

# SPECIFICATION NO. PW22-0141F

## SIDEWALK REPLACEMENT, WEST END

Project No. PWK-00714-03

#### **CITY OF TACOMA**

#### **DEPARTMENT OF PUBLIC WORKS**

REQUEST FOR BIDS, SPECIAL PROVISIONS, BID PROPOSAL AND CONTRACT

FOR

# SPECIFICATION NO. PW22-0141F

# SIDEWALK REPLACEMENT, WEST END

**PROJECT NO. PWK-00714-03** 



Chris E. Larson, P.E. Engineering Division Public Works Department Room 522, Tacoma Municipal Building Tacoma, Washington 98402

#### SPECIFICATION NO. PW22-0141F

#### **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

SPECIAL NOTICE TO BIDDERS

#### PART I BID PROPOSAL AND CONTRACT FORMS

- Bid Proposal
- 2 Signature Page
- 3 Bid Bond
- 4 Certification Of Compliance with Wage Payment Statutes
- State Responsibility and Reciprocal Bid Preference Information 5
- 6 City of Tacoma – Equity in Contracting Utilization Form
- 7 Contract
- 8 Payment Bond to the City of Tacoma
- Performance Bond to the City of Tacoma 9
- General Release Form 10

#### PART II **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	Sidewalk Replacement Location List
Appendix B	City of Tacoma and WSDOT Standard Plans
Appendix C	Combined Stormwater Site Plan and Construction Stormwater
	Pollution Prevention Plan Report
Appendix D	City of Tacoma Garbage, Recycling and Yard Waste Pick Up
	Мар
Appendix E	Traffic Control Handbook

PART III STATE PREVAILING WAGE RATES AND GENERAL REQUIREMENTS



# City of Tacoma Public Works Engineering

#### REQUEST FOR BIDS PW22-0141F SIDEWALK REPLACEMENT, WEST END

Submittal Deadline: 11:00 a.m., Pacific Time, Tuesday, August 23, 2022

Submittals must be received by the City's Procurement and Payables Division prior to 11:00 a.m. Pacific Time.

For electronic submittals, the City of Tacoma will designate the time of receipt recorded by our email, <a href="mailto:bids@cityoftacoma.org">bids@cityoftacoma.org</a>, as the official time of receipt. This clock will be used as the official time of receipt of all parts of electronic bid submittals.

**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

#### **By Carrier:**

If possible, please include a flash drive of your full submittal.

City of Tacoma Procurement & Payables Division Tacoma Public Utilities 3628 S 35<sup>th</sup> Street Tacoma, WA 98409

#### In Person:

If possible, please include a flash drive of your full submittal.

City of Tacoma Procurement & Payables Division Tacoma Public Utilities Administration Building North Guard House (east side of main building 3628 S 35<sup>th</sup> Street Tacoma, WA 98409

#### By Mail:

If possible, please include a flash drive of your full submittal.

City of Tacoma Procurement & Payables Division Tacoma Public Utilities PO Box 11007 Tacoma, WA 98411-0007

**Bid Opening:** Held virtually each Tuesday at 11AM. Attend <u>via this link</u> or call 1 (253) 215

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 <a href="https://www.tacomaPurchasing.org">www.tacomaPurchasing.org</a>.

**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 <a href="http://www.e-arc.com/location/tacoma">http://www.e-arc.com/location/tacoma</a>. 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:** Replace damaged sidewalk in the West End area of the City of Tacoma.

Estimate: \$225,000

Form No. SPEC-040C Revised: 05/25/2021

**Paid Sick Leave:** The City of Tacoma requires all employers to provide paid sick leave as set forth in Title 18 of the Tacoma Municipal Code. For more information, visit <u>our Minimum Employment Standards Paid Sick Leave webpage</u>.

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 <a href="mailto:ghimes@cityoftacoma.org">ghimes@cityoftacoma.org</a>, or by calling her collect at 253-591-5785.

**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 <a href="www.tacomapurchasing.org">www.tacomapurchasing.org</a>, 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.

Form No. SPEC-040C Revised: 05/25/2021

#### SPECIAL REMINDER TO ALL BIDDERS

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

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. <u>BID PROPOSAL</u>: The unit prices bid must be shown in the space provided. Check your computations for omissions and errors.
- 2. <u>SIGNATURE PAGE</u>: 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. <u>BID BOND</u>: 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. <u>CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES</u>: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2017).
- STATE RESPONSIBILITY AND RECIPROCAL BID PREFERENCE INFORMATION: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2010).
- 6. EQUITY IN CONTRACTING PROGRAM (EIC)

Tacoma Municipal Code section 1.07

There is no EIC requirement on this solicitation. However, the City of Tacoma is committed to equality in contracting for under-utilized minority and women-owned businesses and we encourage you to locate these firms here Office of Minority & Women Owned Businesses (https://omwbe.wa.gov). Please visit the EIC website (https://www.cityoftacoma.org/government/city\_departments/community\_and\_economic\_development/equity\_in\_contracting) for more information.

7. <u>LEAP – Local Employment and Apprenticeship Training Program TMC 1.09</u>

There is no LEAP requirement on this solicitation. However, the City of Tacoma is committed to equality in employment for WA-State approved Apprentices, City of Tacoma residents, residents of local economically distresses areas, youth, veterans, monitories, and women. Please contact the <u>LEAP Office</u> for assistance in locating employees.

#### 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.

#### CITY OF TACOMA FINANCE/PURCHASING DIVISION SPECIAL NOTICE TO BIDDERS

Public works and improvement projects for the City of Tacoma are subject to Washington state law and Tacoma Municipal Code, including, but not limited to the following:

#### I. STATE OF WASHINGTON

#### A. RESPONSIBILITY CRITERIA - STATE OF WASHINGTON

In order to be considered a responsible bidder the bidder must meet the following mandatory state responsibility criteria contained in RCW 39.04.350:

- 1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
- 2. Have a current Washington Unified Business Identifier (UBI) number;
- 3. If applicable:
  - a. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
  - b. Have a Washington Employment Security Department number, as required in Title 50 RCW:
  - c. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW and;
- 4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 (unlicensed or unregistered contractors) or 39.12.065(3) (prevailing wage).
- 5. Have received training on the requirements related to public works and prevailing wage under this chapter and chapter 39.12 RCW and must designate a person or persons to be trained on these requirements. The training must be provided by the department of labor and industries or by a training provider whose curriculum is approved by the department. Bidders that have completed three or more public works projects and have had a valid business license in Washington for three or more years are exempt from this subsection.

#### **B. RECIPROCAL PREFERENCE FOR RESIDENT CONTRACTORS:**

Effective March 30, 2012, RCW 39.04.380 imposes a reciprocal preference for resident contractors. Any bid received from a non-resident contractor from a state that provides an instate percentage bidding preference is subject application of a comparable percentage disadvantage.

A non-resident contractor from a state that provides an in-state percentage bidding preference means a contractor that:

- 1. Is from a state that provides a percentage bid preference to its resident contractors bidding on public works projects, and
- 2. Does not have a physical office located in Washington at the time of bidding on the City of Tacoma public works project.

The state of residence for a non-resident contractor is the state in which the contractor was incorporated, or if not a corporation, the state in which the contractor's business entity was formed.

Revised: 07/29/2020 Page 1 of 4

The City of Tacoma will evaluate all non-resident contractors for an out of state bidder preference. If the state of the non-resident contractor provides an in state contractor preference, a comparable percentage disadvantage will be applied to the non-resident contractor's bid prior to contract award. The responsive and lowest and best responsible bidder after application of any non-resident disadvantage will be awarded the contract.

The reciprocal preference evaluation does not apply to public works procured pursuant to RCW 39.04.155, RCW 39.04.280, federally funded competitive solicitations where such agencies prohibit the application of bid preferences, or any other procurement exempt from competitive bidding.

Bidders must provide the City of Tacoma with their state of incorporation or the state in which the business entity was formed and include whether the bidder has a physical office located in Washington.

The bidder shall submit documentation demonstrating compliance with above criteria on the enclosed State Responsibility and Reciprocal Bidder Information form.

#### C. SUBCONTRACTOR RESPONSIBILITY

- The Contractor shall include the language of this subcontractor responsibility section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. The requirements of this section apply to all subcontractors regardless of tier.
- 2. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria:
  - Have a current certificate of registration as a contractor in compliance with chapter
     18.27 RCW, which must have been in effect at the time of subcontract bid submittal;
  - b. Have a current Washington Unified Business Identifier (UBI) number;
  - c. If applicable, have:
  - a. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
  - b. A Washington Employment Security Department number, as required in Title 50 RCW
  - c. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
  - d. An electrical contractor license, if required by Chapter 19.28 RCW;
  - e. An elevator contractor license, if required by Chapter 70.87 RCW and;
- 3. Not be disqualified from bidding on any public works contract under RCW 39.06.010 (unlicensed or unregistered contractors) or 39.12.065(3) (prevailing wage).

Revised: 07/29/2020 Page 2 of 4

#### **II. CITY OF TACOMA**

#### A. SUPPLEMENTAL RESPONSIBILITY CRITERIA - CITY OF TACOMA:

In order to be considered a responsible bidder, the prospective bidder shall have all of the following qualifications set forth in Tacoma Municipal Code 1.06.262:

- 1. Adequate financial resources or the ability to secure such resources;
- 2. The necessary experience, stability, organization and technical qualifications to perform the proposed contract;
- 3. The ability to comply with the required performance schedule, taking into consideration all existing business commitments;
- 4. A satisfactory record of performance, integrity, judgment and skills; and
- 5. Be otherwise qualified and eligible to receive an award under applicable laws and regulations.
  - a. Bidder Responsibility. Bidders shall not be in violation of 39.04.350 RCW Bidder Responsibility Criteria Supplemental Criteria.

