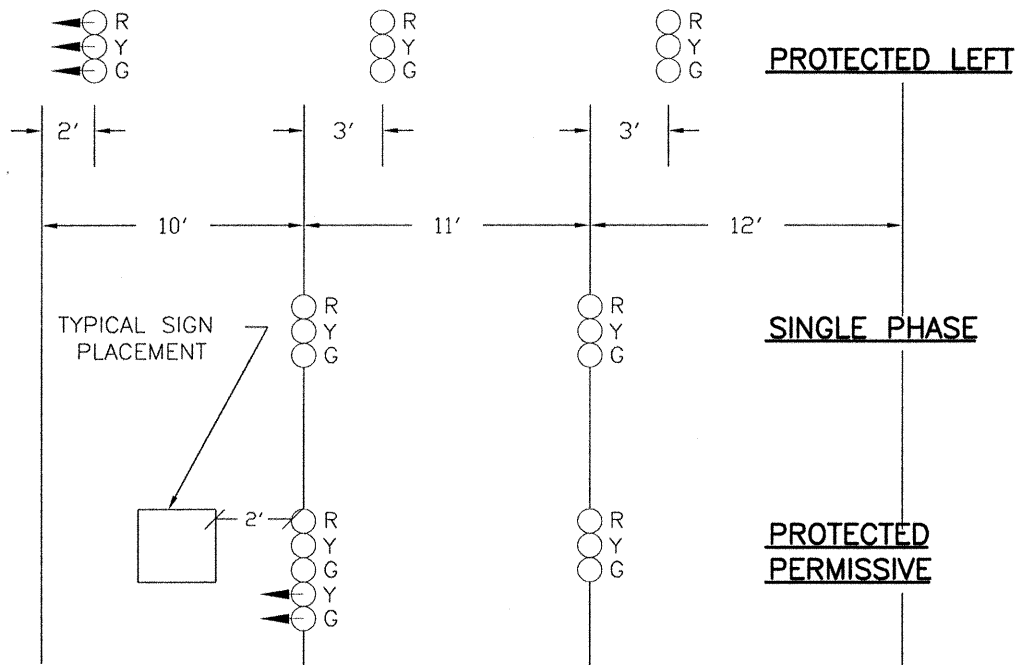
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

**VEHICLE SIGNAL HEAD
POLE MOUNT
DETAIL**

STANDARD PLAN NO. TS-13

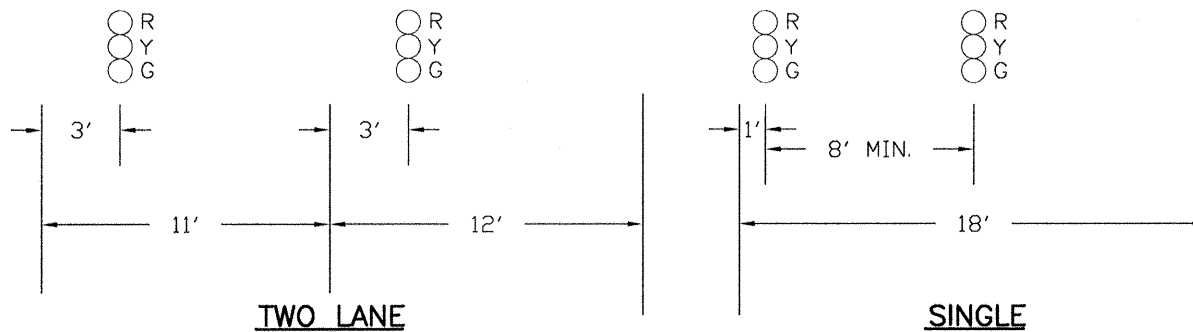


NOTE:

THIS STANDARD DEPICTS A VEHICLE HEAD PLACEMENT AS IT RELATES TO THE LANE LINES ON THE APPROACH TO THE GIVEN HEADS.

SIGNAL HEADS MUST BE LEVELED TO SPEC FROM A POINT 80 FEET FROM THE STOP BAR.

OVERHEAD SIGNS SHALL BE PLACED 2 FEET FROM VEHICLE HEAD.



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

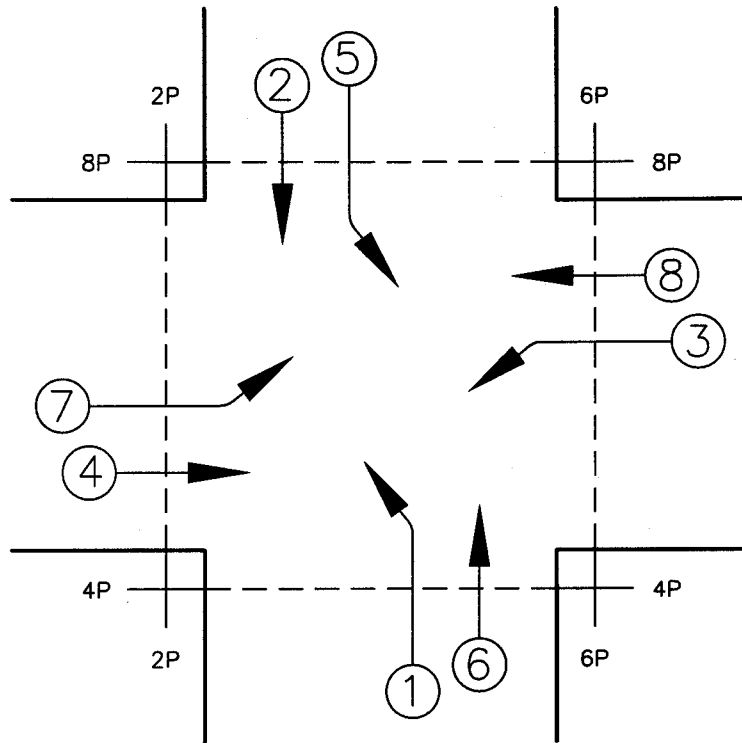
CITY ENGINEER

DATE 2/4/03

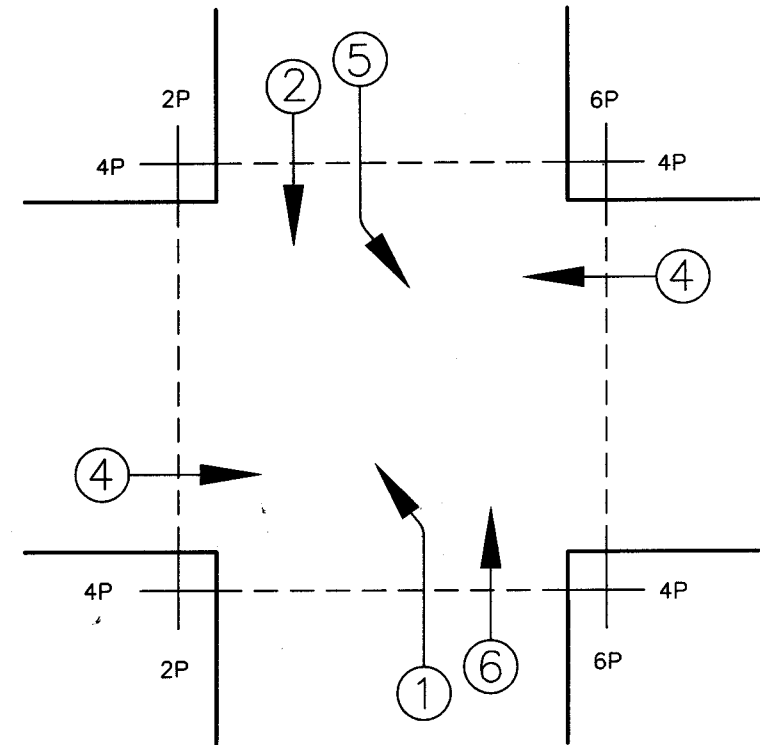
STANDARDS FOR
SIGNAL
PLACEMENT

STANDARD PLAN NO. TS-14

"P" CABINET



"M" CABINET



PEDESTRAIN SIGNAL WIRING

RED	N/S - DW
GREEN	N/S - WK
ORANGE	E/W - DW
BLACK	E/W - WK
WHITE	NEUTRAL

PEDESTRAIN PUSH BUTTON WIRING

RED	N/S
GREEN	SPARE
ORANGE	SPARE
*BLACK	E/W
WHITE	COMM BETWEEN PUSH BUTTONS

*BLACK USED WHEN ONLY ONE PUSH BUTTON
IS USED FOR CROSSING EITHER STREET.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

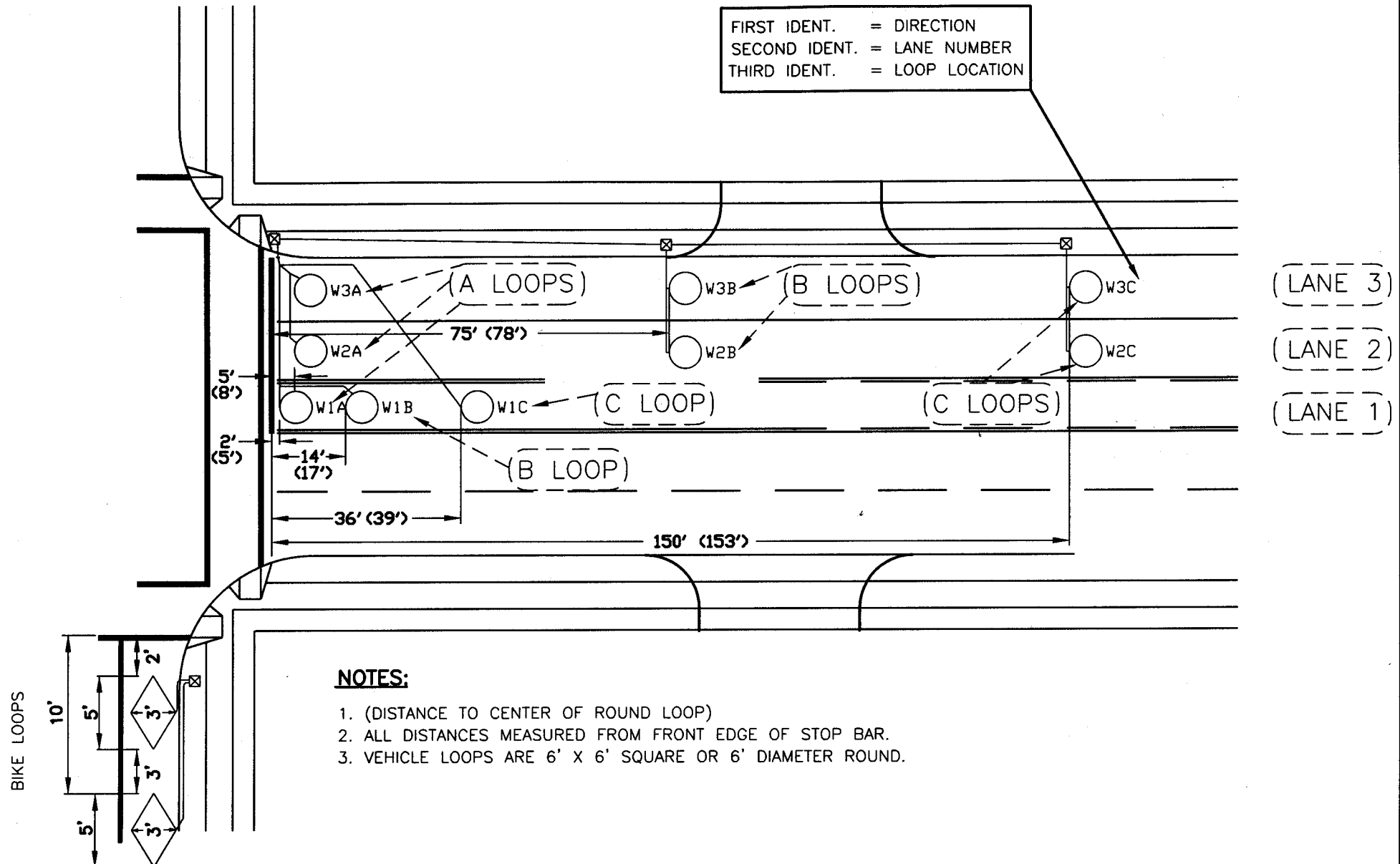
CITY ENGINEER

DATE

TRAFFIC SIGNAL
PHASE ORIENTATION

STANDARD PLAN NO. TS-15

FIRST IDENT. = DIRECTION
 SECOND IDENT. = LANE NUMBER
 THIRD IDENT. = LOOP LOCATION



CITY OF TACOMA
 DEPARTMENT OF PUBLIC WORKS

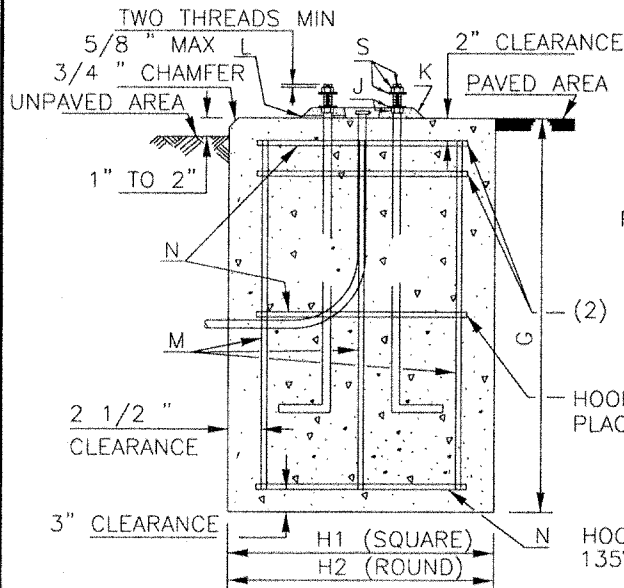
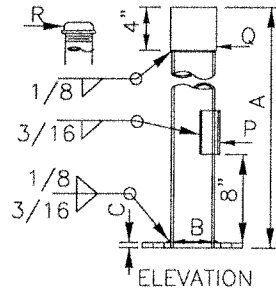
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE

VEHICLE INDUCTION LOOP
 TYPICAL LAYOUT

STANDARD PLAN NO. TS-16



FOUNDATION DETAILS

ANCHOR BOLT, NUT, & WASHER SIZES		
MARK	STANDARD	DIMENSIONS
S	TYPE PPB	4 - 1/2 " DIA x 12" x 2"
S	TYPE PS & I	4 - 3/4 " DIA x 30" x 4"
S	TYPE FB & RM	3 - 3/4 " DIA x 30" x 4"

TYPE PP
PED. PUS
BUTTON
POST

TYPE PS
PED. HEAD
STANDARD

TYPE I & RM
VEHICLE HEAD
AND RAMP METER
STANDARD

TYPE FB
FLASHING
BEACON
STANDARD

TYPE II
MAST ARM
STANDARD

TYPE III
LIGHTING AND
MAST ARM
STANDARD

TYPE IV
STRAIN POLE
STANDARD

TYPE V LIGHTING AND STRAIN POLE STANDARD

SIGNAL STANDARD TYPE DESIGNATIONS

TYPE PPB, PS, I, RM & FB STANDARD DIMENSION CHART

MARK	ITEM	TYPE PPB	TYPE PS	TYPE I	TYPE RM	TYPE FB
A	HEIGHT	4"-6"	8'-0"	10'-0"	SHEET 2	SHEET 2
B	POLE BASE DIA	2 1/2 "	*	*	*	*
C	PLATE THICKNESS	1/2 "	1/2 "	1/2 "	SHEET 2	SHEET 2
D	PLATE WIDTH	5"	9"	9"	SHEET 2	SHEET 2
E	HOLE DIA	5/8 "	1"	1"	SHEET 2	SHEET 2
F	BOLT CIRCLE	4 1/2 "	8 1/2 "	8 1/2 "	SHEET 2	SHEET 2
G	FOUNDATION DEPTH	1'-6"	3'-0"	3'-0"	3'-0"	3'-0"
H1	FOUNDATION WIDTH	1'-6"	2'-0"	2'-0"	2'-0"	2'-0"
H2	FOUNDATION DIA	2'-0"	2'-3"	2'-3"	2'-3"	2'-3"
J	NUT & WASHER	FOUR 1/2 "	3/4 "	3/4 "	3/4 "	3/4 "
K	GROUT PAD THICKNESS	NONE	**	**	SHEET 2	SHEET 2
L	PLASTIC DRAIN TUBE DIA	NONE	3/8 "	3/8 "	3/8 "	3/8 "
M	VERTICAL RE-BAR	NONE	EIGHT #4	EIGHT #4	EIGHT #4	EIGHT #4
N	HORIZ. RE-BAR HOOP	NONE	SIX #4	SIX #4	SIX #4	SIX #4
P	HANDHOLE SIZE	NONE	3-1/2"x4"	3-1/2"x4"	3-1/2"x4"	3-1/2"x4"
Q	SLIPFITTER DIA (I.D.)	NONE	4"	4"	4"	4"
R	CAP DIA	2 1/2 "	NONE	NONE	NONE	NONE

* TAPERED ROUND OR OCTAGONAL SHAFT, 11 GAGE, 4" OD AT SLIPFITTER WELD.

** LEVELING NUT HEIGHT 1" MAXIMUM.

LEVELING NUTS NOT REQUIRED FOR TYPE PPB STANDARD

TAPER = 0.14 INCHES/FT.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

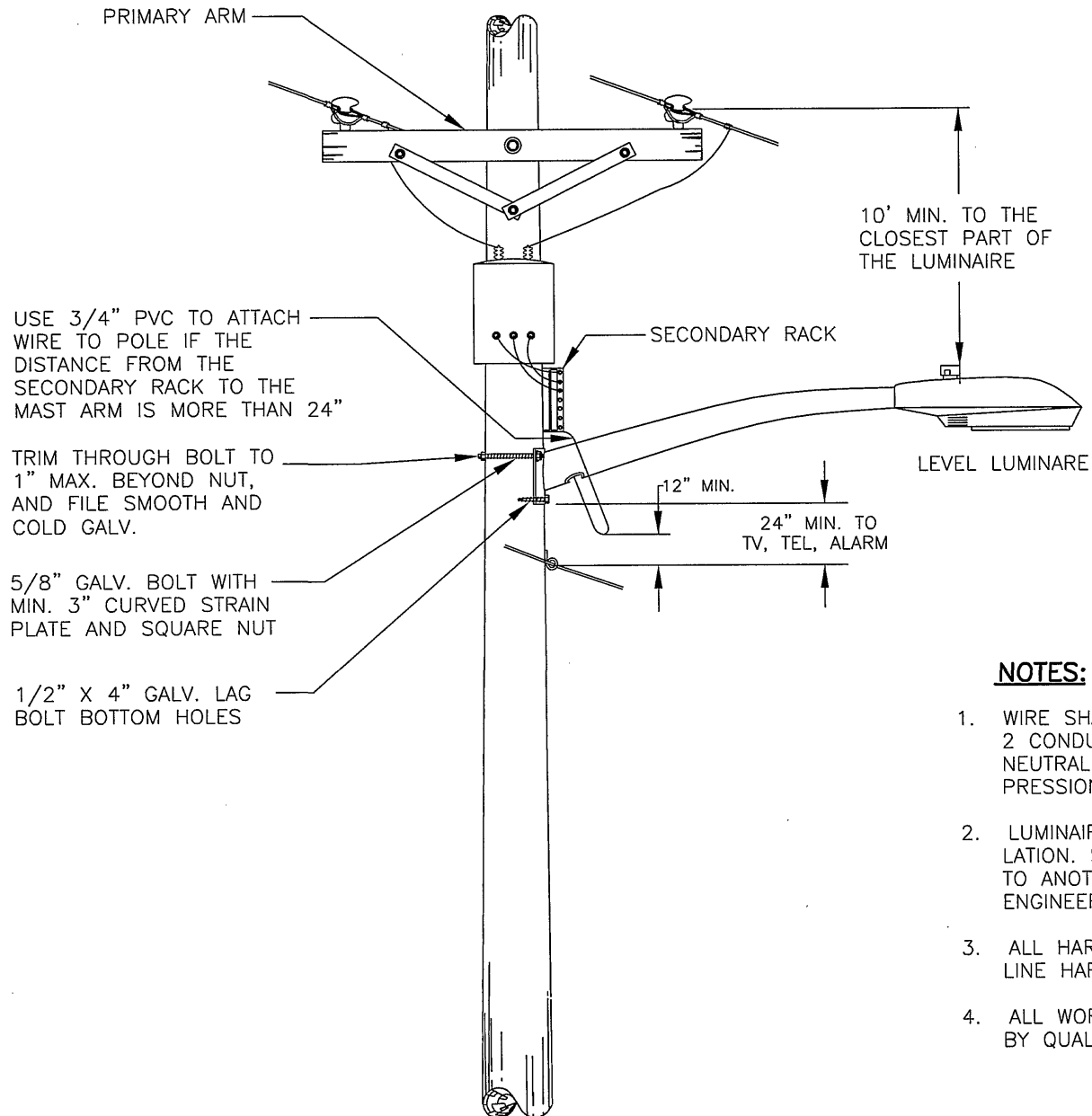
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

**SIGNAL STANDARD TYPE
DESIGNATIONS AND TYPE
PPB, PS, I, RM, & FB DETAILS**

STANDARD PLAN NO. TS-17



NOTES:

1. WIRE SHALL BE MINIMUM #10 AWG COPPER 2 CONDUCTOR. CONNECT TO 240 VOLT, NO NEUTRAL OR GROUND CONNECTION. USE COMPRESSION CONNECTORS APPROVED BY ENGINEER.
2. LUMINAIRES SHALL BE LEVELED AFTER INSTALLATION. SOCKET POSITION SHALL BE ADJUSTED TO ANOTHER POSITION IF REQUESTED BY THE ENGINEER BEFORE INSTALLATION.
3. ALL HARDWARE SHALL BE HOT DIP GALVANIZED LINE HARDWARE.
4. ALL WORK ON UTILITY POLES TO BE PERFORMED BY QUALIFIED LINEMEN.

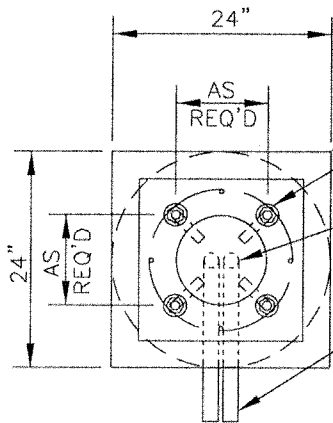
**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

**STREETLIGHT
LUMINAIRE ON WOOD POLE
TYPICAL INSTALLATION
STANDARD PLAN NO. SL-01**

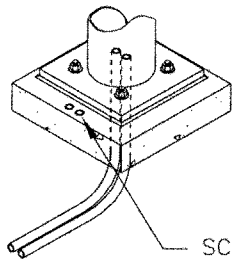


TOOL FINISH TOP AND EDGES

4EA ANCHOR BOLTS
MINIMUM TOP 8" OF BOLT SHALL BE GALVANIZED
(AASHTO M111)

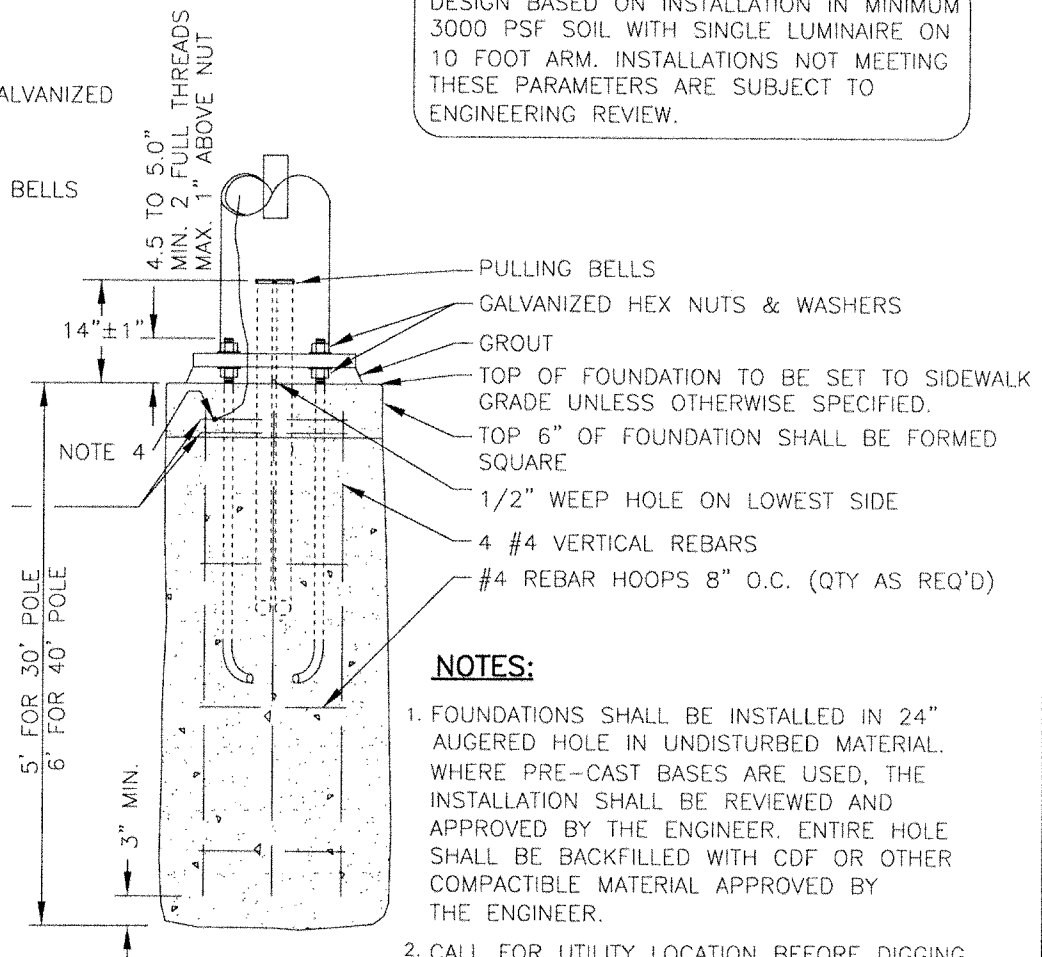
CONDUIT SHALL BE CENTERED ON POLE
W/CLEARANCE FOR COUPLINGS/PULLING BELLS

THERE SHALL BE A MINIMUM OF TWO
CONDUITS IN EACH FOUNDATION.
CONDUIT SHALL HAVE 18" RADIUS AND
BE ORIENTED TO MINIMIZE CONDUIT
BENDS.



SCRIBE A CIRCLE WITH END
OF CONDUIT ABOVE EACH
CONDUIT ENTERING THE
FOUNDATION.

(2) HOOPS WITHIN 5" OF TOP



DESIGN BASED ON INSTALLATION IN MINIMUM
3000 PSF SOIL WITH SINGLE LUMINAIRE ON
10 FOOT ARM. INSTALLATIONS NOT MEETING
THESE PARAMETERS ARE SUBJECT TO
ENGINEERING REVIEW.

NOTES:

1. FOUNDATIONS SHALL BE INSTALLED IN 24"
AUGERED HOLE IN UNDISTURBED MATERIAL.
WHERE PRE-CAST BASES ARE USED, THE
INSTALLATION SHALL BE REVIEWED AND
APPROVED BY THE ENGINEER. ENTIRE HOLE
SHALL BE BACKFILLED WITH CDF OR OTHER
COMPACTIBLE MATERIAL APPROVED BY
THE ENGINEER.
2. CALL FOR UTILITY LOCATION BEFORE DIGGING
(1-800-424-5555)
3. ALL STEEL TO HAVE 3" MINIMUM CONCRETE
COVER. HOOPS SHALL HAVE 135° HOOKS.
ANCHOR BOLTS MAY BE SECURED TO HOOPS.
4. BOND CAGE TO GROUND LUG.

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

CITY ENGINEER

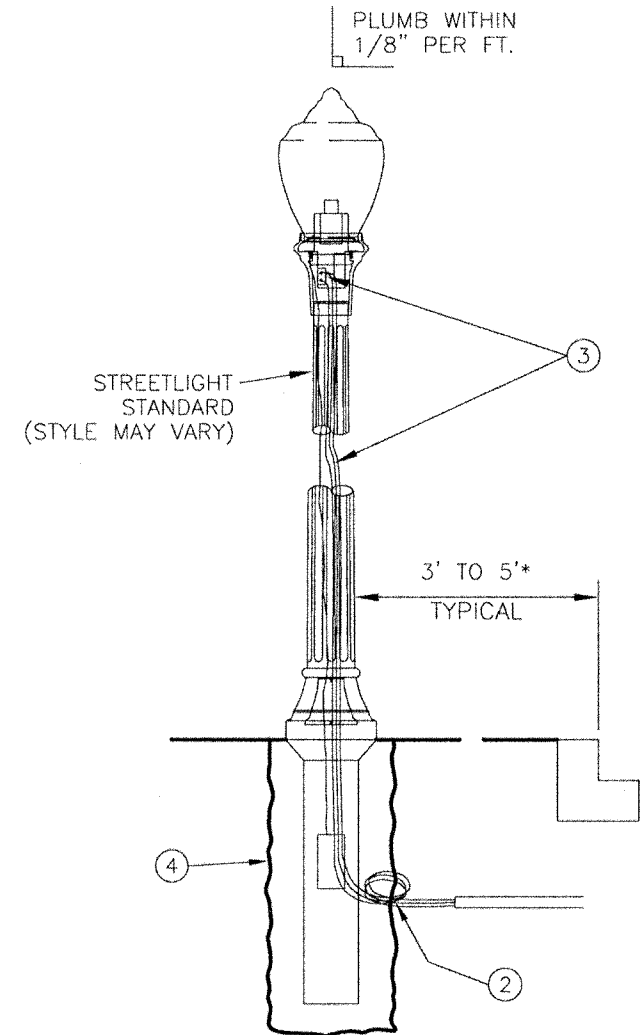
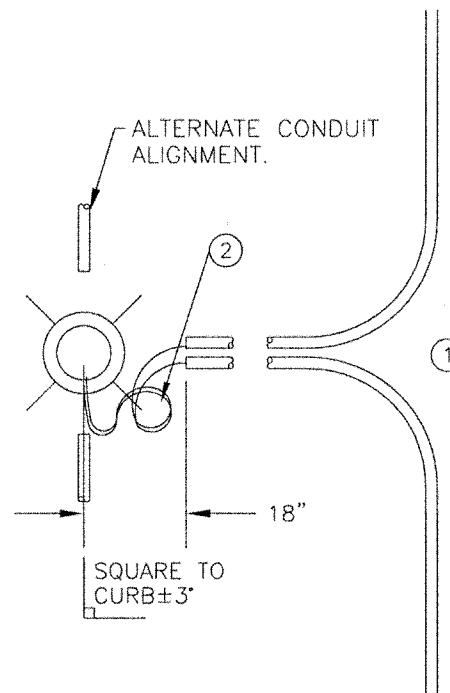
DATE 2/4/03

STREETLIGHT
FOUNDATION
30' & 40'

STANDARD PLAN NO. SL-02

NOTES:

- ① INTERCEPT EXISTING CONDUIT, WHERE APPLICABLE, AND ROUTE TOWARD LIGHT STANDARD. TERMINATE CONDUIT(S) APPROXIMATELY 12" FROM BASE OF STANDARD. SEAL END OF CONDUITS WITH TAPE.
- ② COIL THREE FEET OF WIRE AT END OF CONDUIT BEFORE ENTERING BASE OF STANDARD.
- ③ ROUTE WIRE UP TO TERMINAL BLOCK WITHOUT SPLICING.
- ④ MINIMUM AUGER SIZE IS 12". BACKFILL WITH CRUSHED SURFACING TOP COURSE. TAMP IN 6 INCH LIFTS.
- ⑤ SQUARE POLE TO CURB ± 3 DEGREES.



* OR AS DETERMINED BY ENGINEER

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

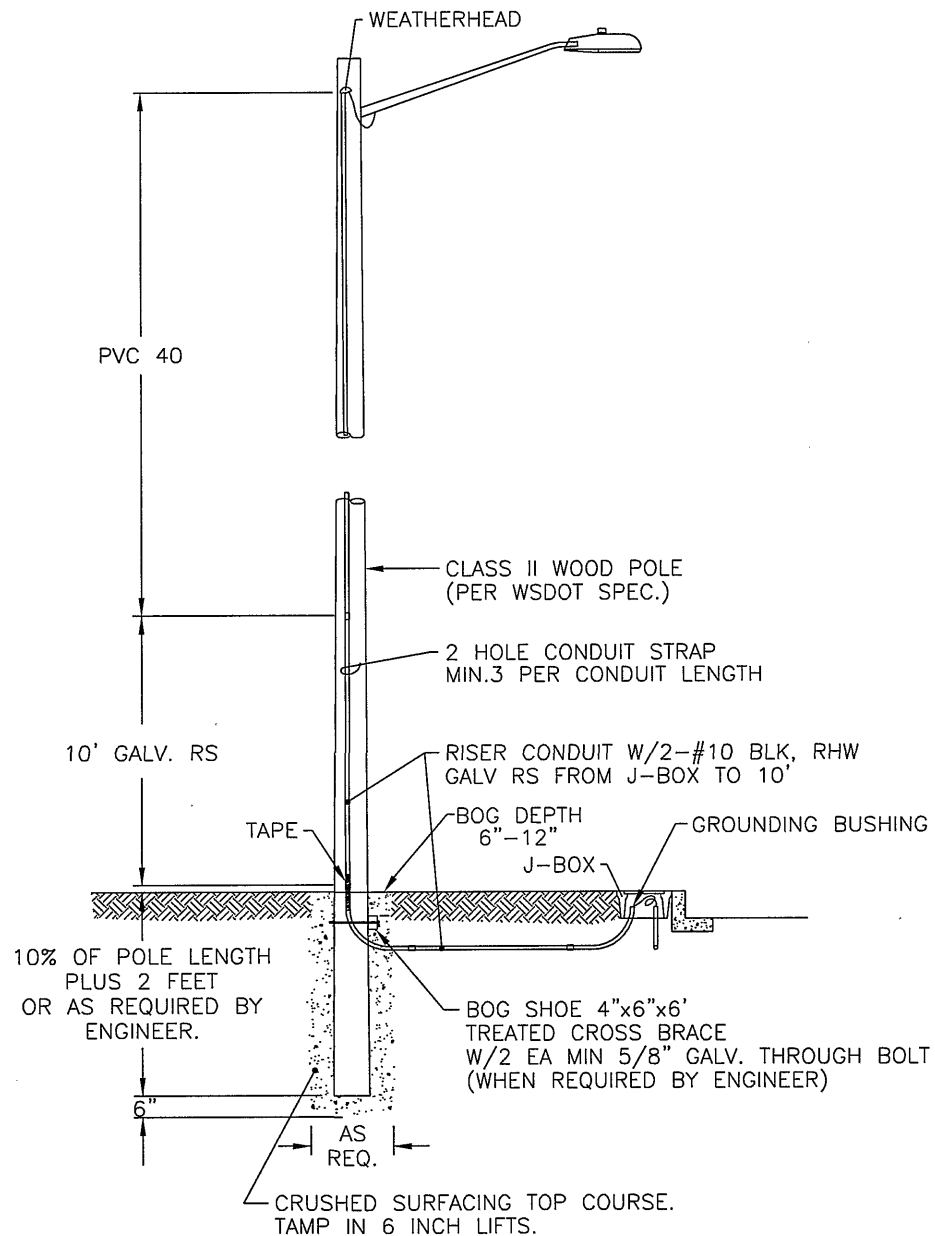
CITY ENGINEER

3/10/03

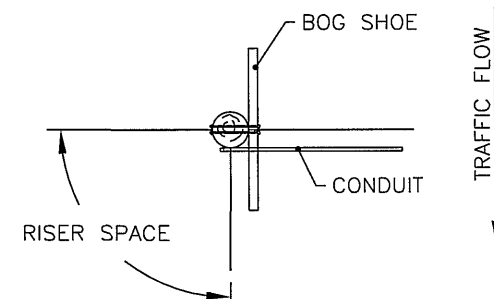
DATE 2/4/03

STREETLIGHT
STANDARD EMBEDDED TYPE
INSTALLATION DETAIL-TYPICAL

STANDARD PLAN NO. SL-03



THIS INSTALLATION IS FOR WOOD POLES
WITH ONLY STREETLIGHTING INSTALLED
ON THE POLE. DO NOT USE ON
TACOMA POWER UTILITY POLES.



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

STREETLIGHT
ON TIMBER POLE TYPICAL
INSTALLATION W/UNDERGROUND FEED

STANDARD PLAN NO. SL-04

STREETLIGHTING TAP
FOR USE IN BASE OF STANDARDS

TAPING INSTRUCTIONS

1. MAKE SPLICE AS SHOWN IN FIGURE A
2. APPLY TAPE AS SHOWN IN FIGURE A
APPLY TAPE AND "SCOTHKOTE" MOISTURE
RESISTANT ELECTRICAL COATING OVER
ENTIRE SPLICE AREA.
3. ATTACH CABLE TIE A MINIMUM OF 2" FROM
THE PRESSURE CONNECTOR AS SHOWN IN FIGURE B.
4. APPLY SECOND COAT OF VARNISH.

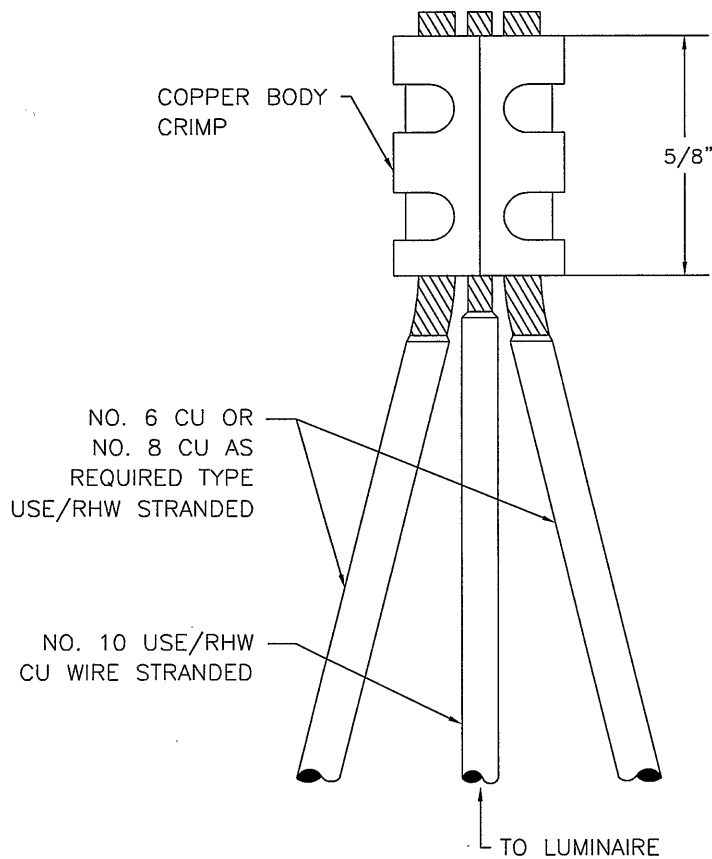


FIGURE A

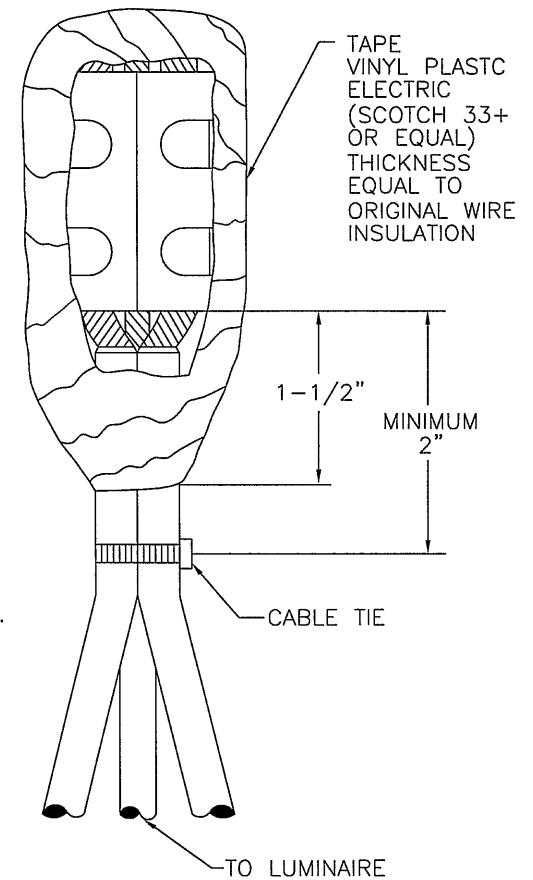


FIGURE B

**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

CITY ENGINEER

2/11/03
DATE 2/4/03

**STREETLIGHT
SPLICE FOR
HANDHOLES**

STANDARD PLAN NO. SL-05

WOOD POLES:

2" NUMBERS

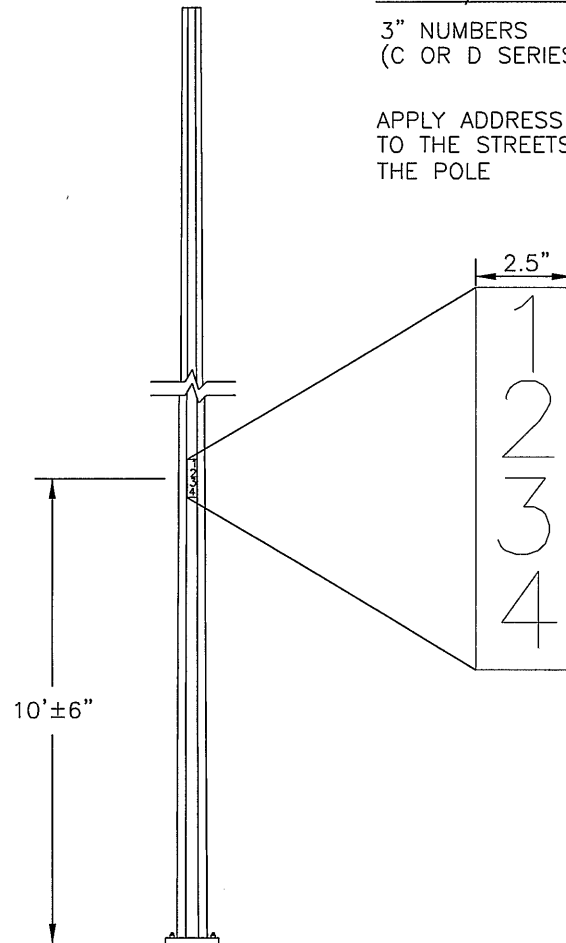
NAIL ON ALUMINUM NUMBERS

METAL/CONCRETE/FIBERGLASS POLES

3" NUMBERS

(C OR D SERIES)

APPLY ADDRESS NUMBERS
TO THE STREETSIDE OF
THE POLE



COLORS:

CONCRETE POLES:

BACKGROUND: LIGHT BEIGE
FOREGROUND: DARK BROWN

UNPAINTED ALUMINUM
OR GALVANIZED POLES:

BACKGROUND: NONE
FOREGROUND: BLACK

IF THERE ARE EXISTING
NUMBERS ON POLE
PAINT OVER OR REMOVE OLD NUMBERS

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

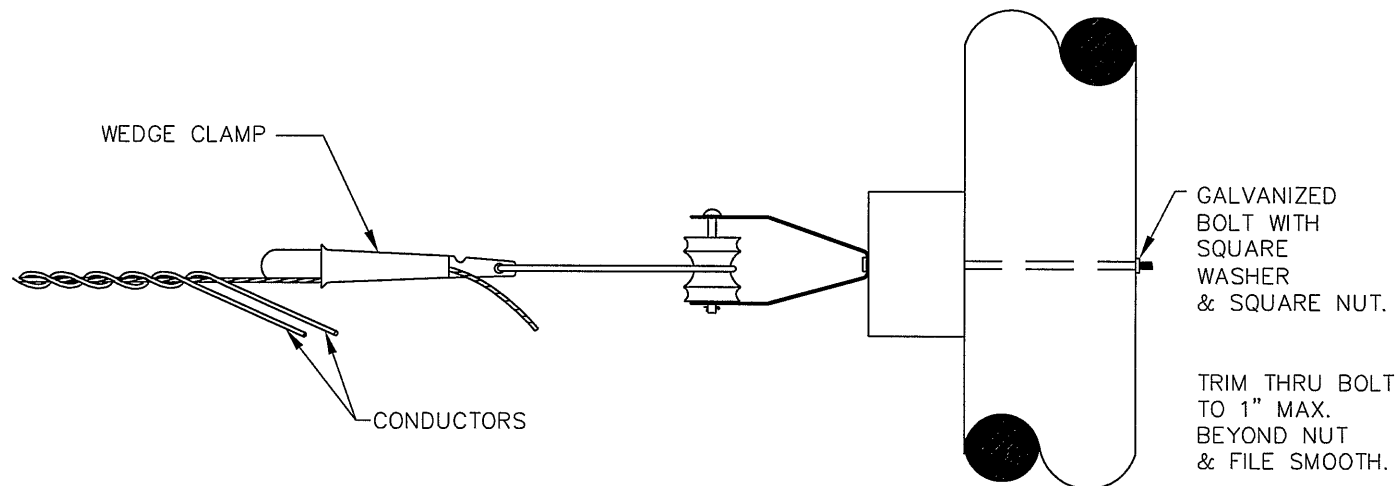
APPROVED FOR PUBLICATION

CITY ENGINEER

DATE 2/4/03

STREETLIGHT
POLE ADDRESSES
TYPICAL DETAIL

STANDARD PLAN NO. SL-06



MAXIMUM TENSION = 100 POUNDS
TYPICAL
MAXIMUM SPAN LENGTHS

TRIPLEX SIZE SAG	1/0	#2	#4	#6
2.5 FEET	65	85	105	125
5 FEET	95	120	150	180
7.5 FEET	115	150	180	220

WOOD POLE

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

CITY ENGINEER

2/11/03
DATE 2/4/03

STREETLIGHT
OVERHEAD TRIPLEX SPANS
TYPICAL INSTALLATION
STANDARD PLAN NO. SL-07

50 AMP OR AS SPECIFIED
BACK-FED MAIN BREAKER

RETAINING CLIP

BRANCH CIRCUITS
QTY MAY VARY

MINIMUM
10,000AIC

WHEN SERVING FROM
TRANSFORMERS LARGER
THAN 50 KVA AN EVALUATION
OF INTERRUPT CAPACITY OF
THE SERVICE EQUIPMENT IS
REQUIRED.