In addition to the mandatory bidder responsibility criteria listed immediately above, the City may, in addition to price, consider any or all of the following criteria contained in Tacoma Municipal Code Chapter 1.06.262 in determining bidder responsibility:

- 1. The ability, capacity, experience, stability, technical qualifications and skill of the respondent to perform the contract;
- 2. Whether the respondent can perform the contract within the time specified, without delay or interference:
- 3. Integrity, reputation, character, judgment, experience, and efficiency of the respondents, including past compliance with the City's Ethics Code;
- 4. Quality of performance of previous contracts;
- 5. Previous and existing compliance with laws and ordinances relating to contracts or services;
- 6. Sufficiency of the respondent's financial resources;
- 7. Quality, availability, and adaptability of the supplies, purchased services or public works to the particular use required;
- 8. Ability of the respondent to provide future maintenance and service on a timely basis;
- 9. Payment terms and prompt pay discounts;
- 10. The number and scope of conditions attached to the submittal;
- 11. Compliance with all applicable City requirements, including but not limited to the City's Ethics Code and its Equity in Contracting and Local Employment and Apprenticeship Training programs;
- 12. Other qualification criteria set forth in the specification or advertisement that the appropriate department or division head determines to be in the best interests of the City.

The City may require bidders to furnish information, sworn or certified to be true, to demonstrate compliance with the City responsibility criteria set forth above. If the city manager or director of utilities is not satisfied with the sufficiency of the information provided, or if the prospective respondent does not substantially meet all responsibility requirements, any submittal from such respondent must be disregarded.

Revised: 07/29/2020 Page 3 of 4

#### B. ADDITIONAL SUPPLEMENTAL CRITERIA - NOT APPLICABLE

#### C. MODIFICATIONS TO SUPPLEMENTAL CRITERIA

Potential bidders may request modifications to the City's **supplemental criteria** by submitting a written request to the Purchasing Division via email to <a href="mailto:bids@cityoftacoma.org">bids@cityoftacoma.org</a> no later than 5:00 p.m. Pacific Time, three days prior to the submittal deadline. Please include the Specification No. and Title when submitting such requests. Requests must include justification for why certain criteria should be modified. Requests received after this date and time will not be considered.

The City will respond to a timely submitted request prior to the bid opening date. Changes to the supplemental criteria, if warranted, will be issued by addendum to the solicitation documents and posted to the City's website for the attention of all prospective bidders.

#### D. DETERMINATION OF BIDDER RESPONSIBILITY

If the City determines the bidder does not meet the criteria above and is therefore not a responsible bidder, the City shall notify the bidder in writing with the reasons for its determination. If the bidder disagrees, the bidder may appeal the determination in a manner consistent with the City's Protest Policy. Appeals are coordinated by the Purchasing Division heard by the Procurement and Payables Division manager for contracts less than or equal to \$500,000 and by Contracts and Awards Board for contracts greater than \$500,000.

Revised: 07/29/2020 Page 4 of 4

### PART I

### BID PROPOSAL AND CONTRACT FORMS

### BID PROPOSAL

SPECIFICATION NO. PW22-0141F

#### SIDEWALK REPLACEMENT, WEST END

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-00714-03 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.

ITEM NO.	SPEC.	ITEM DESCRIPTION	ESTIMA QUAN		UNIT PRICE	TOTAL AMOUNT
	NO.		<u>Unit</u>	<u>No.</u>		
1	1-07	SPCC Plan	Lump Sum	1	Lump Sum	\$
2	1-09	Mobilization	Lump Sum	1	Lump Sum	\$
3	1-10	Arterial Site Temporary Traffic Control	Each	7	\$	\$
4	1-10	Residential Site Temporary Traffic Control	Each	23	\$	\$
5	2-03	Excavation of Contaminated Material, Incl. Haul	Cu. Yd.	5	\$	\$
6	2-14	Remove Existing Pavement, Asphalt	Sq. Yd.	35	\$	\$
7	2-14	Remove Existing Pavement, Concrete	Sq. Yd.	640	\$	\$

Contractor's Name:	
Specification No. PW22-0141F	
Page 1 of 3	

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	ESTIMA QUAN		UNIT PRICE	TOTAL AMOUNT
8	2-15	Remove Curb	Lin. Ft.	90	\$	\$
9	2-17	Contaminated Soil; Health, Safety and Soil Management	Lump Sum	1	Lump Sum	\$
10	4-04	Crushed Surfacing Top Course	Ton	10	\$	\$
11	5-04	HMA CL 1/2" PG 58H-22	Ton	20	\$	\$
12	8-01	Erosion/Water Pollution Control	Force Account	1	\$1,000	\$1,000
13	8-01	Update and Manage City Prepared Stormwater Pollution Prevention Plan (SWPPP)	Lump Sum	1	Lump Sum	\$
14	8-04	Cement Conc. Traffic Curb and Gutter	Lin. Ft.	55	\$	\$
15	8-06	Cement Conc. Driveway Entrance	Each	1	\$	\$
16	8-14	Cement Conc. Sidewalk, 4 Inch Thickness	Sq. Yd.	865	\$	\$
17	8-14	Cement Conc. Sidewalk, 6 Inch Thickness	Sq. Yd.	25	\$	\$
18	8-14	Cement Conc. Curb Ramp	Each	7	\$	\$
Total Bas	e Bid		\$			

#### **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 (%)
Bidder Preference, and will not affect to are exactly equal, in which case propo in Section 1-03.1 of the Special Provisi goal the Contractor should do its bes	ghly encouraged within the limits shown above, but does not constitute a he determination of award, unless two or more lowest responsive Bid totals sed recycling percentages will be used as a tie-breaker, per the APWA GSP ions. Regardless, the Bidder's stated proposed percentages will become a to accomplish. Bidders will be required to report on recycled materials in accordance with the APWA GSP in Section 1-06.6 of the Special Provisions.
Bidder:	
Signature of Authorized Official:	
Date:	

#### SIGNATURE PAGE

# CITY OF TACOMA PUBLIC WORKS ENGINEERING

All submittals must be in ink or typewritten, executed by a duly authorized officer or representative of the bidding/proposing entity, and received and time stamped as directed in the **Request for Bids page near the beginning of the specification**. If the bidder/proposer is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.

## REQUEST FOR BIDS SPECIFICATION NO. PW22-0141F SIDEWALK REPLACEMENT, WEST END

The undersigned bidder/proposer hereby agrees to execute the proposed contract and furnish all materials, labor, tools, equipment and all other facilities and services in accordance with these specifications.

The bidder/proposer agrees, by submitting a bid/proposal under these specifications, that in the event any litigation should arise concerning the submission of bids/proposals or the award of contract under this specification, Request for Bids, Request for Proposals or Request for Qualifications, 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.

#### **Non-Collusion Declaration**

The undersigned bidder/proposer hereby certifies under penalty of perjury that this bid/proposal is genuine and not a sham or collusive bid/proposal, or made in the interests or on behalf of any person or entity not herein named; and that said bidder/proposer has not directly or indirectly induced or solicited any contractor or supplier on the above work to put in a sham bid/proposal or any person or entity to refrain from submitting a bid/proposal; and that said bidder/proposer has not, in any manner, sought by collusion to secure to itself an advantage over any other contractor(s) or person(s).

Bidder/Proposer's Registered Name	Signature of Person Authorized to Enter into Contracts for Bidder/Proposer					
Address		-				
		Printed	d Name ar	nd Title		
City, State, Zip						
		(Area	Code) Tel	ephone Numb	er / Fax Numb	er
Authorized Signatory E-Mail Address						
				icense Number	er siness Identifier) N	Number
E.I.No. / Federal Social Security Number Used on Quarterly Federal Tax Return, U.S. Treasury Dept. Form 941				0 021 (010 2 2 4	,	
			Contractor Ch. 18.27,	's License Nu R.C.W.)	mber	
E-Mail Address for Communications						
ddendum acknowledgement #1	#2		#3	#4	#5	
duendum acknowledgement #1	# Z_		# J	# <b>-+</b>	# J	<u> </u>

THIS PAGE MUST BE SIGNED AND RETURNED WITH SUBMITTAL.

Form No. SPEC-080A Revised: 06/01/2021

Herewith find deposit in the form of a cashier's ch	neck in the amount of \$	which
amount is not less than 5-percent of the total bid.		
	SIGN HERE	
	SIGN FIERL	
	BID BOND	
KNOW ALL MEN BY THESE PRESENTS:		as Principal and
That we,		, as Frincipal, and, as Surety, are held
and firmly bound unto the City of Tacoma, as Obl		
and the Surety bind themselves, their heirs, exec severally, by these presents.	utors, administrators, succes	sors and assigns, jointly and
The condition of this obligation is such that if the	Obligee shall make any awar	d to the Principal for
according to the terms of the proposal or bid made and enter into a contract with the Obligee in according shall give bond for faithful performance thereof Principal shall, in case of failure to do so, pay specified in the call for bids, then this obligation force and effect and the Surety shall forthwith damages, the amount of this bond.	ordance with the terms of sain, with Surety or Sureties appeand forfeit to the Obligee the shall be null and void; otherwards	d proposal or bid and award and proved by the Obligee; or if the he penal amount of the deposit wise it shall be and remain in full
SIGNED, SEALED AND DATED THIS	DAY OF	, 20
PRINCIPAL:	SURETY:	
		, 20
Received return of deposit in the sum of \$		

Form No. SPEC-090A Revised: 08/2004



### Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (August 9, 2022), 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 □ Corporation □ Joint Venture □ 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:

<sup>\*</sup> 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.

	Conscisionation No.			
<b>N</b>	Specification NoName of Bidder:			
State Responsibility and Reciprocal E				
Certificate of registration as a contractor	Number:			
(Must be in effect at the time of bid submittal):	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:			
region anon number.	☐ Not Applicable			

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

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

If incorporated, in what state were you incorporated?

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

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

If yes, provide an explanation of your disqualification on a separate page.

☐ Yes □ No

State: ☐ Not Incorporated

State:

☐ Yes ☐ No



City of Tacoma Community & Economic Development Office of Equity in Contracting 747 Market Street, Rm 900 Tacoma WA 98402

#### **EQUITY IN CONTRACTING UTILIZATION FORM**

This form is to document **only** the contractors, subcontractors, which are intended to be used to meet the stated EIC requirements for the contract awarded from this solicitation. This information will be used to determine contract award. Additional forms may be used if needed.

- You must include this form with your bid submittal in order for your bid to be responsive.
- Prime contractors are **required** to solicit bids from Certified Businesses approved by the Washington State Office of Minority & Women's Business Enterprises (OMWBE).
- It is the prime contractor's responsibility to check the certification status of the firms intended to be utilized prior to the submittal deadline.

Bidder's Nan	ne:											
Address:			(	City/State/Zip:								
Spec. No	Base Bid *	· \$	(	Complete company names and phone numbers are required to verify your usage of qualifying firms.								
Compan	a. ny Name and Certification Number(s)	b. MBE, WBE, or SBE (Write all that apply)	c. NAICS code(s)	d. Contractor Bid Amount (100%)	e. Material Supplier Bid Amount (20%)	f. Estimated MBE Usage Dollar Amount	g. Estimated WBE Usage Dollar Amount	h. Estimated SBE Usage Dollar Amount				
i. MBE Uti	lization %	j. WBE Utilization	. %	<b>k.</b> SBE Uti	lization %							
By signing ar	nd submitting this form the bidd	ler certifies that the	Certified Businesse	es listed will be used or	n this project including	all applicable chang	ge orders.					
Type or Print	Name of Responsible Officer / T	itle	Signature of	f Responsible Officer		Date						

# INSTRUCTIONS FOR COMPLETING EIC UTILIZATION FORM

The purpose of these instructions is to assist bidders in properly completing the EIC Utilization Form.

This form when submitted with your bid provides information to the City of Tacoma to accurately review and evaluate your proposed EIC usage.

- 1. \* Base Bid is the prime contractor's bid, plus any alternates, additives and deductive selected by the City. Also, please refer to Items #10-12 below.
- 2. Column "a" List all Certified Businesses that you will be awarding a contract to if you are the successful bidder.
- 3. Column "b" Identify if this firm is being utilized as an MBE, WBE, or SBE. (Firms may count towards multiple requirements)
- 4. Column "c" List the appropriate NAICS code for the scope of work, services, or materials/supplies for each contractor.
- 5. Column "d" The bid amount must be indicated for *Certified Businesses* listed *EIC* that you plan on doing business with. This quote is the price that you and the contractor have negotiated prior to bid opening.
- 6. Column "e" The bid amount must be indicated for *Certified Businesses* listed *EIC* that you plan on doing business with. This quote is the price that you and the material supplier have negotiated prior to bid opening.
- 8. Column "f" Estimated MBE Usage Dollar Amount: For all MBE firms used, multiply the amount in Column "d" by 1.0 plus the amount in Column "e" by 0.20. Insert the total amount in this column.
- 9. Column "g" Estimated WBE Usage Dollar Amount: For all WBE firms used, multiply the amount in Column "d" by 1.0 plus the amount in Column "e" by 0.20. Insert the total amount in this column.
- 10. Column "h" Estimated SBE Usage Dollar Amount: For all MBE, WBE, or SBE firms used, Multiply the amount in Column "d" by 1.0 plus the amount in Column "e" by 0.20. Insert the total amount in this column.
- 11. Block "i" The percent of actual MBE utilization calculated on the Base Bid only. (Divide the sum of Estimated MBE Usage Dollar Amount (Column "f") by your Base Bid (\*) then multiply by 100 to get a percentage: \$ amounts from column "f" divided by Base Bid (\*) x 100 = EIC usage as a percent of the Base Bid.)
- 12. Block "j" The percent of actual WBE utilization calculated on the Base Bid only. (Divide the sum of Estimated WBE Usage Dollar Amount (Column "g") by your Base Bid (\*) then multiply by 100 to get a percentage: \$ amounts from column "g" divided by Base Bid (\*) x 100 = EIC usage as a percent of the Base Bid.)

13.	. Block "k	۲" – T۲	ne perce	nt of ac	tual SBE	utilizatio	n calcı	ılated o	n the E	Base E	Bid only.	(Divide	the sum	of Estima	ated SBE	Usa	age
	Dollar A	\moun	t (Colun	nn "h") l	by your B	ase Bid (	*) then	n multipl	y by 1	00 to	get a pe	rcentage	: \$ amou	ınts from	column '	'h" d	ivided
	by Base	e Bid (	*) x 100	= EIC (	usage as	a percen	t of the	e Base I	Bid.)								

It is the prime contractor's responsibility to check the status of Certified Businesses prior to bid opening. Call the EIC Office at 253-591-5630 for additional information.

### CONTRACT

Resolution No. Contract No.

This Contract is made and entered into effective this \_\_\_\_\_ day of Choose an item. 20 , ("Effective Date") by and between the City of Tacoma, a Municipal Corporation of the State of Washington ("City"), and ("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. and together with all authorized addenda.
  - 2. Contractor's submittal (or specifically described portions thereof) dated response to Specification No. and submitted in
  - 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.

Remove this paragraph and #1 and #2 if there are no additional attachments to the contract (attachments would be things other than a specific, contract, or bonds).

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.
- II. The total price to be paid by City for Contracts full and complete performance hereunder may not exceed: , plus applicable sales tax.
- III. 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.
- IV. 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.
- V. 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.
- VI. 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:
Ву:		Ву:	
	Enter title of dept or div staff w/auth to sign for this \$ am	t	Signature
Ву:			
	Choose an item.		Printed Name
_			

Form No. SPEC-120A Revised: 06/28/2018

Ву:		
Director of Finance	Title	
APPROVED AS TO FORM:		
Ву:		
City Attorney		



Form No. SPEC-120A Revised: 06/28/2018



# PAYMENT BOND TO THE CITY OF TACOMA

Resolution No.

That we, the undersigned,		
as principal, and		_
as a surety, are jointly and severally held and firmly b	pound to the CITY OF TACOMA, in the penal sum of,	
\$ , for the	e 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 th Tacoma.	e statutes of the State of Washington, the Ordinances of the City of	
WHEREAS, under and pursuant to the City Cha about to enter with the above bounden principal, a co	rter and general ordinances of the City of Tacoma, the said City has or is ontract, 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 waivers 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.

Form No. SPEC-100B 04/09/2020

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	
Ву:	
Surety:	
Ву:	
Agent's Name:	
Agent's Address:	

Form No. SPEC-100B 04/09/2020



# PERFORMANCE BOND TO THE CITY OF TACOMA

Resolution No.
Bond No.

	Dorid No.
That we, the undersigned,	
as principal, and	
as a surety, are jointly and severally held and firmly bound to	·
	nt whereof Contractor and Surety bind themselves,
	sors and assigns, jointly and severally, firmly by these presents.
This obligation is entered into in pursuance of the statute Tacoma.	s of the State of Washington, the Ordinances of the City of
WHEREAS, under and pursuant to the City Charter and gabout to enter with the above bounden principal, a contract, p	general ordinances of the City of Tacoma, the said City has or is providing for
Specification No.	
Specification Title:	
Contract No.	
(which contract is referenced to beggin and is made a part ba	roof on through attached horato) and
(which contract is referenced to herein and is made a part her	
the manner and within the time set forth.	ntract, and undertake to perform the work therein provided for in
and conditions of all duly authorized modifications, additions a	if and when the principal, its heirs, executors, administrators, he Principal's obligations under the Contract and fulfill all terms and changes to said Contract that may hereafter be made, at the ance obligations have not been fulfilled, this bond shall remain in
specifications accompanying the Contract, or to the work to b	ension of time, alteration or addition to the terms of the Contract and changes to the terms and conditions of the Contract that
	he Surety for recovery hereunder, then the Surety, in addition to ed by the City in enforcement of its rights hereunder. Venue for oe in Pierce County, Washington.
	nsact business in the State of Washington as surety and named I Bonds" as published in the Federal Register by the Audit Staff
One original bond shall be executed, and signed by the partie accompanied by a fully executed power of attorney for the off	es' duly authorized officers. This bond will only be accepted if it is ice executing on behalf of the surety.
Principal: Enter Vendor Legal Name	
Ву:	
Surety:	
Ву:	
Agent's Name:	
Agent's Address:	

Form No. SPEC-100A 04/09/2020



Cit∖	≀of ˈ	Tacoma Contract No.:	Specification No.:
• ,	٠.	i accina continuot i ton	

# **General Release to the City of Tacoma**

The undersigned, named as	the Contractor in a certain agreement between
contractor name and the Cit	y of Tacoma, dated, 20, hereby
releases the City of Tacoma	a, its departmental officers, employees, and
agents, from any and all cla	im or claims known or unknown, in any manner
whatsoever, arising out of, o	or in connection with, or relating to said contract,
excepting only the equity of	the undersigned in the amount now retained by
the City of Tacoma under sa	aid contract, to-wit: the sum of
\$	
Signed on this	_ day of, 20
	Contractor Name
	Contractor Authorized Signature
	Title
	Type or Print Signature Name

Form No. SPEC-140A Rev. 09/04/2014

# PART II SPECIAL PROVISIONS

### **Table of Contents**

INTRODUCTION	1
DESCRIPTION OF WORK	2
1-01 DEFINITIONS AND TERMS	3
1-01.3 Definitions	3
1-02 BID PROCEDURES AND CONDITIONS	6
1-02.1 Prequalification of Bidders	6
1-02.1 Qualifications of Bidder	6
1-02.2 Plans and Specifications	6
1-02.4(1) General	6
1-02.5 Proposal Forms	6
1-02.6 Preparation of Proposal	7
1-02.6(1) Recycled Materials Proposal	7
1-02.7 Bid Deposit	8
1-02.9 Delivery of Proposal	8
1-02.10 Withdrawing, Revising, or Supplementing Proposal	9
1-02.12 Public Opening of Proposals	9
1-02.13 Irregular Proposals	9
1-02.14 Disqualification of Bidders	10
1-02.15 Pre Award Information	11
1-03 AWARD AND EXECUTION OF CONTRACT	12
1-03.1 Consideration of Bids	12
1-03.1(1) Identical Bid Totals	12
1-03.2 Award of Contract	12
1-03.3 Execution of Contract	12
1-03.4 Contract Bond	13
1-03.4(1) Retainage in Lieu of Contract Bond	14
1-03.5 Failure to Execute Contract	14
1-03.7 Judicial Review	14
1-04 SCOPE OF THE WORK	15
1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specific	
and Addenda	
1-04.6 Variation in Estimated Quantities	
1-05 CONTROL OF WORK	
1-05.3 Working Drawings	
1-05 3 Submittals	16