PANEL LAYOUT
N.T.S.

SIZE OF BRANCH CIRCUIT CONDUCTOR	MAXIMUM BREAKER SIZE *
#8 AWG COPPER	30AMP
#6 AWG COPPER	40AMP

* SIZE BASED ON ENSURING BREAKER WILL TRIP
ON FAULTS AT END OF LONG CIRCUITS.

PROCEDURE:

1. OBTAIN ELECTRICAL PERMIT FROM TACOMA POWER FOR EACH ELECTRICAL SERVICE.
2. COMPLETE SERVICE PANEL INSTALLATION EXCEPT FOR ENTERING TRANSFORMER VAULT OR PAD. FOR SSB INSTALLATIONS, INSTALL CONDUIT AND WIRE INTO SSB.
3. PREFERRED PRACTICE IS TO OBTAIN SERVICE FROM SSB. CONTACT TACOMA POWER BEFORE SERVICING STREETLIGHTS FROM TRANSFORMER.
4. ARRANGE FOR ELECTRICAL INSPECTION AND CUT-IN BY TACOMA POWER (502-8277).
5. AFTER TACOMA POWER ACCEPTANCE OF SERVICE PANEL CONTACT THE UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) OFFICE (502-8232) TO ARRANGE FOR CONDUIT AND CONDUCTOR ENTERANCE INTO TRANSFORMERS.

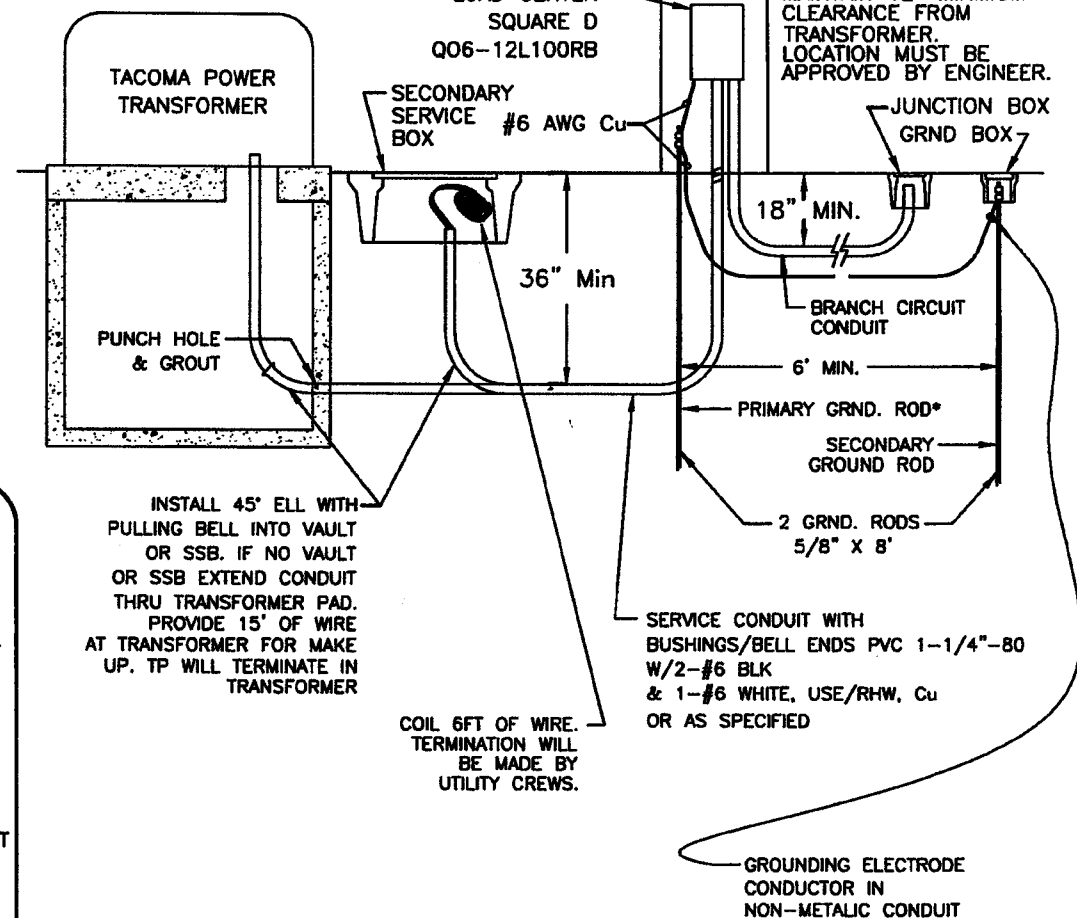
*6. PRIMARY GROUND ROD MAY BE LOCATED OUTSIDE OF SERVICE ENCLOSURE IN GROUND ROD BOX.

**7. DO NOT PENETRATE OUTER WALL OF ENCLOSURE WHEN MOUNTING EQUIPMENT HARDWARE.

SERVICE ENCLOSURE STYLE VARIES

**LOAD CENTER
SQUARE D
QO6-12L100RB

SERVICE PEDESTAL SHALL
MAINTAIN 12" MINIMUM
CLEARANCE FROM
TRANSFORMER.
LOCATION MUST BE
APPROVED BY ENGINEER.



APPROVED FOR PUBLICATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

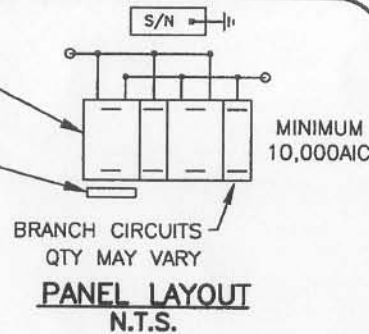
CITY ENGINEER

DATE

STREETLIGHT
SERVICE DETAIL
UNDERGROUND TYPE A
STANDARD PLAN NO. SL-08

50 AMP OR AS SPECIFIED
BACK-FED MAIN BREAKER

RETAINING CLIP



WHEN SERVING FROM
TRANSFORMERS LARGER
THAN 50 KVA AN EVALUATION
OF INTERRUPT CAPACITY OF
THE SERVICE EQUIPMENT IS
REQUIRED.

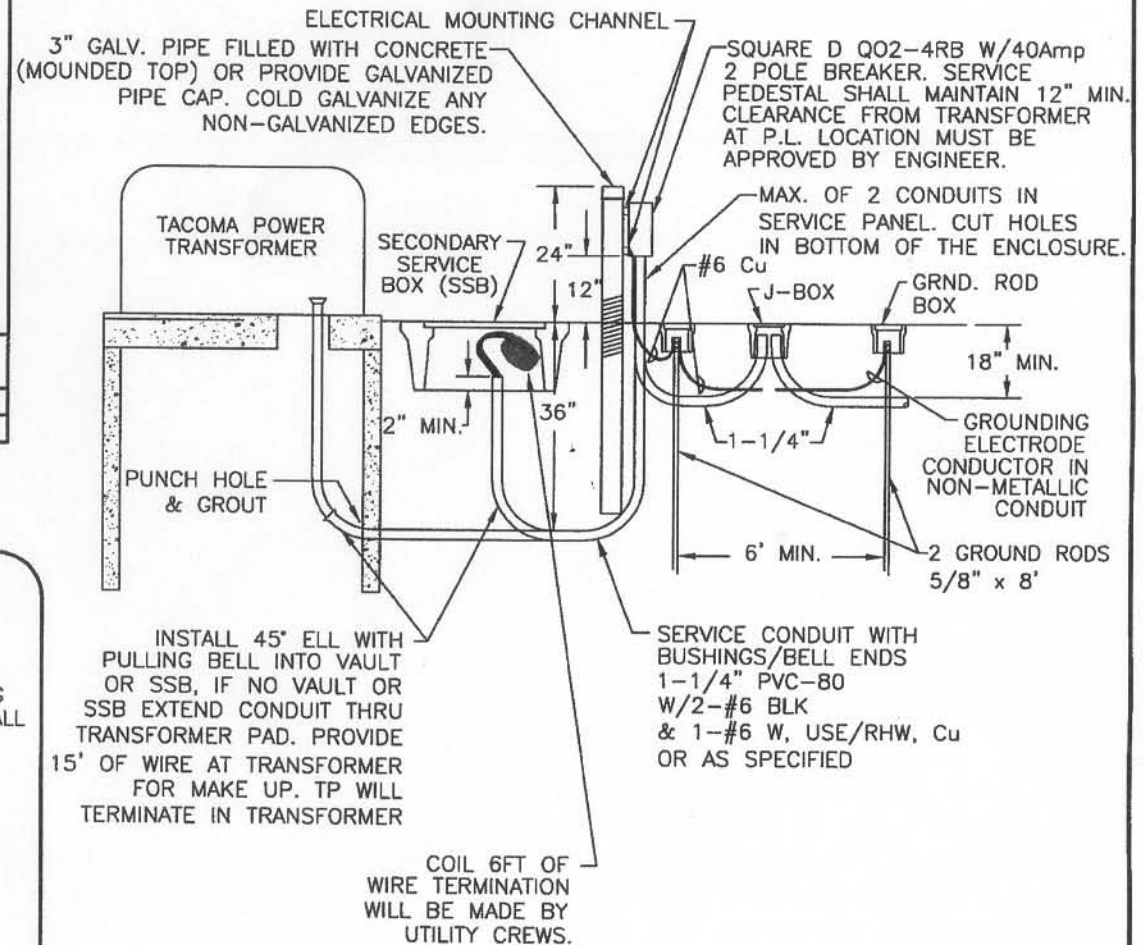
SIZE OF BRANCH CIRCUIT CONDUCTOR	MAXIMUM BREAKER SIZE *
#8 AWG COPPER	30AMP
#6 AWG COPPER	40AMP

* SIZE BASED ON ENSURING BREAKER WILL TRIP
ON FAULTS AT END OF LONG CIRCUITS.

PROCEDURE:

1. OBTAIN ELECTRICAL PERMIT FROM TACOMA POWER FOR EACH ELECTRICAL SERVICE.
2. COMPLETE SERVICE PANEL INSTALLATION EXCEPT FOR ENTERING TRANSFORMER VAULT OR PAD. FOR SSB INSTALLATIONS, INSTALL CONDUIT AND WIRE INTO SSB.
3. PREFERRED PRACTICE IS TO OBTAIN SERVICE FROM SSB. CONTACT TACOMA POWER BEFORE SERVICING STREETLIGHTS FROM TRANSFORMER.
4. ARRANGE FOR ELECTRICAL INSPECTION AND CUT-IN BY TP (502-8277).
5. AFTER TP ACCEPTANCE OF SERVICE PANEL CONTACT THE UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) OFFICE (502-8232) TO ARRANGE FOR CONDUIT AND CONDUCTOR ENTRANCE INTO TRANSFORMERS.

**6. DO NOT PENETRATE OUTER WALL OF ENCLOSURE
WHEN MOUNTING EQUIPMENT HARDWARE.



APPROVED FOR PUBLICATION

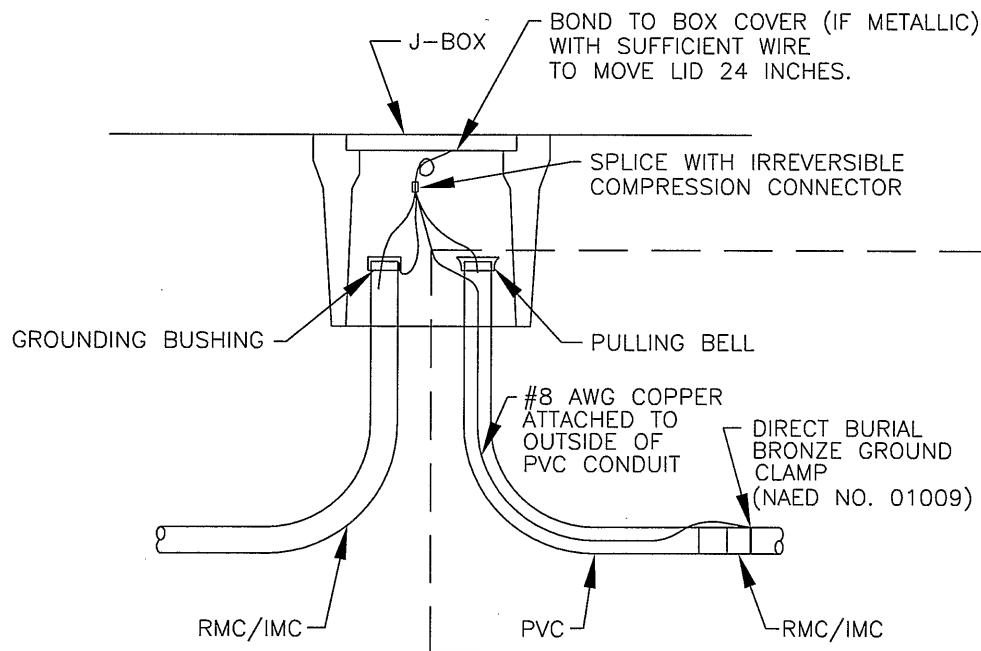
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER

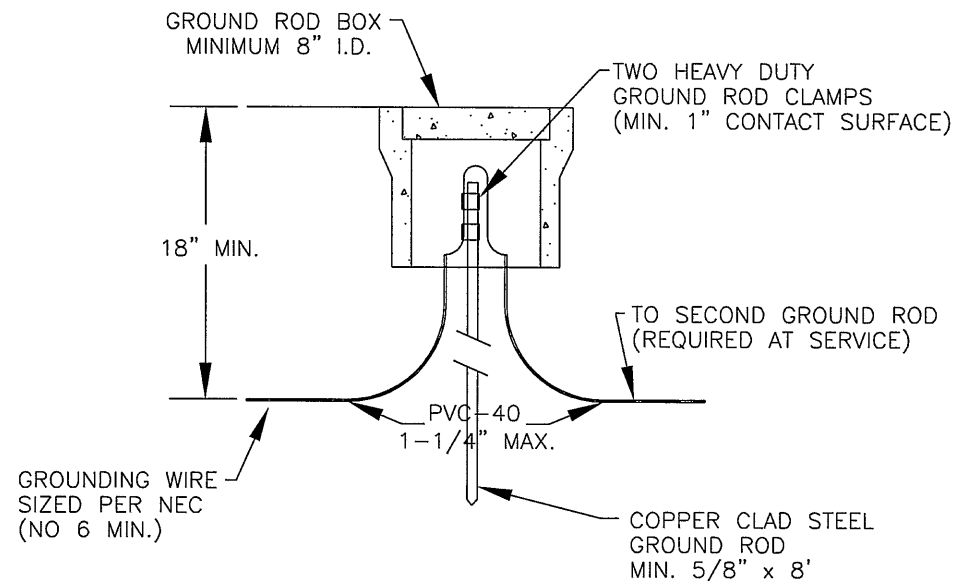
5/31/07
DATE

STREETLIGHT
SERVICE DETAIL
UNDERGROUND TYPE B

STANDARD PLAN NO. SL-09



CONDUIT GROUNDING



GROUND ROD INSTALLATION

NOTES:

1. ALL STREETLIGHT CONDUITS SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR.
2. METALLIC CONDUIT SHALL BE BONDED AT BOTH ENDS TO THE EQUIPMENT GROUNDING CONDUCTOR.
3. EQUIPMENT GROUNDING CONDUCTORS SHALL BE STRANDED INSULATED COPPER.

**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

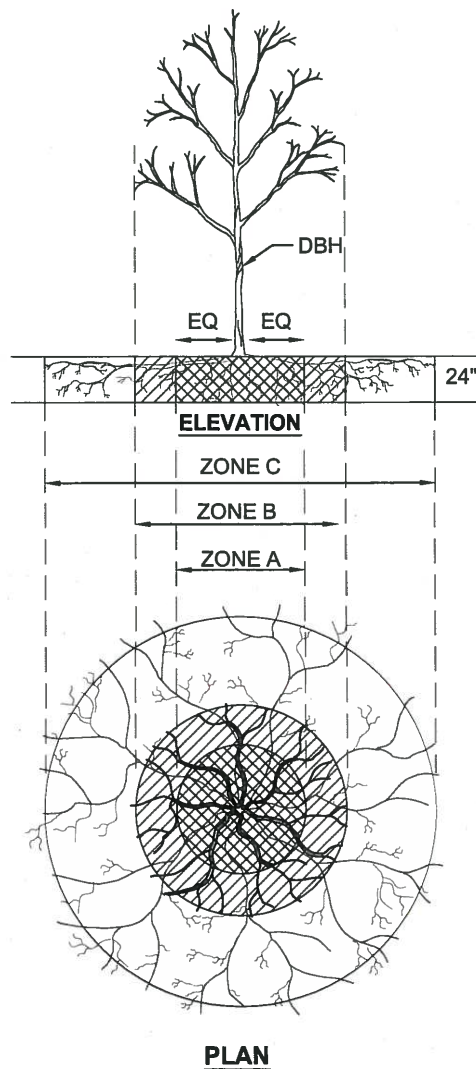
CITY ENGINEER

2/4/03
DATE 2/4/03

STREETLIGHT

GROUNDING DETAIL

STANDARD PLAN NO. SL-10



ZONE A (CRITICAL ROOT ZONE)

The Critical Root Zone is the area under a tree measuring 1 foot of radius per 1 inch of diameter at breast height (DBH) from the trunk outwards and 24 inches in depth. For example: for a 10 inch dbh tree, the Critical Root Zone is located at least 10 feet out from the trunk and 24 inches deep.

RESTRICTIONS

1. No disturbance allowed without site-specific inspection and approval of methods to minimize root damage.
2. If roots larger than 2" IN DIA. are encountered, inspection and approval is required before proceeding trenching/excavation work.
3. Tunneling is required to install lines 3'-0" below grade or deeper.

ZONE C (FEEDER ROOT ZONE)

The Feeder Root Zone is the area under a tree measuring 2 feet of radius per 1 inch of DBH from the trunk outwards and 24 inches in depth. For example: for a ten inch diameter tree, The Critical Root Zone is located at least 20 feet out from the trunk and 24 inches deep.

RESTRICTIONS

1. Operation of heavy equipment and/or stockpiling of materials subject to approval. *Surface protection measures required
2. Trenching permitted as follows:
 - excavation by hand or WITH hand-driven trencher maybe required
 - Minimize trench width to the extent possible
 - Maintain 2/3 or more of ZONE C in an undisturbed condition

ZONE B (DRIP LINE)

The Drip Line is the area below the tree in which the boundary is designated by the edge of the tree's crown.

RESTRICTIONS

1. Operation of heavy equipment and/or stockpiling of materials subject to approval. *Surface protection measures required
2. Trenching permitted as follows:
 - Excavation by hand or with a hand-driven trencher may be required
 - Minimize trench width to the extent possible
 - No disturbance permitted within ZONE A
 - Maintain 2/3 or more of zone b in an undisturbed condition
3. Tunneling may be required for trenches deeper than 3'-0"

***SURFACE PROTECTION MEASURES**

1. Wood chip mulch layer, 6"-12" depth; or
2. 4" wood chip mulch layer under 3/4" plywood; or
3. 4" gravel over staked geotextile fabric
4. 4" wood chip mulch layer under steel plates;
5. 4" wood chip mulch layer under logging road mats

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

[Signature]
CITY ENGINEER

7/14/16
DATE

TREE PROTECTION
DURING CONSTRUCTION

STANDARD PLAN NO. LS-08

TREE PROTECTION ZONE (TPZ)

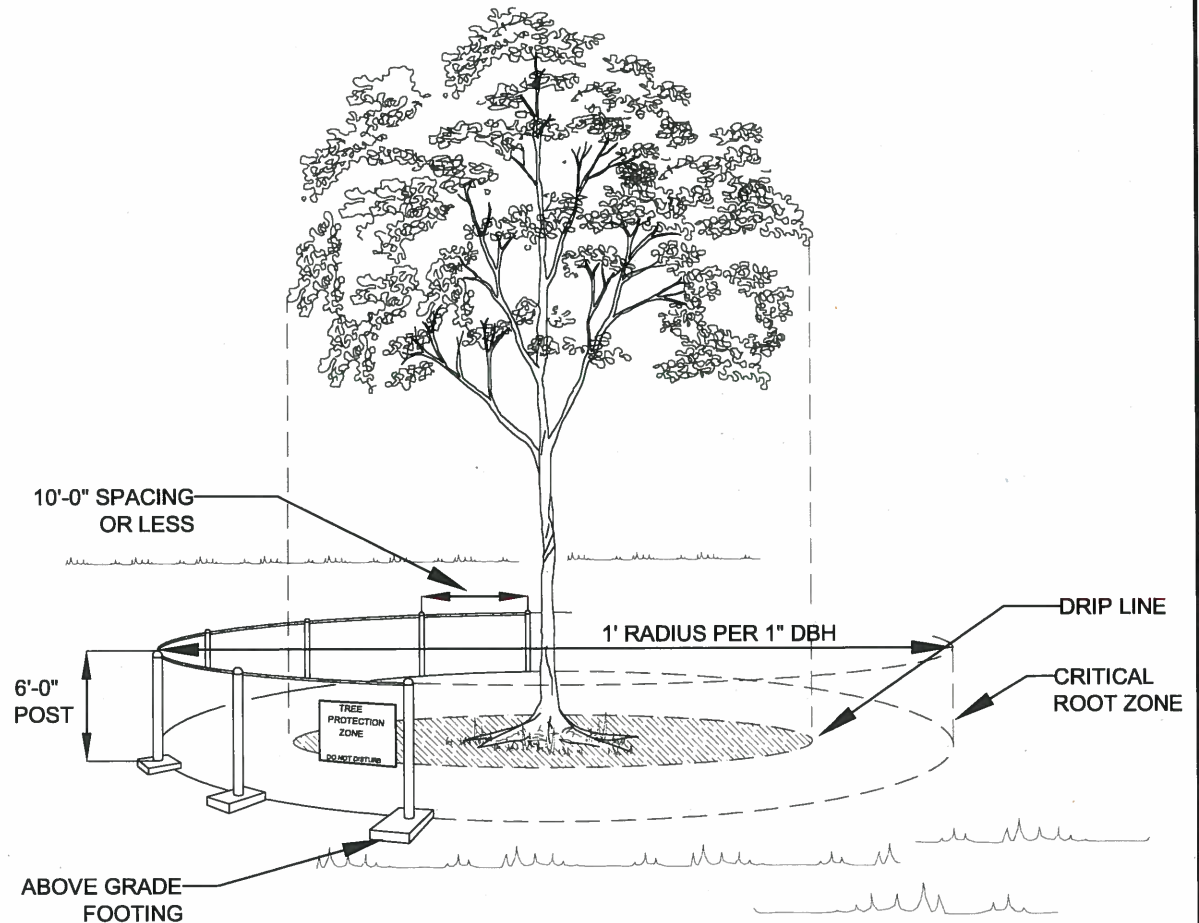
The Tree Protection Zone is an arborist defined area surrounding the trunk intended to protect the roots and soil to ensure future tree health and safety.

The location of the Tree Protection Zone is at the edge of the Critical Root Zone OR Drip Line, whichever is greater, or area as defined by the projects arborist.

For Critical Root Zone and Drip Line measurements see **TREE PROTECTION DURING CONSTRUCTION STANDARD PLAN NO. LS-08**.

TREE PROTECTION FENCING

1. Erect readily visible six-foot (6'-0") high chain link fencing at the edge of the Tree Protection Zone, and at the boundary of any open space tracts or conservation easements that abut the construction site except where, due to space restrictions, a specific distance is specified by the project's arborist.
2. Fencing shall be secured 6 foot metal posts with movable footings located above ground. metal posts shall not be more than 10 feet apart.
3. Fencing shall be flush with the initial undisturbed grade.
4. Signs shall be attached to the fencing stating that the tree is designated for protection and the area inside the fencing is a TPZ, which is not to be disturbed unless prior approval has been obtained from the city and/or the project's arborist.
5. Maintain the fencing in place until the city authorizes removal or a final certificate of occupancy is issued, whichever occurs first.
6. Ensure that any landscaping done in the TPZ, subsequent to the removal of the fencing, shall be accomplished with light machinery or hand labor.
7. No construction activity shall occur within the TPZ, including but not limited to:
 - Dumping or storage of materials such as building supplies, soil, waste items, and
 - storage of vehicles or equipment



**CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS**

APPROVED FOR PUBLICATION

[Signature]
CITY ENGINEER

7/4/15
DATE

**TREE PROTECTION
DURING CONSTRUCTION**

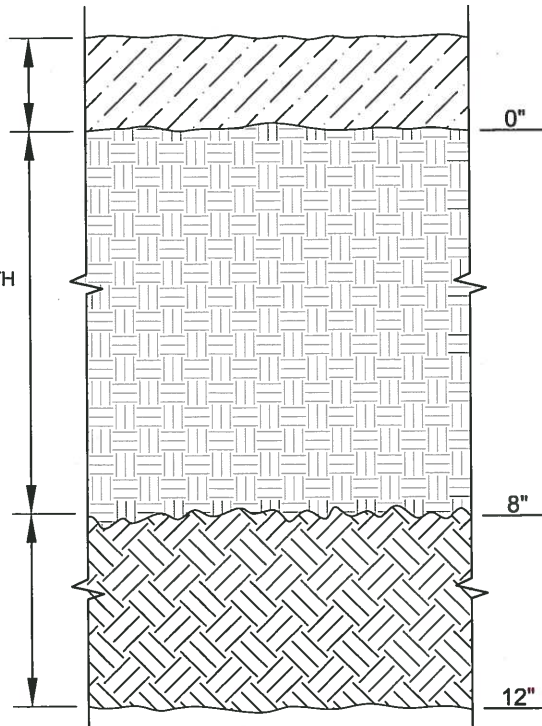
STANDARD PLAN NO. LS-09

PLANTING BEDS

3"-4" (SETTLED)
ARBORIST WOOD CHIP
MULCH

3 INCHES OF COMPOST
INCORPORATED INTO 5
INCHES OF SITE SOIL
(TOTAL AMENDED DEPTH
OF 9.5 INCHES, FOR A
SETTLED DEPTH OF 8
INCHES)

SUBSOIL SCARIFIED 4"
BELOW COMPOST
AMENDED LAYER (12"
BELOW SOIL
SURFACE), AS
DETERMINED BY THE
ENGINEER

**TURF (LAWN) AREAS**

GRASS SEED OR SOD

1.75 INCHES OF
COMPOST
INCORPORATED INTO
6.25 INCHES OF SITE
SOIL (TOTAL AMENDED
DEPTH OF 9.5 INCHES,
FOR A SETTLED DEPTH
OF 8 INCHES)

SUBSOIL SCARIFIED 4"
BELOW COMPOST
AMENDED LAYER (12"
BELOW SOIL
SURFACE), AS
DETERMINED BY THE
ENGINEER

0"

8"

12"

NOTES:

All soil areas disturbed or compacted during construction, and not covered by buildings or pavement, shall be amended with compost as described below.

1. Subsoil should be scarified (loosened) 4 inches below amended layer, to produce 12-inch depth of un-compacted soil, except where scarification would damage tree roots or as determined by the engineer.
2. Compost shall be tilled in to 8 inch depth into existing soil, or place 8 inches of compost-amended soil, per soil specification.
3. Turf areas shall receive 1.75 inches of compost tilled in to 8-inch depth, or may substitute 8" of imported soil containing 20-25% compost by volume. Then plant grass seed or sod per specification.
4. Planting beds shall receive 3 inches of compost tilled in to 8-inch depth, or may substitute 8" of imported soil containing 35-40% compost by volume. Mulch after planting, with 2-4 inches of arborist wood chip mulch or approved equal.
5. SETBACKS: To prevent uneven settling, do not compost-amend soils within 3 feet of utility infrastructures (poles, vaults, meters etc.). within one foot of pavement edge, curbs and sidewalks soil should be compacted to approximately 90% proctor to ensure a firm surface.

APPROVED FOR PUBLICATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER

DATE

SOIL AMENDMENT AND DEPTH

STANDARD PLAN NO.

LS-12

APPENDIX B

TRAFFIC CONTROL HANDBOOK

TRAFFIC CONTROL HANDBOOK

**MUST MAINTAIN
PEDESTRIAN AND
DISABILITY ACCESS AT
ALL TIMES**



TABLE OF CONTENTS

INTRODUCTION (READ FIRST)

Traffic Control Handbook instructions
Permits / General Rules
Special Traffic Requirements

SAMPLE SETUP DRAWINGS

Non-Arterial Road Closures
Single Lane Non-Arterial with A Flagger
CBD Right Lane Closure
Shoulder Work with Minor Encroachment
Two Lane Road with Center Closure
Two-Way Lane Shift with Parking
Right Lane Closure
Right Lane Closure at Intersection
Left Lane Closure At Intersection
One Way Street Multi-Lane Closure
Four Lane Road – Two Lane Closure
Five Lane Road Multi-Lane Closure
Traffic Control for Lane Shifting - 5 Lane
Roundabout Traffic Control with Flaggers

SHORT DURATION WORK – UNDER 60 MINS

Lane Closure at Intersection
Mid-Block Lane Closure
Center Lane Closure at Intersection
Inside Lane Closure at Intersection

PEDESTRIANS & MISCELLANEOUS

Traffic Control Recommendations for Truck Crossings
Traffic Control for Portable Dumpsters
Traffic Control for Moving Van
Bypass Walkway for Pedestrians
Bypass Ramps for Pedestrians
Curb Ramp Pedestrian Control
Sidewalk Closures
Sidewalk Closure with Parking Closure

SURVEY CREWS

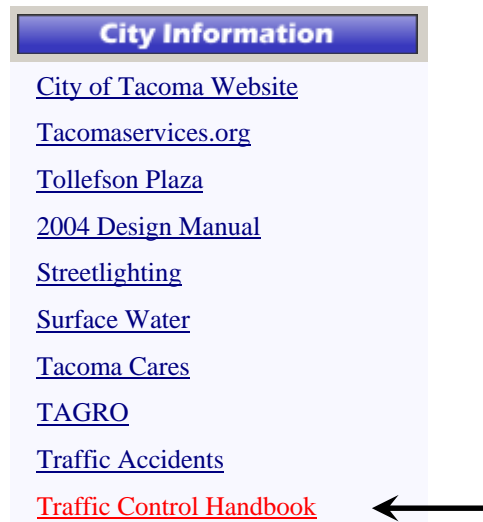
Survey Two Lane Arterial Intersection
Survey Two Lane Arterial Mid Block
Survey Multi-Lane Arterial

CREATE YOUR OWN PLAN

Blank Two Lane Road
Blank Two Lane Road with Center Turn Lane
Blank Two Lane Road with Two Intersections
Blank Two Lane Road with Two Intersections and Parking
Blank Two Lane Road with Four Intersections and Parking
Blank Four Lane Road with Two Intersections
Blank Four Lane Road with Two Intersections and Parking
Blank Five Lane Road

TRAFFIC CONTROL PLAN INSTRUCTIONS

- 1) To create a traffic control plan, go to www.govME.com
- 2) At the bottom of the page, under “City Information” choose “[Traffic Control Handbook](#)”



The City of Tacoma Traffic Control Handbook will open up in a new screen.

- 3) Read “**INTRODUCTION & SPECIAL REQUIREMENTS**” Chapter. Pay particular attention to the sections regarding [*Pedestrian and Disability access.*](#)
- 4) Choose a plan closest to the type of traffic control you need.
 - You may need to alter an existing plan or use multiple plans
- 5) Print out the traffic control plan that you need.
- 6) On the map, identify street names and addresses of work.
- 7) Draw site specific details (work area, location of signs, cones, etc.).
- 8) Add Contractor name and contact information.
- 9) Specify type of work at the top of the page
- 10) List dates of work and desired work hours.
- 11) Contact a Permit Specialist when you are done filling in your Traffic Control Plan.
- 12) Write the permit number in the top right corner of the sheet (when obtained from the Permit Specialist).
- 13) The Traffic Control Plan is not valid until permit is acquired and paid for.
- 14) You must keep a copy of the Traffic Control Plan on your job site for Inspectors and Road Use Compliance Officers to review. Prime contractors will be responsible for any subcontractor's traffic control unless sub goes through the above process.



City of Tacoma Public Works Department

INTRODUCTION

This manual is intended for use by any person, firm or corporation, public or private, when involved in construction, maintenance or any activity that alters the normal flow of traffic, vehicular or pedestrian, on any City right-of-way.

This manual shall be used in conjunction with Part VI of The Manual on Uniform Traffic Control Devices (MUTCD) for the installation of temporary traffic control and the Access Board's Guidelines for Accessible Public Rights -of-Way (2002), (www.access-board.gov/),

Authority to establish local rules regarding channelization and traffic control is permitted by Washington Administrative Code (WAC) 308.330.265.

Unless specifically addressed in this manual, when the term "should" is used in the MUTCD to describe a condition or method for traffic control, it means that if that suggestion is not used an equally effective method will be used. It does not eliminate the responsibility to address the situation.

This manual does not prohibit the use of additional traffic control or warning devices as long as the minimum conditions are met.

For additional information, please call the Engineering Division at (253) 591-5500.

PERMITS

A permit must first be obtained from the Public Works Department by any person, firm or corporation working in City right-of-way that alters the normal flow of traffic or makes any public place dangerous.

Provisions for obtaining a permit are outlined in Tacoma Municipal Code Chapter 10.22.

All applications for permits must have a comprehensive traffic control plan attached for review by the Traffic Engineer. Permits will not be issued unless the Traffic Engineer has approved the traffic control plan.

MUNICIPAL AGENCIES

Municipal agencies and Utilities are not required to obtain a permit for routine maintenance and repairs, but must notify the Traffic Engineer a minimum of 72 hours in advance if the following conditions apply:

1. Closing any street (see attached street closure requirements).
2. Altering or detouring traffic during commute hours on arterial streets (7 a.m. – 9 a.m. and 4 p.m. – 6 p.m.).
3. The activity or obstruction will be in place for more than 8 hours.
4. The activity or obstruction is during the hours of darkness.
5. The activity reduces traffic on arterial streets to less than one lane in each direction.

GENERAL RULES

The following list of rules must be followed while involved in construction, maintenance or other activity in City right of way unless specifically addressed by the Traffic Engineer.

1. All traffic control devices must meet the requirements established by the Manual on Uniform Traffic Control Devices.
2. No activity will be placed in such a way as to detour, slow or alter traffic flow during peak commute hours. These times are generally from 7 a.m.– 9 a.m. and 3:30 p.m. – 6 p.m. The Traffic Engineer may allow an exception with prior approval.
3. An approved traffic control plan must be on-site and accessible for inspection at all times by law enforcement or inspectors.
4. Traffic control plans and activities must include the following components:
 - a. Advanced Warning Area: Signs and other devices inform drivers of what to expect.
 - b. Transition Area: Channelization devices move traffic from the normal flow to the desired path.
 - c. Activity Area: Area where the work takes place.
 - d. Buffer Space: Area used to separate traffic from the work activity area and provides recovery space for an errant vehicle.
 - e. Termination Area: Area used to return traffic to the normal path.
5. **Pedestrian and disability access** must be maintained throughout the period of time construction is underway. This does not just apply to the final product, but accessibility must be maintained during the actual construction. Safe, clearly marked routes must be maintained through or around the construction activity at all times. The use of temporary walkways with width, slope, and cross-slope compliant to the maximum extent feasible shall be incorporated on the job site. Surfaces must be firm, stable, and slip resistant. Channeling and barricading must be used to separate pedestrians from traffic. Adequate barricading must be addressed to prevent visually impaired pedestrians from entering work zones. Alternate pedestrian circulation routes with appropriate signage that can be accessed by people who use mobility aids (wheelchairs, walkers, scooters, etc.) The alternate circulation path shall have a minimum width of 5 feet and parallel the disrupted pedestrian access route when practicable. Barricades and channelizing devices shall be continuous, stable, non-flexible, and shall consist of a wall, fence, or enclosure specified in section 6F of the MUTCD. A solid toe rail should be attached such that the bottom edge is 6 inches maximum above the walkway surface. The top rail shall be parallel to the toe rail and shall be located 36 inches minimum and 42 inches maximum above the walkway surface. If drums, cones, or tubular markers are used to channelize pedestrians, they shall be located such that there are no gaps between the bases of the devices in order to create a continuous bottom, and the height of each individual device shall be no less than 36 inches.
6. Persons in charge of maintaining or establishing traffic control and channelization must have a certified flagger control card in their possession and must be on the site at all times or be represented by another knowledgeable, certified person.
7. A flagger cannot be used to direct traffic through a signalized intersection against the signal indications. When flaggers are used near signalized intersections, care will be used to clear the intersection of traffic before the signal change.
8. In some situations, Signal modifications may be used to support the traffic control plan. The traffic Signal Shop shall make all modifications, and all modifications must be approved by the Traffic Engineer.
9. A uniformed police officer is required to direct traffic through a signalized intersection against the signal indications.
10. Police officers may also be required during activities for traffic calming if speeds are high, pedestrian or vehicular traffic volume is extremely high, or during emergencies.

11. To minimize the disruption to access to adjacent properties, and to Pierce Transit operations, the lane closure area shall be limited to that area of active work and necessary for appropriate lane closure tapers. The Contractor shall stage work to maintain access to and egress from all properties at all times. An **approved traffic control plan and permit shall** be posted on the job site for review by City officials. Construction Inspectors shall ensure the approved traffic control plan is on site at all times. Any approved Traffic control plans the Contractor doesn't follow are in violation of the Standard Specifications which are included in the contract. It is the inspector's job to have them comply or Stop work. Jobs having permits only and not following the approved Traffic Control plan is a violation of Tacoma Municipal Code 10.22.080. The work can be stopped or a violation infraction can be imposed in an amount not exceeding \$500.00.
12. When parking lanes are closed due to construction, "no parking" portables will be installed at least 48 hours in advance of the closure in unrestricted areas and 24 hours in advance in time restricted areas. The message on the portables shall establish the date and hours for no parking.
13. During emergencies where life, property or public safety is in danger, conditions listed may be changed. Traffic control will be addressed along with the initial response. (See attached page for emergency contact numbers.)
14. The Traffic Engineer may allow reduced speed limits in construction area zones. Request for speed reduction must be included in the traffic control plan.
15. All signs and cones shall be removed from the right-of-way when traffic control is not in effect.
16. The contractor may be required to discontinue work if possible conflict exists with special events such as parades, sporting events, miscellaneous rallies, and large public meetings. Information concerning such events can usually be obtained from the City Clerks Office, tel. (253) 591-5171.
17. Maintenance of 2-way traffic on arterial streets at all times except on one-way streets. Additional width for facilitating traffic flow may be obtained by prohibiting on-street parking adjacent to the work zone.
18. No work shall be scheduled on streets or sidewalks within the City of Tacoma Business Districts from Thanksgiving Day through New Year's Day.
19. All traffic control devices used at night, particularly signs, barricades and channelizing devices, must have Type C steady burn lights. Requests to reduce the number of lights used on channelizing devices must be specifically detailed on the approved traffic control plan.

Failure to comply with the provisions of this manual is a traffic infraction and, notwithstanding any fines or penalties levied against the person, firm or corporation involved, if a safety hazard exists, the work may be ordered stopped and the obstruction cleared by the person, firm or corporation responsible or by the City at that responsible party's expense.

<http://www.cityoftacoma.org/>

<http://wspwit01.ci.tacoma.wa.us/govME/Admin/Inter/StartPage/default.aspx>

http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic_Control_Handbook.pdf

Special Traffic Requirements

The contractor shall notify the following departments three (3) working days prior to any street closure.

Pierce Transit requires five (5) working days prior to any route detours.

Department	Phone	Fax	Email
Traffic Engineering	591-5500	591-5533	
Tacoma Fire Department	591-5733	591-5034	kmueller@cityoftacoma.org
Tacoma Police –Ops	591-5932	594-7842	
LESA	798-4721 Opt #3	798-2708	
Sound Transit Link	206-370-5674		
Pierce Transit	581-8109	589-6364 or 589-6367	
Pierce Transit Events Coordinator	581-8001	984-8161	
Public Works/Street Ops	591-5495	591-5302	
School Trans Office	571-1853	571-1932	
Durham School Services		475-0422	
First Students		272-7799	
UWT Facilities Services		692-5705	
Off-Duty Police Officer	591-5932		TacomaPoliceEvents@cityoftacoma.org
Tacoma Refuse	591-5544	591-5547	

Include the following information when notifying the above departments.