1-05.3(1) Submittal Schedule	16
1-05.3(2) Submittal Procedures	16
1-05.3(3) Engineer's Review of Submittals	17
1-05.3(4) Resubmittals	18
1-05.3(5) Submittal Requirements by Section	18
1-05.7 Removal of Defective and Unauthorized Work	19
1-05.11 Final Inspection	19
1-05.11 Final Inspections and Operational Testing	19
1-05.11(1) Substantial Completion Date	19
1-05.11(2) Final Inspection and Physical Completion Date	20
1-05.11(3) Operational Testing	20
1-05.12(1) One-Year Guarantee	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
1-06 CONTROL OF MATERIAL	24
1-06.1 Approval of Materials Prior To Use	24
1-06.1(1) Qualified Products List (QPL)	24
1-06.1(2) Request for Approval of Material (RAM)	24
1-06.6 Recycled Materials	24
1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC	25
1-07.1 Laws to be Observed	25
1-07.2 State Taxes	25
1-07.4 Sanitation	25
1-07.4(2) Health Hazards	25
1-07.9 Wages	26
1-07.9(5) Required Documents	26
1-07.9(5)C Certified Payrolls	26
1-07.15 Temporary Water Pollution/Erosion Control	26
1-07.15(1) Spill Prevention, Control and Countermeasures Plan	27
1-07.16 Protection and Restoration of Property	30
1-07.16(1) Private/Public Property	30
1-07.17 Utilities and Similar Facilities	30
1-07.18 Public Liability and Property Damage Insurance	31
1-07.18 Insurance	31
1-07 23 Public Convenience and Safety	32

1-07.23(1) Construction Under Traffic	32
1-07.23(2) Construction and Maintenance of Detours	34
1-07.24 Rights of Way	35
1-08 PROSECUTION AND PROGRESS	36
1-08.0 Preliminary Matters	36
1-08.0(1) Preconstruction Conference	36
1-08.0(2) Hours of Work	36
1-08.0(3) Reimbursement for Overtime Work of Contracting Agency Employee	es37
1-08.1 Subcontracting	37
1-08.3(2)B Type B Progress Schedule	38
1-08.3(2)D Weekly Look-Ahead Schedule	38
1-08.4 Prosecution of Work	38
1-08.4 Notice to Proceed and Prosecution of Work	38
1-08.5 Time for Completion	39
1-08.9 Liquidated Damages	40
1-09 MEASUREMENT AND PAYMENT	41
1-09.2(1) General Requirements for Weighing Equipment	41
1-09.6 Force Account	41
1-09.7 Mobilization	41
1-09.9 Payments	42
1-09.9(1) Retainage	44
1-09.11(3) Time Limitation and Jurisdiction	44
1-09.13(3)A Administration of Arbitration	44
1-09.13(4) Venue for Litigation	45
1-10 TEMPORARY TRAFFIC CONTROL	46
1-10.1 General	46
1-10.1(2) Description	46
1-10.2 Traffic Control Management	46
1-10.2(1) General	46
1-10.2(2) Traffic Control Plans	47
1-10.3 Traffic Control Labor, Procedures, and Devices	47
1-10.3(1) Traffic Control Labor	47
1-10.3(1)A Flaggers and Spotters	48
1-10.3(1)B Other Traffic Control Labor	48
1-10.3(3)C Portable Changeable Message Sign	48
1-10 / Measurement	40

1-10.4(1) Lump Sum Bid for Project (No Unit Items)	49
1-10.4(2) Item Bids with Lump Sum for Incidentals	49
1-10.5 Payment	49
1-10.5(1) Lump Sum Bid for Project (No Unit Items)	49
2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP	50
2-01.1 Description	50
2-01.2 Disposal of Usable Material and Debris	50
2-01.3(1) Clearing	50
2-01.3(1)A Tree Protection	51
2-01.3(5) Definition of Vegetation	51
2-01.5 Payment	51
2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS	52
2-02.3(3) Removal of Pavement, Sidewalks, and Curbs	52
2-03 ROADWAY EXCAVATION AND EMBANKMENT	53
2-03.1 Description	53
2-03.3(5) Slope Treatment	53
2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters	53
2-03.5 Payment	53
2-07 WATERING	54
2-07.3 Construction Requirements	54
2-07.3(1) Water Supplied from Hydrants	54
2-14 PAVEMENT REMOVAL	55
2-14.1 Description	55
2-14.2 Pavement Classification	55
2-14.3 Construction Requirements	56
2-14.4 Measurement	56
2-14.5 Payment	56
2-15 CURB AND CURB AND GUTTER REMOVAL	57
2-15.1 Description	57
2-15.2 Curb Classification	57
2-15.3 Construction Requirements	57
2-15.4 Measurement	57
2-15.5 Payment	57
2-17 CONTROL AND MANAGEMENT OF CONTAMINATED MATE	
SMELTER PLUME	
2-17.1 Description	
2-17 1(1) General	58

2-17	7.1(2) Site Description	58
2-17	7.1(2)A Historical Land Use	59
2-17	7.1(3) Soil Management	59
2-17	7.1(4) Submittals	59
2-17	7.2 Health and Safety	59
2-17	7.2(1) Health and Safety Laws and Regulations	59
2-17	7.2(2) Health and Safety Plan	60
2-17	7.2(3) Health and Safety Officer	61
2-17	7.2(4) Contractor Safety Equipment	61
2-17	7.2(5) Soil Management Plan	61
2-17	7.3(1) Notification	62
2-17	7.3(2) Transportation	62
2-17	7.3(2)A General	62
2-17	7.3(2)B Control of Waste Material	62
2-17	7.3(2)C Street Sweeping	62
2-17	7.3(2)D Transportation and Shipping Requirements	62
2-17	7.3(3) Off-site Treatment and Disposal	63
2-17	7.4 Measurement	63
2-17	7.5 Payment	63
3-04	ACCEPTANCE OF AGGREGATE	64
3-04	1.1 Description	64
3-04	1.3(1) General	64
3-04	1.3(4) Testing Results	64
3-04	1.3(6) Statistical Evaluation	64
4-04	BALLAST AND CRUSHED SURFACING	65
4-04	1.5 Payment	
5-04	HOT MIX ASPHALT	
	1.2 Materials	
	4.2(1) How to Get an HMA Mix Design on the QPL	
	4.2(2) Mix Design – Obtaining Project Approval	
	4.2(2)B Using HMA Additives	
	1.3 Construction Requirements	
	4.3(2) Paving Under Traffic	
	4.3(3)C Pavers	
	4.3(3)D Material Transfer Device or Material Transfer Vehicle	
5-04	4.3(4)C Pavement Repair	68

	5-04.3(6) Mixing	68
	5-04.3(8) Aggregate Acceptance prior to Incorporation in HMA	69
	5-04.3(9) HMA Mixture Acceptance	69
	5-04.3(9)A Test Sections	69
	5-04.3(9)B Mixture Acceptance – Statistical Evaluation	69
	5-04.3(9)B Mixture Acceptance – Nonstatistical Evaluation	70
	5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots	70
	5-04.3(9)B1 Mixture Nonstatistical Evaluation – Lots and Sublots	70
	5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results	70
	5-04.3(10)B HMA Compaction - Cyclic Density	71
	5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots	71
	5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing	71
	5-04.3(10)C2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing	71
	5-04.4 Measurement	71
	5-04.5 Payment	72
6	3-02 CONCRETE STRUCTURES	73
	6-02.3(1) Classification of Structural Concrete	73
	6-02.3(2)B Commercial Concrete	73
7	7-02 CULVERTS	74
	7-02.2 Materials	74
	7-02.3 Construction Requirements	74
	7-02.5 Payment	74
8	3-01 EROSION CONTROL AND WATER POLLUTION CONTROL	75
	8-01.1 Description	75
	8-01.3 Construction Requirements	75
	8-01.3(1) General	75
	8-01.3(1)A Submittals	75
	8-01.3(1)B Erosion and Sediment Control (ESC) Lead	75
	8-01.3(1)C Water Management	
	8-01.3(2) Temporary Seeding and Mulching	
	8-01.3(2)B Temporary Seeding	
	8-01.3(2)D Temporary Mulching	
	8-01.3(2)E Tackifiers	
	8-01.3(8) Street Cleaning	
	8-01.3(9) Sediment Control Barriers	
	8-01.3(9)D Inlet Protection	77

8-0	01.3(10) Wattles	78
8-0	11.4 Measurement	78
8-0	01.4(2) Item Bids	78
8-0	11.5 Payment	78
8-0	11.5(2) Item Bids	78
8-02	ROADSIDE RESTORATION	79
8-0	2.3 Construction Requirements	79
8-0	2.3(5) Roadside Seeding, Lawn and Planting Area Preparation	79
8-0	2.3(5)B Lawn Area Preparation	79
8-0	2.3(6) Mulch and Amendments	79
8-0	02.3(8) Planting	79
8-0	2.3(8)C Pruning, Staking, Guying and Wrapping	79
8-0	2.3(10) Lawn Installation	80
8-0	2.3(10)A Dates and Conditions for Lawn Installation	80
8-0	2.3(10)B Lawn Seeding and Sodding	80
8-0	2.3(10)C Lawn Establishment	81
8-0	2.3(11) Mulch	81
8-0	2.3(11)B Bark or Wood Chip Mulch	81
8-0	2.3(14) Plant Replacement	81
8-02.3(17) Site Restoration		81
8-0	2.4 Measurement	82
8-0	2.5 Payment	82
8-03	IRRIGATION SYSTEM	83
8-0	3.3 Construction Requirements	83
8-0	3.3(5) Installation	83
8-04	CURBS, GUTTERS, AND SPILLWAYS	84
8-0	4.3(1) Cement Concrete Curbs, Gutters, and Spillways	84
8-0	4.3(1)C Integral Cement Concrete Curb	84
8-0	4.3(6) Cold Weather Work	84
8-0	04.5 Payment	84
8-06	CEMENT CONCRETE DRIVEWAY ENTRANCES	85
8-0	06.3 Construction Requirements	85
	06.3(1) Cold Weather Work	
8-0	06.5 Payment	85
8-14	CEMENT CONCRETE SIDEWALKS	
Q <sub>-</sub> 1	4.3 Construction Requirements	86

	8-14.3(3) Placing and Finishing Concrete	86
	8-14.3(4) Curing	86
	8-14.3(6) Cold Weather Work	86
	8-14.3(7) Thickened Edge for Sidewalk	87
	8-14.3(8) Timing	87
	8-14.4 Measurement	87
	8-14.5 Payment	87
9	-03 AGGREGATES	89
	9-03.1 Aggregates for Portland Cement Concrete	89
	9-03.1(1) General Requirements	89
	9-03.6 Vacant	89
	9-03.6 Aggregates for Asphalt Treated Base (ATB)	89
	9-03.6(1) General Requirements	89
	9-03.6(2) Grading	89
	9-03.6(3) Test Requirements	89
	9-03.8 Aggregates for Hot Mix Asphalt	90
	9-03.12 Gravel Backfill	90
	9-03.12(10) Pea Gravel	90
	9-03.21 Recycled Material	90
	9-03.21(1) General Requirements	91

#### INTRODUCTION (April 1, 2022 Tacoma GSP)

The following special provisions shall be used in conjunction with the "2022 Standard Specifications for Road, Bridge and Municipal Construction" and "Standard Plans for Road, Bridge, and Municipal Construction" as prepared by the Washington State Department of Transportation (WSDOT). State Standard Specifications are available through WSDOT, by calling (360) 705-7430, emailing engrpubs@wsdot.wa.gov, or may be downloaded, free of charge, from this location on the WSDOT home page: http://www.wsdot.wa.gov/Publications/Manuals/M41-10.htm

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

The GSPs are labeled under the headers of each GSP, with the effective date of the GSP and its source. For example:

```
(May 18, 2007 APWA GSP)
(August 7, 2006 WSDOT GSP)
(April 2, 2007 Tacoma GSP)
```

The project specific Special Provisions are labeled under the headers of each Special Provision as follows:

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

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

Also incorporated into the Contract Documents by reference are:

  Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any

 2. Standard Plans for Road, Bridge and Municipal Construction, WSDOT/APWA, current edition

3. City of Tacoma Standard Plans

 4. City of Tacoma Right-of-Way Restoration Manual

A pre-bid conference will not be held.

### DESCRIPTION OF WORK (\*\*\*\*\*\*)

This Contract shall generally consist of providing for the improvement of unfit or unsafe sidewalk at various addresses within the West End of Tacoma. Contaminated soils resulting from the ASARCO Plume fall out is possible within the project limits. Sidewalk replacement work includes removal and disposal of existing sidewalk, sawcutting, expansion joints (some using a product called TripStop), score joints, removal/replacement and compaction of base material, formwork and curing compound to the dimensions at the locations listed in Appendix A of these special provisions or as directed by the Engineer. The locations listed in Appendix A are a representative of work to be completed, which are mostly in residential areas. A more exact list will be provided to the contractor upon issuance of the Notice to Proceed as a Change Order, bid pricing shall apply to this revised list.

Prior to starting work, the Contractor shall meet with the Engineer to establish a test site, from one of the locations provided to the contractor, for the Prime Contractor or its Subcontractors to construct. The purpose of the test site is to establish a basis of acceptance for the sidewalk replacement. Sidewalk installed without prior approval of the Engineer and does not meet with the contract requirements shall be removed and replaced at no cost to the City.

The Contractor shall submit a draft of the notification prior to posting/mailing. The door hanger/mailing shall advise the occupants of the construction schedule and indicate the Contractor's name, contact person, and telephone numbers. The Contractor shall leave a notice for the occupants at each address for sidewalk reconstruction via door hanger/mailing a minimum of one (1) week prior to start of construction. The Contractor shall also provide the date of when such notices were provided to the occupants.

Only 10 addresses shall have the sidewalk removed at any one time per assigned crew for this project. A crew is comprised of enough personnel to remove, form, place, finish and provide restoration as required by these contract specifications. The Contractor shall perform removal and replacement of sidewalk, site restoration and all incidentals at each location within 5 working days. Multiple crews may be utilized for this work as approved by the City. The makeup (staff and equipment) of each crew shall be submitted to the City for review.

The Contractor shall maintain a neat appearance at the work site in all areas visible to the public. Broken concrete, asphalt concrete, soil, roots and other debris developed during construction shall be disposed of concurrently with its removal on a daily basis.

#### **END OF SECTION**

#### 1 1-01 **DEFINITIONS AND TERMS** 2 3 1-01.3 Definitions 4 (January 19, 2022 APWA GSP) 5 6 Delete the heading Completion Dates and the three paragraphs that follow it, and replace 7 them with the following: 8 9 **Dates** 10 **Bid Opening Date** 11 The date on which the Contracting Agency publicly opens and reads the Bids. 12 **Award Date** 13 The date of the formal decision of the Contracting Agency to accept the lowest 14 responsible and responsive Bidder for the Work. 15 **Contract Execution Date** 16 The date the Contracting Agency officially binds the Agency to the Contract. 17 **Notice to Proceed Date** 18 The date stated in the Notice to Proceed on which the Contract time begins. 19 **Substantial Completion Date** 20 The day the Engineer determines the Contracting Agency has full and unrestricted use 21 and benefit of the facilities, both from the operational and safety standpoint, any 22 remaining traffic disruptions will be rare and brief, and only minor incidental work, 23 replacement of temporary substitute facilities, plant establishment periods, or correction 24 or repair remains for the Physical Completion of the total Contract. 25 **Physical Completion Date** 26 The day all of the Work is physically completed on the project. All documentation 27 required by the Contract and required by law does not necessarily need to be furnished 28 by the Contractor by this date. 29 **Completion Date** 30 The day all the Work specified in the Contract is completed and all the obligations of the 31 Contractor under the contract are fulfilled by the Contractor. All documentation required 32 by the Contract and required by law must be furnished by the Contractor before 33 establishment of this date. 34 Final Acceptance Date 35 The date on which the Contracting Agency accepts the Work as complete. 36 37 Supplement this Section with the following: 38 39 All references in the Standard Specifications or WSDOT General Special Provisions, to 40 the terms "Department of Transportation", "Washington State Transportation 41 Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters", 42 and "State Treasurer" shall be revised to read "Contracting Agency". 43 All references to the terms "State" or "state" shall be revised to read "Contracting 44 45 Agency" unless the reference is to an administrative agency of the State of Washington, 46 a State statute or regulation, or the context reasonably indicates otherwise. 47 48 All references to "State Materials Laboratory" shall be revised to read "Contracting Agency designated location". 49

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

#### **Additive**

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

9 to the ba

#### Alternate

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

#### **Business Day**

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

#### **Contract Bond**

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

#### **Contract Documents**

See definition for "Contract".

#### 23 Contract Time

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

#### Notice of Award

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

#### **Notice to Proceed**

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

#### **Traffic**

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

This section is supplemented with the following:

#### (April 15, 2020 Tacoma GSP)

All references to the acronym UDBE" shall be revised to read "DBE/EIC".

All references in the Standard Specifications to the term "Proposal Bond" shall be revised to read "Bid Bond."

#### **Base Bid**

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

1 2 3	Calendar Day The time period of 24 hours measured from midnight to the next midnight, including weekends and holidays.
4 5 6 7 8	Change Order A written order to the Contractor, issued by the Contracting Agency after execution of the contract, authorizing an addition, deletion, or other revision in the Work, within the scope of the Contract Documents, and establishing the basis of payment and time adjustments, if any, for the Work affected by the change.
9 10	<b>Day</b> Unless otherwise specified, a calendar day.
11 12 13 14	<b>Deductive</b> A supplemental unit of work or group of Bid Items, identified separately in the Bid, which may, at the discretion of the Contract Agency, be deducted from the Base Bid should the Contract Agency choose not to Award the total Base Bid.
15 16 17	Grand Total Price The Grand Total Price of the Contract will include the Base Bid, Additives, Alternates, Deductives, Force Accounts, and taxes collected separately pursuant to Section 1-07.2.
18 19 20 21 22	<b>Standard Specifications</b> Divisions One through Nine of the specified edition of the WSDOT "Standard Specifications for Road, Bridge, and Municipal Construction."
22 23 24 25	END OF SECTION

#### 

1-02

### 1-02.1 Prequalification of Bidders

### Delete this section and replace it with the following:

**BID PROCEDURES AND CONDITIONS** 

# 1-02.1 Qualifications of Bidder (January 24, 2011 APWA GSP)

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

### 1-02.2 Plans and Specifications (June 27, 2011 APWA GSP)

Delete this section and replace it with the following:

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

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

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

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

# 1-02.4(1) General (January 19, 2022 APWA GSP Option B)

The first sentence of the ninth paragraph, beginning with "Any prospective Bidder desiring...", is revised to read:

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

#### 1-02.5 Proposal Forms (July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that

call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

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

### 1-02.6 Preparation of Proposal (December 10, 2020 APWA GSP, Option B)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.

 5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the last two paragraphs, and replace them with the following:

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form, provided by the Contracting Agency. Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

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

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

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

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

Add the following new section:

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

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

1-02.7 Bid Deposit (March 1, 2021 Tacoma GSP)

2 3 4

1

Delete this section and replace it with the following:

5 6

7

8

9

10

11

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

12

13 14

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

15

If submitting your bid electronically, a scanned version of the original bid bond or cashier's

16 check shall accompany your electronic bid submittal. The original bid bond or cashier's

17 check shall be sent to the Contracting Agency and received by the Contracting Agency

18

within 7 calendar days of the bid opening or the bidder may be deemed non-responsive.