Name of street to be closed & the extent of the closure (between which two roads).

Stipulate whether or not the area is to be open to local traffic & emergency vehicles.

State the date(s) & hour(s) the closure will be in effect.

Give the reason for the closure.

Provide detour information.

State who/which firm is performing the work.

Provide the name and telephone number of a contact person.

Recommended Publications

As a contractor you will have many opportunities for setting up traffic control. To comply with national standards, we recommend having the **MUTCD** (Manual on Uniform Traffic Control Devices) for future reference.

To order hard copies or CD versions of the MUTCD please go to one of the links below:

American Association of State Highway Organizations at: <https://bookstore.transportation.org/>

Institute of Traffic Engineers at: <http://www.ite.org/bookstore/index.asp>

American Traffic Safety Services Association at: <http://www.atssa.com/>

Things to Think About

Before the traffic control plan is drawn visit the site and look for special circumstances that may be unique to the area. For example work being done on the sidewalk may be a hazard if someone walks out a door into your wet cement or a tool may fall on someone's head if someone is in a lift washing windows. Call Pierce Transit if you need to do work at a bus stop. Transit requires five (5) days notice for route detours. Transit will inform citizens and move or temporarily close the stop. Keep in mind that pedestrians need 5' of unobstructed walking area. If roadwork needs to be done on an arterial street, traffic control devices shall be removed during peak hour traffic (7am to 9am and 4pm to 6pm). For further information see our TRAFFIC CONTROL HANDBOOK.

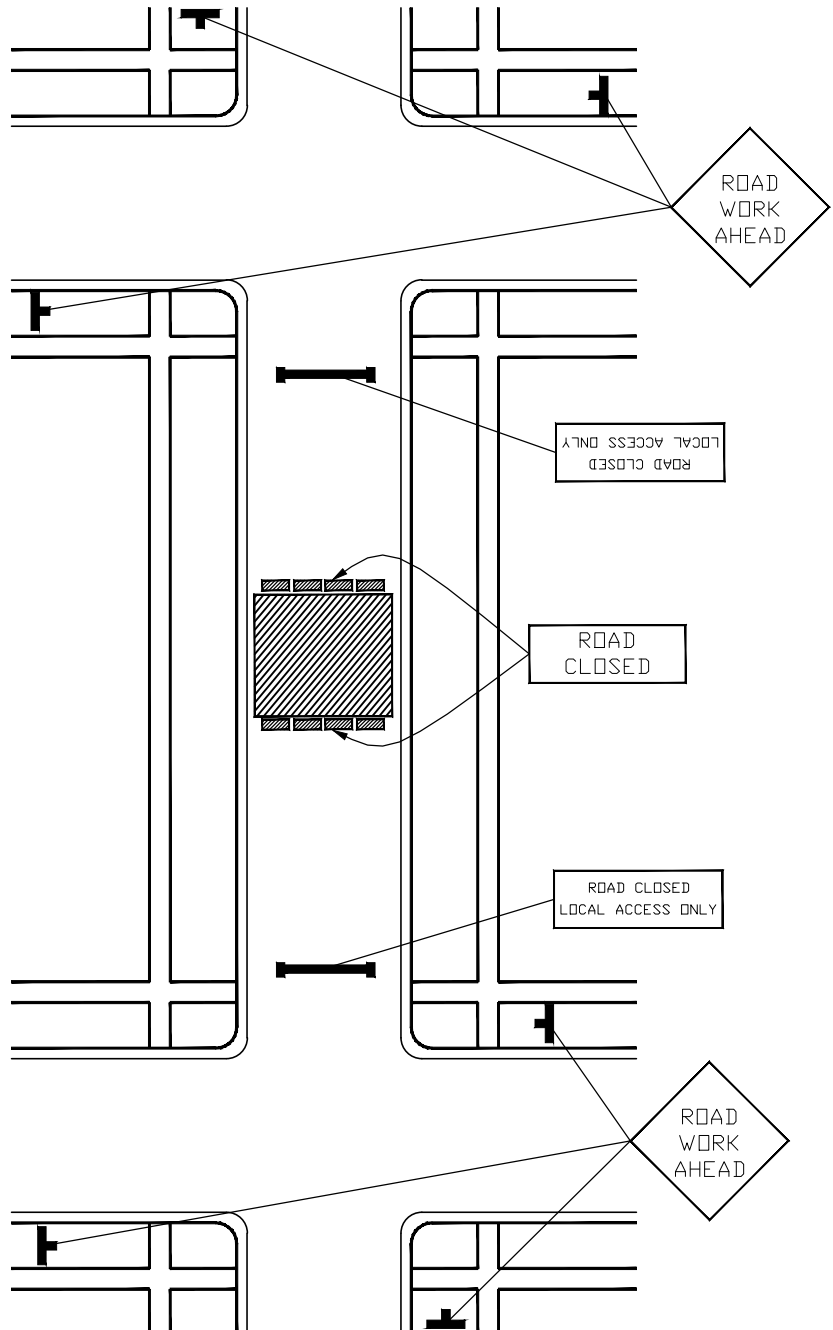
<http://www.cityoftacoma.org/>

<http://wspwit01.ci.tacoma.wa.us/govME/Admin/Inter/StartPage/default.aspx>

http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic_Control_Handbook.pdf

SAMPLE SETUP

Note: At night, signage and barricades must be Type C steady burn lights. A contractor may close a nonarterial street to through traffic, provided that local access is maintained at all times with a minimum of a 20' wide access lane. Road Work Ahead signs may be eliminated on non-arterial streets.



NON-ARTERIAL ROAD CLOSURES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

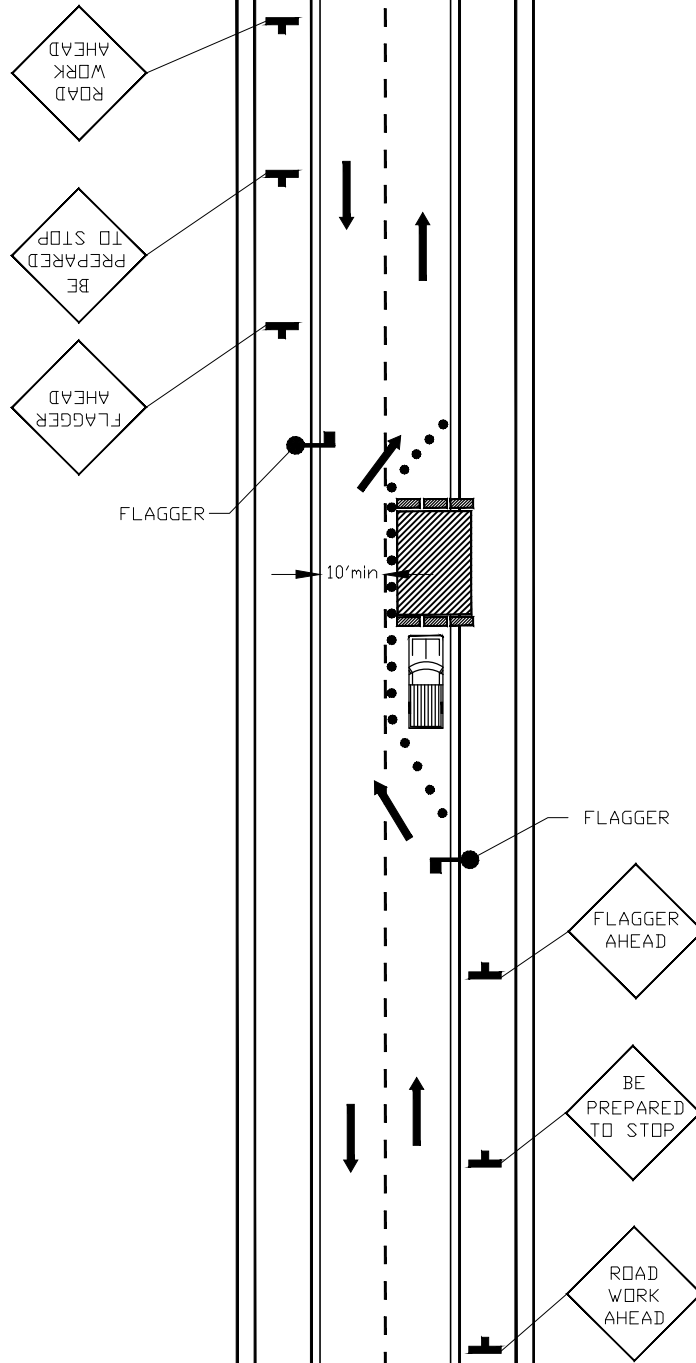
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SINGLE LANE NON-ARTERIAL WITH FLAGGER

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

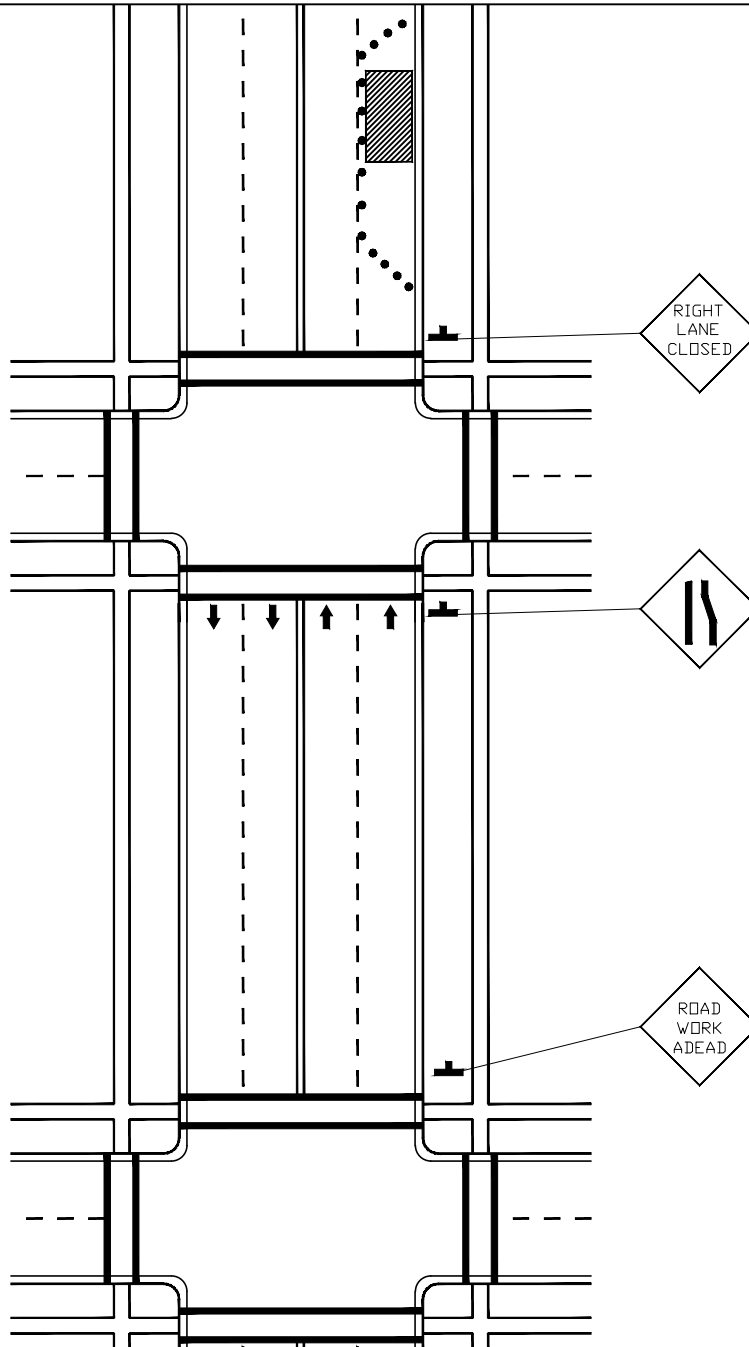
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



CBD
RIGHT LANE
CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

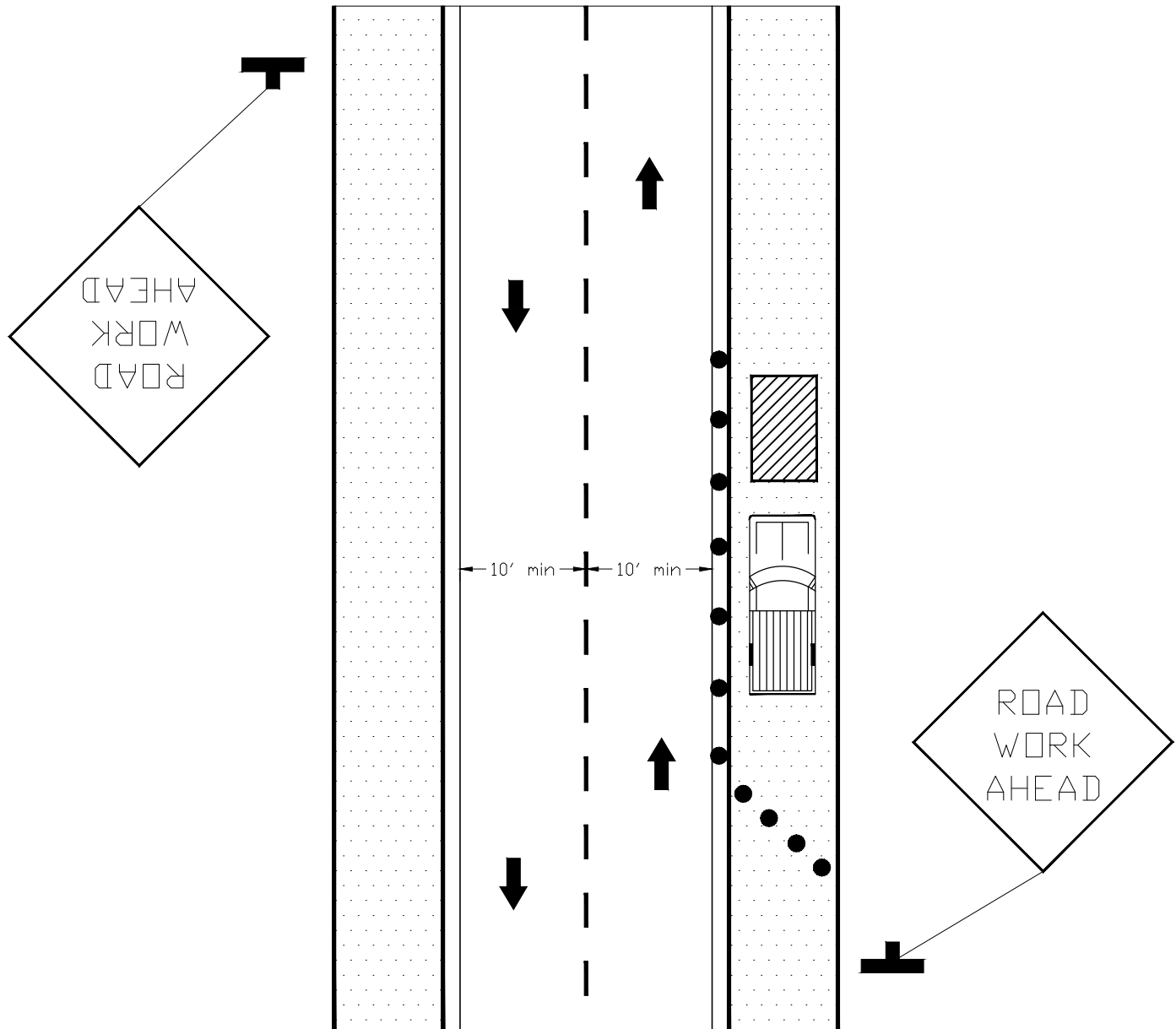
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SHOULDER WORK
WITH MINOR
ENCROACHMENT

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

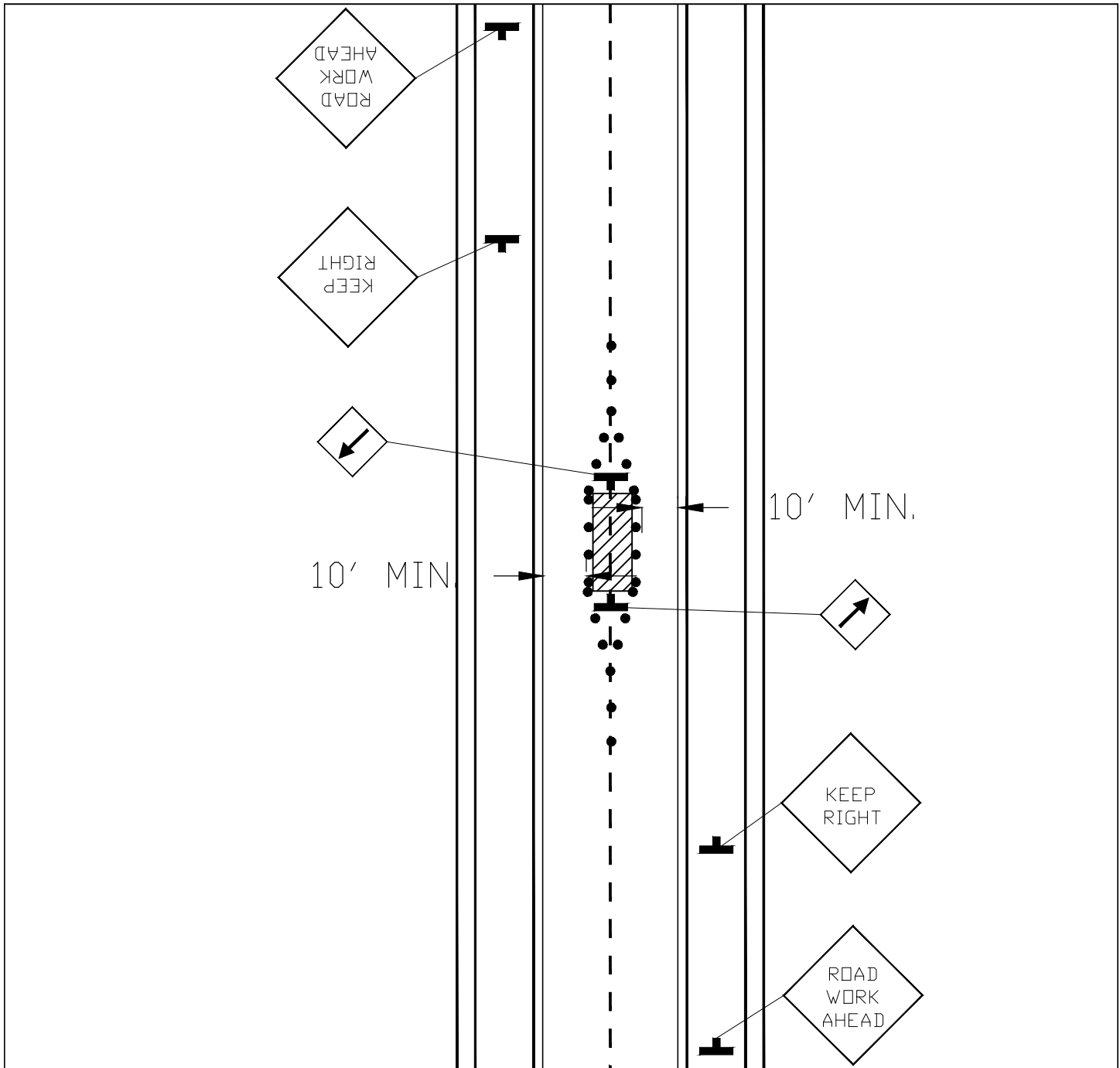
MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)								
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TWO LANE CENTER CLOSURE

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

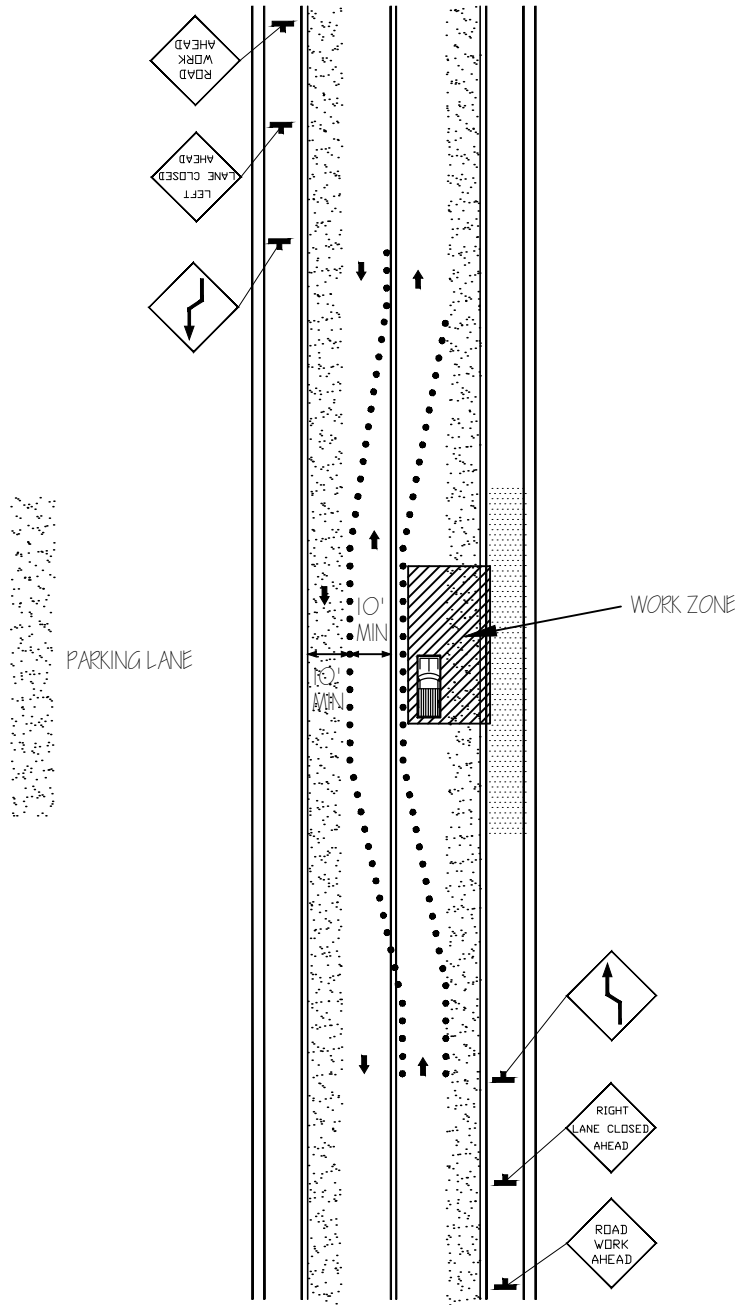
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TWO WAY LANE SHIFT WITH PARKING

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

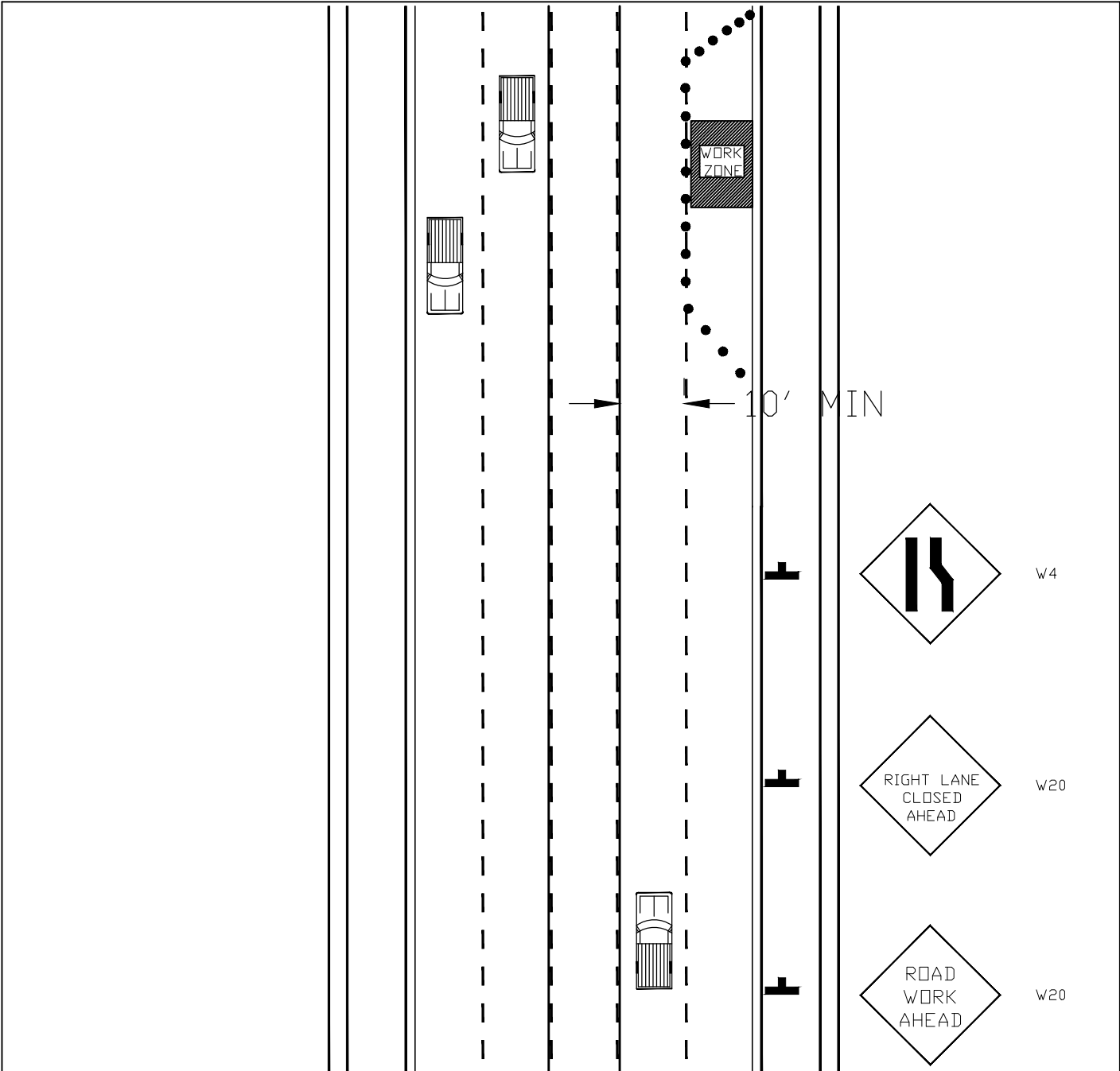
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



RIGHT LANE
CLOSURE

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

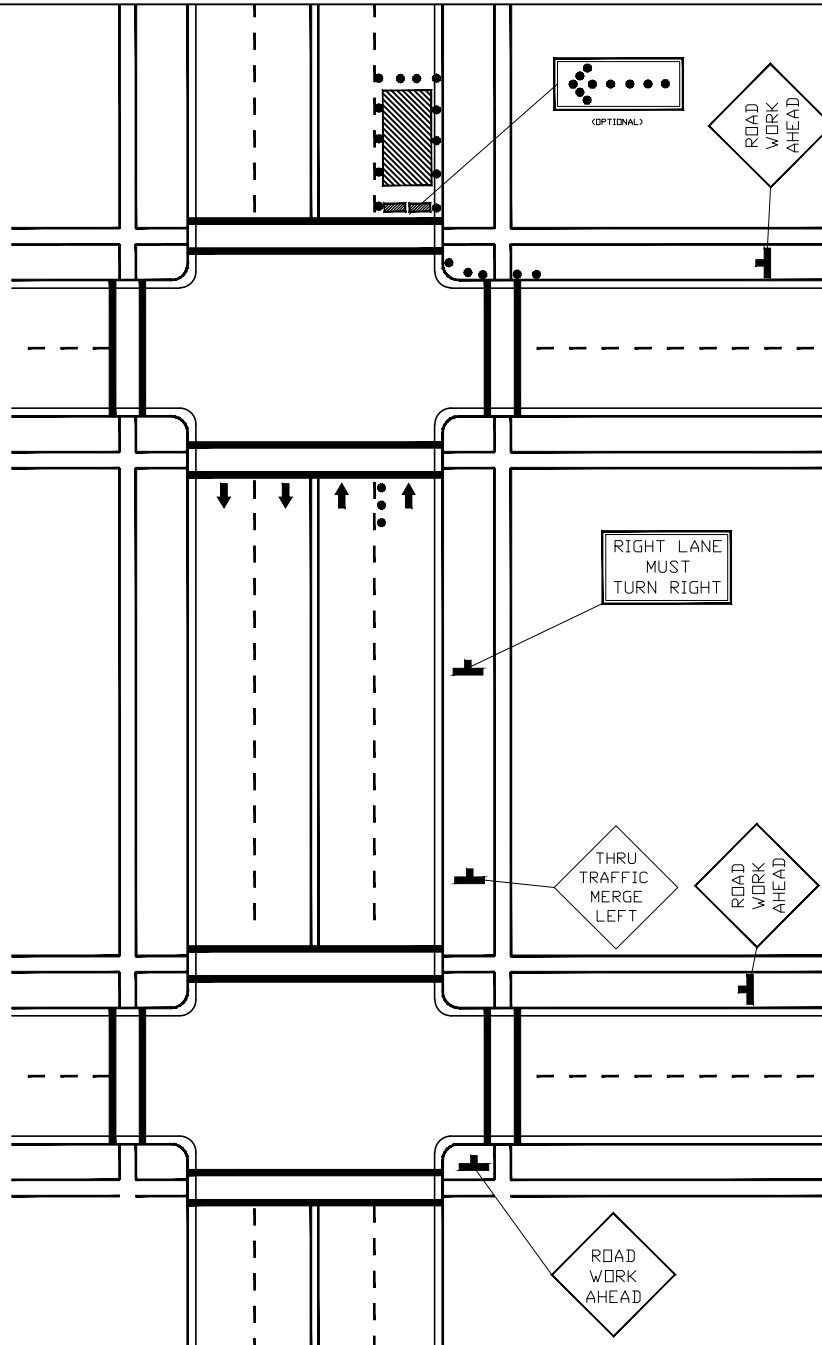
☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS
MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS
EVENING AND WEEKENDS ONLY
START TRAFFIC CONTROL SET UP DATE & TIME: _____
MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.
NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



RIGHT LANE CLOSURE AT INTERSECTION

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

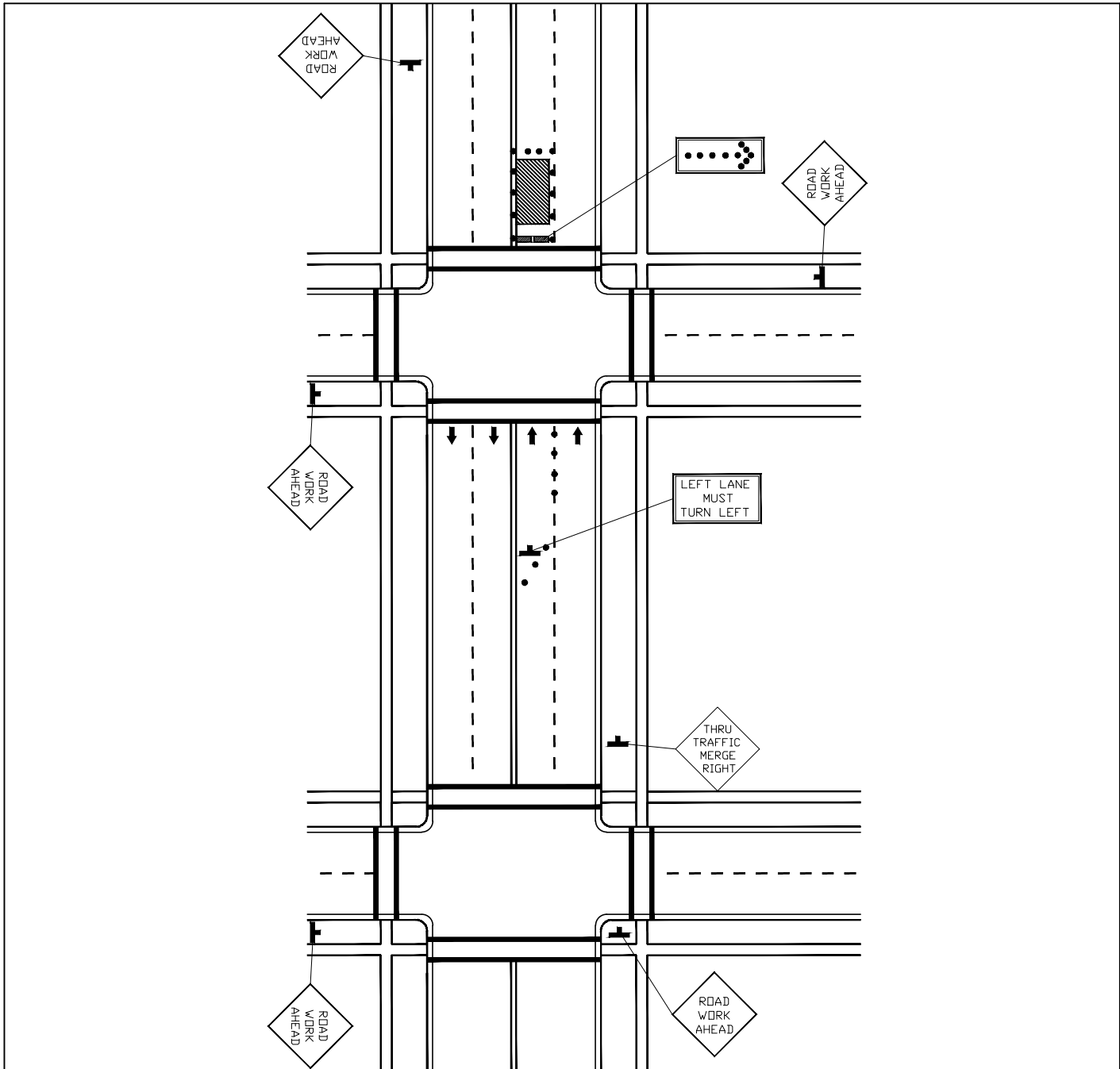
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



LEFT LANE CLOSURE AT INTERSECTION

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

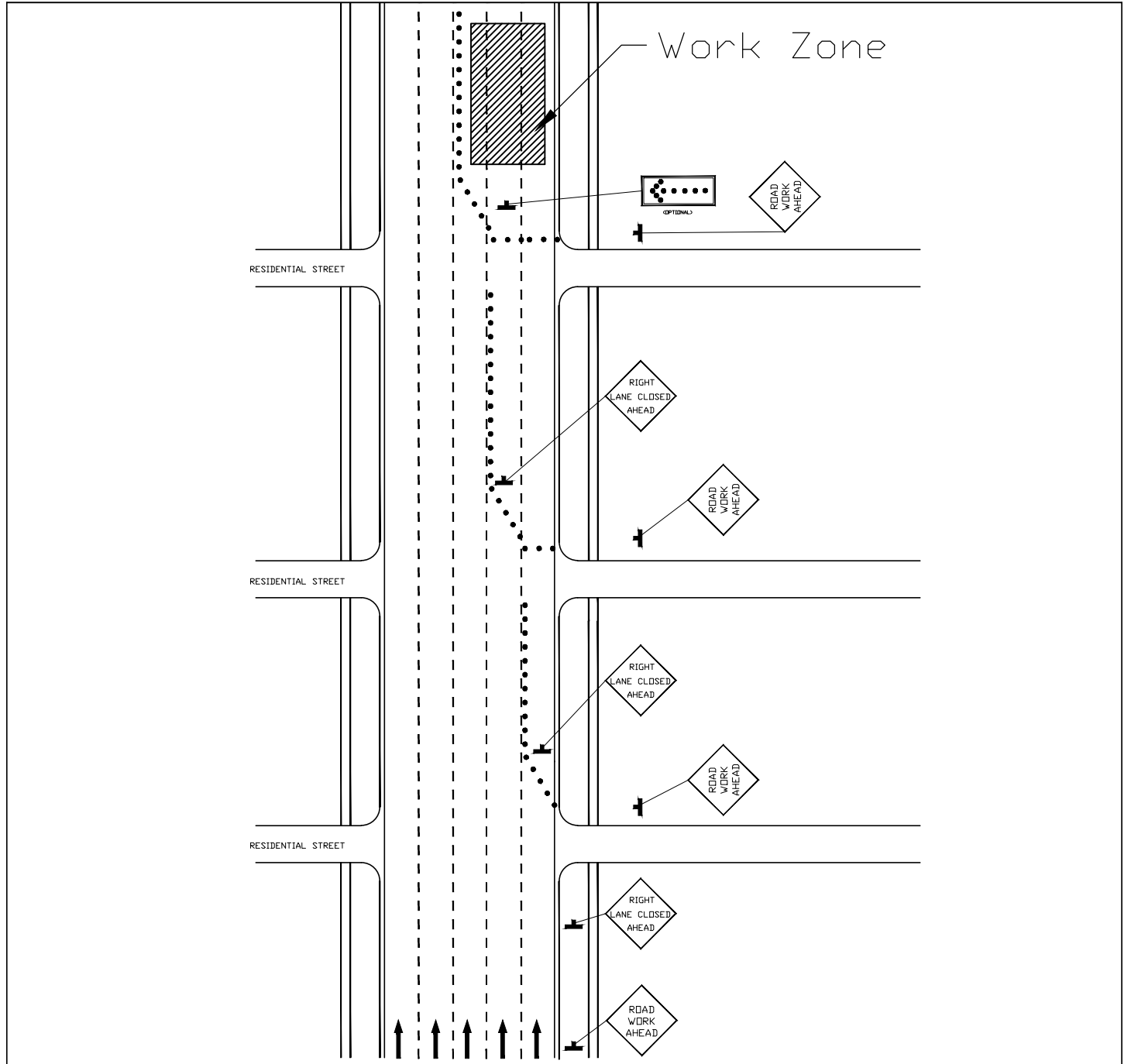
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



ONE WAY MULTI-LANE CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

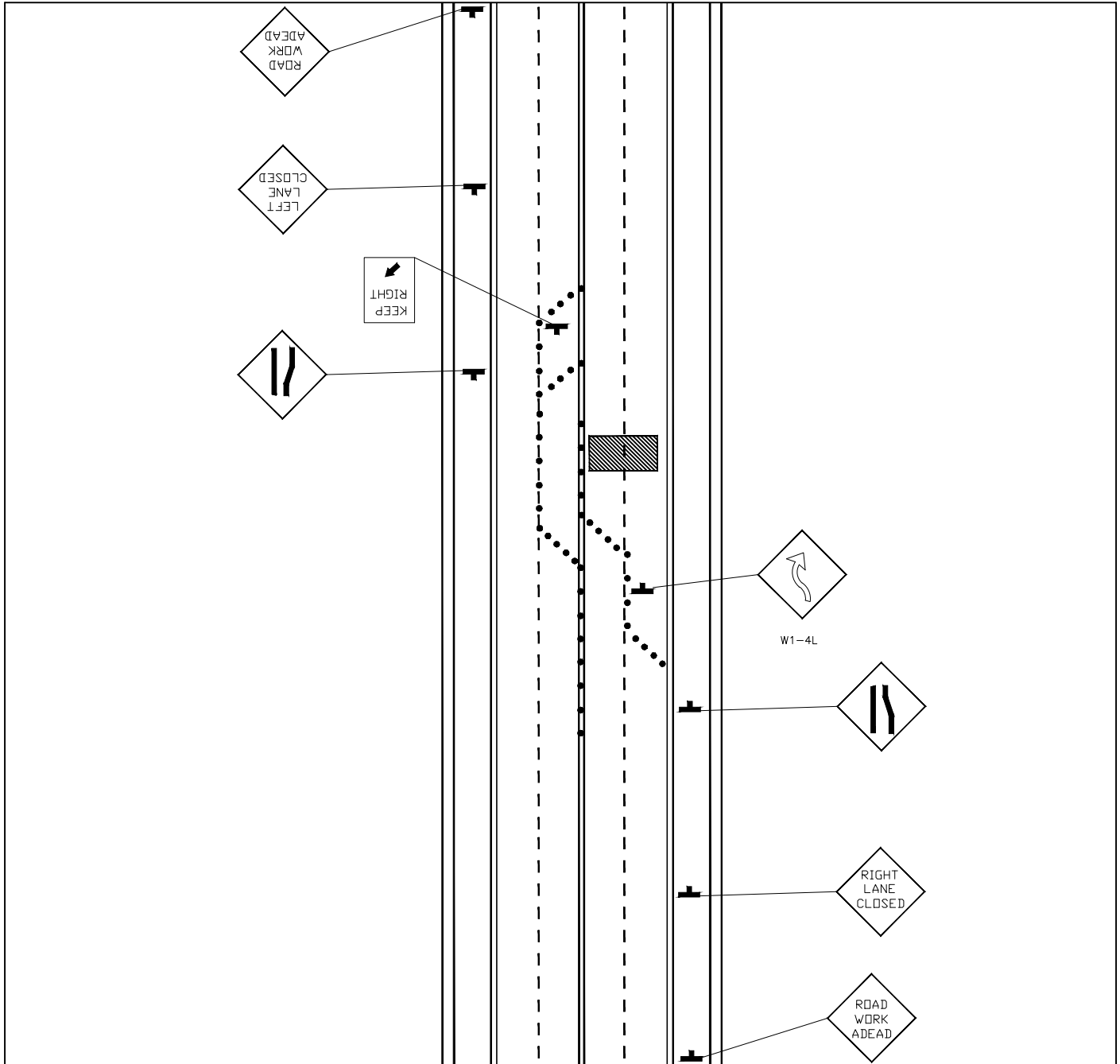
MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)								
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



FOUR LANE ROAD
TWO LANE CLOSURE
ARTERIAL STREET

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)
Offset cones 1 foot maximum.

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

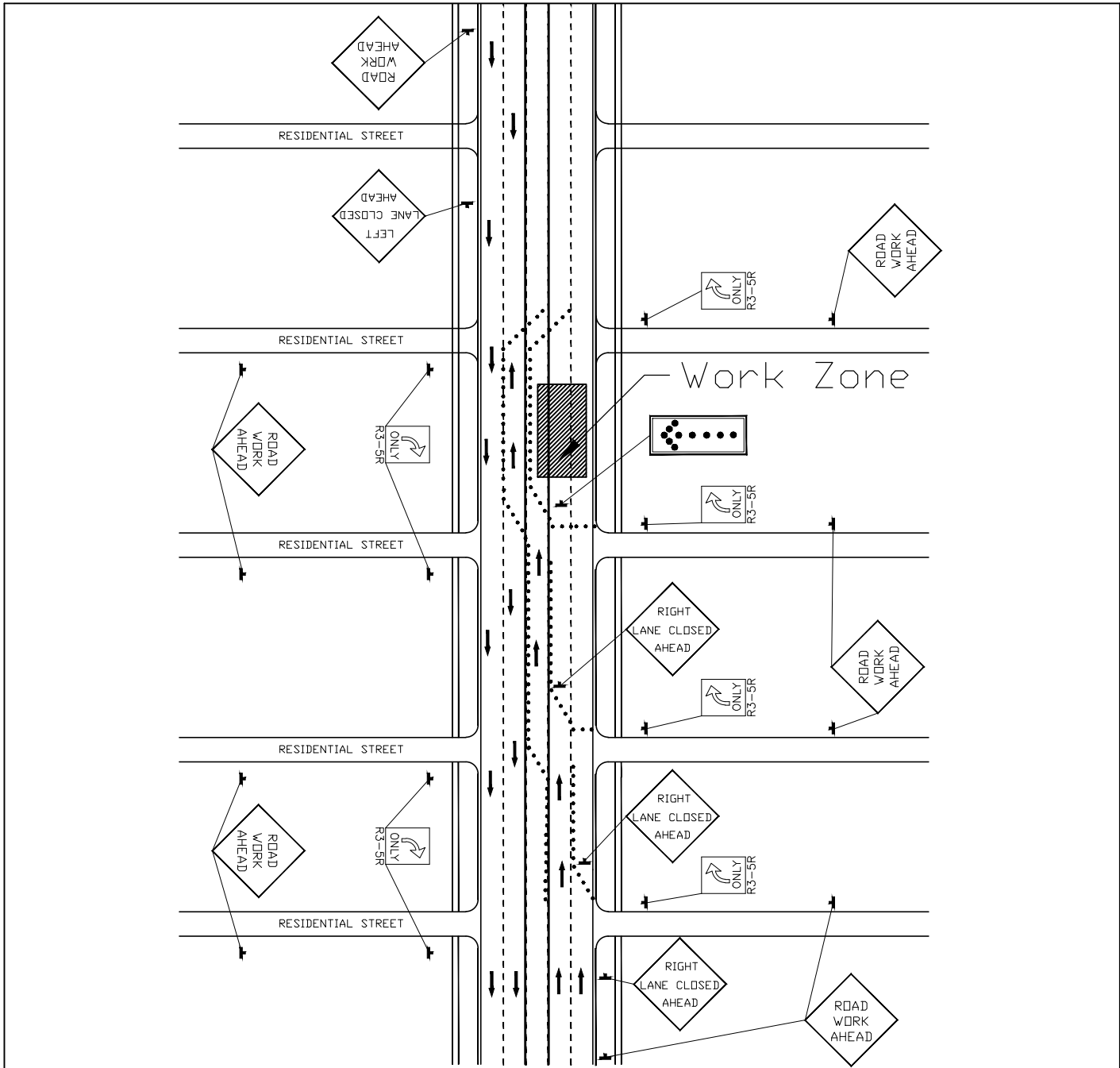
MUST BE OUT OF THE ROAD BY DATE & TIME: _____

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



FIVE LANE ROAD MULTI-LANE CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

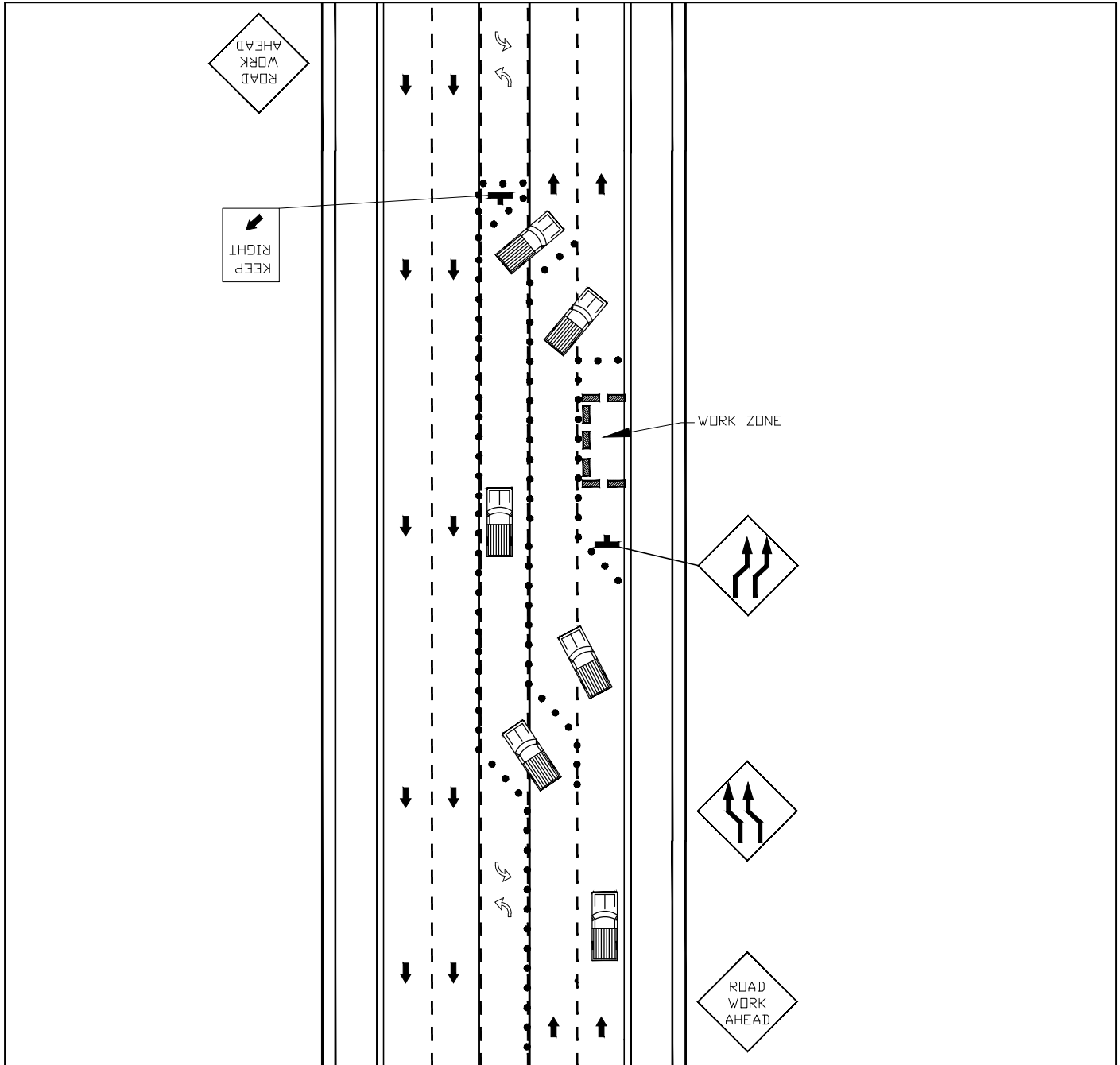
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL FOR 5 LANE SHIFTING

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

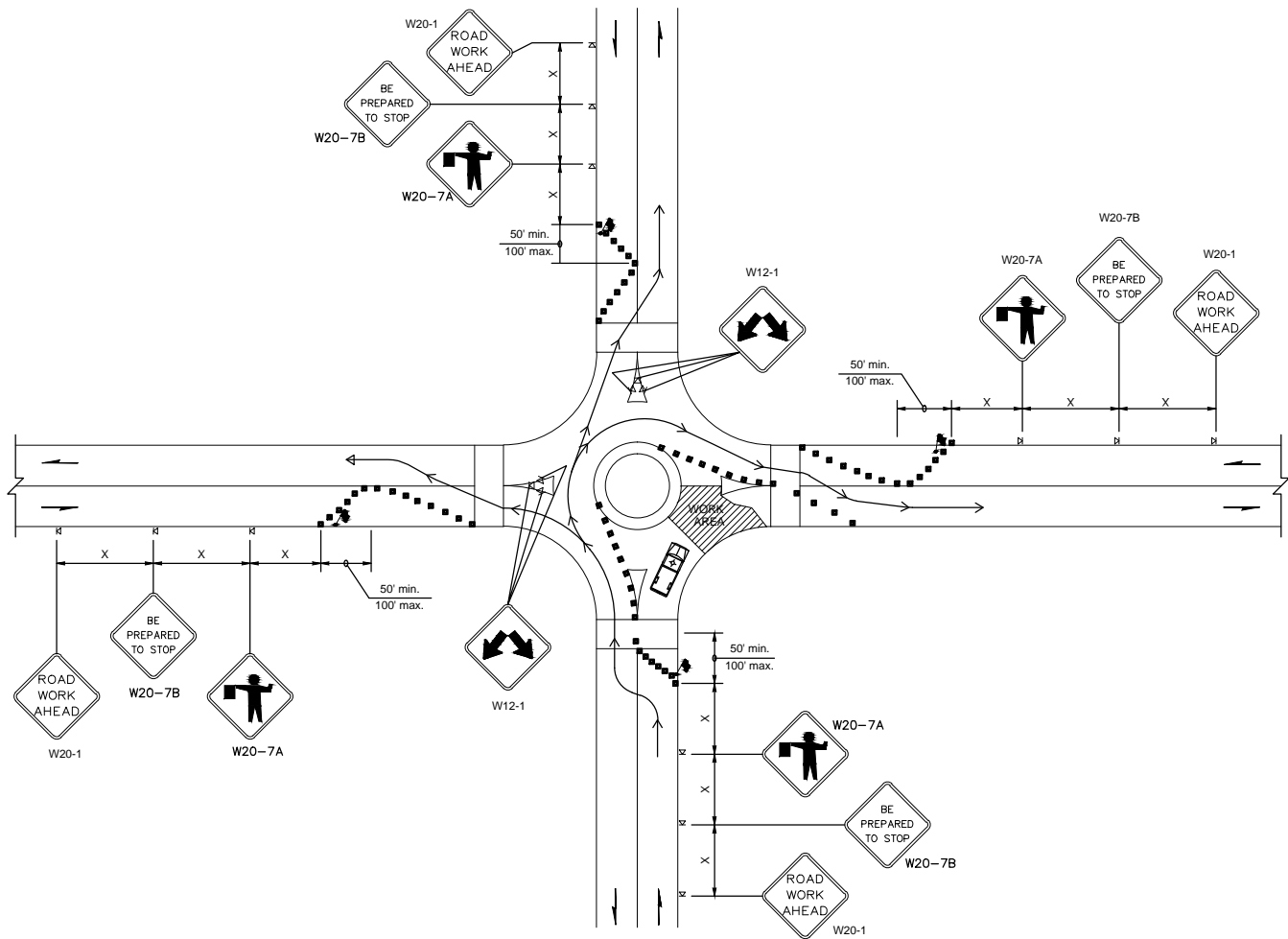
NUMBER OF CHANNELIZATION DEVICES (CONES)

Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



LEGEND

1. Night work requires additional roadway lighting at flagging stations, refer to WSDOT Standard Specifications for additional details
2. Protective vehicle recommended – may be a work vehicle.
3. Each roundabout location is unique and the traffic control must be developed to meet the specific conditions of the location and the work operation.
4. If the work and all work vehicles are off of the travel lanes and island apron, a single Road Work Ahead sign per approach is all that is required. Refer to additional guidance in the MUTCD manual for further information.
5. Consider an additional flagger in center island to assist traffic movement through roundabout or additional signing as appropriate.

LEGEND

- FLAGGING STATION
- SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE – RECOMMENDED
- VEHICLE TRAVEL PATH DURING A FLAGGING PHASE

TYPICAL ROUNDABOUT TRAFFIC CONTROL WITH FLAGGERS

☐ APPROVED BY: _____

☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

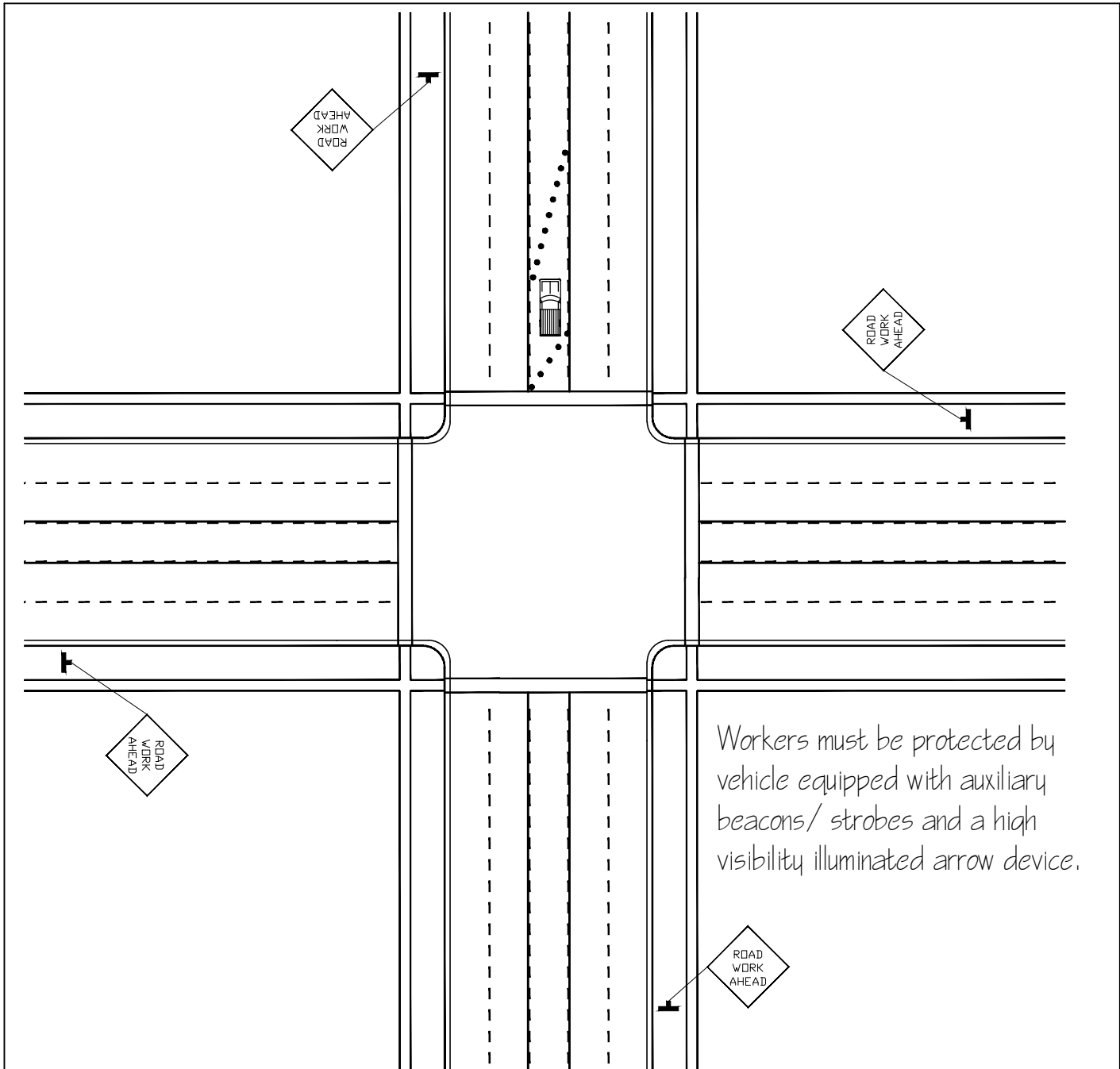
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



CENTER LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

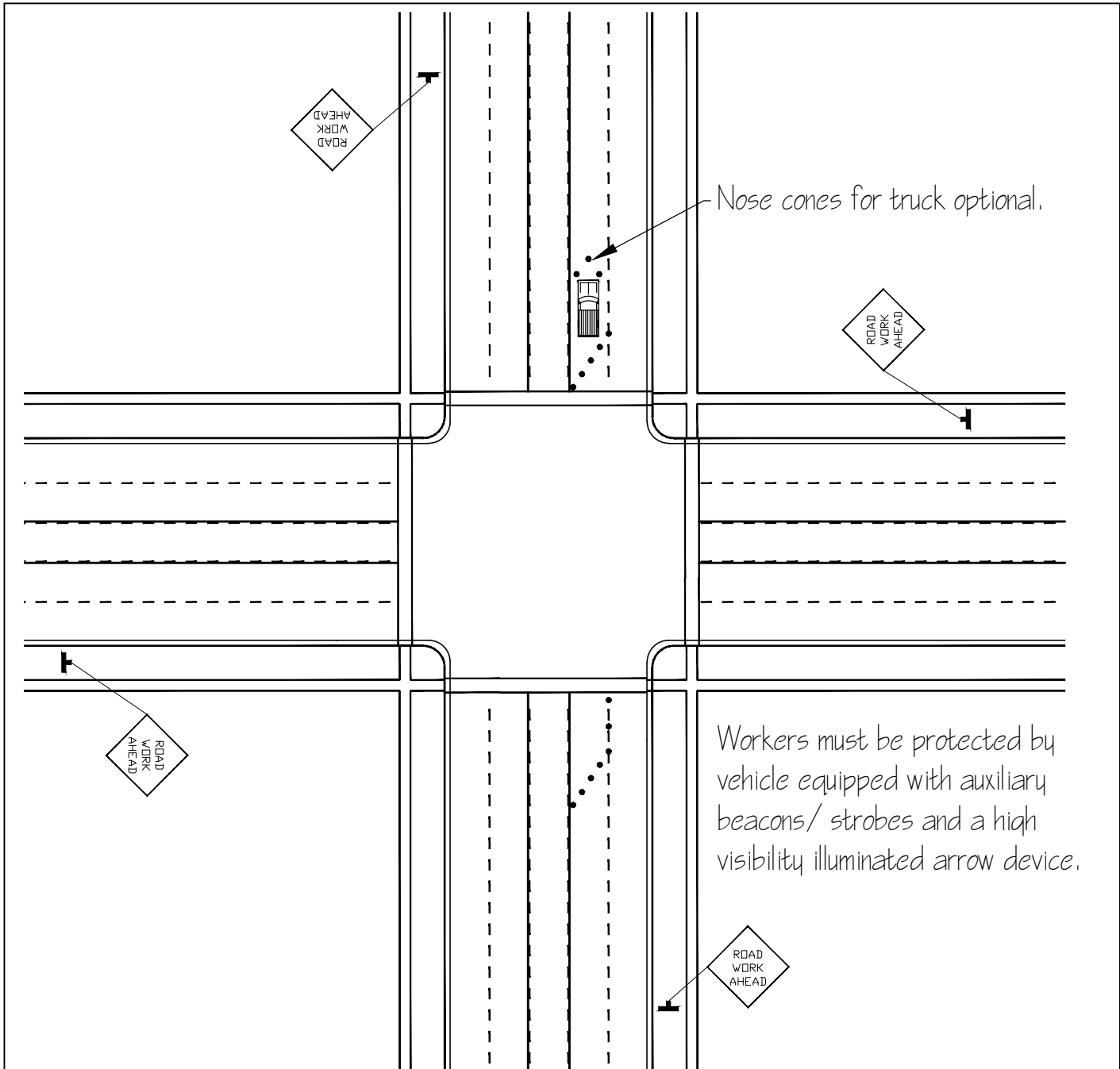
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



INSIDE LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

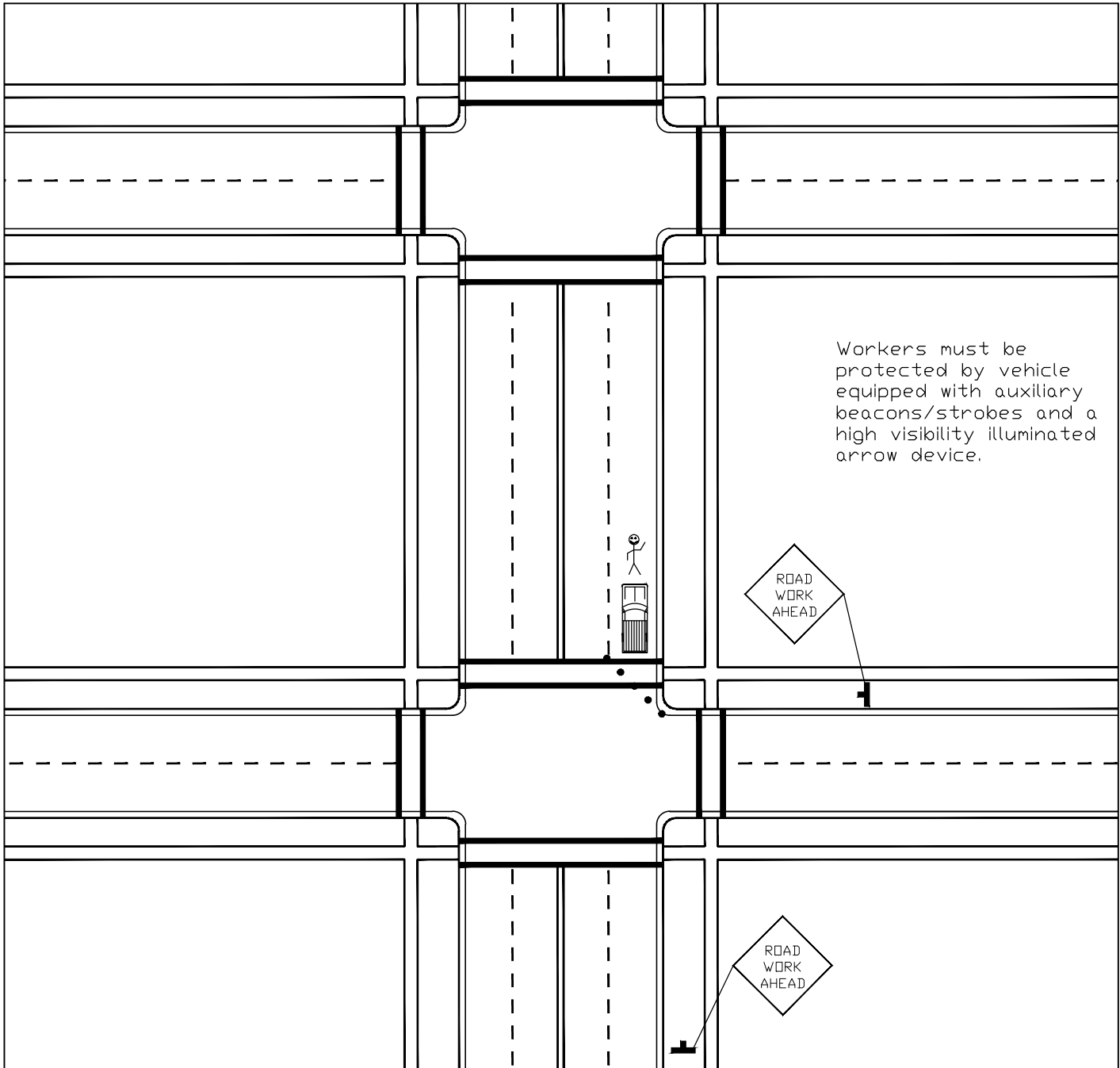
MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)								
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

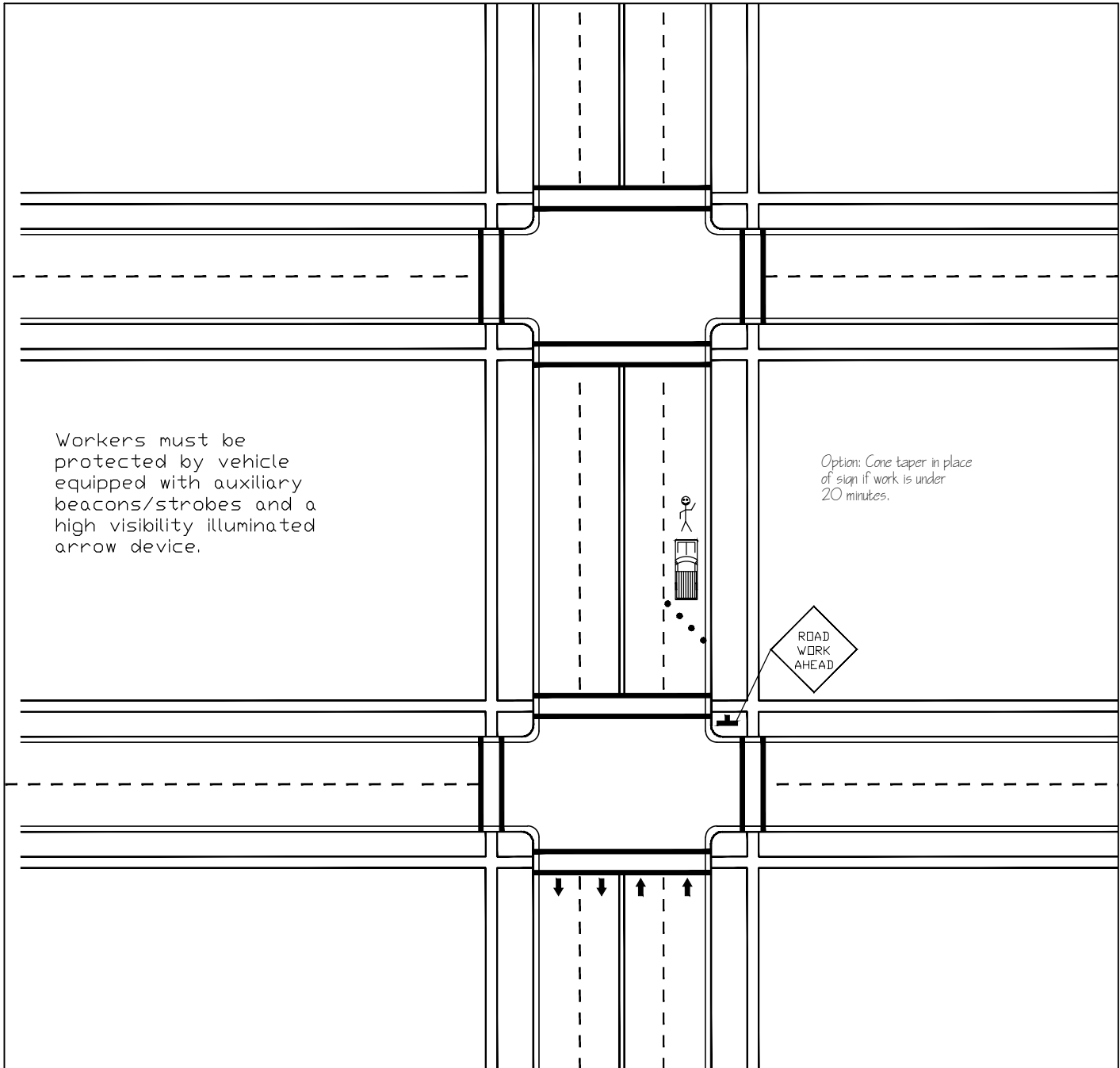
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



MID-BLOCK LANE CLOSURE UNDER 60 MINUTES

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

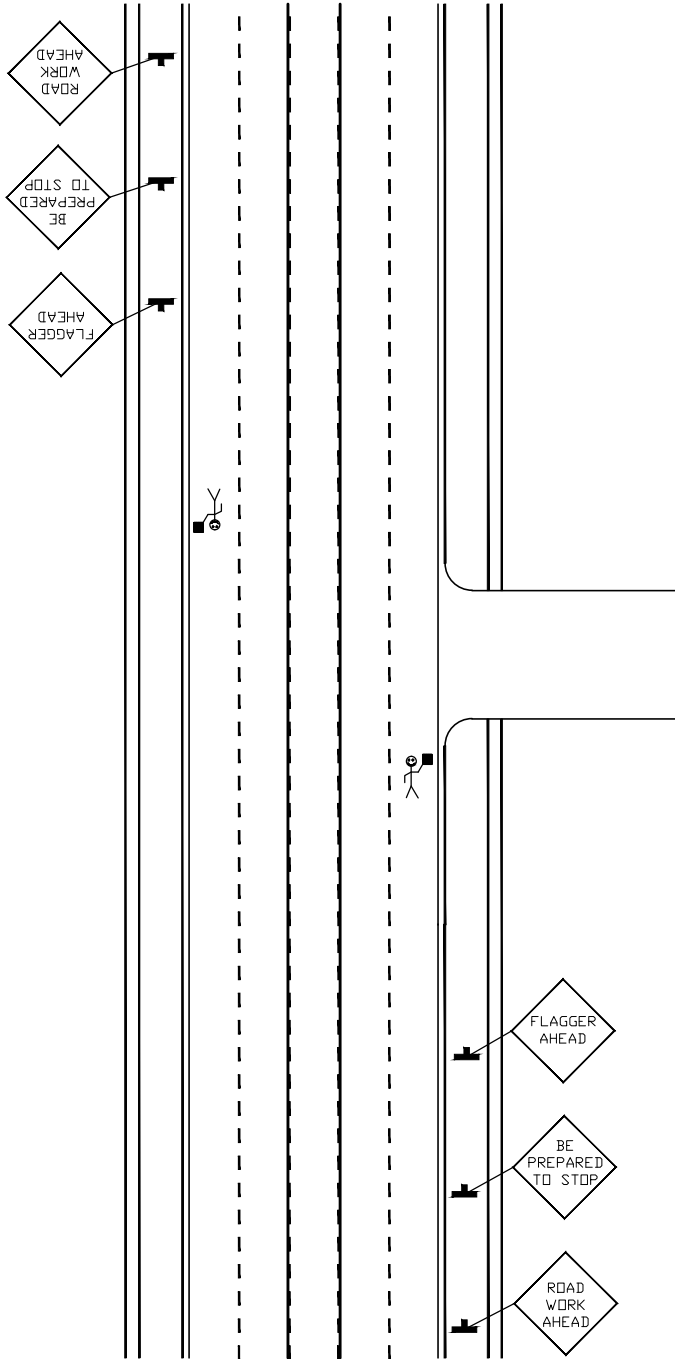
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL RECOMMENDATIONS FOR TRUCK CROSSING

- ☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

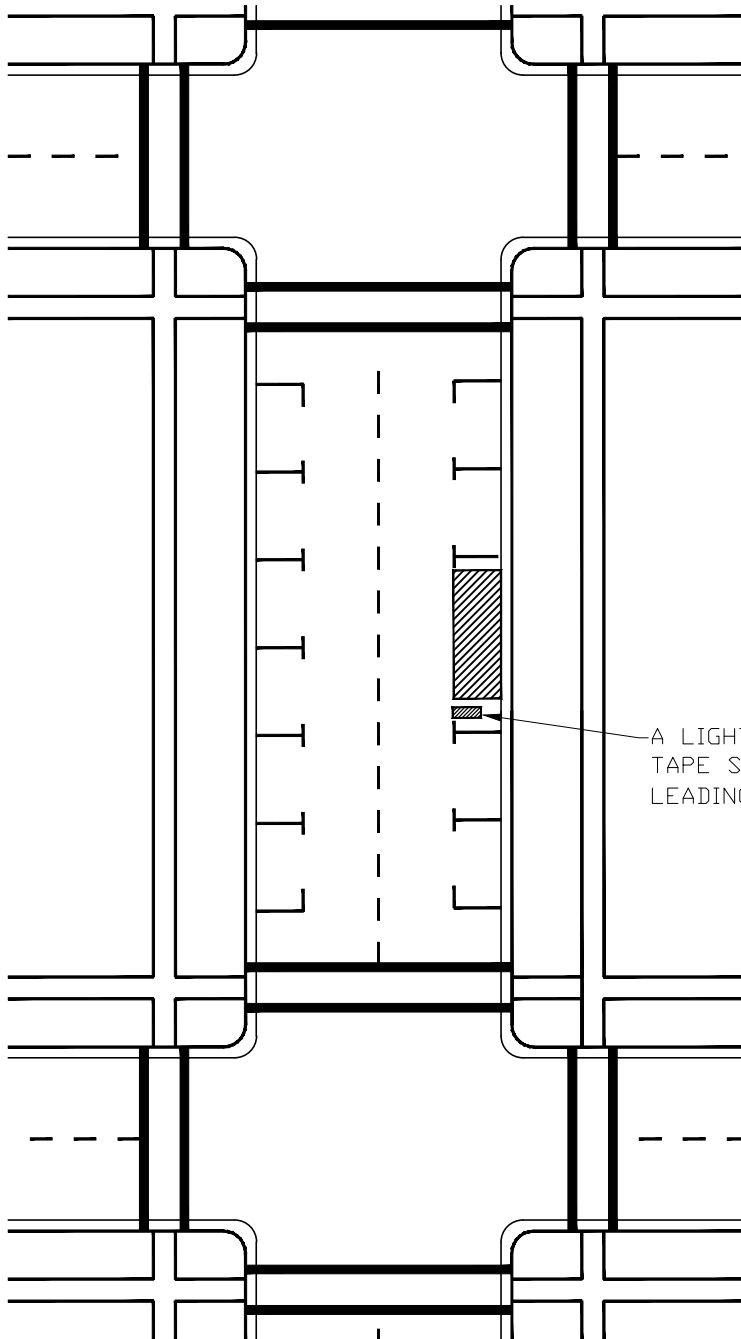
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



A LIGHTED BARRICADE OR REFLECTIVE TAPE SHALL BE INSTALLED ON THE LEADING EDGE OF THE DUMPSTER.

TRAFFIC CONTROL FOR A PORTABLE DUMPSTER

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

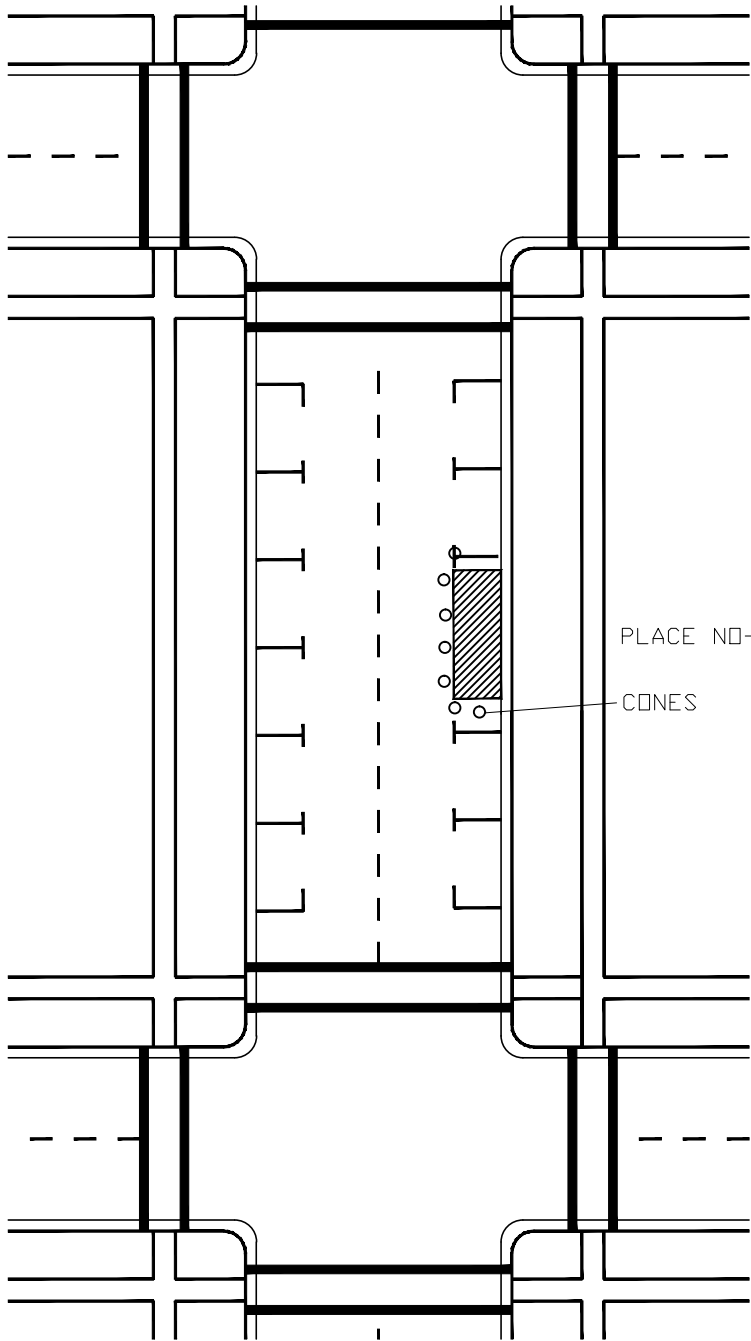
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



PLACE NO-PARK SIGNS 24HRS IN ADVANCE

CONES

TRAFFIC CONTROL FOR MOVING VAN

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

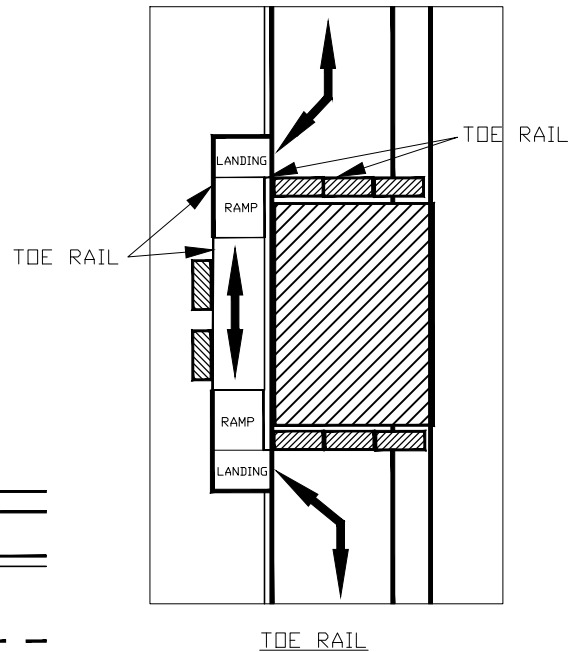
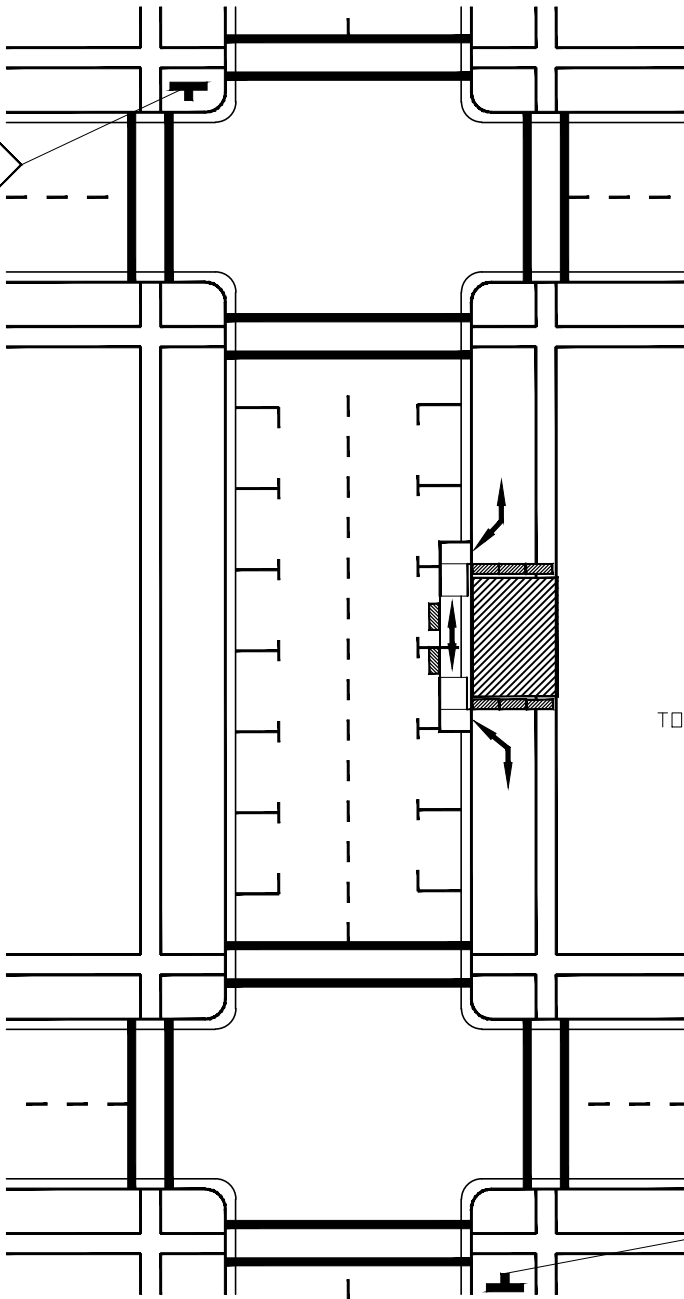
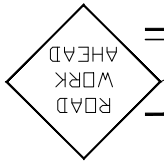
SAMPLE SETUP

NOTE:

PEDESTRIAN WALKWAYS SHALL BE A MINIMUM OF 5 FEET WIDE.

TOE RAIL ON RAMP ENTRANCE AND BARRICADE TOE RAIL SHALL HAVE NO GAPS AND BE PARALLEL.

SEE BYPASS RAMP DETAIL FOR PROPER CONSTRUCTION OF RAMP TO ALLOW FOR PEDESTRIAN AND DISABILITY ACCESS.



BYPASS
WALKWAY FOR
PEDESTRIANS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

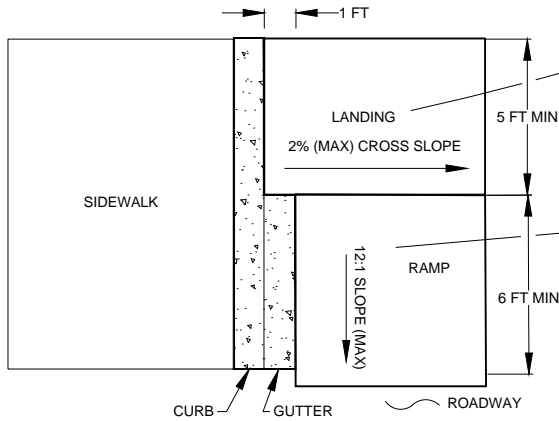
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



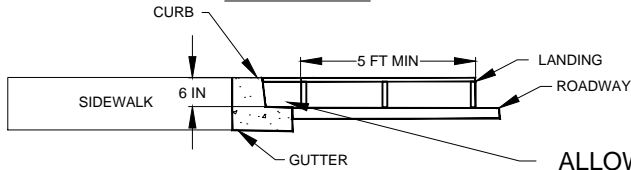
RAMP LANDING SHALL BE 1" X 5' X 5' (MIN) AND FLUSH WITH THE TOP OF THE CURB

RAMP SHALL BE 1" X 5' X 6' (MIN) AND HAVE A 600 POUND LOAD CAPACITY MIN.

NOTES:

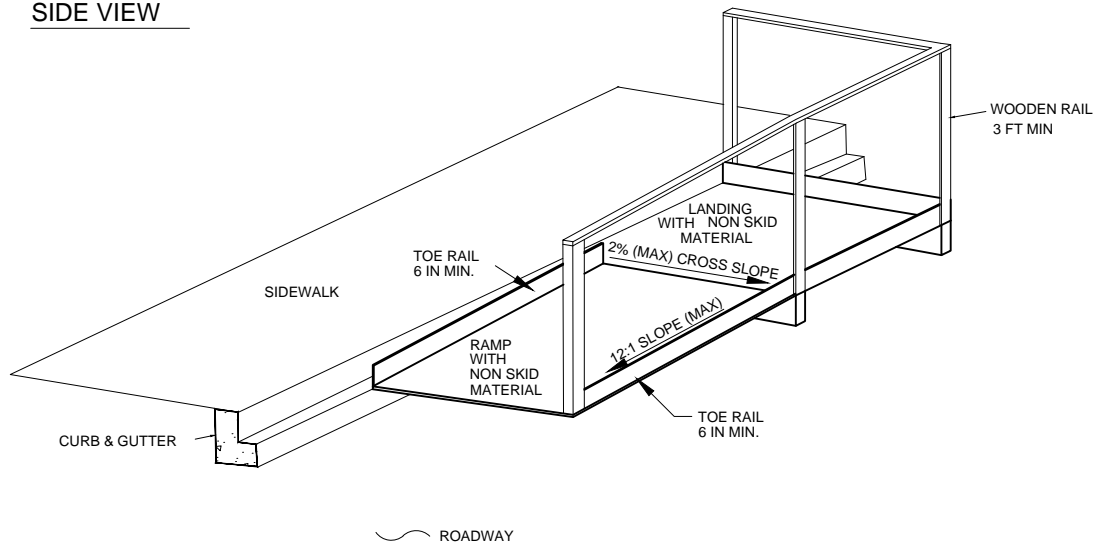
1. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
2. ADA ACCOMODATIONS MUST BE ADDRESSED AND CONSIDERED FOR ALL WORK OPERATIONS. EXISTING ADA FACILITIES MUST BE MAINTAINED.