19

Original bid bonds or cashier's check will be delivered to:

20 City of Tacoma Procurement & Payables Division 21 **Tacoma Public Utilities** 

22 P.O. Box 11007

Tacoma, WA 98411-0007

23 24 25

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

26 27

#### 1-02.9 Delivery of Proposal (\*\*\*\*\*)

28 29 30

Delete this section and replace it with the following:

31 32 33

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

34 35 36

37

38

Each Proposal shall be submitted in a sealed envelope or shall be submitted electronically via email to bids@cityoftacoma.org, with the Project Name and Project Number as stated in the Call for Bids clearly marked on the outside of the envelope, or as otherwise required in the Bid Documents, to ensure proper handling and delivery.

39 40 41

42

43

44

45

The Bidder shall submit to the Contracting Agency a signed "Certification of Compliance with Wage Payment Statutes" document where the Bidder under penalty of perjury verifies that the Bidder is in compliance with responsible bidder criteria in RCW 39.04.350 subsection (1) (g), as required per Section 1-02.14. The "Certification of Compliance with Wage Payment Statutes" document shall be received with the Bid Proposal.

2	(March 1, 2021 Tacoma GSP)					
4 5	Delete this section and replace it with the following:					
6 7	After submitting a Bid Proposal to the Contracting Agency, the Bidder may withdraw, rev					
8 9	<ol> <li>The Bidder submits a written request signed by an authorized person and emails it to <u>bids@cityoftacoma.org</u> and</li> </ol>					
10 11	<ol><li>The Contracting Agency receives the request before the time set for receipt of Proposals and</li></ol>					
12 13	<ol> <li>The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.</li> </ol>					
14 15 16	The Bidder's written request to revise or supplement a Bid Proposal must be accompanied by 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.					
17 18 19	Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened.					
20 21 22	1-02.12 Public Opening of Proposals (March 1, 2021 Tacoma GSP)					
23 24	The first paragraph of this section shall be deleted and replaced with the following:					
25 26	Proposals will be opened and publicly read via webcast at the time indicated in the call for Bids unless the Bid opening has been delayed or canceled.					

1.02.10 Withdrawing Povising or Supplementing Proposal

https://us02web.zoom.us/j/83250498294

Preliminary and final bid results are posted at www.TacomaPurchasing.org.

#### 1-02.13 Irregular Proposals (October 18, 2013 Tacoma GSP)

for Bids page to join the webinar:

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

Delete this section and replace it with the following:

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

This public bid opening will be held via webinar. Please use the link below or on the Request

- d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
- e. A price per unit cannot be determined from the Bid Proposal;
- f. The Proposal form is not properly executed;
- q. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;

- h. The Bidder fails to submit or properly complete EIC forms, if applicable, as required in Section 1-02.6;
  i. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
  - j. More than one Proposal is submitted for the same project from a Bidder under the same or different names.
  - 2. A Proposal may be considered irregular and may be rejected if:
    - a. The Proposal does not include a unit price for every Bid item;
    - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
    - c. Receipt of Addenda is not acknowledged;
    - d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
    - e. If Proposal form entries are not made in ink.

### 1-02.14 Disqualification of Bidders (October 18, 2013 Tacoma GSP)

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if:

- 1. the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or
- 2. evidence of collusion exists with any other Bidder or potential Bidder. Participants in collusion will be restricted from submitting further bids; or
- the Bidder, in the opinion of the Contracting Agency, is not qualified for the work or to the full extent of the bid, or to the extent that the bid exceeds the authorized prequalification amount as may have been determined by a prequalification of the Bidder; or
- 4. an unsatisfactory performance record exists based on past or current Contracting Agency work or for work done for others, as judged from the standpoint of conduct of the work; workmanship; or progress; affirmative action; equal employment opportunity practices; termination for cause; or Disadvantaged Business Enterprise, Minority Business Enterprise, or Women's Business Enterprise utilization; or
- 5. there is uncompleted work (Contracting Agency or otherwise) which in the opinion of the Contracting Agency might hinder or prevent the prompt completion of the work bid upon; or
- the Bidder failed to settle bills for labor or materials on past or current contracts, unless there are extenuating circumstances acceptable to the Contracting Agency; or
- 7. the Bidder has failed to complete a written public contract or has been convicted of a crime arising from a previous public contract, unless there are extenuating circumstances acceptable to the Contracting Agency; or
- 8. the Bidder is unable, financially or otherwise, to perform the work, in the opinion of the Contracting Agency; or
- 9. there are any other reasons deemed proper by the Contracting Agency; or
- 10. the Bidder fails to meet the Project-specific supplemental bidder responsibility criteria listed in section II of the Special Notice to Bidders; or

11. The bidder fails to meet the EIC requirements, if applicable, as described in Section 1-02.6.

2 4

5

6

7

8

9

1

As evidence that the Bidder meets the bidder responsibility criteria above, the apparent two lowest Bidders must submit to the Contracting Agency within 24 hours of the bid submittal deadline, documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with all applicable responsibility criteria, including all documentation specifically listed in the supplemental criteria. The Contracting Agency reserves the right to request such documentation from other Bidders as well, and to request further documentation as needed to assess bidder responsibility.

10 11 12

13

14 15

16

17

18

The basis for evaluation of Bidder compliance with these supplemental criteria shall be any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) which any reasonable owner would rely on for determining such compliance, including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from owners for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Contracting Agency which is believed to be relevant to the matter.

19 20 21

22

23

24

25

26

27

28

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within 24 hours of receipt of the Contracting Agency's determination by presenting its appeal to the Contracting Agency. The Contracting Agency will consider the appeal before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the final determination.

29 30 31

#### 1-02.15 Pre Award Information (August 14, 2013 APWA GSP)

32 33 34

Revise this section to read:

35 36

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

38 39

40

41

42 43

44

45

46

37

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,

2. Samples of these materials for quality and fitness tests, 3. A progress schedule (in a form the Contracting Agency requires) showing the order

of and time required for the various phases of the work,

4. A breakdown of costs assigned to any bid item,

5. Attendance at a conference with the Engineer or representatives of the Engineer,

6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.

47 48 49 7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

50

**END OF SECTION** 

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

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

Revise the first paragraph to read:

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

### 1-03.1(1) Identical Bid Totals (January 4, 2016 APWA GSP)

Revise this section to read:

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

### 1-03.2 Award of Contract (March 27, 2003 Tacoma GSP)

All references to 45 calendar days shall be revised to read 60 calendar days.

### 1-03.3 Execution of Contract (January 19, 2022 APWA GSP)

Revise this section to read:

Within 3 calendar days of Award date (not including Saturdays, Sundays and Holidays), the successful Bidder shall provide the information necessary to execute the Contract to the Contracting Agency. The Bidder shall send the contact information, including the full name, email address, and phone number, for the authorized signer and bonding agent to the Contracting Agency.

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

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

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

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

#### 1-03.4 Contract Bond (July 23, 2015 APWA GSP)

Delete the first paragraph and replace it with the following:

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

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

by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

### 1-03.4(1) Retainage in Lieu of Contract Bond (May 17, 2018 APWA GSP)

For contracts of \$150,000 or less, the Contractor may, at the Contractor's option, authorize the Contracting Agency to retain 10% of the contract amount in lieu of furnishing a performance and/or payment bond. If the Contractor elects this option, the retainage shall be held for a period of thirty (30) days after the date of final acceptance, or until receipt of all necessary releases from the Departments of Revenue and of Labor and Industries and settlement of any liens filed under RCW 60.28, whichever is later. The Contractor must advise the Contracting Agency in writing of the Contractor's election to authorize retainage in lieu of a bond, at the time of execution of the Contract.

 In choosing this option, the Contractor agrees that if the Contractor, its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the Contract, and shall faithfully perform all the provisions of such contract and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of any and all duly authorized modifications of the Contract that may hereafter be made, at the time and in the manner therein specified, and shall pay all laborers, mechanics, subcontractors, and material suppliers, and all persons who shall supply such person or persons, or subcontractors, with provisions and supplies for the carrying on of such work, on his or her part, and shall indemnify and save harmless the Contracting Agency, its officers and agents from any claim for such payment, then the funds retained in lieu of a performance bond shall be released at the time provided above; otherwise, the funds shall be retained until the Contractor fulfills the said obligations.

# 1-03.5 Failure to Execute Contract (April 15, 2020 Tacoma GSP)

The first sentence is revised to read:

 Failure to return the insurance certification and bond with the signed contract as required in Section 1-03.3, or failure to provide Equity In Contracting (EIC) information if required in the contract, or failure or refusal to sign the Contract, or failure to register as a contractor in the state of Washington shall result in forfeiture of the bid bond or deposit of this Bidder

### 1-03.7 Judicial Review (November 30, 2018 APWA GSP)

Revise this section to read:

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

**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 (December 10, 2020 APWA GSP) 6 7 Revise the second paragraph to read: 8 9 Any inconsistency in the parts of the contract shall be resolved by following this order of 10 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth): 11 a. Addenda, 12 b. Proposal Form, 13 c. Special Provisions, 14 d. Contract Plans, 15 e. Standard Specifications, 16 f. Contracting Agency's Standard Plans or Details (if any), and 17 g. WSDOT Standard Plans for Road, Bridge, and Municipal Construction. 18 19 1-04.6 Variation in Estimated Quantities 20 (July 23, 2015 APWA GSP, Option B) 21 22 Revise the second paragraph to read: 23 24 Payment to the Contractor will be made only for the actual quantities of Work performed and 25 accepted in conformance with the Contract. When the accepted quantity of Work performed 26 under a unit item varies from the original Proposal quantity, payment will be at the unit 27 Contract price for all Work unless the total accepted quantity of any Contract item, adjusted 28 to exclude added or deleted amounts included in change orders accepted by both parties, 29 increases or decreases by more than 25 percent from the original Proposal quantity, and if 30 the total extended bid price for that item at time of award is equal to or greater than 10

**END OF SECTION** 

percent of the total contract price at time of award. In that case, payment for contract work

31

32

33 34 35

36 37 may be adjusted as described herein:

#### 1-05 CONTROL OF WORK

### 1-05.3 Working Drawings (January 13, 2011 Tacoma GSP)

This section is deleted in its entirety and replaced with the following:

#### 1-05.3 Submittals

The Contractor shall not install materials or equipment, which require submittals, until reviewed by the Contracting Agency.