TOP VIEW



SIDE VIEW

ALLOW FOR STORM DRAINAGE IN GUTTER LINE



PEDESTRIAN BYPASS RAMPS FOR TEMPORARY TRAFFIC CONTROL MINIMUM STANDARDS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

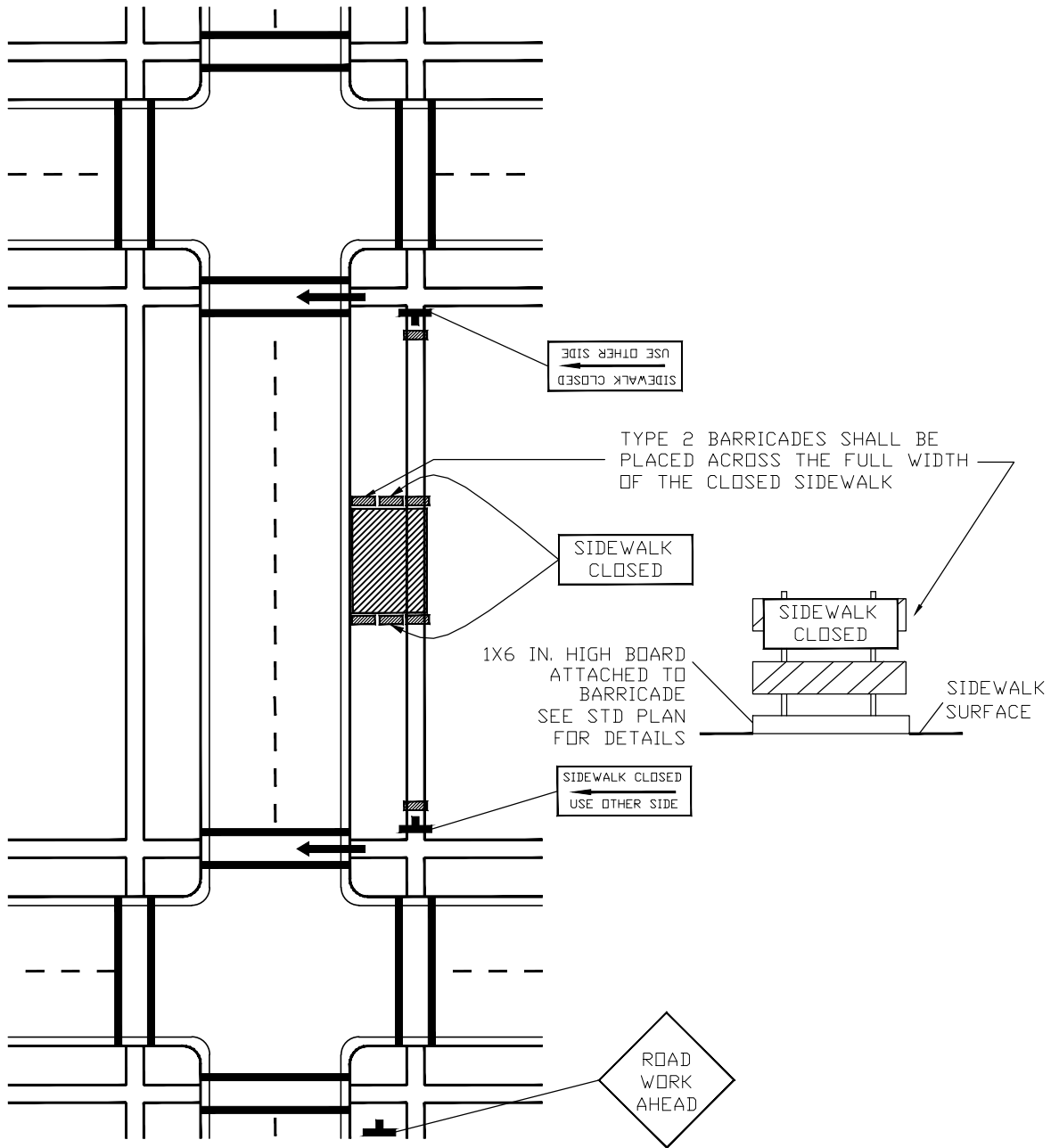
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SIDEWALK
CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

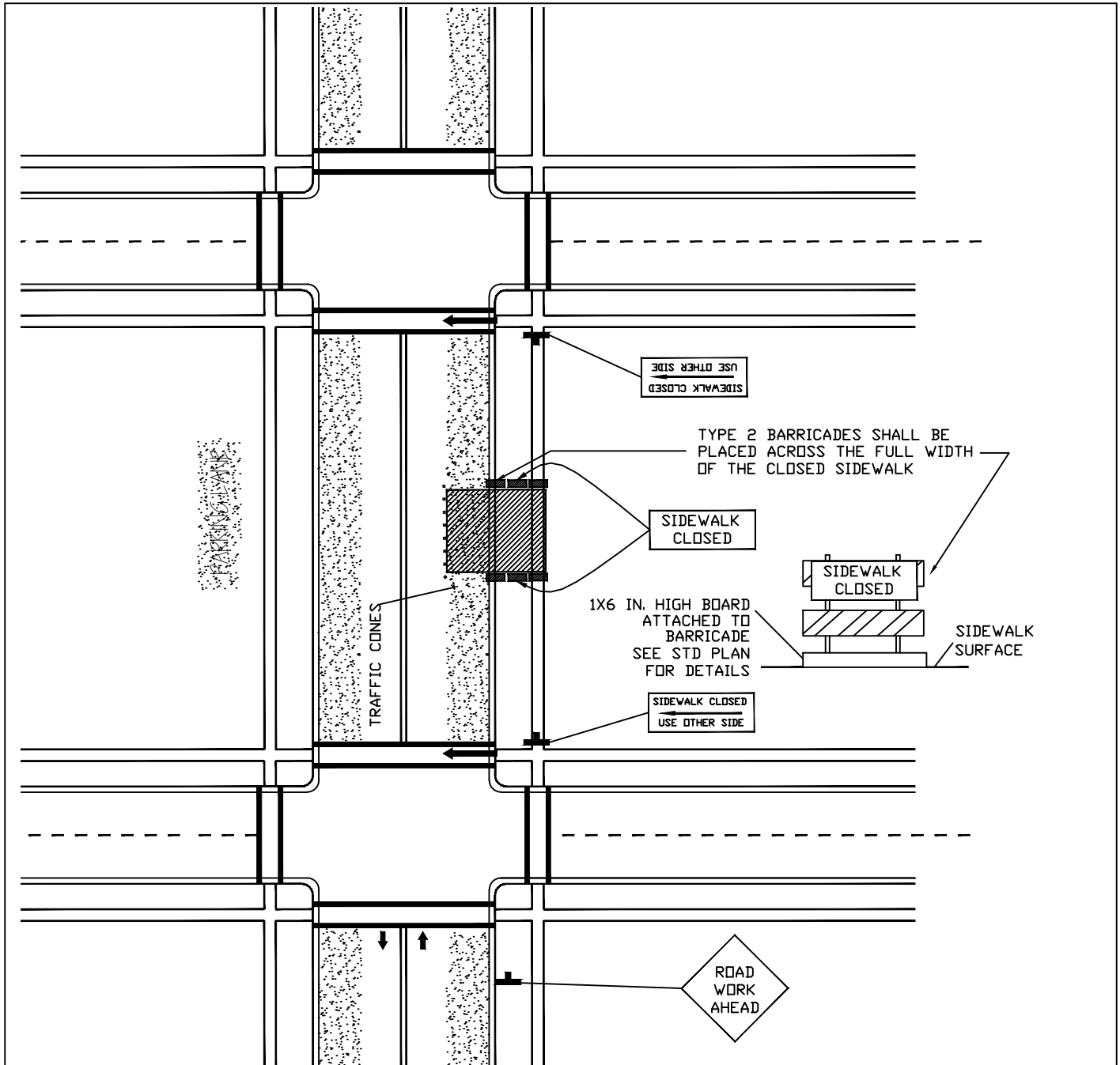
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SIDEWALK / PARKING CLOSURE

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

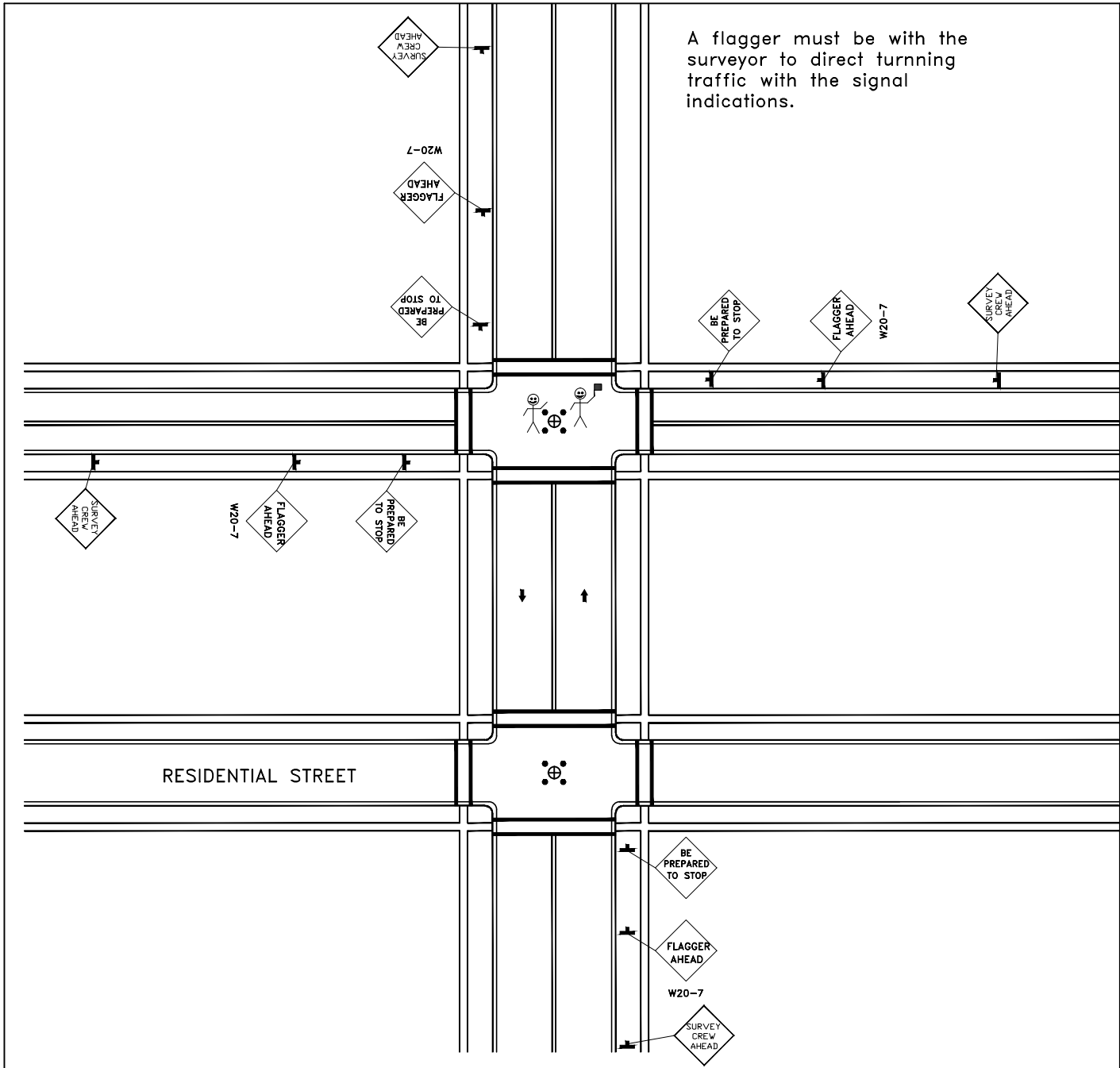
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SURVEY TWO LANE ARTERIAL INTERSECTION

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)

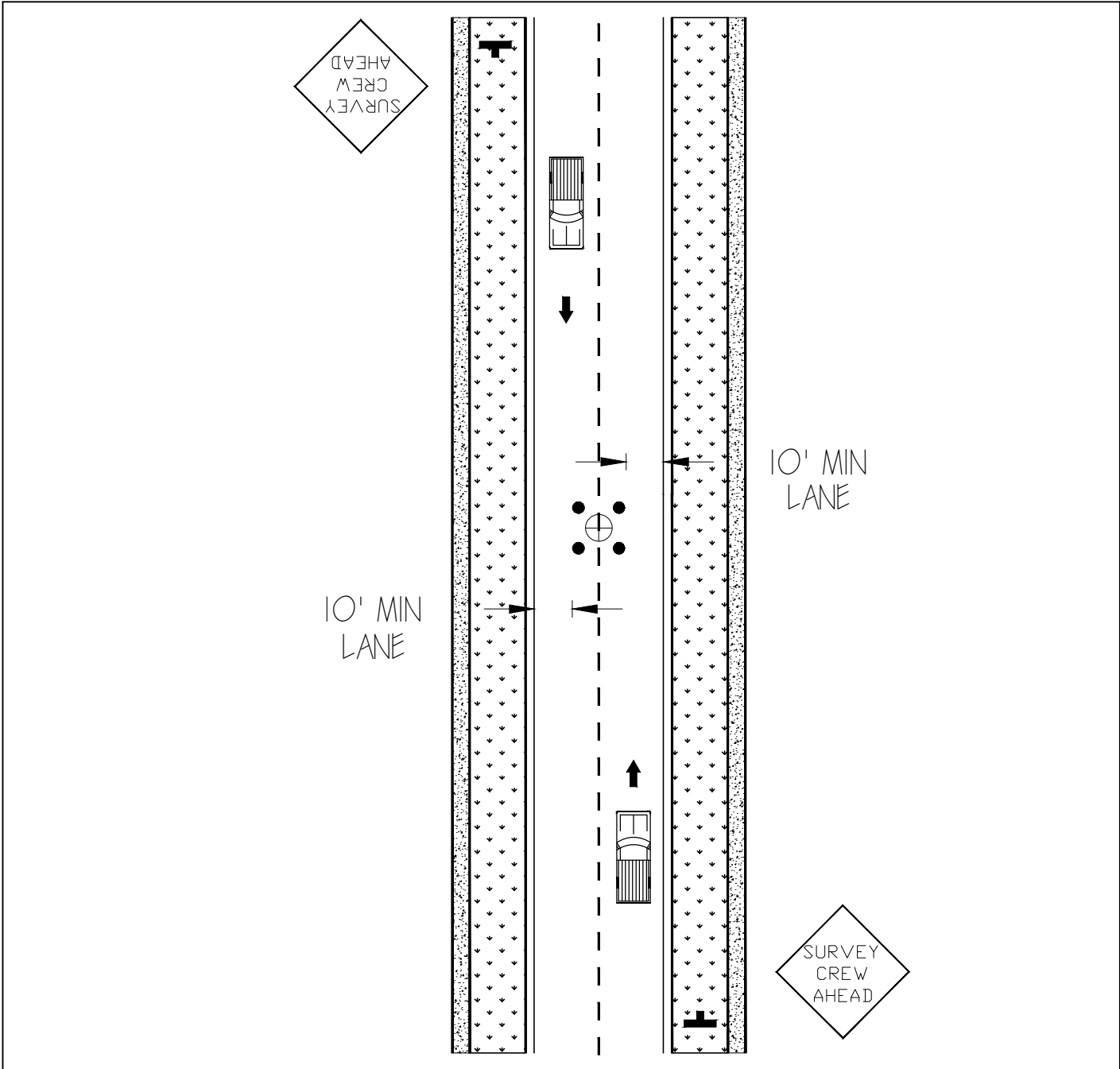
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SURVEY
TWO LANE ARTERIAL
MID-BLOCK

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

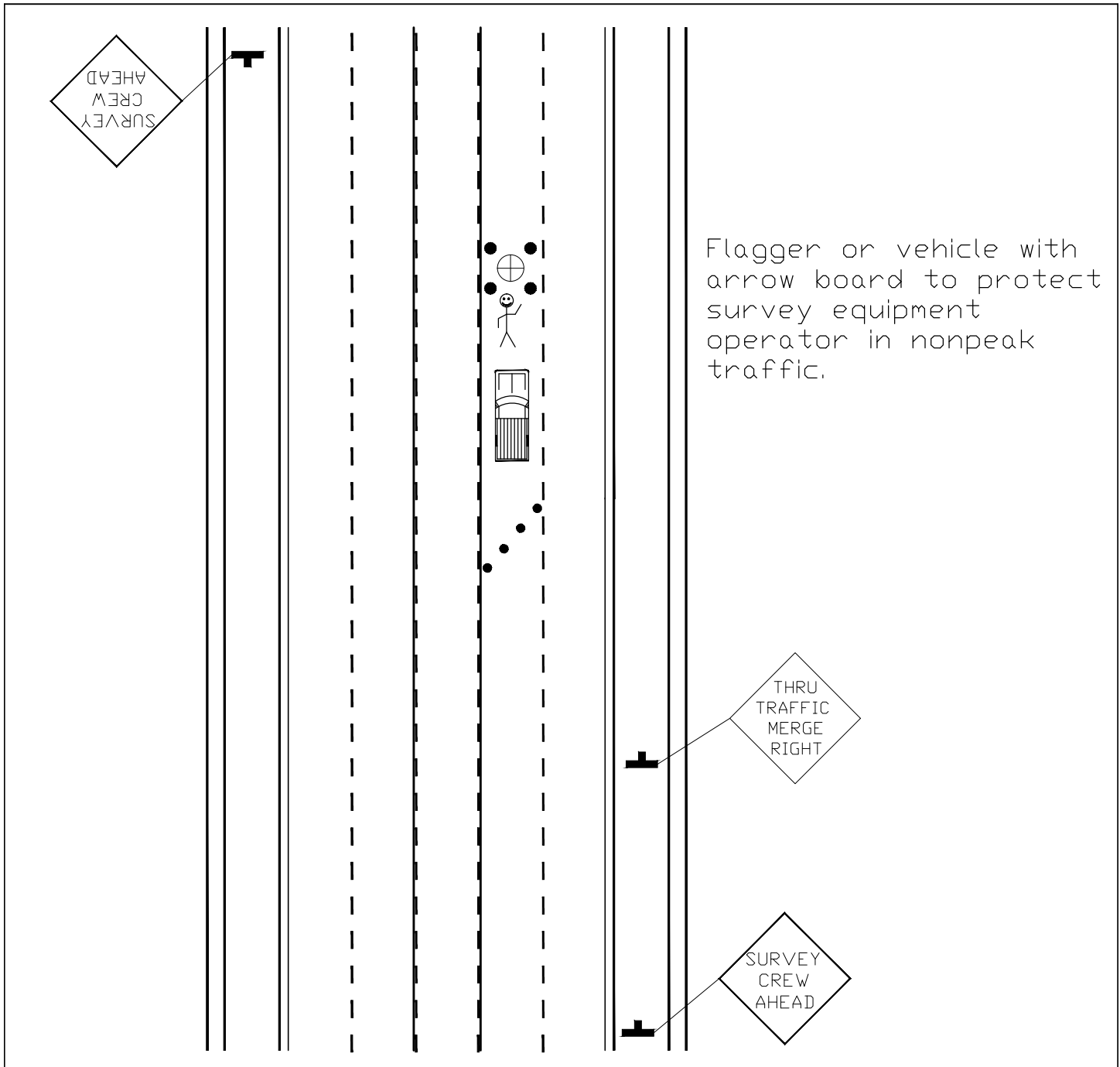
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SURVEY
MULTI-LANE
ARTERIAL

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP

TRAFFIC CONTROL
RECOMMENDATIONS

☐ APPROVED BY:

☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
	NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

[illegible]

TRAFFIC CONTROL
RECOMMENDATIONS

☐ APPROVED BY:

☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

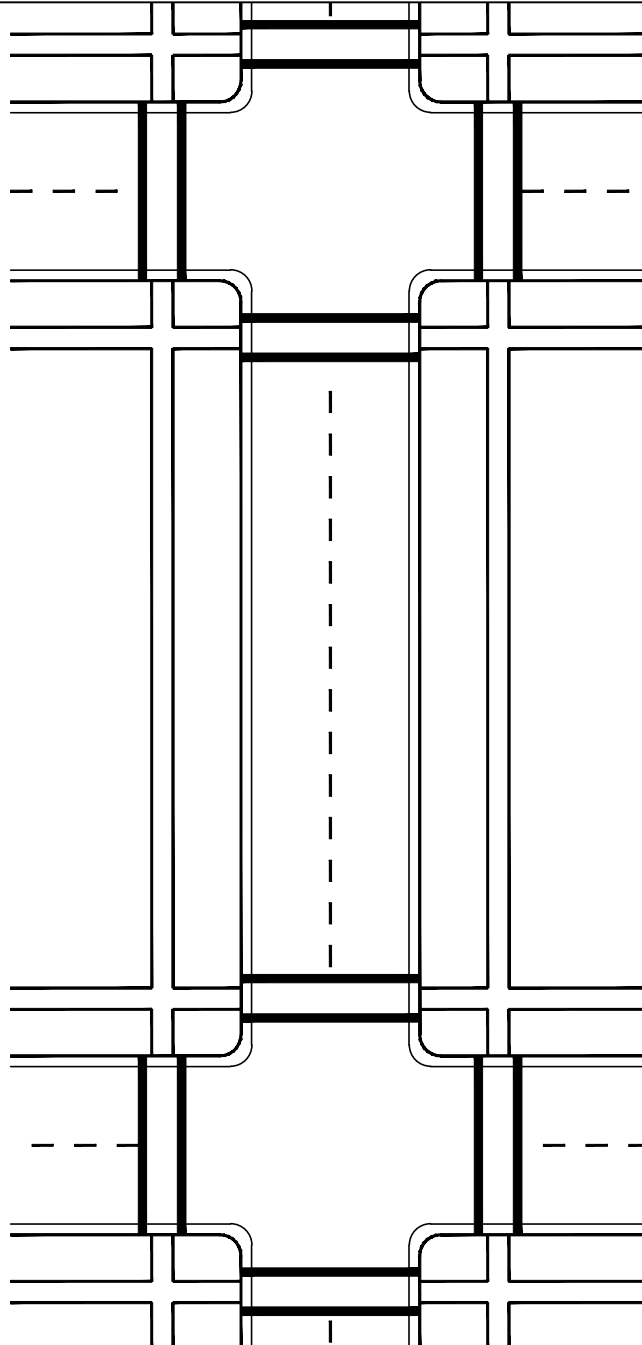
MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)								
MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
	NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL RECOMMENDATIONS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

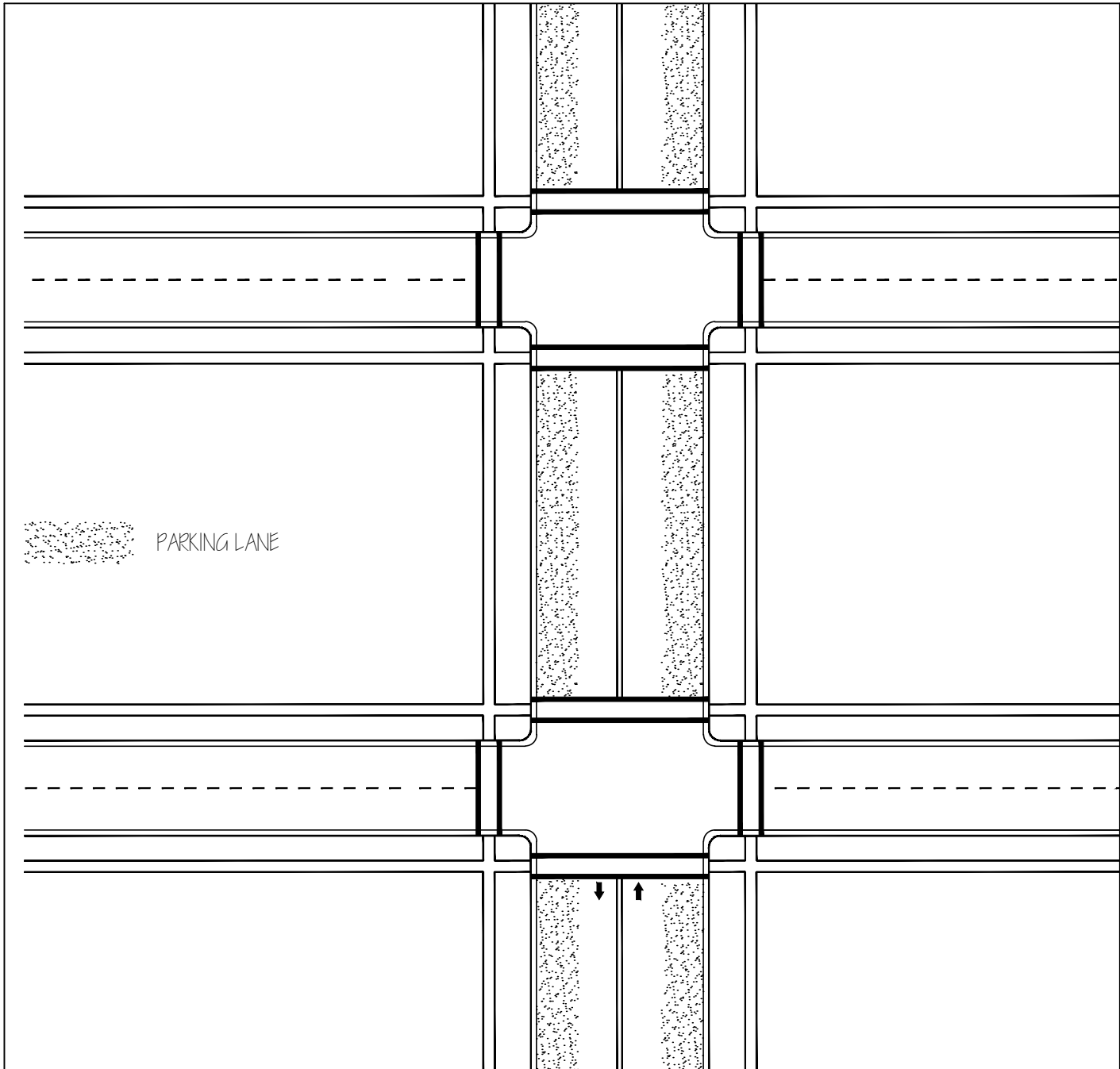
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL RECOMMENDATIONS

- ☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)

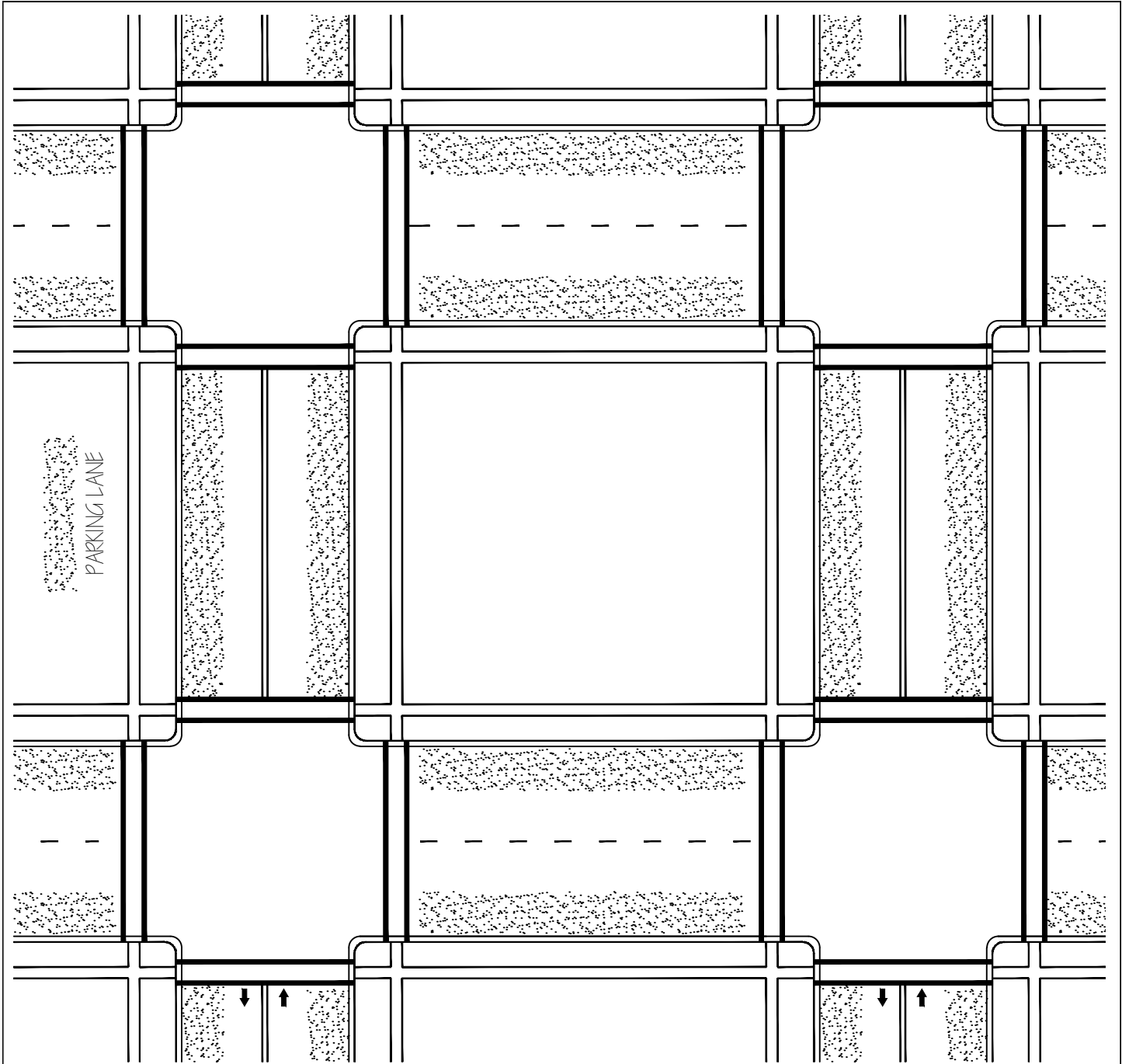
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL RECOMMENDATIONS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

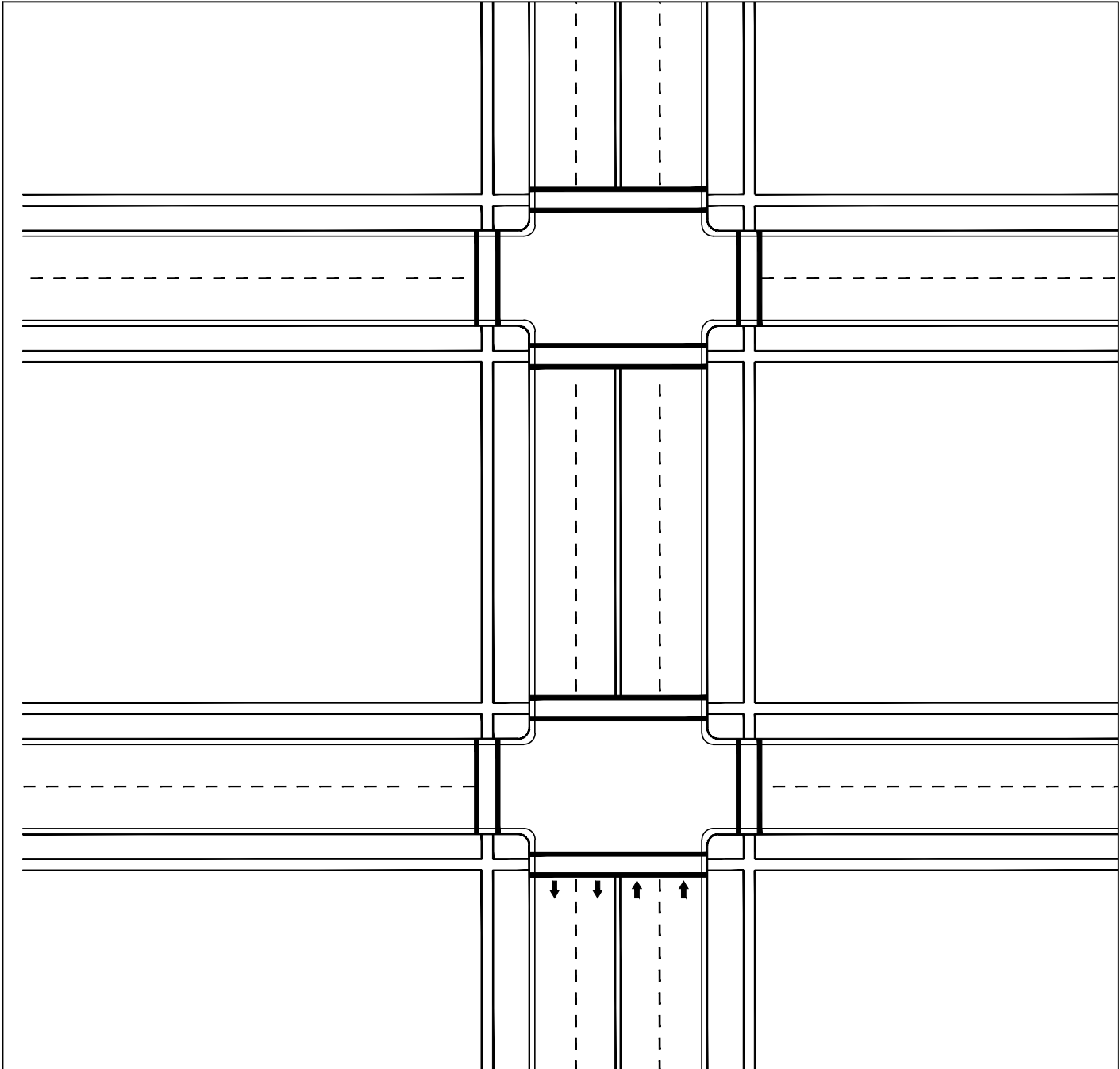
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL RECOMMENDATIONS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

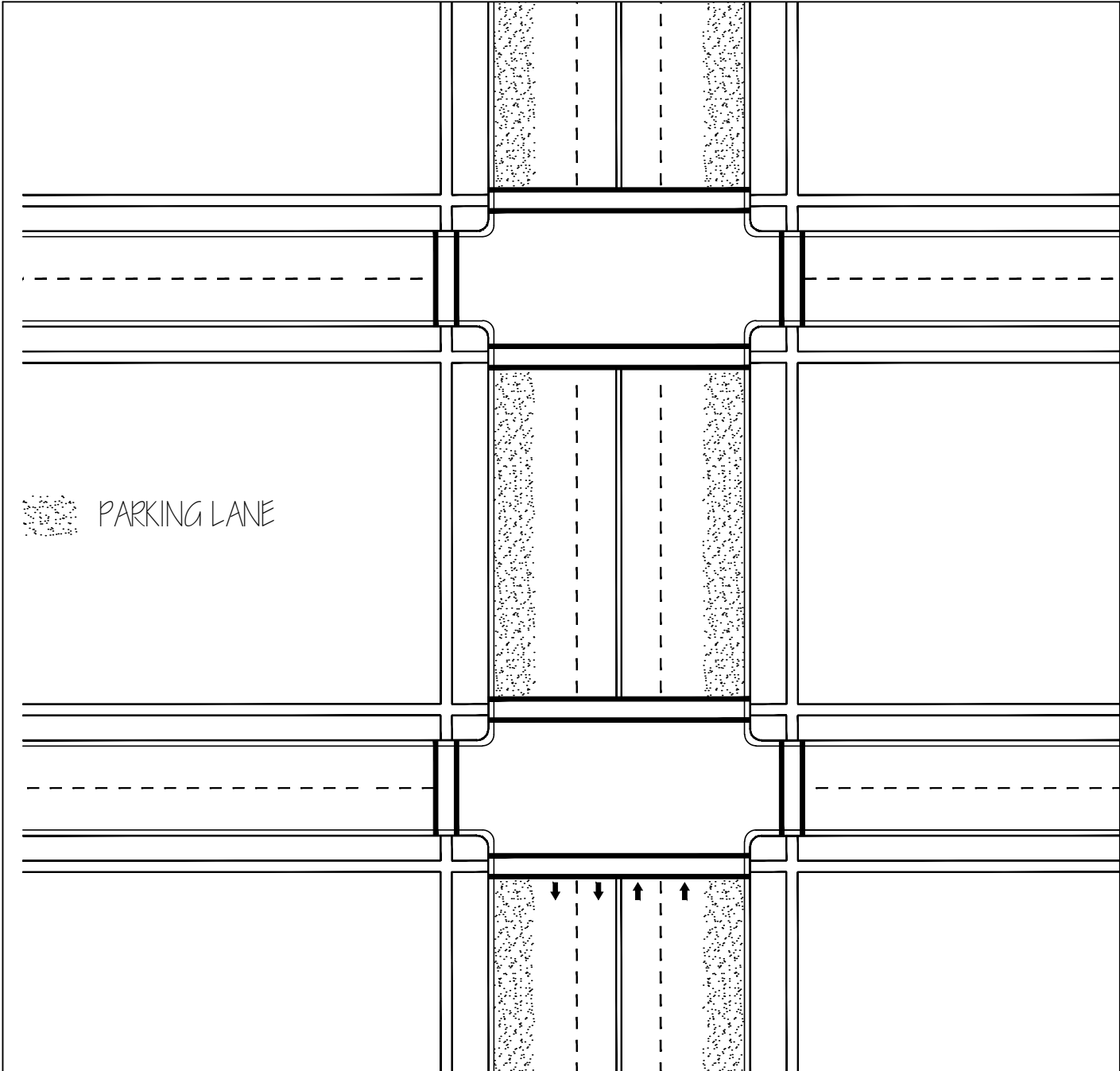
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL
RECOMMENDATIONS

☐ APPROVED BY: _____
☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS
MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY
START TRAFFIC CONTROL SET UP DATE & TIME: _____
MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS
FOR CONE PATTERN
(All minimums)

MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
	NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

[illegible]

TRAFFIC CONTROL
RECOMMENDATIONS

☐ APPROVED BY:

☐ APPROVED WITH CONDITIONS BY: _____ DATE: _____

START TRAFFIC CONTROL SET UP DATE: _____ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: _____

MUST BE OUT OF THE ROAD BY DATE & TIME: _____

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)								
MPH	10	15	20	25	30	35	40	
LANE WIDTH	8'	14	30	54	84	120	164	214
	10'	17	38	67	105	150	204	267
	12'	20	45	80	125	180	245	320
	14'	24	53	94	146	210	286	374
	16'	27	60	107	167	240	327	427
	NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.								

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

APPENDIX C

RIGHT-OF-WAY RESTORATION MANUAL

CITY OF TACOMA RIGHT-OF-WAY RESTORATION POLICY

Guidance on restoration of City Rights-of-Way



Public Works Department

Directors Office
747 Market Street Suite 408
Tacoma, WA 98402
253-591-5525

Right-of-Way Restoration Policy Amended, August 2017

1. DEFINITIONS.....	4
2. GENERAL PROVISIONS.....	5
2.1. FIVE-YEAR MORATORIUM	5
2.2. RESTORATION SCHEDULE.....	5
2.3. RESTORATION REQUIREMENTS OF MULTIPLE ROADWAY EXCAVATIONS	5
2.4. PAVEMENT DAMAGE	6
2.5. RESPONSIBILITY FOR CLEANUP	6
2.6. SURFACE WATER MANAGEMENT	6
2.7. CASTINGS.....	6
2.8. MONUMENTS	6
2.9. TRAFFIC CHANNELIZATION.....	6
2.10. PERMITS	6
2.11. VARIANCES	7
2.12. FRANCHISE AND ENTERPRISE UTILITY EXCEPTIONS	7
3. WARRANTY REQUIREMENTS	7
3.1. WARRANTY PROVISIONS.....	7
3.2. WARRANTY REPAIRS.....	8
4. TEMPORARY SURFACE RESTORATIONS.....	8
5. PERMANENT SURFACE RESTORATIONS	9
6. RESTORING OTHER RIGHT-OF-WAY ELEMENTS.....	9
6.1. GRAVEL SURFACES.....	9
6.2. COBBLESTONE AND BRICK STREETS	9
6.3. TRAFFIC SIGNAL VEHICLE AND/OR BICYCLE DETECTION DEVICES AND STREET LIGHT/ SIGNAL CONDUIT	9
6.4. PERMEABLE PAVEMENTS.....	9
6.5. TRAFFIC CHANNELIZATION.....	10
6.6. TRAFFIC CIRCLES, ROUNDABOUTS AND SPEED HUMPS.....	10
6.7. SIDEWALK RESTORATION.....	10
6.8. CURB RESTORATION	11
6.9. SIDEWALK RAMPS	11
6.10. DRIVEWAYS	11
6.11. DECORATIVE TREATMENTS AND SPECIAL PAVEMENTS.....	11
APPENDIX A	13
APPENDIX B.....	14

City of Tacoma's Right-of-Way Restoration Policy

This policy will assist those working within the City of Tacoma's (City) right-of-way with restoration requirements. It establishes restoration standards to help protect the City's public infrastructure and reduce long-term maintenance costs. This policy shall apply to all concrete streets and paved non-gravel alleys regardless of condition. This policy will apply to all asphalt streets that have a paving rating index of 41 or higher. Asphalt streets that have a paving index rating of 40 or below will be exempt from the requirements of this policy. Streets with a rating index of 40 or below shall be restored in accordance with the City's standard plan SU-15B. Pavement ratings and standard plans may be found at www.cityoftacoma.org/rightofway.

This policy will be implemented and enforced jointly by the Public Works and Planning and Development Services Departments. This policy shall be applied to all work in the right-of-way.

In accordance with Tacoma Municipal Code (TMC) 10.22.050 all work that will alter the right of way must be permitted. The Tacoma Municipal Code allows for permittees to subcontract right-of-way work performed under the permit, provided that the Permittee shall be and remains responsible for the performance of the Work under the Permit and all insurance and financial security is required.

1. Definitions

Castings: Maintenance Hole Covers, Catch Basin Grates, Gate Valves, etc., constructed in the right-of-way.

Cut back zone: The area of pavement, sidewalks, curbs and gutters removed and replaced over undisturbed soils.

Enterprise Utility: A City-owned and operated utility.

Franchise Utility: A privately owned utility that has a fully executed franchise agreement with the City of Tacoma.

Lane: A longitudinally marked or unmarked portion of a street that is wide enough to accommodate a vehicle or a bicycle.

On streets with traffic channelization, lanes shall be as marked. On streets without traffic channelization, lanes shall be defined based on the street width. Streets 20 feet or less in width are considered one-lane streets. Streets greater than 20 feet in width are considered two-lane streets with one lane either side of the centerline of the road. Streets greater than 32 feet in width may be considered three-lane streets, at the discretion of the City Engineer. For a three-lane consideration, the Permittee shall submit a variance request to the City Engineer in accordance with Section 2.12 of this policy. Every lane is considered to have two wheel paths. No longitudinal construction joint shall fall within a wheel path.

Newly Constructed Streets: A new or existing public street that has been constructed or reconstructed with a complete roadway section from curb and gutter to curb and gutter, or an existing roadway surface that has been rehabilitated with a grind and overlay from gutter to gutter and intersection to intersection, or 330 linear feet in length whichever comes first. A grind and overlay project will only be considered new construction if the owners of the underground utilities were notified of the reconstruction/rehabilitation 9 months prior to start of the work and afforded the opportunity to perform any necessary replacements of the utilities as part of the grind and overlay project.

Permittee: Any person, firm, or corporation, or his duly authorized agent, performing work that requires a permit per TMC Chapter 10.22.

Right-of-Way Elements: All curbs, gutters, sidewalks, streets, traffic circles, speed humps, roundabouts, or other City infrastructure existing within the right-of-way.

Standard Plan: The City's Standard Plans. Available at www.cityoftacoma.org/standardplans

Street: Any marked or unmarked public roadway within the City of Tacoma, including residential, arterial, alleys, courts, avenues, lanes, cul-de-sacs, etc. Streets designated as arterial streets may be found in TMC Chapter 11.05.490.

2. General Provisions

Construction within the right-of-way shall conform to the latest version of the City's Design Manual, Standard Plans, Traffic Control Handbook and the WSDOT Standard Specifications for Road, Bridge and Municipal Construction (WSDOT Standard Specifications).

2.1. Five-Year Moratorium

Except for repairs that are necessary for the protection of the public's health and safety, excavations in newly constructed streets will not be allowed for a period of five years following substantial completion of the project.

2.2. Restoration Schedule

Unless otherwise approved by the City Engineer, or his/her designee, where excavations are permitted hereunder, all pavement and other right-of-way elements shall be permanently restored within 60 calendar days of the start of construction.

2.3. Restoration Requirements of Multiple Roadway Excavations

If a Permittee excavates and removes roadway pavement in two (2) or more locations within 75 feet of each other, measured longitudinally or transversely from any cut back zone, the Permittee shall restore the roadway by incorporating the Permittee's work in a single patch per the Standard Plans.

If a Permittee excavates and removes the roadway pavement in four (4) or more locations within 300 feet of each location, measured longitudinally or transversely from

any cut back zone, the Permittee shall restore the roadway by incorporating the Permittee's work in a single patch per the Standard Plans.

2.4. Pavement Damage

Any damage to pavement surfaces or other right-of-way elements during construction activities shall be repaired and/or replaced in accordance with this policy. Stockpiling of construction materials on the roadway is prohibited.

2.5. Responsibility for Cleanup

During construction, the site and the surrounding area shall be kept clean and free of construction debris or other materials. Construction debris or other materials shall not be washed or flushed into the surface water or wastewater systems. Upon completion of the work and prior to final acceptance, all surplus materials, rubbish, temporary buildings, equipment and debris that may have accumulated during the performance of the work shall be removed and disposed from the site and adjoining properties. All catch basin inlet protection devices and collected sediments shall be removed and properly disposed of.

2.6. Surface Water Management

All construction activities shall be in accordance with the requirements of the City's Surface Water Management Manual.

2.7. Castings

Casting installations or adjustments shall meet the requirements of the Standard Plans and are exempt from Section 2.3 of this Policy. Pavement joints shall not be located within 1 foot of a casting.

2.8. Monuments

All existing survey monuments that are disturbed, removed, or covered as a result of the construction or final pavement restoration shall be restored per the Standard Plans and Washington Administrative Code (WAC) 332-120.

2.9. Traffic Channelization

Temporary traffic channelization shall be maintained during construction, including any pavement curing period. All permanent traffic channelization shall be restored as required by the City prior to final acceptance, including, but not limited to school zone markings, bike lanes, and sharrows.

2.10. Permits

Permits shall be obtained for all work conducted within the City's right-of-way in accordance with TMC Chapter 10.22.

2.10.1. Annual Permits

Per Tacoma Municipal Code section 10.22.050 for entities that undertake regular, routine maintenance or other limited Work that physically impacts the Rights-of-Way or disrupts traffic in the Rights-of-Way not lasting more than one day, the

Director of Public Works, or their designee, may grant Annual Permits to allow for such Work without the need for obtaining individual Permits on each occasion. The Director of Public Works may, in their reasonable discretion, consistent with the needs of public safety and welfare, limit the kinds of Work that will be subject to Annual Permits and may attach conditions to the granting of any Annual Permits. Terms of Annual Permits shall be reviewed annually, and may be revised based on compliance with this policy or to address public safety needs. Permittees shall notify the Director 24 hours in advance of performing routine maintenance or other limited Work if the Work will impact traffic for more than one day or if lane closures are required during peak traffic hours. Permits issued for Work accomplished under an Annual Permit shall utilize traffic control in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) and the City's Traffic Control Manual and are not required to submit site specific traffic control plans for such Work.

2.11. Variances

Variances to this policy may be requested by completing the Right-of-Way Restoration Policy Variance Request form included in Appendix B and submitting it to the address on the form. The City will review the variance request and respond within 20 calendar days of receipt of the request. In case of an emergency, Permittee will be allowed a variance to this policy; however the Permittee shall complete the Right-of-Way Restoration Policy Variance Request form and submit it to the City within 24 hours of the emergency.

2.12. Franchise and Enterprise Utility Exceptions

Recognizing that Franchisees have a long term obligation to the City through their franchise agreement, the City has provided for exceptions to this policy under Appendix A. Recognizing that enterprise utilities are part of City government, the City of Tacoma has provided for exceptions to this policy under Appendix A.

3. Warranty Requirements

The Permittee shall provide a warranty period of one year and guarantee the workmanship and materials of all right-of-way elements incorporated into the project. The warranty period will commence upon the City closing the permit. The restoration shall be repaired as necessary until the warranty period has expired or the roadway is rehabilitated and the restoration has been removed or altered under a separate project.

3.1. Warranty Provisions

The Permittee will be determined to be in default of the warranty if any one of the following occurs:

1. Restorations have a rating of "medium" or "high" severity as described in the latest version of the "Pavement Surface Condition Field Rating Manual for Asphalt Pavements".
2. Placement of Hot Mix Asphalt does not meet the minimum compaction requirements of the current WSDOT Standard Specifications and Standard Plans.
3. Differential settlement occurs within an excavation or roadway subgrade

- during the warranty period.
4. Backfill material for roadway embankments, subgrades, or trenches does not meet the minimum compaction requirements of the current WSDOT Standard Specifications and Standard Plans.
 5. Any paved surfaces exhibit poor workmanship such as but not limited to raveling of asphalt, improper placement of joint sealant, and rideability.

3.2. Warranty Repairs

The City will notify the Permittee of any known defects. If the City Engineer, or designee, determines that deficient work poses an immediate public health and safety risk, the Permittee shall make the necessary repairs within 24 hours of receiving notification from the City. If the City Engineer, or designee, determines that the deficient work does not pose an immediate public health and safety risk, the Permittee shall submit a detailed plan of action including a detailed traffic control plan to the City Engineer, or designee, within 14 calendar days of receiving the notification. Upon written authorization to proceed with the repairs, the repairs shall be completed within 20 calendar days of the issuance of the permit. Permits shall be required for all repair work in accordance with section 2.10 of this Policy. If the defects are not corrected within the amount of time stated in this policy, the City reserves the right to correct the defects with either City forces or a third party contractor and recover all costs from the Permittee. If the Permittee does not reimburse the City for its costs within a reasonable time after presentment of an invoice/demand for payment, the City may withhold future permits applied for by the Permittee until such time as the Permittee satisfies its reimbursement obligation.

4. Temporary Surface Restorations

Temporary surface restorations shall be placed and maintained for all paved areas or streets. The Permittee shall complete permanent restorations within 60 calendar days of starting the work, unless otherwise approved by the City Engineer or designee.

Temporary surface restorations shall be placed in accordance with the Standard Plans. If the City Engineer, or designee, determines that the temporary surface restorations are deficient and pose an immediate public health and safety risk, the Permittee shall make the necessary repairs within 24 hours of receiving notification from the City.

If the City Engineer, or designee, determines that the deficient work does not pose an immediate public health and safety risk, the Permittee shall submit a detailed plan of action including a detailed traffic control plan to the City Engineer, or his/her designee, within 14 calendar days of receiving the notification . Upon written authorization to proceed with the repairs, the repairs shall be completed within 20 days of authorization.

If the defects are not corrected within the amount of time stated in this policy, the City reserves the right to correct the defects with either City forces or a third party contractor and recover all costs from the Permittee. If the Permittee does not reimburse the City for its costs within a reasonable time after presentment of an invoice/demand for payment, the City may withhold future permits applied for by the Permittee until such time as the

Permittee satisfies its reimbursement obligation.

5. Permanent Surface Restorations

Permanent surface restorations shall be completed in accordance with the Standard Plans. If a surface restoration falls within the boundaries of a previous restoration, the limits of the new restoration shall incorporate the previous restoration. Restoration of trench work in line with the travel lane shall extend from the edge of road, or travel lane to either the middle of the travel lane or the edge of travel lane and shall fall outside the wheel path. Prior to restoration, the Permittee shall contact the Planning and Development Services Department to determine the extent of their restoration. The Permittee, to the best of their ability, shall coordinate utility cuts and patches on their project such that only one patch is required. The Permittee responsible for the overall completion of a private development, such as commercial development, construction of single family homes, etc., shall be held responsible for the provisions of this policy.

6. Restoring Other Right-of-Way Elements

6.1. Gravel Surfaces

Gravel surfaces shall be permanently restored with three inches of Crushed Surfacing Base Course (CSBC) meeting the requirements of WSDOT Standard Specification section 9-03.9(3). The CSBC shall be graded to allow for surface water drainage as determined by the City Engineer or designee and shall be compacted to 95 percent of maximum density.

6.2. Cobblestone and Brick Streets

Restoration requirements of cobblestone and/or brick streets will be determined on a case by case basis by the City Engineer or designee within 20 days of the receipt of the request for determination from the Permittee.

6.3. Traffic Signal Vehicle and/or Bicycle Detection Devices and Street Light/ Signal Conduit

All traffic signal vehicle and/or bicycle detection devices and street light/signal conduit installed in the existing pavement shall be protected during construction. Any damage to existing detection devices or conduit as a result of construction shall be replaced following final pavement restoration in accordance with the Standard Plans.

The Permittee will be responsible for all costs incurred by the City in the repair or replacement of the traffic signal vehicle and/or bicycle detection loops and street light/signal conduit. Prior to start of construction, the Permittee shall contact 811 for assistance with locating and installing new detection loops and conduits.

6.4. Permeable Pavements

Permeable pavements are an element of Green Storm Infrastructure (GSI) which is intended to mimic natural systems and deliver multiple community benefits in addition to stormwater management. Permeable Pavements shall be restored per standard plan SU-14F and SU-15C. Permeable pavements may include roadway, sidewalks, accesses,

and driveways.

6.5. Traffic Channelization

All permanent traffic channelization and other pavement marking shall be restored following final pavement restoration in accordance with the standard plans.

6.6. Traffic Circles, Roundabouts and Speed Humps

Prior to removing traffic circles, roundabouts or speed humps, the Permittee shall provide advance notice of fourteen (14) calendar days to the Planning and Development Services Department.

6.6.1. Traffic Circles

Traffic Circles shall be restored in one-quarter sections and all affected sections shall be replaced. For pavement restoration purposes, the Permittee shall comply with the cut back zone requirements. All signage, pavement markings and reflectors shall be restored at the time of final restoration and approved temporary traffic control devices or provisions shall be implemented in the interim period prior to final restoration.

6.6.2. Roundabout

Roundabouts shall be restored to the nearest expansion joint and all affected sections shall be replaced. For pavement restoration purposes, the Permittee shall comply with the cut back zone requirements. All signage, pavement markings and reflectors shall be restored at the time of final restoration and approved temporary traffic control devices or provisions shall be implemented in the interim period prior to final restoration..

6.6.3. Speed Humps

All damaged or removed speed humps shall be restored in accordance with all pavement restoration requirements. Prior to restoring speed humps, the Permittee shall contact Planning and Development Services to authorize the location of the replaced speed hump. All signage, pavement markings and reflectors shall also be restored at the time of final restoration and approved temporary traffic control devices or provisions shall be implemented in the interim period prior to final restoration..

6.7. Sidewalk Restoration

6.7.1. Cement Concrete Sidewalk

Cement concrete sidewalk shall be constructed in accordance with the Standard Plans.

6.7.2. Asphalt Concrete Sidewalk

Asphalt concrete sidewalk shall be replaced in-kind in accordance with the cut back requirements for asphalt streets per the Standard Plans.

6.8. Curb Restoration

6.8.1. Cement Concrete Curb and or Gutter

Curb and gutters shall be constructed in accordance with the Standard Plans. For pavement restoration purposes, the Permittee shall comply with the cut back zone requirements.

6.8.2. Hot Mix Asphalt (HMA) Wedge Curb

HMA wedge curb is considered part of the pavement surface and shall be replaced in accordance with the Standard Plans. For pavement restoration purposes, the Permittee shall comply with the cut back zone requirements and the wedge curb shall be installed with the pavement surface during final restoration.

6.9. Sidewalk Ramps

All sidewalk ramps shall be designed by a licensed professional engineer, unless otherwise approved by the City Engineer or designee to comply with all federal and state regulations. If work performed by a Permittee alters the street, as defined by Public Rights-of-Way Accessibility Guidelines (PROWAG), and construction of sidewalk ramps are required, the ramps shall be constructed to comply with federal and state regulations. If curb and or sidewalk exist adjacent to a newly constructed sidewalk ramp and receiving sidewalk ramps do not exist; receiving ramps shall be designed and constructed in accordance with RCW 35.68.075.

6.10. Driveways

When work includes the removal and replacement of cement concrete driveways, the driveways shall be constructed in accordance with the Standard Plans.

6.11. Decorative Treatments and Special Pavements

Decorative and/or special surface treatments such as but not limited to stamped concrete, colored concrete, stamped asphalt, etc., for streets, alleys, curbs, gutters and other public areas shall be replaced as directed by the City Engineer or designee. The following criteria shall apply if replacement of decorative and/or special surface treatments is required:

6.11.1. Source of Supply

The Permittee shall verify a source of replacement material and submit samples and other information for review and approval as requested by the City Engineer or designee. The Permittee shall submit an alternative restoration plan for original matching materials not located. Construction may be granted after the restoration plan has been reviewed by the City Engineer or designee.

6.11.2. Photographic Documentation

The Permittee shall photograph the existing decorative or special surface treatment before restoration to ensure restoration is completed to its original condition and provide copies to the Planning and Development Services' Construction Inspector prior to permanent restoration.

6.11.3. Mortared Paving Materials

Bricks, cobblestones or pavers shall be removed to the nearest joint and, when required by the City re-used for restoration.

6.11.4. Brick Gutters

For Minor disruptions to the gutter line for service installations or maintenance to individual parcels, brick gutters shall be removed and replaced in-kind for the final restoration.

Appendix A

Right-of-Way Restoration Policy Franchise and Enterprise Utility Exceptions

Temporary Patches

Franchise and Enterprise Utilities may use cold mix asphalt for temporary patches immediately following excavation and fourteen (14) days thereafter. Temporary cold mix asphalt patches not permanently restored within fourteen (14) days shall be removed and replaced with temporary hot mix asphalt.

Extended Warranty of Restoration

Franchise and Enterprise Utilities may elect to provide the City with a warranty period of five (5) years and guarantee the workmanship and materials of all right-of-way elements incorporated into the project.

Franchise and Enterprise Utilities electing to provide the extended warranty on their restoration work shall indicate such in writing at the time the City issues a permit.

Extended warranties are subject to Section 3.0 Warranty Requirements of this policy.

Compaction

Franchise and Enterprise Utilities that elect to provide the City with a five (5) year warranty on their right-of-way restorations may reduce the level of in-situ density (compaction) testing efforts to the following:

1. Compaction testing of backfill material and hot mix asphalt will be required on 15% of the restoration work performed, as determined by the amount of work performed by the utility during the previous calendar year.
2. Franchise and Enterprise Utilities shall retain compaction reports for the duration of the warranty period and upon request submit them to the Planning and Development Services Department within 48 hours.

Appendix B



Public Works Department Right-of-Way Restoration Policy Variance Request Form

The undersigned requests a variance from the requirements set forth in the Right-of-Way Restoration Policy.

Submit to: City of Tacoma
Attn: Site and Building Division
747 Market St, Rm 620
Tacoma, WA 98402
sitedevelopment@cityoftacoma.org

Permit Number: _____

Location or Address of Variance Request: _____

Variance Requested for Policy Section(s): _____

Name of Permittee: _____ Phone: _____

Address of Permittee: _____

Email of Permittee: _____

City: _____ State: _____ Zip: _____

Date: _____

Please state below the reason for the request of variance. Include additional pages and supporting documentation, if necessary.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

Site and Building Representative Initials	Date

Site and Building Representative Initials	Date

Approved <input type="checkbox"/> Denied <input type="checkbox"/>	<div style="border-bottom: 1px solid black; display: flex; justify-content: space-between;"> City Engineer Date </div>
--	--

Approved <input type="checkbox"/> Denied <input type="checkbox"/>	<div style="border-bottom: 1px solid black; display: flex; justify-content: space-between;"> City Engineer Date </div>
--	--

PART IV

FEDERAL WAGE RATES

"General Decision Number: WA20200001 09/11/2020

Superseded General Decision Number: WA20190001

State: Washington

Construction Type: Highway

Counties: Washington Statewide.

HIGHWAY (Excludes D.O.E. Hanford Site in Benton and Franklin Counties)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	02/14/2020
2	02/28/2020
3	03/06/2020
4	03/13/2020
5	05/01/2020
6	07/03/2020
7	07/10/2020
8	07/24/2020
9	08/07/2020
10	08/14/2020
11	09/11/2020

CARP0003-006 06/01/2018

SOUTHWEST WASHINGTON: CLARK, COWLITZ, KLICKITAT, LEWIS(Piledriver only), PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to Willapa Bay to the Pacific Ocean), SKAMANIA, and WAHAKIUM Counties.

	Rates	Fringes
Carpenters:		
CARPENTERS.....	\$ 37.64	16.83
DIVERS TENDERS.....	\$ 43.73	16.83
DIVERS.....	\$ 87.73	16.83
DRYWALL.....	\$ 37.64	16.83
MILLWRIGHTS.....	\$ 38.17	16.83
PILEDRIERS.....	\$ 38.71	16.83

DEPTH PAY:

50 TO 100 FEET \$1.00 PER FOOT OVER 50 FEET
 101 TO 150 FEET \$1.50 PER FOOT OVER 101 FEET
 151 TO 200 FEET \$2.00 PER FOOT OVER 151 FEET

Zone Differential (Add up Zone 1 rates):

Zone 2 - \$0.85
 Zone 3 - 1.25
 Zone 4 - 1.70
 Zone 5 - 2.00
 Zone 6 - 3.00

BASEPOINTS: ASTORIA, LONGVIEW, PORTLAND, THE DALLES, AND VANCOUVER, (NOTE: All dispatches for Washington State Counties: Cowlitz, Wahkiakum and Pacific shall be from Longview Local #1707 and mileage shall be computed from that point.)

ZONE 1: Projects located within 30 miles of the respective city hall of the above mentioned cities
 ZONE 2: Projects located more than 30 miles and less than 40 miles of the respective city of the above mentioned cities
 ZONE 3: Projects located more than 40 miles and less than 50 miles of the respective city of the above mentioned cities
 ZONE 4: Projects located more than 50 miles and less than 60 miles of the respective city of the above mentioned cities.
 ZONE 5: Projects located more than 60 miles and less than 70 miles of the respective city of the above mentioned cities
 ZONE 6: Projects located more than 70 miles of the respected city of the above mentioned cities

CARP0030-004 06/01/2019

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM Counties

	Rates	Fringes
CARPENTER		
BRIDGE CARPENTERS.....	\$ 45.92	16.52
CARPENTERS ON CREOSOTE MATERIAL.....	\$ 46.02	16.52
CARPENTERS.....	\$ 45.92	16.52
DIVERS TENDER.....	\$ 50.79	16.52
DIVERS.....	\$ 99.68	16.52
MILLWRIGHT AND MACHINE ERECTORS.....	\$ 47.42	16.52
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED MATERIAL, ALL PILING.....	\$ 46.17	16.52

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS)

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

 CARP0059-002 06/01/2019

ADAMS, ASOTIN, BENTON, CHELAN (East of 120th meridian),
 COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT (East of
 120th meridian), KITTITAS (East of 120th meridian), LINCOLN,
 OKANOGAN (East of 120th meridian), PEND OREILLE, SPOKANE,
 STEVENS, WALLA WALLA, WHITMAN, and YAKIMA (East of 120th
 meridian) Counties

	Rates	Fringes
CARPENTER		
GROUP 1.....	\$ 35.47	16.88
GROUP 2.....	\$ 47.42	18.96
GROUP 3.....	\$ 36.66	16.88
GROUP 4.....	\$ 36.66	16.88
GROUP 5.....	\$ 83.96	16.88
GROUP 6.....	\$ 40.23	16.88
GROUP 7.....	\$ 41.23	16.88
GROUP 8.....	\$ 37.66	16.88
GROUP 9.....	\$ 44.23	16.88

CARPENTER & DIVER CLASSIFICATIONS:

GROUP 1: Carpenter

GROUP 2: Millwright, Machine Erector

GROUP 3: Piledriver - includes driving, pulling, cutting,
 placing collars, setting, welding, or creosote treated
 material, on all piling

GROUP 4: Bridge, Dock, and Wharf carpenters

GROUP 5: Diver Wet

GROUP 6: Diver Tender, Manifold Operator, ROV Operator

GROUP 7: Diver Standby

GROUP 8: Assistant Diver Tender, ROV Tender/Technician

GROUP 9: Manifold Operator-Mixed Gas

ZONE PAY:

ZONE 1	0-45 MILES	FREE
ZONE 2	45-100	\$4.00/PER HOUR
ZONE 3	OVER 100 MILES	\$6.00/PER HOUR

DISPATCH POINTS:

CARPENTERS/MILLWRIGHTS: PASCO (515 N Neel Street) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS/PILEDRIIVER: SPOKANE (127 E. AUGUSTA AVE.) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: WENATCHEE (27 N. CHELAN) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: COEUR D' ALENE (1839 N. GOVERNMENT WAY) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

CARPENTERS: MOSCOW (306 N. JACKSON) or Main Post Office of established residence of employee (Whichever is closest to the worksite).

DEPTH PAY FOR DIVERS BELOW WATER SURFACE:

50-100 feet \$2.00 per foot
 101-150 feet \$3.00 per foot
 151-220 feet \$4.00 per foot
 221 feet and deeper \$5.00 per foot

PREMIUM PAY FOR DIVING IN ENCLOSURES WITH NO VERTICAL ASCENT:

0-25 feet Free
 26-300 feet \$1.00 per Foot

SATURATION DIVING:

The standby rate applies until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. the diver rate shall be paid for all saturation hours.

WORK IN COMBINATION OF CLASSIFICATIONS:

Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

HAZMAT PROJECTS:

Anyone working on a HAZMAT job (task), where HAZMAT certification is required, shall be compensated at a premium, in addition to the classification working in as follows:

LEVEL D + \$.25 per hour - This is the lowest level of protection. No respirator is used and skin protection is minimal.

LEVEL C + \$.50 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B + \$.75 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit".

LEVEL A +\$1.00 per hour - This level utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line.

CARP0770-003 06/01/2019

WEST OF 120TH MERIDIAN FOR THE FOLLOWING COUNTIES:
CHELAN, DOUGLAS, GRANT, KITTITAS, OKANOGAN, and YAKIMA

	Rates	Fringes
CARPENTER		
CARPENTERS ON CREOSOTE		
MATERIAL.....	\$ 46.02	16.52
CARPENTERS.....	\$ 45.92	16.52
DIVERS TENDER.....	\$ 50.79	16.52
DIVERS.....	\$ 99.68	16.52
MILLWRIGHT AND MACHINE		
ERECTORS.....	\$ 47.42	16.52
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 46.17	16.52

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL
CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS

Hourly Zone Pay shall be paid on jobs located outside of the
free zone computed from the city center of the following
listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
26-35 radius miles	\$1.00/hour
36-45 radius miles	\$1.15/hour
46-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
26-45 radius miles	\$.70/hour
Over 45 radius miles	\$1.50/hour

* **ELEC0046-001 08/03/2020**

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 59.91	3%+21.46
ELECTRICIAN.....	\$ 58.78	3%+22.51

* ELEC0048-003 01/01/2020

CLARK, KLICKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 47.85	24.41

HOURLY ZONE PAY:

Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Portland, The Dalles, Hood River, Tillamook, Seaside and Astoria

Zone Pay:

Zone 1: 31-50 miles	\$1.50/hour
Zone 2: 51-70 miles	\$3.50/hour
Zone 3: 71-90 miles	\$5.50/hour
Zone 4: Beyond 90 miles	\$9.00/hour

*These are not miles driven. Zones are based on Delorme Street Atlas USA 2006 plus.

ELEC0048-029 01/01/2020

COWLITZ AND WAHKIAKUM COUNTY

	Rates	Fringes
CABLE SPLICER.....	\$ 44.22	21.50
ELECTRICIAN.....	\$ 47.85	24.41

 ELEC0073-001 01/01/2020

ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN
 COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 34.10	16.68
ELECTRICIAN.....	\$ 36.05	19.23

ELEC0076-002 08/31/2018

GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON
 COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 48.06	23.23
ELECTRICIAN.....	\$ 43.69	23.10

ELEC0112-005 06/01/2019

ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA
 WALLA, YAKIMA COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 48.35	21.13
ELECTRICIAN.....	\$ 46.05	21.06

ELEC0191-003 06/01/2020

ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 44.23	17.73
ELECTRICIAN.....	\$ 47.95	26.16

ELEC0191-004 06/01/2018

CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 40.82	17.63
ELECTRICIAN.....	\$ 42.45	21.34

ENGI0302-003 06/01/2020

CHELAN (WEST OF THE 120TH MERIDIAN), CLALLAM, DOUGLAS (WEST OF THE 120TH MERIDIAN), GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, KITTITAS, MASON, OKANOGAN (WEST OF THE 120TH MERIDIAN), SAN JUNA, SKAGIT, SNOHOMISH, WHATCOM AND YAKIMA (WEST OF THE 120TH MERIDIAN) COUNTIES

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Group 1A.....	\$ 48.41	22.47
Group 1AA.....	\$ 49.13	22.47
Group 1AAA.....	\$ 49.83	22.47
Group 1.....	\$ 47.70	22.47
Group 2.....	\$ 47.08	22.47
Group 3.....	\$ 46.55	22.47
Group 4.....	\$ 43.54	22.47

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) - \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: Aberdeen, Bellingham, Bremerton, Everett, Kent, Mount Vernon, Port Angeles, Port Townsend, Seattle, Shelton, Wenatchee, Yakima

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1AAA - Cranes-over 300 tons, or 300 ft of boom (including jib with attachments)

GROUP 1AA - Cranes 200 to 300 tons, or 250 ft of boom (including jib with attachments); Tower crane over 175 ft in height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons, under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead 6 yards to, but not including 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9, HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self propelled 45 yards and over; Slipform pavers; Transporters, all truck or track type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-Concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-overhead, bridge type-20 tons through 44 tons; Chipper; Concrete Pump-truck mount with boom attachment; Crusher; Deck Engineer/Deck Winches (power); Drilling machine; Excavator, shovel, backhoe-3yards and under; Finishing Machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Horizontal/directional drill operator; Loaders-overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics-all; Mixers-asphalt plant; Motor patrol graders-finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barber Green; Scraper-self propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrade trimmer; Tractors, backhoes-over 75 hp; Transfer material service machine-shuttle buggy, blaw knox-roadtec; Truck crane oiler/driver-100 tons and over; Truck Mount portable conveyor; Yo Yo Pay dozer

GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; A-frame crane over 10 tons; Drill oilers-auger type, truck or crane mount; Dozers-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loader-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pumps-concrete; Roller, plant mix or multi-lift materials; Saws-concrete; Scrapers-concrete and carry-all; Service engineer-equipment; Trenching machines; Truck Crane Oiler/Driver under 100 tons; Tractors, backhoe 75 hp and under

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete finish machine-laser screed; Cranes-A frame-10 tons and under; Elevator and Manlift-permanent or shaft type; Gradechecker, Stakehop; Forklifts under 3000 lbs. with attachments; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger, mechanical; Power plant; Pumps, water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

HANDLING OF HAZARDOUS WASTE MATERIALS:

Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing

H-2 Class "C" Suit - Base wage rate plus \$.25 per hour.

H-3 Class "B" Suit - Base wage rate plus \$.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$.75 per hour.

 ENGI0370-002 07/01/2019

ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN),
 COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY,
 FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH
 MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN
 AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES

ZONE 1:

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 28.46	17.25
GROUP 2.....	\$ 28.78	17.25
GROUP 3.....	\$ 29.39	17.25
GROUP 4.....	\$ 29.55	17.25
GROUP 5.....	\$ 29.71	17.25
GROUP 6.....	\$ 29.99	17.25
GROUP 7.....	\$ 30.26	17.25
GROUP 8.....	\$ 31.36	17.25

ZONE DIFFERENTIAL (Add to Zone 1 rate): Zone 2 - \$2.00

Zone 1: Within 45 mile radius of Spokane, Pasco, Washington;
 Lewiston, Idaho

Zone 2: Outside 45 mile radius of Spokane, Pasco,
 Washington; Lewiston, Idaho

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bit Grinders; Bolt Threading Machine; Compressors (under 2000 CFM, gas, diesel, or electric power); Deck Hand; Fireman & Heater Tender; Hydro-seeder, Mulcher, Nozzleman; Oiler Driver, & Cable Tender, Mucking Machine; Pumpman; Rollers, all types on subgrade, including seal and chip coatings (farm type, Case, John Deere & similar, or Compacting Vibrator), except when pulled by Dozer with operable blade; Welding Machine; Crane Oiler-Driver (CLD required) & Cable Tender, Mucking Machine

GROUP 2: A-frame Truck (single drum); Assistant Refrigeration Plant (under 1000 ton); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Belt Finishing Machine; Blower Operator (cement); Cement Hog; Compressor (2000 CFM or over, 2 or more, gas diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Ditch Witch or similar; Elevator Hoisting Materials; Dope Pots (power agitated); Fork Lift or Lumber Stacker, hydra-lift & similar; Gin Trucks (pipeline); Hoist, single drum; Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable-concrete); Pavement Breaker, Hydra-Hammer & similar; Power Broom; Railroad Ballast Regulation Operator (self-propelled); Railroad Power Tamper Operator (self-propelled); Railroad Tamper Jack Operator (self-propelled); Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross & similar on construction job only); Tractor (Farm type R/T with attachment, except Backhoe); Tugger Operator

GROUP 3: A-frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 ton); Backfillers (Cleveland & similar); Batch Plant & Wet Mix Operator, single unit (concrete); Belt-Crete Conveyors with power pack or similar; Belt Loader (Kocal or similar); Bending Machine; Bob Cat (Skid Steer); Boring Machine (earth); Boring Machine (rock under 8 inch bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginaw or similar); Canal Lining Machine (concrete); Chipper (without crane); Cleaning & Doping Machine (pipeline); Deck Engineer; Elevating Belt-type Loader (Euclid, Barber Green & similar); Elevating Grader-type Loader (Dumora, Adams or similar); Generator Plant Engineers (diesel or electric); Gunnite Combination Mixer & Compressor; Locomotive Engineer; Mixermobile; Mucking Machine; Posthole Auger or Punch; Pump (grout or jet); Soil Stabilizer (P & H or similar); Spreader Machine; Dozer/Tractor (up to D-6 or equivalent) and Traxcavator; Traverse Finish Machine; Turnhead Operator

GROUP 4: Concrete Pumps (squeeze-crete, flow-crete, pump-crete, Whitman & similar); Curb Extruder (asphalt or concrete); Drills (churn, core, calyx or diamond); Equipment Serviceman; Greaser & Oiler; Hoist (2 or more drums or Tower Hoist); Loaders (overhead & front-end, under 4 yds. R/T); Refrigeration Plant Engineer (under 1000 ton); Rubber-tired Skidders (R/T with or without attachments); Surface Heater & Plant Machine; Trenching Machines (under 7 ft. depth capacity); Turnhead (with re-screening); Vacuum Drill (reverse circulation drill under 8 inch bit)

GROUP 5: Backhoe (under 45,000 gw); Backhoe & Hoe Ram (under 3/4 yd.); Carrydeck & Boom Truck (under 25 tons); Cranes (25 tons & under), all attachments including clamshell, dragline; Derricks & Stifflegs (under 65 tons); Drilling Equipment (8 inch bit & over) (Robbins, reverse circulation & similar); Hoe Ram; Piledriving Engineers; Paving (dual drum); Railroad Track Liner Operator (self-propelled); Refrigeration Plant Engineer (1000 tons & over); Signalman (Whirleys, Highline Hammerheads or similar); Grade Checker

GROUP 6: Asphalt Plant Operator; Automatic Subgrader (Ditches & Trimmers) (Autograde, ABC, R.A. Hansen & similar on grade wire); Backhoe (45,000 gw and over to 110,000 gw); Backhoes & Hoe Ram (3/4 yd. to 3 yd.); Batch Plant (over 4 units); Batch & Wet Mix Operator (multiple units, 2 & incl. 4); Blade Operator (motor patrol & attachments); Cable Controller (dispatcher); Compactor (self-propelled with blade); Concrete Pump Boom Truck; Concrete Slip Form Paver; Cranes (over 25 tons, to and including 45 tons), all attachments including clamshell, dragline; Crusher, Grizzle & Screening Plant Operator; Dozer, 834 R/T & similar; Drill Doctor; Loader Operator (front-end & overhead, 4 yds. incl. 8 yds.); Multiple Dozer Units with single blade; Paving Machine (asphalt and concrete); Quad-Track or similar equipment; Rollerman (finishing asphalt pavement); Roto Mill (pavement grinder); Scrapers, all, rubber-tired; Screed Operator; Shovel (under 3 yds.); Trenching Machines (7 ft. depth & over); Tug Boat Operator Vactor guzzler, super sucker; Lime Batch Tank Operator (REcycle Train); Lime Brain Operator (Recycle Train); Mobile Crusher Operator (Recycle Train)

GROUP 7: Backhoe (over 110,000 gw); Backhoes & Hoe Ram (3 yds & over); Blade (finish & bluetop) Automatic, CMI, ABC, Finish Athey & Huber & similar when used as automatic; Cableway Operators; Concrete Cleaning/Decontamination machine operator; Cranes (over 45 tons to but not including 85 tons), all attachments including clamshell and dragline; Derricks & Stiffleys (65 tons & over); Elevating Belt (Holland type); Heavy equipment robotics operator; Loader (360 degrees revolving Koehring Scooper or similar); Loaders (overhead & front-end, over 8 yds. to 10 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3 yds. & over); Whirleys & Hammerheads, ALL; H.D. Mechanic; H.D. Welder; Hydraulic Platform Trailers (Goldhofer, Shaurerly and Similar); Ultra High Pressure Waterjet Cutting Tool System Operator (30,000 psi); Vacuum Blasting Machine Operator

GROUP 8: Cranes (85 tons and over, and all climbing, overhead, rail and tower), all attachments including clamshell, dragline; Loaders (overhead and front-end, 10 yards and over); Helicopter Pilot

BOOM PAY: (All Cranes, Including Tower)
 180 ft to 250 ft \$.50 over scale
 Over 250 ft \$.80 over scale

NOTE:

In computing the length of the boom on Tower Cranes, they shall be measured from the base of the Tower to the point of the boom.

HAZMAT:

Anyone working on HAZMAT jobs, working with supplied air shall receive \$1.00 an hour above classification.

 ENGI0612-001 09/28/2018

PIERCE County

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1A.....	\$ 44.44	19.97
GROUP 1AA.....	\$ 45.09	19.97
GROUP 1AAA.....	\$ 45.73	19.97
GROUP 1.....	\$ 43.79	19.97
GROUP 2.....	\$ 43.23	19.97
GROUP 3.....	\$ 42.74	19.97
GROUP 4.....	\$ 40.01	19.97

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes- 200 tons to 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in
height, base to boom)

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge
type, 100 tons and over; Tower crane up to 175 ft in height
base to boom; Loaders-overhead, 8 yards and over; Shovels,
excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft
of boom (including jib with attachments); Crane-overhead,
bridge type, 45 tons thru 99 tons; Derricks on building
work; Excavator, shovel, backhoes over 3 yards and under 6
yards; Hard tail end dump articulating off-road equipment
45 yards and over; Loader- overhead, 6 yards to, but not
including, 8 yards; Mucking machine, mole, tunnel, drill
and/or shield; Quad 9 HD 41, D-10; Remote control operator
on rubber tired earth moving equipment; Rollagon; Scrapers-
self-propelled 45 yards and over; Slipform pavers;
Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-
concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with
attachments; Crane-Overhead, bridge type, 20 tons through
44 tons; Chipper; Concrete pump-truck mount with boom
attachment; Crusher; Deck engineer/deck winches (power);
Drilling machine; Excavator, shovel, backhoe-3 yards and
under; Finishing machine, Bidwell, Gamaco and similar
equipment; Guardrail punch; Loaders, overhead under 6
yards; Loaders-plant feed; Locomotives-all; Mechanics- all;
Mixers, asphalt plant; Motor patrol graders, finishing;
Piledriver (other than crane mount); Roto-mill, roto-
grinder; Screedman, spreader, topside operator-Blaw Knox,
Cedar Rapids, Jaeger, Caterpillar, Barber Green;
Scraper-self- propelled, hard tail end dump, articulating
off-road equipment- under 45 yards; Subgrader trimmer;
Tractors, backhoe over 75 hp; Transfer material service
machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane
oiler/driver-100 tons and over; Truck Mount Portable
Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lfit materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing, Class "D" Suit - Base wage rate plus \$.50 per hour.

H-2 Class "C" Suit - Base wage rate plus \$1.00 per hour.

H-3 Class "B" Suit - Base wage rate plus \$1.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$2.00 per hour.

ENGI0612-012 09/28/2018

LEWIS, PACIFIC (portion lying north of a parallel line extending west from the northern boundary of Wahkaikum County to the sea) AND THURSTON COUNTIES

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1A.....	\$ 44.44	19.97
GROUP 1AA.....	\$ 45.09	19.97
GROUP 1AAA.....	\$ 45.73	19.97
GROUP 1.....	\$ 43.79	19.97
GROUP 2.....	\$ 43.23	19.97
GROUP 3.....	\$ 42.74	19.97
GROUP 4.....	\$ 40.01	19.97

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$1.00

Zone 3 (Over 45 radius miles) - \$1.30

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom
(including jib with attachments)

GROUP 1AA - Cranes- 200 tons to 300 tons, or 250 ft of boom
(including jib with attachments; Tower crane over 175 ft in height, base to boom)

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom
(including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead, 6 yards to, but not including, 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9 HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self-propelled 45 yards and over; Slipform pavers; Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-Overhead, bridge type, 20 tons through 44 tons; Chipper; Concrete pump-truck mount with boom attachment; Crusher; Deck engineer/deck winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Loaders, overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics- all; Mixers, asphalt plant; Motor patrol graders, finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self- propelled, hard tail end dump, articulating off-road equipment- under 45 yards; Subgrader trimmer; Tractors, backhoe over 75 hp; Transfer material service machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane oiler/driver-100 tons and over; Truck Mount Portable Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lfit materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakehop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.
3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing, Class "D" Suit - Base wage rate plus \$.50 per hour.

H-2 Class "C" Suit - Base wage rate plus \$1.00 per hour.

H-3 Class "B" Suit - Base wage rate plus \$1.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$2.00 per hour.

ENGI0701-002 01/01/2018

CLARK, COWLITZ, KLIKKITAT, PACIFIC (SOUTH), SKAMANIA, AND WAHIAKUM COUNTIES

POWER EQUIPMENT OPERATORS: ZONE 1

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 41.65	14.35
GROUP 1A.....	\$ 43.73	14.35
GROUP 1B.....	\$ 45.82	14.35
GROUP 2.....	\$ 39.74	14.35
GROUP 3.....	\$ 38.59	14.35
GROUP 4.....	\$ 37.51	14.35
GROUP 5.....	\$ 36.27	14.35
GROUP 6.....	\$ 33.05	14.35

Zone Differential (add to Zone 1 rates):

Zone 2 - \$3.00

Zone 3 - \$6.00

For the following metropolitan counties: MULTNOMAH; CLACKAMAS; MARION; WASHINGTON; YAMHILL; AND COLUMBIA; CLARK; AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS INDICATED:

All jobs or projects located in Multnomah, Clackamas and Marion Counties, West of the western boundary of Mt. Hood National Forest and West of Mile Post 30 on Interstate 84 and West of Mile Post 30 on State Highway 26 and West of Mile Post 30 on Highway 22 and all jobs or projects located in Yamhill County, Washington County and Columbia County and all jobs or projects located in Clark & Cowlitz County, Washington except that portion of Cowlitz County in the Mt. St. Helens "Blast Zone" shall receive Zone I pay for all classifications.

All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; BEND; COOS BAY; EUGENE; GRANTS PASS; KLAMATH FALLS; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive Zone I pay for all classifications.