The Contractor shall submit four (4) copies to the Engineer of all submittals required by the Contract Documents, unless otherwise required in these Special Provisions. This includes, but is not limited to:

1. Shop Drawings/Plans

- 2. Product Data
- 3. Samples
- 4. Reports
- 5. Material Submittals (Ref. 1-06)
- 6. Progress Schedules (Ref. 1-08.3)
- 7. Guarantees/Warranties (Ref. 1-05.10)

The Engineer will return one (1) copy to the Contractor.

#### 1-05.3(1) Submittal Schedule

In conformance with section 1-08.3, the progress schedule shall be submitted and reviewed prior to commencing any work.

No claim will be allowed for damages or extension of time resulting from rejection of a submittal or the requirement of resubmittals as outlined by this section.

The Engineer's review will be completed as quickly as possible, but may require up to ten (10) working days from the date the submittals or resubmittals are received until they are sent to the Contractor. If more than ten (10) working days are required for the Engineer's review of any individual submittal or resubmittal, an extension of time will be considered in accordance with Section 1-08.8.

#### 1-05.3(2) Submittal Procedures

Contractor submittals shall be in accordance with the following:

The Contractor shall thoroughly review each submittal for dimensions, quantities, and details of the material or item shown. The Contractor shall review each submittal and note any errors, omissions, or deviations with the Contract Documents. The Contractor shall accept full responsibility for the completeness of each submittal.

Each submittal shall have a unique number assigned to it, and the transmittals shall be sequentially numbered. The numbering of resubmittals shall meet the requirements of Section 1-05.3(4). On each page, indicate the page number, and total number of pages in each submittal.

Each submittal shall indicate the intended use of the item in the work. When catalog pages are submitted, applicable items shall be clearly identified. The current revision, issue number, and data shall be indicated on all drawings and other descriptive data.

Each submittal should be transmitted with the "Submittal Transmittal Form" found at the end of this section. Upon request, an electronic copy of the Submittal Transmittal Form will be made available to the Contractor.

In lieu of utilizing the Submittal Transmittal Form, the Contractor may display the following information on each submittal, in a clear space on the front of the submittal:

- 1. Project Name: Sidewalk Replacement, West End
- 2. Project Specification Number: PW22-0141F
- 3. Project No. PWK-00714-03
- 4. Submittal Date
- 5. Description of Submittal
- 6. Sequential, unique submittal number.
- 7. Related Specification Section and/or plan sheet
- 8. The following statement: "This document has been detail-checked for accuracy of content and for compliance with the Contract documents. The information contained herein has been fully coordinated with all involved Subcontractors."
- 9. Printed or typed name and signature of Contractor.

When submitting product data, the Contractor shall modify drawings to delete any information not applicable to the project and add information that is applicable to the project. The Contractor shall mark copies of printed material to clearly identify the pertinent materials, products or models.

Samples submitted shall be of sufficient size and quantity to clearly illustrate functional characteristics of product or material and full range of colors available. Field samples and mock-ups, where required, shall be erected at the project site where directed by the Engineer.

The Contractor shall notify the Engineer, in writing at time of submission, of deviations in submittals from requirements of the Contract documents.

The City shall not be responsible for delays in reviewing submittals not submitted in accordance with these specifications.

#### 1-05.3(3) Engineer's Review of Submittals

any comments on the return submittal.

The Engineer's review of drawings and data submitted by the Contractor will cover only general conformity with the Contract drawings and specifications. The Engineer's review of submittals shall not relieve the Contractor from responsibility for errors, omissions, deviations, or responsibility for compliance with the Contract documents.

COMMENTS", no additional copies need to be furnished. The Contractor shall comply with

Review of a separate item does not constitute review of an assembly in which the item functions.

When the submittal or resubmittal is marked "REVIEWED", or "REVIEWED WITH

#### 1-05.3(4) Resubmittals

When a submittal is marked "AMEND AND RESUBMIT" or "REJECTED, SEE REMARKS," the Contractor shall make the corrections as noted and instructed by the Engineer and resubmit four (4) copies. The Contractor shall not install material or equipment that has received a review status of "AMEND AND RESUBMIT" or REJECTED, SEE REMARKS".

When corrected copies are resubmitted, the Contractor shall in writing direct specific attention to all revisions and shall list separately any revision made other than those called for by the Engineer on previous submittals. Resubmittals shall bear the number of the original submittal followed by a letter (A, B, etc.) to indicate the sequence of the resubmittal.

The Contractor shall revise returned submittals as required and resubmit until final review is obtained.

The Contractor shall verify that all exceptions previously noted by the Engineer have been accounted for.

#### 1-05.3(5) Submittal Requirements by Section

The following is a summary of submittal requirements. This summary is not inclusive of all submittal requirements. The Contractor shall review each individual section in the applicable provisions or specifications, as noted below, for specific requirements.

Section	Description			
1-06.1	Proposed Material Sources			
1-06.1(2)	Request for Approval of Material			
1-06.3	Manufacturer's Certificate of Compliance			
1-07.4	COVID-19 Health and Safety Plan (CHSP)			
1-07.15	Temporary Water Pollution/Erosion Control Plan			
1-07.15(1)	Spill Prevention, Control and Countermeasures (SPCC) Plan			
1-07.16(1)	Property Owner Notification			
1-08.3(2)	Progress Schedule			
1-09.6	Equipment Rental Rates and Equipment Watch Sheets			
1-09.9	Schedule Of Values			
1-10.2	Traffic Control Plan			
2-17.2(2)	Contaminated Soil Health and Safety Plan			
2-17.2(3)	Resume of Site Health and Safety Officer			
2-17.3(2)D	Draft shipping documents for hazardous material			
2-17.2(5)	Soil Management Plan			
4-04	Crushed Surfacing Top Course			
5-04	Asphalt Mix Design Certification			
5-05	Concrete Mix Design			
8-01.3(1)A	Stormwater Pollution Prevention Plan (SWPPP)			

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

Supplement this section with the following:

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

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

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

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

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

#### 1-05.11 Final Inspection

Delete this section and replace it with the following:

### 1-05.11 Final Inspections and Operational Testing (October 1, 2005 APWA GSP)

#### 1-05.11(1) Substantial Completion Date

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

If, after this inspection, the Engineer concurs with the Contractor that the work is substantially complete and ready for its intended use, the Engineer, by written notice to the

Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer does not consider the work substantially complete and ready for its intended use, the Engineer will, by written notice, so notify the Contractor giving the reasons therefore.

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

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

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

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

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

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

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

#### 1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final inspection but prior to the physical completion date. Whenever items of work are listed in the Contract Provisions for operational testing they shall be fully tested under operating conditions for the time period specified to ensure their acceptability prior to the Physical Completion Date. During and following the test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first class operating condition. Equipment, electrical controls, meters, or other devices and equipment to be tested during this period shall be tested under the observation of the Engineer, so that

the Engineer may determine their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

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

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

Add the following new section:

### 1-05.12(1) One-Year Guarantee (March 8, 2013 APWA GSP)

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

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

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

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

Delete the sixth and seventh paragraphs of this section.

### 1-05.15 Method of Serving Notices (March 25, 2009 APWA GSP)

Revise the second paragraph to read:

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

Add the following new section: 4 1-05.16 Water and Power (October 1, 2005 APWA GSP) 6 7

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

1 2	SUBMITTAL TRANSMITTAL FORM						
3 4 5 6	Sidewalk Replacement, West End Project Number PWK-00714-03 Specification No. PW22-0141F						
7	ATTN: Construction Division				n	Date:	
8 9	Submittal Number						
10 11	Specification Number Bid Item No						
12 13	Submittal Description						
14 15 16	We a	are sendi	ng yo	u:			
10	C		Copies Date		Page	Description	
17	-		-	0.1	· · · · · /D		
18 19 20	Tran	Transmitted:   Submittals (Product Data) for information only.  Submittals for review and comment.					
21	Remarks:						
22 23							
24 25	Certify Either A or B:						
26 27 28 29		A.	This document has been detail-checked for accuracy of content and for compliance with the Contract documents (no exceptions). The information contained herein has been fully coordinated with all involved Subcontractors.				
30 31 32 33 34		B.	This document has been detail-checked for accuracy of content and for compliance with the Contract documents <b>except for the attached deviations</b> . The information contained herein has been fully coordinated with all involved Subcontractors.				
35 36	6 Certified By:					Ciam at una	
37 38 39	Signature						
40 41						END OF SECTION	

1	1-06 CONTROL OF MATERIAL
2 3	1-06.1 Approval of Materials Prior To Use
4 5	(September 15, 2010 Tacoma GSP)
6 7	The first sentence is revised to read:
8 9 10	All materials and equipment shall be submitted for review in accordance with section 1-05.3 of these special provisions.
11 12 13	For aggregates, the Contractor shall notify the Engineer of all proposed aggregates. The Contractor shall use the Aggregate Source Approval (ASA) Database.
14	All equipment, materials, and articles incorporated into the permanent Work:
15 16	<ol> <li>Shall be new, unless the Special Provisions or Standard Specifications permit otherwise;</li> </ol>
17 18 19	<ol> <li>Shall meet the requirements of the Contract and be approved by the Engineer;</li> <li>May be inspected or tested at any time during their preparation and use; and</li> </ol>
20	4. Shall not be used in the Work if they become unfit after being previously approved.
21	1-06.1(1) Qualified Products List (QPL)
22 23 24	This section is revised in its entirety to read:
25 26	QPL's are not accepted by the City.
27 28	1-06.1(2) Request for Approval of Material (RAM)
29 30	This section is deleted in its entirety.
31 32 33	1-06.6 Recycled Materials (January 4, 2016 APWA GSP)
34 35	Delete this section, including its subsections, and replace it with the following:
36 37 38 39	The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.
40 41 42 43 44 45 46	Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and other recycled materials (e.g., utilization of on-site material and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled Materials Reporting.
47 48	END OF SECTION