All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

Group 1

Concrete Batch Plant and or Wet mix three (3) units or more; Crane, Floating one hundred and fifty (150) ton but less than two hundred and fifty (250) ton; Crane, two hundred (200) ton through two hundred ninety nine (299) ton with two hundred foot (200') boom or less (including jib, inserts and/or attachments); Crane, ninety (90) ton through one hundred ninety nine (199) ton with over two hundred (200') boom Including jib, inserts and/or attachments); Crane, Tower Crane with one hundred seventy five foot (175') tower or less and with less than two hundred foot (200') jib; Crane, Whirley ninety (90) ton and over; Helicopter when used in erecting work

Group 1A

Crane, floating two hundred fifty (250) ton and over; Crane, two hundred (200) ton through two hundred ninety nine (299) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Crane, three hundred (300) ton through three hundred ninety nine (399) ton; Crane, Tower Crane with over one hundred seventy five foot (175') tower or over two hundred foot (200') jib; Crane, tower Crane on rail system or 2nd tower or more in work radius

Group 1B

Crane, three hundred (300) ton through three hundred ninety nine (399) ton, with over two hundred foot (200') boom (including jib, inserts and/or attachments); Floating crane, three hundred fifty (350) ton and over; Crane, four hundred (400) ton and over

Group 2

Asphalt Plant (any type); Asphalt Roto-Mill, pavement profiler eight foot (8') lateral cut and over; Auto Grader or "Trimmer"; Blade, Robotic; Bulldozer, Robotic Equipment (any type); Bulldozer, over one hundred twenty thousand (120,000) lbs. and above; Concrete Batch Plant and/or Wet Mix one (1) and two (2) drum; Concrete Diamond Head Profiler; Canal Trimmer; Concrete, Automatic Slip Form Paver (Assistant to the Operator required); Crane, Boom Truck fifty (50) ton and with over one hundred fifty foot (150') boom and over; Crane, Floating (derrick barge) thirty (30) ton but less than one hundred fifty (150) ton; Crane, Cableway twenty-five (25) ton and over; Crane, Floating Clamshell three (3) cu. Yds. And over; Crane, ninety (90) ton through one hundred ninety nine (199) ton up to and including two hundred foot (200') of boom (including jib inserts and/or attachments); Crane, fifty (50) ton through eighty nine (89) ton with over one hundred fifty foot (150') boom (including jib inserts and/or attachments); Crane, Whirley under ninety (90) ton; Crusher Plant; Excavator over one hundred thirty thousand (130,000) lbs.; Loader one hundred twenty thousand (120,000) lbs. and above; Remote Controlled Earth Moving Equipment; Shovel, Dragline, Clamshell, five (5) cu. Yds. And over; Underwater Equipment remote or otherwise, when used in construction work; Wheel Excavator any size

Group 3

Bulldozer, over seventy thousand (70,000) lbs. up to and including one hundred twenty thousand (120,000) lbs.; Crane, Boom Truck fifty (50) ton and over with less than one hundred fifty foot (150') boom; Crane, fifty (50) ton through eighty nine (89) ton with one hundred fifty foot (150') boom or less (including jib inserts and/or attachments); Crane, Shovel, Dragline or Clamshell three (3) cu. yds. but less than five (5) cu. Yds.; Excavator over eighty thousand (80,000) lbs. through one hundred thirty thousand (130,000) lbs.; Loader sixty thousand (60,000) lbs. and less than one hundred twenty thousand (120,000) lbs.

Group 4

Asphalt, Screed; Asphalt Paver; Asphalt Roto-Mill, pavement profiler, under eight foot (8') lateral cut; Asphalt, Material Transfer Vehicle Operator; Back Filling Machine; Backhoe, Robotic, track and wheel type up to and including twenty thousand (20,000) lbs. with any attachments; Blade (any type); Boatman; Boring Machine; Bulldozer over twenty thousand (20,000) lbs. and more than one hundred (100) horse up to seventy thousand (70,000) lbs.; Cable-Plow (any type); Cableway up to twenty five (25) ton; Cat Drill (John Henry); Chippers; Compactor, multi-engine; Compactor, Robotic; Compactor with blade self-propelled; Concrete, Breaker; Concrete, Grout Plant; Concrete, Mixer Mobile; Concrete, Paving Road Mixer; Concrete, Reinforced Tank Banding Machine; Crane, Boom Truck twenty (20) ton and under fifty (50) ton; Crane, Bridge Locomotive, Gantry and Overhead; Crane, Carry Deck; Crane, Chicago Boom and similar types; Crane, Derrick Operator, under one hundred (100) ton; Crane, Floating Clamshell, Dragline, etc. Operator, under three (3) cu. yds. Or less than thirty (30) ton; Crane, under fifty (50) ton; Crane, Quick Tower under one hundred foot (100') in height and less than one hundred fifty foot (150') jib (on rail included); Diesel-Electric Engineer (Plant or Floating); Directional Drill over twenty thousand (20,000) lbs. pullback; Drill Cat Operator; Drill Doctor and/or Bit Grinder; Driller, Percussion, Diamond, Core, Cable, Rotary and similar type; Excavator Operator over twenty thousand (20,000) lbs. through eighty thousand (80,000) lbs.; Generator Operator; Grade-all; Guardrail Machines, i.e. punch, auger, etc.; Hammer Operator (Piledriver); Hoist, stiff leg, guy derrick or similar type, fifty (50) ton and over; Hoist, two (2) drums or more; Hydro Axe (loader mounted or similar type); Jack Operator, Elevating Barges, Barge Operator, self-unloading; Loader Operator, front end and overhead, twenty five thousand (25,000) lbs. and less than sixty thousand (60,000) lbs.; Log Skidders; Piledriver Operator (not crane type); Pipe, Bending, Cleaning, Doping and Wrapping Machines; Rail, Ballast Tamper Multi-Purpose; Rubber-tired Dozers and Pushers; Scraper, all types; Side-Boom; Skip Loader, Drag Box; Strump Grinder (loader mounted or similar type); Surface Heater and Planer; Tractor, rubber-tired, over fifty (50) HP Flywheel; Trenching Machine three foot (3') depth and deeper; Tub Grinder (used for wood debris); Tunnel Boring Machine Mechanic; Tunnel, Mucking Machine; Ultra High Pressure Water Jet Cutting Tool System Operator; Vacuum Blasting Machine Operator; Water pulls, Water wagons

Group 5

Asphalt, Extrusion Machine; Asphalt, Roller (any asphalt mix); Asphalt, Roto-Mill pavement profiler ground man; Bulldozer, twenty thousand (20,000) lbs. or less, or one hundred (100) horse or less; Cement Pump; Chip Spreading Machine; Churn Drill and Earth Boring Machine; Compactor, self-propelled without blade; Compressor, (any power) one thousand two hundred fifty (1,250) cu. ft. and over, total capacity; Concrete, Batch Plant Quality control; Concrete, Combination Mixer and compressor operator, gunite work; Concrete, Curb Machine, Mechanical Berm, Curb and/or Curb and Gutter; Concrete, Finishing Machine; Concrete, Grouting Machine; Concrete, Internal Full Slab Vibrator Operator; Concrete, Joint Machine; Concrete, Mixer single drum, any capacity; Concrete, Paving Machine eight foot (8') or less; Concrete, Planer; Concrete, Pump; Concrete, Pump Truck; Concrete, Pumpcrete Operator (any type); Concrete, Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Conveyored Material Hauler; Crane, Boom Truck under twenty (20) tons; Crane, Boom Type lifting device, five (5) ton capacity or less; Drill, Directional type less than twenty thousand (20,000) lbs. pullback; Fork Lift, over ten (10) ton or Robotic; Helicopter Hoist; Hoist Operator, single drum; Hydraulic Backhoe track type up to and including twenty thousand (20,000) lbs.; Hydraulic Backhoe wheel type (any make); Laser Screed; Loaders, rubber-tired type, less than twenty five thousand (25,000) lbs.; Pavement Grinder and/or Grooving Machine (riding type); Pipe, cast in place Pipe Laying Machine; Pulva-Mixer or similar types; Pump Operator, more than five (5) pumps (any size); Rail, Ballast Compactor, Regulator, or Tamper machines; Service Oiler (Greaser); Sweeper Self-Propelled; Tractor, Rubber-Tired, fifty (50) HP flywheel and under; Trenching Machine Operator, maximum digging capacity three foot (3') depth; Tunnel, Locomotive, Dinkey; Tunnel, Power Jumbo setting slip forms, etc.

Group 6

Asphalt, Pugmill (any type); Asphalt, Raker; Asphalt, Truck Mounted Asphalt Spreader, with Screed; Auger Oiler; Boatman; Bobcat, skid steer (less than one (1) yard); Broom, self-propelled; Compressor Operator (any power) under 1,250 cu. ft. total capacity; Concrete Curing Machine (riding type); Concrete Saw; Conveyor Operator or Assistant; Crane, Tugger; Crusher Feeder; Crusher Oiler; Deckhand; Drill, Directional Locator; Fork Lift; Grade Checker; Guardrail Punch Oiler; Hydrographic Seeder Machine, straw, pulp or seed; Hydrostatic Pump Operator; Mixer Box (CTB, dry batch, etc.); Oiler; Plant Oiler; Pump (any power); Rail, Brakeman, Switchman, Motorman; Rail, Tamping Machine, mechanical, self-propelled; Rigger; Roller grading (not asphalt); Truck, Crane Oiler-Driver

IRON0014-005 07/01/2019

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,
GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE,
STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.59	29.26

IRON0029-002 05/01/2018

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHKAUKUM
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.00	27.87

IRON0086-002 07/01/2019

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.59	29.26

IRON0086-004 07/01/2019

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 42.35	29.56

LABO0238-004 06/01/2020

PASCO AREA: ADAMS, BENTON, COLUMBIA, DOUGLAS (East of 120th Meridian), FERRY, FRANKLIN, GRANT, OKANOGAN, WALLA WALLA

SPOKANE AREA: ASOTIN, GARFIELD, LINCOLN, PEND OREILLE, SPOKANE, STEVENS & WHITMAN COUNTIES

	Rates	Fringes
LABORER (PASCO)		
GROUP 1.....	\$ 26.69	13.65
GROUP 2.....	\$ 28.79	13.65
GROUP 3.....	\$ 29.06	13.65
GROUP 4.....	\$ 29.33	13.65
GROUP 5.....	\$ 29.61	13.65
LABORER (SPOKANE)		
GROUP 1.....	\$ 26.69	13.65
GROUP 2.....	\$ 28.79	13.65
GROUP 3.....	\$ 29.06	13.65
GROUP 4.....	\$ 29.33	13.65
GROUP 5.....	\$ 29.61	13.65

Zone Differential (Add to Zone 1 rate): \$2.00

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office.

LABORERS CLASSIFICATIONS

GROUP 1: Flagman; Landscape Laborer; Scaleman; Traffic Control Maintenance Laborer (to include erection and maintenance of barricades, signs and relief of flagperson); Window Washer/Cleaner (detail cleanup, such as, but not limited to cleaning floors, ceilings, walls, windows, etc. prior to final acceptance by the owner)

GROUP 2: Asbestos Abatement Worker; Brush Hog Feeder; Carpenter Tender; Cement Handler; Clean-up Laborer; Concrete Crewman (to include stripping of forms, hand operating jacks on slip form construction, application of concrete curing compounds, pumpcrete machine, signaling, handling the nozzle of squeezecrete or similar machine, 6 inches and smaller); Confined Space Attendant; Concrete Signalman; Crusher Feeder; Demolition (to include clean-up, burning, loading, wrecking and salvage of all material); Dumpman; Fence Erector; Firewatch; Form Cleaning Machine Feeder; Stacker; General Laborer; Grout Machine Header Tender; Guard Rail (to include guard rails, guide and reference posts, sign posts, and right-of-way markers); Hazardous Waste Worker, Level D (no respirator is used and skin protection is minimal); Miner, Class "A" (to include

all bull gang, concrete crewman, dumpman and pumpcrete crewman, including distributing pipe, assembly & dismantle, and nipper); Nipper; Riprap Man; Sandblast Tailhoseman; Scaffold Erector (wood or steel); Stake Jumper; Structural Mover (to include separating foundation, preparation, cribbing, shoring, jacking and unloading of structures); Tailhoseman (water nozzle); Timber Bucker and Faller (by hand); Track Laborer (RR); Truck Loader; Well-Point Man; All Other Work Classifications Not Specially Listed Shall Be Classified As General Laborer

GROUP 3: Asphalt Roller, walking; Cement Finisher Tender; Concrete Saw, walking; Demolition Torch; Dope Pot Firemen, non-mechanical; Driller Tender (when required to move and position machine); Form Setter, Paving; Grade Checker using level; Hazardous Waste Worker, Level C (uses a chemical "splash suit" and air purifying respirator); Jackhammer Operator; Miner, Class "B" (to include brakeman, finisher, vibrator, form setter); Nozzleman (to include squeeze and flo-crete nozzle); Nozzleman, water, air or steam; Pavement Breaker (under 90 lbs.); Pipelayer, corrugated metal culvert; Pipelayer, multi-plate; Pot Tender; Power Buggy Operator; Power Tool Operator, gas, electric, pneumatic; Railroad Equipment, power driven, except dual mobile power spiker or puller; Railroad Power Spiker or Puller, dual mobile; Rodder and Spreader; Tamper (to include operation of Barco, Essex and similar tampers); Trencher, Shawnee; Tugger Operator; Wagon Drills; Water Pipe Liner; Wheelbarrow (power driven)

GROUP 4: Air and Hydraulic Track Drill; Asphalt Raker; Brush Machine (to include horizontal construction joint cleanup brush machine, power propelled); Caisson Worker, free air; Chain Saw Operator and Faller; Concrete Stack (to include laborers when laborers working on free standing concrete stacks for smoke or fume control above 40 feet high); Guniting (to include operation of machine and nozzle); Hazardous Waste Worker, Level B (uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Laser Beam Operator (to include grade checker and elevation control); Miner, Class C (to include miner, nozzleman for concrete, laser beam operator and rigger on tunnels); Monitor Operator (air track or similar mounting); Mortar Mixer; Nozzleman (to include jet blasting nozzleman, over 1,200 lbs., jet blast machine power propelled, sandblast nozzle); Pavement Breaker (90 lbs. and over); Pipelayer (to include working topman, caulker, collarman, jointer, mortarman, rigger, jacker, shorer, valve or meter installer); Pipewrapper; Plasterer Tender; Vibrators (all)

GROUP 5 - Drills with Dual Masts; Hazardous Waste Worker, Level A (utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line); Miner Class "D", (to include raise and shaft miner, laser beam operator on raises and shafts)

LABO0238-006 06/01/2019

COUNTIES EAST OF THE 120TH MERIDIAN: ADAMS, ASOTIN, BENTON,
CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT,
LINCOLN, OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA,
WHITMAN

	Rates	Fringes
Hod Carrier.....	\$ 27.95	12.90

LABO0242-003 06/01/2020

KING COUNTY

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.78	12.35
GROUP 2A.....	\$ 31.82	12.35
GROUP 3.....	\$ 39.81	12.35
GROUP 4.....	\$ 40.77	12.35
GROUP 5.....	\$ 41.43	12.35
Group 6.....	\$ 41.43	12.35

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall

ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)

GROUP 2A: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

Group 6: Miner

LABO0252-010 06/01/2020

CLALLAM, GRAYS HARBOR, JEFFERSON, KITSAP, LEWIS, MASON, PACIFIC
(EXCLUDING SOUTHWEST), PIERCE, AND THURSTON COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.78	12.44
GROUP 2.....	\$ 31.82	12.44
GROUP 3.....	\$ 39.81	12.44
GROUP 4.....	\$ 40.77	12.44
GROUP 5.....	\$ 41.43	12.44

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall

ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window
Washer/Cleaner (detail clean-up, such as but not limited to
cleaning floors, ceilings, walls, windows, etc., prior to
final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer;
Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Grade Checker and Transit Person; High Scaler; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

LABO0292-008 06/01/2020

ISLAND, SAN JUAN, SKAGIT, SNOHOMISH, AND WHATCOM COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 27.78	12.44
GROUP 2.....	\$ 31.82	12.44
GROUP 3.....	\$ 39.81	12.44
GROUP 4.....	\$ 40.77	12.44
GROUP 5.....	\$ 41.43	12.44

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall
ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall
ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall
ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window
Washer/Cleaner (detail clean-up, such as but not limited to
cleaning floors, ceilings, walls, windows, etc., prior to
final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer;
Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

LABO0335-001 06/01/2020

CLARK, COWLITZ, KLUCKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHIAKUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHIAKUM COUNTIES

	Rates	Fringes
Laborers:		
ZONE 1:		
GROUP 1.....	\$ 34.93	12.44
GROUP 2.....	\$ 35.65	12.44
GROUP 3.....	\$ 36.20	12.44
GROUP 4.....	\$ 36.66	12.44
GROUP 5.....	\$ 31.93	12.44
GROUP 6.....	\$ 29.01	12.44
GROUP 7.....	\$ 25.14	12.44

Zone Differential (Add to Zone 1 rates):

Zone 2 \$ 0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city all.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Plant Laborers; Asphalt Spreaders; Batch Weighman; Broomers; Brush Burners and Cutters; Car and Truck Loaders; Carpenter Tender; Change-House Man or Dry Shack Man; Choker Setter; Clean-up Laborers; Curing, Concrete; Demolition, Wrecking and Moving Laborers; Dumpers, road oiling crew; Dumpmen (for grading crew); Elevator Feeders; Median Rail Reference Post, Guide Post, Right of Way Marker; Fine Graders; Fire Watch; Form Strippers (not swinging stages); General Laborers; Hazardous Waste Worker; Leverman or Aggregate Spreader (Flaherty and similar types); Loading Spotters; Material Yard Man (including electrical); Pittsburgh Chipper Operator or Similar Types; Railroad Track Laborers; Ribbon Setters (including steel forms); Rip Rap Man (hand placed); Road Pump Tender; Sewer Labor; Signalman; Skipman; Slopers; Spraymen; Stake Chaser; Stockpiler; Tie Back Shoring; Timber Faller and Bucker (hand labor); Toolroom Man (at job site); Tunnel Bullgang (above ground); Weight-Man- Crusher (aggregate when used)

GROUP 2: Applicator (including pot power tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Brush Cutters (power saw); Burners; Choker Splicer; Clary Power Spreader and similar types; Clean- up Nozzleman-Green Cutter (concrete, rock, etc.); Concrete Power Buggyman; Concrete Laborer; Crusher Feeder; Demolition and Wrecking Charred Materials; Gunitite Nozzleman Tender; Gunitite or Sand Blasting Pot Tender; Handlers or Mixers of all Materials of an irritating nature (including cement and lime); Tool Operators (includes but not limited to: Dry Pack Machine; Jackhammer; Chipping Guns; Paving Breakers); Pipe Doping and Wrapping; Post Hole Digger, air, gas or electric; Vibrating Screed; Tampers; Sand Blasting (Wet); Stake-Setter; Tunnel-Muckers, Brakemen, Concrete Crew, Bullgang (underground)

GROUP 3: Asbestos Removal; Bit Grinder; Drill Doctor; Drill Operators, air tracks, cat drills, wagon drills, rubber-mounted drills, and other similar types including at crusher plants; Gunitite Nozzleman; High Scalars, Strippers and Drillers (covers work in swinging stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping); Manhole Builder; Powdermen; Concrete Saw Operator; Powdermen; Power Saw Operators (Bucking and Falling); Pumpcrete Nozzlemen; Sand Blasting (Dry); Sewer Timberman; Track Liners, Anchor Machines, Ballast Regulators, Multiple Tampers, Power Jacks, Tugger Operator; Tunnel-Chuck Tenders, Nippers and Timbermen; Vibrator; Water Blaster

GROUP 4: Asphalt Raker; Concrete Saw Operator (walls); Concrete Nozzelman; Grade Checker; Pipelayer; Laser Beam (pipelaying)-applicable when employee assigned to move, set up, align; Laser Beam; Tunnel Miners; Motorman-Dinky Locomotive-Tunnel; Powderman-Tunnel; Shield Operator-Tunnel

GROUP 5: Traffic Flaggers

GROUP 6: Fence Builders

GROUP 7: Landscaping or Planting Laborers

LAB00335-019 06/01/2020

	Rates	Fringes
Hod Carrier.....	\$ 34.93	12.44

LABO0348-003 06/01/2020

CHELAN, DOUGLAS (W OF 12TH MERIDIAN), KITTITAS, AND YAKIMA
COUNTIES

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 23.68	12.44
GROUP 2.....	\$ 27.17	12.44
GROUP 3.....	\$ 29.74	12.44
GROUP 4.....	\$ 30.46	12.44
GROUP 5.....	\$ 30.99	12.44

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT,
TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT.
TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 but less than 45 radius miles from the
respective city hall

ZONE 3 - More than 45 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$1.00

ZONE 3 - \$1.30

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective
city hall

ZONE 2 - More than 25 radius miles from the respective city
hall

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$2.25

LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window
Washer/Cleaner (detail clean-up, such as but not limited to
cleaning floors, ceilings, walls, windows, etc., prior to
final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer;
Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C: uses a chemical "splash suit" and air purifying respirator); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B: uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Mortarman and Hodcarrier; Powderman; Re-Timberman; Hazardous Waste Worker (Level A: utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line).

PAIN0005-002 07/01/2020

STATEWIDE EXCEPT CLARK, COWLITZ, KLINKITAT, PACIFIC (SOUTH),
SKAMANIA, AND WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
STRIPERS.....	\$ 31.90	17.23

PAIN0005-004 03/01/2009

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,
MASON, PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND
WHATCOM COUNTIES

	Rates	Fringes
PAINTER.....	\$ 20.82	7.44

* PAIN0005-006 07/01/2018

ADAMS, ASOTIN; BENTON AND FRANKLIN (EXCEPT HANFORD SITE);
CHELAN, COLUMBIA, DOUGLAS, FERRY, GARFIELD, GRANT, KITTITAS,
LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA,
WHITMAN AND YAKIMA COUNTIES

	Rates	Fringes
PAINTER		
Application of Cold Tar		
Products, Epoxies, Polyure		
thanes, Acids, Radiation		
Resistant Material, Water		
and Sandblasting.....	\$ 30.19	11.71
Over 30'/Swing Stage Work..	\$ 22.20	7.98
Brush, Roller, Striping,		
Steam-cleaning and Spray....	\$ 22.94	11.61
Lead Abatement, Asbestos		
Abatement.....	\$ 21.50	7.98

*\$.70 shall be paid over and above the basic wage rates
listed for work on swing stages and high work of over 30
feet.

PAIN0055-003 07/01/2019

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHIAKUM
COUNTIES

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 25.14	12.90
Spray and Sandblasting.....	\$ 25.14	12.90

All high work over 60 ft. = base rate + \$0.75

PAIN0055-006 03/01/2020

CLARK, COWLITZ, KLINKITAT, SKAMANIA and WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY & PARKING LOT		
STRIPER.....	\$ 35.87	13.40

PLAS0072-004 06/01/2020

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY,
FRANKLIN, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND
OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN, AND YAKIMA
COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1.....	\$ 31.30	15.53

Zone Differential (Add to Zone 1 rate): Zone 2 - \$2.00

BASE POINTS: Spokane, Pasco, Lewiston; Wenatchee

Zone 1: 0 - 45 radius miles from the main post office

Zone 2: Over 45 radius miles from the main post office

PLAS0528-001 06/01/2020

CLALLAM, COWLITZ, GRAYS HARBOR, ISLAND, JEFFERSON, KING,
KITSAP, LEWIS, MASON, PACIFIC, PIERCE, SAN JUAN, SKAGIT,
SNOHOMISH, THURSTON, WAHKIAKUM AND WHATCOM COUNTIES

	Rates	Fringes
CEMENT MASON		
CEMENT MASON.....	\$ 45.80	18.54
COMPOSITION, TROWEL MACHINE, GRINDER, POWER TOOLS, GUNNITE NOZZLE.....	\$ 46.30	18.54
TROWELING MACHINE OPERATOR ON COMPOSITION.....	\$ 46.30	18.54

PLAS0555-002 07/01/2019

CLARK, KICKITAT AND SKAMANIA COUNTIES

ZONE 1:

	Rates	Fringes
CEMENT MASON		
CEMENT MASONS DOING BOTH COMPOSITION/POWER MACHINERY AND SUSPENDED/HANGING SCAFFOLD..	\$ 37.32	18.77
CEMENT MASONS ON SUSPENDED, SWINGING AND/OR HANGING SCAFFOLD.....	\$ 36.58	18.77
CEMENT MASONS.....	\$ 35.85	18.77
COMPOSITION WORKERS AND POWER MACHINERY OPERATORS...	\$ 36.58	18.77

Zone Differential (Add To Zone 1 Rates):

Zone 2 - \$0.65
Zone 3 - 1.15
Zone 4 - 1.70
Zone 5 - 3.00

BASE POINTS: BEND, CORVALLIS, EUGENE, MEDFORD, PORTLAND,
SALEM, THE DALLES, VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall
ZONE 2: More than 30 miles but less than 40 miles from the
respective city hall.
ZONE 3: More than 40 miles but less than 50 miles from the
respective city hall.
ZONE 4: More than 50 miles but less than 80 miles from the
respective city hall.
ZONE 5: More than 80 miles from the respective city hall

TEAM0037-002 06/01/2019

CLARK, COWLITZ, KLUCKITAT, PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), SKAMANIA, AND WAHIAKUM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE 1		
GROUP 1.....	\$ 29.08	15.27
GROUP 2.....	\$ 29.20	15.27
GROUP 3.....	\$ 29.34	15.27
GROUP 4.....	\$ 29.62	15.27
GROUP 5.....	\$ 29.85	15.27
GROUP 6.....	\$ 30.03	15.27
GROUP 7.....	\$ 30.24	15.27

Zone Differential (Add to Zone 1 Rates):

Zone 2 - \$0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: A Frame or Hydra lift truck w/load bearing surface; Articulated Dump Truck; Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Concrete Pump Truck; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations there of: up to and including 10 cu. yds.; Lift Jitneys, Fork Lifts (all sizes in loading, unloading and transporting material on job site); Loader and/or Leverman on Concrete Dry Batch Plant (manually operated); Pilot Car; Pickup Truck; Solo Flat Bed and misc. Body Trucks, 0-10 tons; Truck Tender; Truck Mechanic Tender; Water Wagons (rated capacity) up to 3,000 gallons; Transit Mix and Wet or Dry Mix - 5 cu. yds. and under; Lubrication Man, Fuel Truck Driver, Tireman, Wash Rack, Steam Cleaner or combinations; Team Driver; Slurry Truck Driver or Leverman; Tireman

GROUP 2: Boom Truck/Hydra-lift or Retracting Crane; Challenger; Dumpsters or similar equipment all sizes; Dump Trucks/Articulated Dumps 6 cu to 10 cu.; Flaherty Spreader Driver or Leverman; Lowbed Equipment, Flat Bed Semi-trailer or doubles transporting equipment or wet or dry materials; Lumber Carrier, Driver-Straddle Carrier (used in loading, unloading and transporting of materials on job site); Oil Distributor Driver or Leverman; Transit mix and wet or dry mix trucks: over 5 cu. yds. and including 7 cu. yds.; Vacuum Trucks; Water truck/Wagons (rated capacity) over 3,000 to 5,000 gallons

GROUP 3: Ammonia Nitrate Distributor Driver; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 10 cu. yds. and including 30 cu. yds. includes Articulated Dump Trucks; Self-Propelled Street Sweeper; Transit mix and wet or dry mix truck: over 7 cu yds. and including 11 cu yds.; Truck Mechanic-Welder-Body Repairman; Utility and Clean-up Truck; Water Wagons (rated capacity) over 5,000 to 10,000 gallons

GROUP 4: Asphalt Burner; Dump Trucks, side, end and bottom dumps, including Semi-Trucks and Trains or combinations thereof: over 30 cu. yds. and including 50 cu. yds. includes Articulated Dump Trucks; Fire Guard; Transit Mix and Wet or Dry Mix Trucks, over 11 cu. yds. and including 15 cu. yds.; Water Wagon (rated capacity) over 10,000 gallons to 15,000 gallons

GROUP 5: Composite Crewman; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 50 cu. yds. and including 60 cu. yds. includes Articulated Dump Trucks

GROUP 6: Bulk Cement Spreader w/o Auger; Dry Pre-Batch concrete Mix Trucks; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains of combinations thereof: over 60 cu. yds. and including 80 cu. yds., and includes Articulated Dump Trucks; Skid Truck

GROUP 7: Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 80 cu. yds. and including 100 cu. yds., includes Articulated Dump Trucks; Industrial Lift Truck (mechanical tailgate)

* TEAM0174-001 06/01/2019

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS, MASON, PACIFIC (North of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND WHATCOM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE A:		
GROUP 1:.....	\$ 40.38	20.46
GROUP 2:.....	\$ 39.54	20.46
GROUP 3:.....	\$ 36.73	20.46
GROUP 4:.....	\$ 31.76	20.46
GROUP 5:.....	\$ 39.93	20.46

ZONE B (25-45 miles from center of listed cities*): Add \$.70 per hour to Zone A rates.

ZONE C (over 45 miles from centr of listed cities*): Add \$1.00 per hour to Zone A rates.

*Zone pay will be calculated from the city center of the following listed cities:

BELLINGHAM	CENTRALIA	RAYMOND	OLYMPIA
EVERETT	SHELTON	ANACORTES	BELLEVUE
SEATTLE	PORT ANGELES	MT. VERNON	KENT
TACOMA	PORT TOWNSEND	ABERDEEN	BREMERTON

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - "A-frame or Hydralift" trucks and Boom trucks or similar equipment when "A" frame or "Hydralift" and Boom truck or similar equipment is used; Buggymobile; Bulk Cement Tanker; Dumpsters and similar equipment, Tournorockers, Tournowagon, Tournotrailer, Cat DW series, Terra Cobra, Le Tourneau, Westinghouse, Athye Wagon, Euclid Two and Four-Wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump Trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with 16 yards to 30 yards capacity: Over 30 yards \$.15 per hour additional for each 10 yard increment; Explosive Truck (field mix) and similar equipment; Hyster Operators (handling bulk loose aggregates); Lowbed and Heavy Duty Trailer; Road Oil Distributor Driver; Spreader, Flaherty Transit mix used exclusively in heavy construction; Water Wagon and Tank Truck-3,000 gallons and over capacity

GROUP 2 - Bulllifts, or similar equipment used in loading or unloading trucks, transporting materials on job site; Dumpsters, and similar equipment, Tournorockers, Tournowagon, Turnotrailer, Cat. D.W. Series, Terra Cobra, Le Tourneau, Westinghouse, Athye wagon, Euclid two and four-wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with less than 16 yards capacity; Flatbed (Dual Rear Axle); Grease Truck, Fuel Truck, Greaser, Battery Service Man and/or Tire Service Man; Leverman and loader at bunkers and batch plants; Oil tank transport; Scissor truck; Slurry Truck; Sno-Go and similar equipment; Swampers; Straddler Carrier (Ross, Hyster) and similar equipment; Team Driver; Tractor (small, rubber-tired) (when used within Teamster jurisdiction); Vacuum truck; Water Wagon and Tank trucks-less than 3,000 gallons capacity; Winch Truck; Wrecker, Tow truck and similar equipment

GROUP 3 - Flatbed (single rear axle); Pickup Sweeper; Pickup Truck. (Adjust Group 3 upward by \$2.00 per hour for onsite work only)

GROUP 4 - Escort or Pilot Car

GROUP 5 - Mechanic

HAZMAT PROJECTS

Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C: +\$.25 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B: +\$.50 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit."

LEVEL A: +\$.75 per hour - This level utilizes a fully-encapsulated suit with a self-contained breathing apparatus or a supplied air line.

TEAM0690-004 01/01/2019

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY,
FRANKLIN, GARFIELD, GRANT KITTITAS, LINCOLN, OKANOGAN, PEND
OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA
COUNTIES

	Rates	Fringes
Truck drivers: (AREA 1: SPOKANE ZONE CENTER: Adams, Chelan, Douglas, Ferry, Grant, Kittitas, Lincoln, Okanogan, Pen Oreille, Spokane, Stevens, and Whitman Counties		
AREA 1: LEWISTON ZONE CENTER: Asotin, Columbia, and Garfield Counties		
AREA 2: PASCO ZONE CENTER: Benton, Franklin, Walla Walla and Yakima Counties)		
AREA 1:		
GROUP 1.....	\$ 23.91	17.40
GROUP 2.....	\$ 26.18	17.40
GROUP 3.....	\$ 26.68	17.40
GROUP 4.....	\$ 27.01	17.40
GROUP 5.....	\$ 27.12	17.40
GROUP 6.....	\$ 27.29	17.40
GROUP 7.....	\$ 27.82	17.40
GROUP 8.....	\$ 28.18	17.40
AREA 2:		
GROUP 1.....	\$ 26.05	17.40
GROUP 2.....	\$ 28.69	17.40
GROUP 3.....	\$ 28.80	17.40
GROUP 4.....	\$ 29.13	17.40
GROUP 5.....	\$ 29.24	17.40
GROUP 6.....	\$ 29.24	17.40
GROUP 7.....	\$ 29.78	17.40
GROUP 8.....	\$ 30.10	17.40

Zone Differential (Add to Zone 1 rate: Zone 1 + \$2.00)

BASE POINTS: Spokane, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: Outside 45 radius miles from the main post office

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Escort Driver or Pilot Car; Employee Haul; Power Boat Hauling Employees or Material

GROUP 2: Fish Truck; Flat Bed Truck; Fork Lift (3000 lbs. and under); Leverperson (loading trucks at bunkers); Trailer Mounted Hydro Seeder and Mulcher; Seeder & Mulcher; Stationary Fuel Operator; Tractor (small, rubber-tired, pulling trailer or similar equipment)

GROUP 3: Auto Crane (2000 lbs. capacity); Buggy Mobile & Similar; Bulk Cement Tanks & Spreader; Dumptor (6 yds. & under); Flat Bed Truck with Hydraulic System; Fork Lift (3001-16,000 lbs.); Fuel Truck Driver, Steamcleaner & Washer; Power Operated Sweeper; Rubber-tired Tunnel Jumbo; Scissors Truck; Slurry Truck Driver; Straddle Carrier (Ross, Hyster, & similar); Tireperson; Transit Mixers & Truck Hauling Concrete (3 yd. to & including 6 yds.); Trucks, side, end, bottom & articulated end dump (3 yards to and including 6 yds.); Warehouseperson (to include shipping & receiving); Wrecker & Tow Truck

GROUP 4: A-Frame; Burner, Cutter, & Welder; Service Greaser; Trucks, side, end, bottom & articulated end dump (over 6 yards to and including 12 yds.); Truck Mounted Hydro Seeder; Warehouseperson; Water Tank truck (0-8,000 gallons)

GROUP 5: Dumptor (over 6 yds.); Lowboy (50 tons & under); Self-loading Roll Off; Semi-Truck & Trailer; Tractor with Steer Trailer; Transit Mixers and Trucks Hauling Concrete (over 6 yds. to and including 10 yds.); Trucks, side, end, bottom and end dump (over 12 yds. to & including 20 yds.); Truck-Mounted Crane (with load bearing surface either mounted or pulled, up to 14 ton); Vacuum Truck (super sucker, guzzler, etc.)

GROUP 6: Flaherty Spreader Box Driver; Flowboys; Fork Lift (over 16,000 lbs.); Dumps (Semi-end); Mechanic (Field); Semi-end Dumps; Transfer Truck & Trailer; Transit Mixers & Trucks Hauling Concrete (over 10 yds. to & including 20 yds.); Trucks, side, end, bottom and articulated end dump (over 20 yds. to & including 40 yds.); Truck and Pup; Tournarocker, DWs & similar with 2 or more 4 wheel-power tractor with trailer, gallonage or yardage scale, whichever is greater Water Tank Truck (8,001- 14,000 gallons); Lowboy(over 50 tons)

GROUP 7: Oil Distributor Driver; Stringer Truck (cable operated trailer); Transit Mixers & Trucks Hauling Concrete (over 20 yds.); Truck, side, end, bottom end dump (over 40 yds. to & including 100 yds.); Truck Mounted Crane (with load bearing surface either mounted or pulled (16 through 25 tons);

GROUP 8: Prime Movers and Stinger Truck; Trucks, side, end,

bottom and articulated end dump (over 100 yds.); Helicopter
Pilot Hauling Employees or Materials

Footnote A - Anyone working on a HAZMAT job, where HAZMAT
certification is required, shall be compensated as a
premium, in addition to the classification working in as
follows:

LEVEL C-D: - \$.50 PER HOUR (This is the lowest level of
protection. This level may use an air purifying respirator
or additional protective clothing.

LEVEL A-B: - \$1.00 PER HOUR (Uses supplied air in conjunction
with a chemical splash suit or fully encapsulated suit with
a self-contained breathing apparatus.

Employees shall be paid Hazmat pay in increments of four(4)
and eight(8) hours.

NOTE:

Trucks Pulling Equipment Trailers: shall receive \$.15/hour
over applicable truck rate

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their
own illness, injury or other health-related needs, including
preventive care; to assist a family member (or person who is
like family to the employee) who is ill, injured, or has other
health-related needs, including preventive care; or for reasons
resulting from, or to assist a family member (or person who is
like family to the employee) who is a victim of, domestic
violence, sexual assault, or stalking. Additional information
on contractor requirements and worker protections under the EO
is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within
the scope of the classifications listed may be added after
award only as provided in the labor standards contract clauses
(29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION"

PART V

STATE PREVAILING WAGE RATES

AND

GENERAL REQUIREMENTS

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: 10/1/2020

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>	<u>*Risk Class</u>
Pierce	Asbestos Abatement Workers	Journey Level	\$52.39	<u>5D</u>	<u>1H</u>		View
Pierce	Boilermakers	Journey Level	\$69.29	<u>5N</u>	<u>1C</u>		View
Pierce	Brick Mason	Journey Level	\$60.57	<u>7E</u>	<u>1N</u>		View
Pierce	Brick Mason	Pointer-Caulker-Cleaner	\$60.57	<u>7E</u>	<u>1N</u>		View
Pierce	Building Service Employees	Janitor	\$20.29	<u>5S</u>	<u>2F</u>		View
Pierce	Building Service Employees	Traveling Waxer / Shampooer	\$20.39	<u>5S</u>	<u>2F</u>		View
Pierce	Building Service Employees	Window Cleaner (High Time)	\$27.29	<u>5S</u>	<u>2F</u>		View
Pierce	Building Service Employees	Window Cleaner (Non-High Time)	\$26.29	<u>5S</u>	<u>2F</u>		View
Pierce	Cabinet Makers (In Shop)	Journey Level	\$28.36		<u>1</u>		View
Pierce	Carpenters	Acoustical Worker	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Carpenter	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Carpenters on Stationary Tools	\$65.07	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Creosoted Material	\$65.07	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Floor Finisher	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Floor Layer	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Carpenters	Scaffold Erector	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Cement Masons	Application of all Composition Mastic	\$64.84	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of all Epoxy Material	\$64.34	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of all Plastic Material	\$64.84	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of Sealing Compound	\$64.34	<u>7A</u>	<u>4U</u>		View
Pierce	Cement Masons	Application of Underlayment	\$64.84	<u>7A</u>	<u>4U</u>		View

Pierce	Cement Masons	Building General	\$64.34	7A	4U		View
Pierce	Cement Masons	Composition or Kalman Floors	\$64.84	7A	4U		View
Pierce	Cement Masons	Concrete Paving	\$64.34	7A	4U		View
Pierce	Cement Masons	Curb & Gutter Machine	\$64.84	7A	4U		View
Pierce	Cement Masons	Curb & Gutter, Sidewalks	\$64.34	7A	4U		View
Pierce	Cement Masons	Curing Concrete	\$64.34	7A	4U		View
Pierce	Cement Masons	Finish Colored Concrete	\$64.84	7A	4U		View
Pierce	Cement Masons	Floor Grinding	\$64.84	7A	4U		View
Pierce	Cement Masons	Floor Grinding/Polisher	\$64.34	7A	4U		View
Pierce	Cement Masons	Green Concrete Saw, self-powered	\$64.84	7A	4U		View
Pierce	Cement Masons	Grouting of all Plates	\$64.34	7A	4U		View
Pierce	Cement Masons	Grouting of all Tilt-up Panels	\$64.34	7A	4U		View
Pierce	Cement Masons	Guniting Nozzleman	\$64.84	7A	4U		View
Pierce	Cement Masons	Hand Powered Grinder	\$64.84	7A	4U		View
Pierce	Cement Masons	Journey Level	\$64.34	7A	4U		View
Pierce	Cement Masons	Patching Concrete	\$64.34	7A	4U		View
Pierce	Cement Masons	Pneumatic Power Tools	\$64.84	7A	4U		View
Pierce	Cement Masons	Power Chipping & Brushing	\$64.84	7A	4U		View
Pierce	Cement Masons	Sand Blasting Architectural Finish	\$64.84	7A	4U		View
Pierce	Cement Masons	Screed & Rodding Machine	\$64.84	7A	4U		View
Pierce	Cement Masons	Spackling or Skim Coat Concrete	\$64.34	7A	4U		View
Pierce	Cement Masons	Troweling Machine Operator	\$64.84	7A	4U		View
Pierce	Cement Masons	Troweling Machine Operator on Colored Slabs	\$64.84	7A	4U		View
Pierce	Cement Masons	Tunnel Workers	\$64.84	7A	4U		View
Pierce	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$116.80	7A	4C		View
Pierce	Divers & Tenders	Dive Supervisor/Master	\$81.98	7A	4C		View
Pierce	Divers & Tenders	Diver	\$118.80	7A	4C	8V	View
Pierce	Divers & Tenders	Diver On Standby	\$76.98	7A	4C		View
Pierce	Divers & Tenders	Diver Tender	\$69.91	7A	4C		View
Pierce	Divers & Tenders	Manifold Operator	\$69.91	7A	4C		View
Pierce	Divers & Tenders	Manifold Operator Mixed Gas	\$74.91	7A	4C		View
Pierce	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$69.91	7A	4C		View
Pierce	Divers & Tenders	Remote Operated Vehicle Tender	\$65.19	7A	4C		View
Pierce	Dredge Workers	Assistant Engineer	\$70.62	5D	3F		View
Pierce	Dredge Workers	Assistant Mate (Deckhand)	\$70.07	5D	3F		View

Pierce	Dredge Workers	Boatmen	\$70.62	5D	3F		View
Pierce	Dredge Workers	Engineer Welder	\$71.97	5D	3F		View
Pierce	Dredge Workers	Leverman, Hydraulic	\$73.41	5D	3F		View
Pierce	Dredge Workers	Mates	\$70.62	5D	3F		View
Pierce	Dredge Workers	Oiler	\$70.07	5D	3F		View
Pierce	Drywall Applicator	Journey Level	\$64.94	5D	1H		View
Pierce	Drywall Tapers	Journey Level	\$65.31	5P	1E		View
Pierce	Electrical Fixture Maintenance Workers	Journey Level	\$17.76		1		View
Pierce	Electricians - Inside	Cable Splicer	\$77.53	5C	1G		View
Pierce	Electricians - Inside	Journey Level	\$72.56	5C	1G		View
Pierce	Electricians - Inside	Lead Covered Cable Splicer	\$82.51	5C	1G		View
Pierce	Electricians - Inside	Welder	\$77.53	5C	1G		View
Pierce	Electricians - Motor Shop	Craftsman	\$15.37		1		View
Pierce	Electricians - Motor Shop	Journey Level	\$14.69		1		View
Pierce	Electricians - Powerline Construction	Cable Splicer	\$82.39	5A	4D		View
Pierce	Electricians - Powerline Construction	Certified Line Welder	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Groundperson	\$49.17	5A	4D		View
Pierce	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Journey Level Lineperson	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Line Equipment Operator	\$64.54	5A	4D		View
Pierce	Electricians - Powerline Construction	Meter Installer	\$49.17	5A	4D	8W	View
Pierce	Electricians - Powerline Construction	Pole Sprayer	\$75.64	5A	4D		View
Pierce	Electricians - Powerline Construction	Powderperson	\$56.49	5A	4D		View
Pierce	Electronic Technicians	Journey Level	\$46.47	6Z	1B		View
Pierce	Elevator Constructors	Mechanic	\$97.31	7D	4A		View
Pierce	Elevator Constructors	Mechanic In Charge	\$105.06	7D	4A		View
Pierce	Fabricated Precast Concrete Products	Journey Level	\$15.00		1		View
Pierce	Fence Erectors	Fence Erector	\$44.40	7A	4V	8Y	View
Pierce	Fence Erectors	Fence Laborer	\$44.40	7A	4V	8Y	View
Pierce	Flaggers	Journey Level	\$44.40	7A	4V	8Y	View
Pierce	Glaziers	Journey Level	\$69.26	7L	1Y		View
Pierce	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$79.43	5J	4H		View
Pierce	Heating Equipment Mechanics	Journey Level	\$89.61	7F	1E		View
Pierce	Hod Carriers & Mason Tenders	Journey Level	\$54.01	7A	4V	8Y	View

Pierce	Industrial Power Vacuum Cleaner	Journey Level	\$13.50		<u>1</u>		View
Pierce	Inland Boatmen	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Cook	\$56.48	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>		View
Pierce	Inland Boatmen	Mate	\$57.31	<u>5B</u>	<u>1K</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$13.50		<u>1</u>		View
Pierce	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$13.50		<u>1</u>		View
Pierce	Insulation Applicators	Journey Level	\$64.94	<u>7A</u>	<u>4C</u>		View
Pierce	Ironworkers	Journeyman	\$75.23	<u>7N</u>	<u>10</u>		View
Pierce	Laborers	Air, Gas Or Electric Vibrating Screed	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Airtrac Drill Operator	\$54.01	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Ballast Regular Machine	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Batch Weighman	\$44.40	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Brick Pavers	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Brush Cutter	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Brush Hog Feeder	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Burner	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Caisson Worker	\$54.01	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Carpenter Tender	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Cement Dumper-paving	\$53.35	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Cement Finisher Tender	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Change House Or Dry Shack	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Chipping Gun (30 Lbs. And Over)	\$53.35	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Chipping Gun (Under 30 Lbs.)	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Choker Setter	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Chuck Tender	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Clary Power Spreader	\$53.35	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View
Pierce	Laborers	Clean-up Laborer	\$52.39	<u>7A</u>	<u>4V</u>	<u>8Y</u>	View

Pierce	Laborers	Concrete Dumper/Chute Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Concrete Form Stripper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Concrete Placement Crew	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Concrete Saw Operator/Core Driller	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Crusher Feeder	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Curing Laborer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Ditch Digger	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Diver	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Drill Operator (Hydraulic, Diamond)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Dry Stack Walls	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Dump Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Epoxy Technician	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Erosion Control Worker	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Faller & Bucker Chain Saw	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Fine Graders	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Firewatch	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Form Setter	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Gabian Basket Builders	\$52.39	7A	4V	8Y	View
Pierce	Laborers	General Laborer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Grade Checker & Transit Person	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Grinders	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Grout Machine Tender	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Groutmen (Pressure) Including Post Tension Beams	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Guardrail Erector	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level A)	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level B)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Hazardous Waste Worker (Level C)	\$52.39	7A	4V	8Y	View
Pierce	Laborers	High Scaler	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Jackhammer	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Laserbeam Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Maintenance Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Manhole Builder-Mudman	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Material Yard Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Motorman-Dinky Locomotive	\$53.35	7A	4V	8Y	View
Pierce	Laborers		\$53.35	7A	4V	8Y	View

		Nozzleman (Concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Guniting, Shotcrete, Water Blaster, Vacuum Blaster)					
Pierce	Laborers	Pavement Breaker	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pilot Car	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Pipe Layer Lead	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Pipe Layer/Tailor	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pipe Pot Tender	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pipe Reliner	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pipe Wrapper	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Pot Tender	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Powderman	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Powderman's Helper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Power Jacks	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Railroad Spike Puller - Power	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Raker - Asphalt	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Re-timberman	\$54.01	7A	4V	8Y	View
Pierce	Laborers	Remote Equipment Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Rigger/Signal Person	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Rip Rap Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Rivet Buster	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Rodder	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Scaffold Erector	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Scale Person	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Sloper (Over 20")	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Sloper Sprayer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Spreader (Concrete)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Stake Hopper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Stock Piler	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Swinging Stage/Boatswain Chair	\$44.40	7A	4V	8Y	View
Pierce	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Tamper (Multiple & Self-propelled)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Toolroom Person (at Jobsite)	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Topper	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Track Laborer	\$52.39	7A	4V	8Y	View

Pierce	Laborers	Track Liner (Power)	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Traffic Control Laborer	\$47.48	7A	4V	9C	View
Pierce	Laborers	Traffic Control Supervisor	\$50.31	7A	4V	9C	View
Pierce	Laborers	Truck Spotter	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Tugger Operator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$129.67	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$134.70	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$138.38	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$144.08	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$146.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$151.30	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$153.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$155.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$157.20	7A	4V	9B	View
Pierce	Laborers	Tunnel Work-Guage and Lock Tender	\$54.11	7A	4V	8Y	View
Pierce	Laborers	Tunnel Work-Miner	\$54.11	7A	4V	8Y	View
Pierce	Laborers	Vibrator	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Vinyl Seamer	\$52.39	7A	4V	8Y	View
Pierce	Laborers	Watchman	\$40.36	7A	4V	8Y	View
Pierce	Laborers	Welder	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Well Point Laborer	\$53.35	7A	4V	8Y	View
Pierce	Laborers	Window Washer/Cleaner	\$40.36	7A	4V	8Y	View
Pierce	Laborers - Underground Sewer & Water	General Laborer & Topman	\$52.39	7A	4V	8Y	View
Pierce	Laborers - Underground Sewer & Water	Pipe Layer	\$53.35	7A	4V	8Y	View
Pierce	Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	\$40.36	7A	4V	8Y	View
Pierce	Landscape Construction	Landscape Operator	\$70.07	7A	3K	8X	View
Pierce	Landscape Maintenance	Groundskeeper	\$17.07		1		View
Pierce	Lathers	Journey Level	\$64.94	5D	1H		View
Pierce	Marble Setters	Journey Level	\$60.57	7E	1N		View
Pierce	Metal Fabrication (In Shop)	Journey Level	\$36.54		1		View
Pierce	Millwright	Journey Level	\$66.44	7A	4C		View
Pierce	Modular Buildings	Journey Level	\$13.50		1		View
Pierce	Painters	Journey Level	\$43.40	6Z	2B		View
Pierce	Pile Driver	Crew Tender	\$69.91	7A	4C		View

Pierce	Pile Driver	Crew Tender/Technician	\$69.91	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$80.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$85.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$89.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	\$94.76	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	\$97.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$102.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$104.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$106.26	7A	4C		View
Pierce	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$108.26	7A	4C		View
Pierce	Pile Driver	Journey Level	\$65.19	7A	4C		View
Pierce	Plasterers	Journey Level	\$61.67	7Q	1R		View
Pierce	Playground & Park Equipment Installers	Journey Level	\$13.50		1		View
Pierce	Plumbers & Pipefitters	Journey Level	\$77.97	5A	1G		View
Pierce	Power Equipment Operators	Asphalt Plant Operator	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Assistant Engineer	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Barrier Machine (zipper)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Batch Plant Operator: Concrete	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Bobcat	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Brooms	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Bump Cutter	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Cableways	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Chipper	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Compressor	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Concrete Finish Machine -laser Screed	\$67.02	7A	3K	8X	View

Pierce	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Conveyors	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Cranes Friction: 200 tons and over	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes, A-frame: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Crusher	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Deck Engineer/deck Winches (power)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Derricks: on building work	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Dozers D-9 & Under	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Drilling Machine	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators	Elevator and man-lift: permanent and shaft type	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Forklift: 3000 lbs and over with attachments	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators		\$69.12	7A	3K	8P	View

		Forklifts: under 3000 lbs. with attachments					
Pierce	Power Equipment Operators	Grade Engineer: Using Blueprints, Cut Sheets, etc.	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Gradechecker/stakeman	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Guardrail punch/Auger	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Horizontal/directional Drill Locator	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Horizontal/directional Drill Operator	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Hydralifts/boom trucks: over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Loaders, Plant Feed	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Loaders: Elevating Type Belt	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Locomotives, All	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Material Transfer Device	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Motor patrol graders	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Outside Hoists (elevators and manlifts), Air Tuggers, Strato	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Overhead, bridge type Crane: 20 tons through 44 tons	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators		\$70.62	7A	3K	8X	View

		Overhead, Bridge Type Crane: 20 Tons Through 44 Tons					
Pierce	Power Equipment Operators	Overhead, bridge type: 100 tons and over	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Overhead, bridge type: 45 tons through 99 tons	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Pavement Breaker	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Posthole Digger, Mechanical	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Power Plant	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Pumps - Water	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Quad 9, HD 41, D10 And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Quick Tower: no cab, under 100 feet in height based to boom	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Rigger and Bellman	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Rollagon	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Roller, Other Than Plant Mix	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Roto-mill, Roto-grinder	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Saws - Concrete	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Scrapers - Concrete & Carry All	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Service Engineers: equipment	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Shotcrete/gunite Equipment	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators		\$70.62	7A	3K	8X	View

		Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons					
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$72.69	7A	3K	8X	View
Pierce	Power Equipment Operators	Slipform Pavers	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Spreader, Topsider & Screedman	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Subgrader Trimmer	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Tower Bucket Elevators	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators	Tower crane: up to 175' in height base to boom	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom.	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators	Transporters, All Track Or Truck Type	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators	Trenching Machines	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators	Truck Crane Oiler/Driver: 100 tons and over	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators	Truck crane oiler/driver: under 100 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators	Truck Mount Portable Conveyor	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators	Welder	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators	Wheel Tractors, Farmall Type	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators	Yo Yo Pay Dozer	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operator	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator: Concrete	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Bobcat	\$67.02	7A	3K	8X	View
Pierce		Brokk - Remote Demolition Equipment	\$67.02	7A	3K	8X	View

	Power Equipment Operators- Underground Sewer & Water						
Pierce	Power Equipment Operators- Underground Sewer & Water	Brooms	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Bump Cutter	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cableways	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Chipper	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Compressor	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42m	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Conveyors	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes Friction: 200 tons and over	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes, A-frame: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$75.72	7A	3K	8P	View

Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$74.99	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Cranes: through 19 tons with attachments, A-frame over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Crusher	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Deck Engineer/deck Winches (power)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Derricks: on building work	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Drilling Machine	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blueprints, Cut Sheets,etc.	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Gradechecker/stakeman	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Guardrail punch/Auger	\$70.62	7A	3K	8X	View
Pierce			\$71.24	7A	3K	8X	View

	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over					
Pierce	Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Locator	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Horizontal/directional Drill Operator	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Locomotives, All	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Mechanics: all (Leadmen - \$0.50 per hour over mechanic)	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Motor patrol graders	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$67.02	7A	3K	8X	View
Pierce			\$72.28	7A	3K	8P	View

	Power Equipment Operators- Underground Sewer & Water	Outside Hoists (elevators and manlifts), Air Tuggers, Strato					
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type Crane: 20 tons through 44 tons	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 100 tons and over	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Power Plant	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Pumps - Water	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Quad 9, HD 41, D10 And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Quick Tower: no cab, under 100 feet in height based to boom	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Rigger and Bellman	\$69.12	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Rollagon	\$71.24	7A	3K	8X	View
Pierce		Roller, Other Than Plant Mix	\$67.02	7A	3K	8X	View

	Power Equipment Operators- Underground Sewer & Water						
Pierce	Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Service Engineers: equipment	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shotcrete/gunite Equipment	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$71.97	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	\$70.07	7A	3K	8X	View
Pierce			\$74.99	7A	3K	8P	View

	Power Equipment Operators- Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom					
Pierce	Power Equipment Operators- Underground Sewer & Water	Tower crane: up to 175' in height base to boom	\$74.22	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom.	\$75.72	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	\$71.24	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Trenching Machines	\$70.07	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	\$72.84	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	\$72.28	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	\$70.62	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Welder	\$73.49	7A	3K	8P	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	\$67.02	7A	3K	8X	View
Pierce	Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	\$70.62	7A	3K	8X	View
Pierce	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$53.10	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Spray Person	\$50.40	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$53.10	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer	\$47.48	5A	4A		View
Pierce	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$36.10	5A	4A		View
Pierce	Refrigeration & Air Conditioning Mechanics	Journey Level	\$77.96	5A	1G		View
Pierce	Residential Brick Mason	Journey Level	\$27.02		1		View
Pierce	Residential Carpenters	Journey Level	\$48.17	7A	4C		View
Pierce	Residential Cement Masons	Journey Level	\$64.34	7A	4U		View
Pierce	Residential Drywall Applicators	Journey Level	\$48.17	7A	4C		View
Pierce	Residential Drywall Tapers	Journey Level	\$47.73	5P	1E		View
Pierce	Residential Electricians	Journey Level	\$34.65		1		View

Pierce	Residential Glaziers	Journey Level	\$45.90	<u>7L</u>	<u>1H</u>	View
Pierce	Residential Insulation Applicators	Journey Level	\$24.16		<u>1</u>	View
Pierce	Residential Laborers	Journey Level	\$23.86		<u>1</u>	View
Pierce	Residential Marble Setters	Journey Level	\$29.29		<u>1</u>	View
Pierce	Residential Painters	Journey Level	\$29.70		<u>1</u>	View
Pierce	Residential Plumbers & Pipefitters	Journey Level	\$55.87	<u>5A</u>	<u>1G</u>	View
Pierce	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$45.22	<u>5A</u>	<u>1G</u>	View
Pierce	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$54.01	<u>7F</u>	<u>1R</u>	View
Pierce	Residential Soft Floor Layers	Journey Level	\$51.07	<u>5A</u>	<u>3J</u>	View
Pierce	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$50.89	<u>5C</u>	<u>2R</u>	View
Pierce	Residential Stone Masons	Journey Level	\$29.29		<u>1</u>	View
Pierce	Residential Terrazzo Workers	Journey Level	\$14.86		<u>1</u>	View
Pierce	Residential Terrazzo/Tile Finishers	Journey Level	\$21.96		<u>1</u>	View
Pierce	Residential Tile Setters	Journey Level	\$25.98		<u>1</u>	View
Pierce	Roofers	Journey Level	\$54.62	<u>5A</u>	<u>2Q</u>	View
Pierce	Roofers	Using Irritable Bituminous Materials	\$57.62	<u>5A</u>	<u>2Q</u>	View
Pierce	Sheet Metal Workers	Journey Level (Field or Shop)	\$89.61	<u>7F</u>	<u>1E</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Boilermaker	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Carpenter	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Crane Operator	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Electrician	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	\$79.43	<u>5J</u>	<u>4H</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Laborer	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Machinist	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Operating Engineer	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Painter	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Pipefitter	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Rigger	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Sheet Metal	\$36.36	<u>7V</u>	<u>1</u>	View
Pierce	Shipbuilding & Ship Repair	New Construction Shipfitter	\$36.36	<u>7V</u>	<u>1</u>	View

Pierce	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	\$36.36	7V	1	View
Pierce	Shipbuilding & Ship Repair	New Construction Welder / Burner	\$36.36	7V	1	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Boilermaker	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Carpenter	\$44.95	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Crane Operator	\$45.06	7Y	4K	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Electrician	\$47.42	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	\$79.43	5J	4H	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Laborer	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Machinist	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Operating Engineer	\$45.06	7Y	4K	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Painter	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Pipefitter	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Rigger	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Sheet Metal	\$46.15	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Shipwright	\$44.95	7X	4J	View
Pierce	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	\$45.06	7Y	4K	View
Pierce	Sign Makers & Installers (Electrical)	Sign Installer	\$26.17		1	View
Pierce	Sign Makers & Installers (Electrical)	Sign Maker	\$20.33		1	View
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Installer	\$33.43		1	View
Pierce	Sign Makers & Installers (Non-Electrical)	Sign Maker	\$22.79		1	View
Pierce	Soft Floor Layers	Journey Level	\$51.07	5A	3J	View
Pierce	Solar Controls For Windows	Journey Level	\$13.50		1	View
Pierce	Sprinkler Fitters (Fire Protection)	Journey Level	\$84.39	5C	1X	View
Pierce	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.50		1	View
Pierce	Stone Masons	Journey Level	\$60.57	7E	1N	View
Pierce	Street And Parking Lot Sweeper Workers	Journey Level	\$21.69		1	View
Pierce	Surveyors	Chain Person	\$68.39	7A	3K	View
Pierce	Surveyors	Instrument Person	\$69.02	7A	3K	View
Pierce	Surveyors	Party Chief	\$70.17	7A	3K	View
Pierce	Telecommunication Technicians	Journey Level	\$46.47	6Z	1B	View
Pierce	Telephone Line Construction - Outside	Cable Splicer	\$41.81	5A	2B	View
Pierce	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$23.53	5A	2B	View
Pierce		Installer (Repairer)	\$40.09	5A	2B	View

	Telephone Line Construction - Outside					
Pierce	Telephone Line Construction - Outside	Special Aparatus Installer I	\$41.81	5A	2B	View
Pierce	Telephone Line Construction - Outside	Special Apparatus Installer II	\$40.99	5A	2B	View
Pierce	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$41.81	5A	2B	View
Pierce	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$38.92	5A	2B	View
Pierce	Telephone Line Construction - Outside	Telephone Lineperson	\$38.92	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television Groundperson	\$22.32	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television Lineperson/Installer	\$29.60	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television System Technician	\$35.20	5A	2B	View
Pierce	Telephone Line Construction - Outside	Television Technician	\$31.67	5A	2B	View
Pierce	Telephone Line Construction - Outside	Tree Trimmer	\$38.92	5A	2B	View
Pierce	Terrazzo Workers	Journey Level	\$55.71	7E	1N	View
Pierce	Tile Setters	Journey Level	\$55.71	7E	1N	View
Pierce	Tile, Marble & Terrazzo Finishers	Finisher	\$46.54	7E	1N	View
Pierce	Traffic Control Stripers	Journey Level	\$49.13	7A	1K	View
Pierce	Truck Drivers	Asphalt Mix Over 16 Yards	\$63.85	5D	4Y	8L View
Pierce	Truck Drivers	Asphalt Mix To 16 Yards	\$63.71	5D	4Y	8L View
Pierce	Truck Drivers	Dump Truck	\$63.71	5D	4Y	8L View
Pierce	Truck Drivers	Dump Truck & Trailer	\$63.85	5D	4Y	8L View
Pierce	Truck Drivers	Other Trucks	\$63.85	5D	4Y	8L View
Pierce	Truck Drivers - Ready Mix	Transit Mix	\$63.85	5D	4Y	8L View
Pierce	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$16.09		1	View
Pierce	Well Drillers & Irrigation Pump Installers	Oiler	\$15.39		1	View
Pierce	Well Drillers & Irrigation Pump Installers	Well Driller	\$18.30		1	View

Benefit Code Key – Effective 9/2/2020 thru 3/2/2021

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- 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.
- J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
- B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
- C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal 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.

Overtime Codes Continued

4. L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.
- M. All hours worked on Sunday and Holidays shall be paid at double the hourly rate. Any employee reporting to work less than nine (9) hours from their previous quitting time shall be paid for such time at time and one-half times the hourly rate.
- N. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays, and all work performed between the hours of midnight (12:00 AM) and eight AM (8:00 AM) every day shall be paid at double the hourly rate of wage.
- O. All hours worked between midnight Friday to midnight Sunday shall be paid at one and one-half the hourly rate of wage. After an employee has worked in excess of eight (8) continuous hours in any one or more calendar days, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of six (6) hours or more. All hours worked on Holidays shall be paid at double the hourly rate of wage.
- P. All hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage.
- Q. The first four (4) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday shall be paid at double the hourly rate. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- R. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- S. All hours worked on Saturdays and Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.
- T. The first two (2) hours of overtime for hours worked Monday-Friday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. For work on Saturday which is scheduled prior to the end of shift on Friday, the first six (6) hours work shall be paid at one and one-half times the hourly rate of wage, and all hours over (6) shall be paid double the hourly rate of wage. For work on Saturday which was assigned following the close of shift on Friday, all work shall be paid at double the hourly rate of wage.
- U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. V. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established or outside the normal shift (5 am to 6pm), and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

In the event the job is down due to weather conditions, then Saturday may, be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

- W. 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.

When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

- X. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

4. Y. 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. 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.

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.

ZOvertime 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. 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. 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. Work performed on Sundays may be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).

Holiday Codes Continued

5. 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).
- 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.

Holiday Codes Continued

7. B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- 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.

Holiday Codes Continued

7. 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.
- 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.

Holiday Codes Continued

7. 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.
- E. Holidays: the day before New Years's Day, New Year's Day, Martin Luther King, Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day. (12)

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- 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.

Note Codes Continued

8. 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.
- X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, and Class D Suit: \$0.50. Special Shift Premium: Basic hourly rate plus \$2.00 per hour.
- When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)
- Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.
- Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

Note Codes Continued

8. Z. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.

Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

9. A. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.

Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid \$0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

(A) – 130' to 199' – \$0.50 per hour over their classification rate.

(B) – 200' to 299' – \$0.80 per hour over their classification rate.

(C) – 300' and over – \$1.00 per hour over their classification rate.

- B. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

- C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.

Note Codes Continued

- 9. D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.
- E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

Washington State Department of Labor and Industries
Policy Statement
(Regarding the Production of "Standard" or "Non-standard" Items)

Below is the department's (State L&I's) list of criteria to be used in determining whether a prefabricated item is "standard" or "non-standard". For items not appearing on WSDOT's predetermined list, these criteria shall be used by the Contractor (and the Contractor's subcontractors, agents to subcontractors, suppliers, manufacturers, and fabricators) to determine coverage under RCW 39.12. The production, in the State of Washington, of non-standard items is covered by RCW 39.12, and the production of standard items is not. The production of any item outside the State of Washington is not covered by RCW 39.12.

1. Is the item fabricated for a public works project? If not, it is not subject to RCW 39.12. If it is, go to question 2.
2. Is the item fabricated on the public works jobsite? If it is, the work is covered under RCW 39.12. If not, go to question 3.
3. Is the item fabricated in an assembly/fabrication plant set up for, and dedicated primarily to, the public works project? If it is, the work is covered by RCW 39.12. If not, go to question 4.
4. Does the item require any assembly, cutting, modification or other fabrication by the supplier? If not, the work is not covered by RCW 39.12. If yes, go to question 5.
5. Is the prefabricated item intended for the public works project typically an inventory item which could reasonably be sold on the general market? If not, the work is covered by RCW 39.12. If yes, go to question 6.
6. Does the specific prefabricated item, generally defined as standard, have any unusual characteristics such as shape, type of material, strength requirements, finish, etc? If yes, the work is covered under RCW 39.12.

Any firm with questions regarding the policy, WSDOT's Predetermined List, or for determinations of covered and non-covered workers shall be directed to State L&I at (360) 902-5330.

**WSDOT's
Predetermined List for
Suppliers - Manufactures - Fabricator**

Below is a list of potentially prefabricated items, originally furnished by WSDOT to Washington State Department of Labor and Industries, that may be considered non-standard and therefore covered by the prevailing wage law, RCW 39.12. Items marked with an X in the "YES" column should be considered to be non-standard and therefore covered by RCW 39.12. Items marked with an X in the "NO" column should be considered to be standard and therefore not covered. Of course, exceptions to this general list may occur, and in that case shall be evaluated according to the criteria described in State and L&I's policy statement.

ITEM DESCRIPTION	YES	NO
1. Metal rectangular frames, solid metal covers, herringbone grates, and bi-directional vaned grates for Catch Basin Types 1, 1L, 1P, and 2 and Concrete Inlets. See Std. Plans		X
2. Metal circular frames (rings) and covers, circular grates, and prefabricated ladders for Manhole Types 1, 2, and 3, Drywell Types 1, 2, and 3 and Catch Basin Type 2. See Std. Plans		X
3. Prefabricated steel grate supports and welded grates, metal frames and dual vaned grates, and Type 1, 2, and 3 structural tubing grates for Drop Inlets. See Std. Plans.		X
4. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes smaller than 60 inch diameter.		X
5. Concrete Pipe - Plain Concrete pipe and reinforced concrete pipe Class 2 to 5 sizes larger than 60 inch diameter.		X
6. Corrugated Steel Pipe - Steel lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, 1 thru 5.		X
7. Corrugated Aluminum Pipe - Aluminum lock seam corrugated pipe for culverts and storm sewers, sizes 30 inch to 120 inches in diameter. May also be treated, #5.		X

ITEM DESCRIPTION	YES	NO
8. Anchor Bolts & Nuts - Anchor Bolts and Nuts, for mounting sign structures, luminaries and other items, shall be made from commercial bolt stock. See Contract Plans and Std. Plans for size and material type.		X
9. Aluminum Pedestrian Handrail - Pedestrian handrail conforming to the type and material specifications set forth in the contract plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).	X	
10. Major Structural Steel Fabrication - Fabrication of major steel items such as trusses, beams, girders, etc., for bridges.	X	
11. Minor Structural Steel Fabrication - Fabrication of minor steel Items such as special hangers, brackets, access doors for structures, access ladders for irrigation boxes, bridge expansion joint systems, etc., involving welding, cutting, punching and/or boring of holes. See Contract Plans for item description and shop drawings.	X	
12. Aluminum Bridge Railing Type BP - Metal bridge railing conforming to the type and material specifications set forth in the Contract Plans. Welding of aluminum shall be in accordance with Section 9-28.14(3).		X
13. Concrete Piling--Precast-Prestressed concrete piling for use as 55 and 70 ton concrete piling. Concrete to conform to Section 9-19.1 of Std. Spec..	X	
14. Precast Manhole Types 1, 2, and 3 with cones, adjustment sections and flat top slabs. See Std. Plans.		X
15. Precast Drywell Types 1, 2, and with cones and adjustment Sections. See Std. Plans.		X
16. Precast Catch Basin - Catch Basin type 1, 1L, 1P, and 2 With adjustment sections. See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
17. Precast Concrete Inlet - with adjustment sections, See Std. Plans		X
18. Precast Drop Inlet Type 1 and 2 with metal grate supports. See Std. Plans.		X
19. Precast Grate Inlet Type 2 with extension and top units. See Std. Plans		X
20. Metal frames, vaned grates, and hoods for Combination Inlets. See Std. Plans		X
21. Precast Concrete Utility Vaults - Precast Concrete utility vaults of various sizes. Used for in ground storage of utility facilities and controls. See Contract Plans for size and construction requirements. Shop drawings are to be provided for approval prior to casting		X
22. Vault Risers - For use with Valve Vaults and Utilities X Vaults.		X
23. Valve Vault - For use with underground utilities. See Contract Plans for details.		X
24. Precast Concrete Barrier - Precast Concrete Barrier for use as new barrier or may also be used as Temporary Concrete Barrier. Only new state approved barrier may be used as permanent barrier.		X
25. Reinforced Earth Wall Panels – Reinforced Earth Wall Panels in size and shape as shown in the Plans. Fabrication plant has annual approval for methods and materials to be used. See Shop Drawing. Fabrication at other locations may be approved, after facilities inspection, contact HQ. Lab.	X	
26. Precast Concrete Walls - Precast Concrete Walls - tilt-up wall panel in size and shape as shown in Plans. Fabrication plant has annual approval for methods and materials to be used	X	

ITEM DESCRIPTION	YES	NO
27. Precast Railroad Crossings - Concrete Crossing Structure Slabs.	X	
28. 12, 18 and 26 inch Standard Precast Prestressed Girder – Standard Precast Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
29. Prestressed Concrete Girder Series 4-14 - Prestressed Concrete Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
30. Prestressed Tri-Beam Girder - Prestressed Tri-Beam Girders for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
31. Prestressed Precast Hollow-Core Slab – Precast Prestressed Hollow-core slab for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A.	X	
32. Prestressed-Bulb Tee Girder - Bulb Tee Prestressed Girder for use in structures. Fabricator plant has annual approval of methods and materials to be used. Shop Drawing to be provided for approval prior to casting girders. See Std. Spec. Section 6-02.3(25)A	X	
33. Monument Case and Cover See Std. Plan.		X

ITEM DESCRIPTION	YES	NO
34. Cantilever Sign Structure - Cantilever Sign Structure fabricated from steel tubing meeting AASHTO-M-183. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
35. Mono-tube Sign Structures - Mono-tube Sign Bridge fabricated to details shown in the Plans. Shop drawings for approval are required prior to fabrication.	X	
36. Steel Sign Bridges - Steel Sign Bridges fabricated from steel tubing meeting AASHTO-M-138 for Aluminum Alloys. See Std. Plans, and Contract Plans for details. The steel structure shall be galvanized after fabrication in accordance with AASHTO-M-111.	X	
37. Steel Sign Post - Fabricated Steel Sign Posts as detailed in Std Plans. Shop drawings for approval are to be provided prior to fabrication		X
38. Light Standard-Prestressed - Spun, prestressed, hollow concrete poles.	X	
39. Light Standards - Lighting Standards for use on highway illumination systems, poles to be fabricated to conform with methods and materials as specified on Std. Plans. See Special Provisions for pre-approved drawings.	X	
40. Traffic Signal Standards - Traffic Signal Standards for use on highway and/or street signal systems. Standards to be fabricated to conform with methods and material as specified on Std. Plans. See Special Provisions for pre-approved drawings	X	
41. Precast Concrete Sloped Mountable Curb (Single and DualFaced) See Std. Plans.		X

ITEM DESCRIPTION	YES	NO
42. Traffic Signs - Prior to approval of a Fabricator of Traffic Signs, the sources of the following materials must be submitted and approved for reflective sheeting, legend material, and aluminum sheeting. NOTE: *** Fabrication inspection required. Only signs tagged "Fabrication Approved" by WSDOT Sign Fabrication Inspector to be installed	X	X
	Custom Message	Std Signing Message
43. Cutting & bending reinforcing steel		X
44. Guardrail components	X	X
	Custom End Sec	Standard Sec
45. Aggregates/Concrete mixes	Covered by WAC 296-127-018	
46. Asphalt	Covered by WAC 296-127-018	
47. Fiber fabrics		X
48. Electrical wiring/components		X
49. treated or untreated timber pile		X
50. Girder pads (elastomeric bearing)	X	
51. Standard Dimension lumber		X
52. Irrigation components		X

ITEM DESCRIPTION	YES	NO
53. Fencing materials		X
54. Guide Posts		X
55. Traffic Buttons		X
56. Epoxy		X
57. Cribbing		X
58. Water distribution materials		X
59. Steel "H" piles		X
60. Steel pipe for concrete pile casings		X
61. Steel pile tips, standard		X
62. Steel pile tips, custom	X	

Prefabricated items specifically produced for public works projects that are prefabricated in a county other than the county wherein the public works project is to be completed, the wage for the offsite prefabrication shall be the applicable prevailing wage for the county in which the actual prefabrication takes place.

It is the manufacturer of the prefabricated product to verify that the correct county wage rates are applied to work they perform.

See RCW [39.12.010](#)

(The definition of "locality" in RCW [39.12.010](#)(2) contains the phrase "wherein the physical work is being performed." The department interprets this phrase to mean the actual work site.

WSDOT's List of State Occupations not applicable to Heavy and Highway Construction Projects

This project is subject to the state hourly minimum rates for wages and fringe benefits in the contract provisions, as provided by the state Department of Labor and Industries.

The following list of occupations, is comprised of those occupations that are not normally used in the construction of heavy and highway projects.

When considering job classifications for use and / or payment when bidding on, or building heavy and highway construction projects for, or administered by WSDOT, these Occupations will be excepted from the included "Washington State Prevailing Wage Rates For Public Work Contracts" documents.

- Building Service Employees
- Electrical Fixture Maintenance Workers
- Electricians - Motor Shop
- Heating Equipment Mechanics
- Industrial Engine and Machine Mechanics
- Industrial Power Vacuum Cleaners
- Inspection, Cleaning, Sealing of Water Systems by Remote Control
- Laborers - Underground Sewer & Water
- Machinists (Hydroelectric Site Work)
- Modular Buildings
- Playground & Park Equipment Installers
- Power Equipment Operators - Underground Sewer & Water
- Residential *** ALL ASSOCIATED RATES ***
- Sign Makers and Installers (Non-Electrical)
- Sign Makers and Installers (Electrical)
- Stage Rigging Mechanics (Non Structural)

The following occupations may be used only as outlined in the preceding text concerning "WSDOT's list for Suppliers - Manufacturers - Fabricators"

- Fabricated Precast Concrete Products
- Metal Fabrication (In Shop)

Definitions for the Scope of Work for prevailing wages may be found at the Washington State Department of Labor and Industries web site and in WAC Chapter 296-127.

Washington State Department of Labor and Industries
Policy Statements
(Regarding Production and Delivery of Gravel, Concrete, Asphalt, etc.)

WAC 296-127-018 Agency filings affecting this section

Coverage and exemptions of workers involved in the production and delivery of gravel, concrete, asphalt, or similar materials.

(1) The materials covered under this section include but are not limited to: Sand, gravel, crushed rock, concrete, asphalt, or other similar materials.

(2) All workers, regardless of by whom employed, are subject to the provisions of chapter 39.12 RCW when they perform any or all of the following functions:

(a) They deliver or discharge any of the above-listed materials to a public works project site:

(i) At one or more point(s) directly upon the location where the material will be incorporated into the project; or

(ii) At multiple points at the project; or

(iii) Adjacent to the location and coordinated with the incorporation of those materials.

(b) They wait at or near a public works project site to perform any tasks subject to this section of the rule.

(c) They remove any materials from a public works construction site pursuant to contract requirements or specifications (e.g., excavated materials, materials from demolished structures, clean-up materials, etc.).

(d) They work in a materials production facility (e.g., batch plant, borrow pit, rock quarry, etc.,) which is established for a public works project for the specific, but not necessarily exclusive, purpose of supplying materials for the project.

(e) They deliver concrete to a public works site regardless of the method of incorporation.

(f) They assist or participate in the incorporation of any materials into the public works project.

(3) All travel time that relates to the work covered under subsection (2) of this section requires the payment of prevailing wages. Travel time includes time spent waiting to load, loading, transporting, waiting to unload, and delivering materials. Travel time would include all time spent in travel in support of a public works project whether the vehicle is empty or full. For example, travel time spent returning to a supply source to obtain another load of material for use on a public works site or returning to the public works site to obtain another load of excavated material is time spent in travel that is subject to prevailing wage. Travel to a supply source, including travel from a public works site, to obtain materials for use on a private project would not be travel subject to the prevailing wage.

(4) Workers are not subject to the provisions of chapter 39.12 RCW when they deliver materials to a stockpile.

(a) A "stockpile" is defined as materials delivered to a pile located away from the site of incorporation such that the stockpiled materials must be physically moved from the stockpile and transported to another location on the project site in order to be incorporated into the project.

(b) A stockpile does not include any of the functions described in subsection (2)(a) through (f) of this section; nor does a stockpile include materials delivered or distributed to multiple locations upon the project site; nor does a stockpile include materials dumped at the place of incorporation, or adjacent to the location and coordinated with the incorporation.

(5) The applicable prevailing wage rate shall be determined by the locality in which the work is performed. Workers subject to subsection (2)(d) of this section, who produce such materials at an off-site facility shall be paid the applicable prevailing wage rates for the county in which the off-site facility is located. Workers subject to subsection (2) of this section, who deliver such materials to a public works project site shall be paid the applicable prevailing wage rates for the county in which the public works project is located.

[Statutory Authority: Chapter 39.12 RCW, RCW 43.22.051 and 43.22.270. 08-24-101, § 296-127-018, filed 12/2/08, effective 1/2/09. Statutory Authority: Chapters 39.04 and 39.12 RCW and RCW 43.22.270. 92-01-104 and 92-08-101, § 296-127-018, filed 12/18/91 and 4/1/92, effective 8/31/92.]



CITY OF TACOMA INSURANCE REQUIREMENTS FOR CONTRACTS

The Contractor (Contractor) shall maintain at least the minimum insurance set forth below. By requiring such minimum insurance, the City of Tacoma shall not be deemed or construed to have assessed the risk that may be applicable to Contractor under this Contract. Contractor shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage.

1. GENERAL REQUIREMENTS

The following General Requirements apply to Contractor and to Subcontractor(s) of every tier performing services and/or activities pursuant to the terms of this Contract. Contractor acknowledges and agrees to the following insurance requirements applicable to Contractor and Contractor's Subcontractor(s):

- 1.1. City of Tacoma reserves the right to approve or reject the insurance provided based upon the insurer, terms and coverage, the Certificate of Insurance, and/or endorsements.
- 1.2. Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by City of Tacoma.
- 1.3. Contractor shall keep this insurance in force during the entire term of the Contract and for Thirty (30) calendar days after completion of all work required by the Contract, unless otherwise provided herein.
- 1.4. Insurance policies required under this Contract that name "City of Tacoma" as Additional Insured shall:
 - 1.4.1. Be considered primary and non-contributory for all claims.
 - 1.4.2. Contain a "Separation of Insured provision and a "Waiver of Subrogation" clause in favor of City of Tacoma.
- 1.5. Section 1.4 above does not apply to contracts for purchasing supplies only.
- 1.6. Verification of coverage shall include:
 - 1.6.1. An ACORD certificate or equivalent.
 - 1.6.2. Copies of all endorsements naming the City of Tacoma as additional insured and showing the policy number.
 - 1.6.3. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.
- 1.7. Liability insurance policies, with the exception of Professional Liability and Workers' Compensation, shall name the City of Tacoma and its officers, elected officials, employees, agents, and authorized volunteers as additional insured.
 - 1.7.1. No specific person or department should be identified as the additional insured.
 - 1.7.2. All references on certificates of insurance and endorsements shall be listed as "City of Tacoma".
 - 1.7.3. The City of Tacoma shall be additional insured for both ongoing and completed operations using Insurance Services Office (ISO) form CG 20 10 04 13 and CG 20



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

37 04 13 or the equivalent 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 describes limits lower than those maintained by the Contractor.

- 1.8. Contractor shall provide a Certificate of Insurance for each policy of insurance meeting the requirements set forth herein when Contractor provides the signed Contract for the work to City of Tacoma. Contractor shall provide copies of any applicable Additional Insured, Waiver of Subrogation, and Primary and Non-contributory endorsements. Contract or Permit number and the City Department must be shown on the Certificate of Insurance.
- 1.9. Insurance limits shown below may be written with an excess policy that follows the form of an underlying primary liability policy or an excess policy providing the required limit.
- 1.10. Liability insurance policies shall be written on an "occurrence" form, except for Professional Liability/Errors and Omissions, Pollution Liability, and Cyber/Privacy and Security
- 1.11. If coverage is approved and purchased on a "Claims-Made" basis, Contractor warrants continuation of coverage, either through policy renewals or by the purchase of an extended reporting period endorsement as set forth below.
- 1.12. The insurance must be written by companies licensed or authorized in the State of Washington pursuant to RCW 48 with an (A-) VII or higher in the A.M. Best's Key Rating Guide www.ambest.com.
- 1.13. Contractor shall provide City of Tacoma notice of any cancellation or non-renewal of this required insurance within Thirty (30) calendar days.
- 1.14. Contractor shall not allow any insurance to be cancelled or lapse during any term of this Contract, otherwise it shall constitute a material breach of the Contract, upon which City of Tacoma may, after giving Five (5) business day notice to 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 City of Tacoma by Contractor upon demand, or at the sole discretion of City of Tacoma, offset against funds due Contractor from City of Tacoma.
- 1.15. Contractor shall be responsible for the payment of all premiums, deductibles and self-insured retentions, and shall indemnify and hold the City of Tacoma harmless to the extent such a deductible or self-insured retained limit may apply to the City of Tacoma as an additional insured. Any deductible or self-insured retained limits in excess of Twenty Five Thousand Dollars (\$25,000) must be disclosed and approved by City of Tacoma Risk Manager and shown on the Certificate of Insurance.
- 1.16. City of Tacoma reserves the right to review insurance requirements during any term of the Contract and to require that Contractor make reasonable adjustments when the scope of services has changed.



CITY OF TACOMA INSURANCE REQUIREMENTS FOR CONTRACTS

- 1.17. 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 by City of Tacoma to Contractor.
- 1.18. Insurance coverages specified in this Contract are not intended and will not be interpreted to limit the responsibility or liability of Contractor or Subcontractor(s).
- 1.19. Failure by City of Tacoma to identify a deficiency in the insurance documentation provided by Contractor or failure of City of Tacoma to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- 1.20. If Contractor is a State of Washington or local government and is self-insured for any of the above insurance requirements, a certification of self-insurance shall be attached hereto and be incorporated by reference and shall constitute compliance with this Section.

2. CONTRACTOR

As used herein, "Contractor" shall be the Supplier(s) entering a Contract with City of Tacoma, whether designated as a Supplier, Contractor, Vendor, Proposer, Bidder, Respondent, Seller, Merchant, Service Provider, or otherwise.

3. SUBCONTRACTORS

It is Contractor's responsibility to ensure that each subcontractor obtain and maintain adequate liability insurance coverage. Contractor shall provide evidence of such insurance upon City of Tacoma's request.

4. REQUIRED INSURANCE AND LIMITS

The insurance policies shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve Contractor from liability in excess of such limits.

4.1 Commercial General Liability Insurance

Contractor shall maintain Commercial General Liability Insurance policy with limits not less than One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) annual aggregate. The Commercial General Liability Insurance policy shall be written on an Insurance Services Office form CG 00 01 04 13 or its equivalent. Products and Completed Operations shall be maintained for a period of three years following Substantial Completion of the Work related to performing construction services.

This policy shall include product liability especially when a Contract solely is for purchasing supplies. The Commercial General Liability policy shall be endorsed to include:

- 4.1.1 A per project aggregate policy limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

4.2 Commercial (Business) Automobile Liability Insurance

Contractor shall maintain Commercial Automobile Liability policy with limits not less than One Million Dollars (\$1,000,000) each accident for bodily injury and property damage and bodily injury and property damage coverage for owned (if any), non-owned, hired, or leased vehicles.



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

Commercial Automobile Liability Insurance shall be written using ISO form CA 00 01 or equivalent. Contractor must also maintain an MCS 90 endorsement or equivalent and a CA 99 48 endorsement or equivalent if "Pollutants" are to be transported.

4.3 Workers' Compensation

Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington, as well as any other similar coverage required for this work by applicable federal laws of other states. The Contractor must comply with their domicile State Industrial Insurance laws if it is outside the State of Washington.

4.4 Employers' Liability Insurance

Contractor shall maintain Employers' Liability coverage with limits not less than One Million Dollars (\$1,000,000) each employee, One Million Dollars (\$1,000,000) each accident, and One Million Dollars (\$1,000,000) policy limit.

4.5 Excess or Umbrella Liability Insurance

Contractor shall provide Excess or Umbrella Liability Insurance with limits not less than Three Million Dollars (\$3,000,000) per occurrence and in the aggregate. This coverage shall apply, at a minimum, in excess of primary underlying Commercial General Liability, Employer's Liability, Pollution Liability, Marine General Liability, Protection and Indemnity, and Automobile Liability if required herein.

4.6 Installation Floater Insurance

Contractor shall maintain during the term of the Contract, at its own expense, Installation Floater Insurance covering Contractor's labor, materials, and equipment to be used for completion of the work performed under this Contract against all risks of direct physical loss, excluding earthquake and flood, for an amount equal to the full amount of the Contract improvements.

4.7 Other Insurance

Other insurance may be deemed appropriate to cover risks and exposures related to the scope of work or changes to the scope of work required by City of Tacoma. The costs of such necessary and appropriate Insurance coverage shall be borne by Contractor.