### **END OF SECTION**

#### 1 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC 1-07 2 3 1-07.1 Laws to be Observed 4 (October 1, 2005 APWA GSP) 5 6 Supplement this section with the following: 7 8 In cases of conflict between different safety regulations, the more stringent regulation shall 9 apply. 10 11 The Washington State Department of Labor and Industries shall be the sole and paramount 12 administrative agency responsible for the administration of the provisions of the Washington 13 Industrial Safety and Health Act of 1973 (WISHA). 14 15 The Contractor shall maintain at the project site office, or other well-known place at the 16 project site, all articles necessary for providing first aid to the injured. The Contractor shall 17 establish, publish, and make known to all employees, procedures for ensuring immediate 18 removal to a hospital, or doctor's care, persons, including employees, who may have been 19 injured on the project site. Employees should not be permitted to work on the project site 20 before the Contractor has established and made known procedures for removal of injured 21 persons to a hospital or a doctor's care. 22 23 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the 24 Contractor's plant, appliances, and methods, and for any damage or injury resulting from 25 their failure, or improper maintenance, use, or operation. The Contractor shall be solely and 26 completely responsible for the conditions of the project site, including safety for all persons 27 and property in the performance of the work. This requirement shall apply continuously, and 28 not be limited to normal working hours. The required or implied duty of the Engineer to 29 conduct construction review of the Contractor's performance does not, and shall not, be 30 intended to include review and adequacy of the Contractor's safety measures in, on, or near 31 the project site. 32 33 1-07.2 State Taxes 34 (January 6, 2015 TACOMA GSP) 35 36 Supplement this section with the following: 37 38 Washington State Department of Revenue Rules 170 and 171 shall apply as shown in the 39

Proposal and per Section 1-07.2 of the WSDOT and APWA Standard Specifications for Road, Bridge, and Municipal Construction.

1-07.4 Sanitation

40

41 42

43 44

45 46

47 48

49 50

51 52

53

1-07.4(2) Health Hazards

Supplement this section with the following:

(May 13, 2020 TACOMA GSP)

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

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

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

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

COVID-19 Health and Safety Plan (CHSP) Inspection The Contractor shall grant full and unrestricted access to the Engineer for CHSP Inspections. The Engineer (or designee) will conduct periodic compliance inspections on the project site, staging areas, or yards to verify that any ongoing work activity is following the CHSP plan. If the Engineer becomes aware of a noncompliance incident either through a site inspection or other means, the Contractor will be notified immediately (within 1 hour). The Contractor shall immediately remedy the noncompliance incident or suspend all or part of the associated work activity. The Contractor shall satisfy the Engineer that the noncompliance incident has been corrected before the suspension will end.

#### 1-07.9 Wages

#### 1-07.9(5) Required Documents

### 1-07.9(5)C Certified Payrolls (\*\*\*\*\*\*)

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

Certified Payrolls shall be submitted weekly for all projects.

This section is supplemented with the following:

 Where fringe benefits are paid in cash, certified payrolls shall include the fringe benefit dollar amount paid to each employee for each employee classification.

Where fringe benefits are paid into approved plans, funds, or programs, the amount of the fringe benefits shall be identified in the "Benefit Distribution" section of the Certified Payroll Affirmation form.

### 1-07.15 Temporary Water Pollution/Erosion Control (March 23, 2010 Tacoma GSP)

This section is supplemented with the following:

Stormwater or dewatering water that has come in contact with concrete rubble, concrete pours, or cement treated soils shall be maintained to pH 8.5 or less before it is allowed to enter waters of the State or the City stormwater system. If pH exceeds 8.5, the Contractor shall immediately discontinue work and initiate treatment according to the plan to lower the

pH. Work may resume, with treatment, once the pH of the stormwater is 8.5 or less or it can be demonstrated that the runoff will not reach surface waters or the City stormwater system. High pH process water shall not be discharged to waters of the State or the City stormwater system. Unless specific measures are identified in the Special Provisions, high pH water may be infiltrated, dispersed in vegetation or compost, or discharged to a sanitary sewer system. Disposal shall be in accordance with the City of Tacoma Surface Water Management Manual or to City wastewater system with proper approval. Water being infiltrated or dispersed shall have no chance of discharging directly to waters of the State or the City stormwater system, including wetlands or conveyances that indirectly lead to waters of the State. High pH process water shall be treated to within a range of 6.5 to 8.5 pH units prior to infiltration to ensure the discharge does not cause a violation of groundwater quality standards. If water is discharged to the sanitary sewer, the Contractor shall provide a copy of permits and requirements for placing the material into a sanitary sewer system prior to beginning the work. Process water may be collected and disposed of by the Contractor off the project site. The Contractor shall provide a copy of the permit for an approved waste site for the disposal of the process water prior to the start of work that generates the process water. A Special Approved Discharge permit shall be required for all discharges to the sanitary sewer system.

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

#### Implementation Requirements

The SPCC Plan shall be updated by the Contractor throughout project construction so that the written plan reflects actual site conditions and practices. The Contractor shall update the SPCC Plan at least annually and maintain a copy of the updated SPCC Plan on the project site. All project employees shall be trained in spill prevention and containment, and they shall know where the SPCC Plan and spill response kits are located and have immediate access to them.

If hazardous materials are encountered or spilled during construction, the Contractor shall do everything possible to control and contain the material until appropriate measures can be taken. The Contractor shall supply and maintain spill response kits of appropriate size within close proximity to hazardous materials and equipment.

The Contractor shall implement the spill prevention measures identified in the SPCC Plan before performing any of the following:

- 1. Placing materials or equipment in staging or storage areas.
- 2. Refueling, washing, or maintaining equipment.
- Stockpiling contaminated materials.

#### **SPCC Plan Element Requirements**

The SPCC Plan shall set forth the following information in the following order:

- Responsible Personnel Identify the name(s), title(s), and contact information, including a 24/7 emergency contact number, for the personnel responsible for implementing and updating the plan, including all spill responders.

Wastewater Treatment Plant Operations number at 253.591.5595 and the City Source Control Spill Response number at 253.502.2222.

- Project and Site Information
   Describe the following items:
- 1. The project Work.
- 2. The site location and boundaries.
- 3. The drainage pathways from the site, including both stormwater and sanitary conveyance pathways.
- 4. Nearby waterways and sensitive areas and their distances from the site.

- Potential Spill Sources
  - Describe each of the following for all potentially hazardous materials brought or generated on-site (including materials used for equipment operation, refueling, maintenance, or cleaning):
- Name of material and its intended use.
- Estimated maximum amount on-site at any one time.
- Location(s) (including any equipment used below the ordinary high water line) where the material will be staged, used, and stored and the distance(s) from nearby waterways and sensitive areas.
- Decontamination location and procedure for equipment that comes into contact with the material.
- Disposal procedures.
- Include a Material Safety Data Sheet (MSDS) for each potentially hazardous material.
- Pre-Existing Contamination

Describe any pre-existing contamination and contaminant sources (such as buried pipes or tanks) in the project area that are described in the Contract documents. Identify equipment and work practices that will be used to prevent the release of contamination.

- Spill Prevention and Response Training
   Describe how and when all personnel (in)
  - Describe how and when all personnel (including refueling Contractors and Subcontractors) will be trained in spill prevention, containment, and response in accordance with the Plan. Describe how and when all spill responders will be trained in accordance with WAC 296-824.

- Spill Prevention
  - Describe the following items:

- 1. Spill response kit contents and location(s).
- 2. Security measures for potential spill sources.
- 3. Secondary containment practices and structures for all containers to handle the maximum volume of potential spill of hazardous materials.
- 4. Methods used to prevent stormwater from contacting hazardous materials.
- 5. Site inspection procedures and frequency.
- 6. Equipment and structure maintenance practices.
- 7. Daily inspection and cleanup procedures that ensure all equipment used below the ordinary high water line is free of all external petroleum-based products.
- 8. Refueling procedures for equipment that cannot be moved from below the ordinary high water line.

### 1 2 3 4 7 8 9

5 6

11 12 13

10

19

14

20 21 22

23

24

25 26 27

28 29 30

> 31 32 33

34 35 36

37 38 39

41 42 43

40

45 46

44

47 48 49

50 51 52

53

Spill Response

Outline the response procedures the Contractor will follow for each scenario listed below. Include a description of the actions the Contractor shall take and the specific on-site spill response equipment that shall be used to assess the spill, secure the area, contain and eliminate the spill source, and clean up and dispose of spilled and contaminated material.

Response procedures shall be outlined in the Spill Response section and shall include notification to the City of Tacoma Wastewater Treatment Plant Operations number at 253.591.5595 and the City Source Control Spill Response number at 253.502.2222.

- a. A spill of each type of hazardous material at each location identified in 4, above.
- b. Stormwater that has come into contact with hazardous materials.
- c. Drainage pathways from the site, including both stormwater and sanitary conveyance pathways.
- d. A release or spill of any unknown pre-existing contamination and contaminant sources (such as buried pipes or tanks) encountered during project Work.
- e. A spill occurring during Work with equipment used below the ordinary high water line.

If the Contractor will use a Subcontractor for spill response, provide contact information for the Subcontractor under item 1 (above), identify when the Subcontractor will be used, and describe actions the Contractor shall take while waiting for the Subcontractor to respond.

Project Site Map Provide a map showing the following items:

- 1. Site location and boundaries.
- 2. Site access roads.
- 3. Drainage pathways from the site.
- 4. Nearby waterways and sensitive areas.
- 5. Hazardous materials, equipment, and decontamination areas identified in 4, above.
- 6. Pre-existing contamination or contaminant sources described in 5, above.
- 7. Spill prevention and response equipment described in 7 and 8, above.
- Spill Report Forms Provide a copy of the spill report form(s) that the Contractor will use in the event of a release or spill.

#### **Payment**

Payment will be made in accordance with Section 1-04.1 for the following Bid item when it is included in the Proposal:

"SPCC Plan," lump sum.

When the written SPCC Plan is accepted by the Contracting Agency, the Contractor shall receive 50-percent of the lump sum Contract price for the plan.

The remaining 50-percent of the lump sum price will be paid after the materials and equipment called for in the plan are mobilized to the project.

The lump sum payment for "SPCC Plan" shall be full pay for:

All costs associated with creating the accepted SPCC Plan.

 All costs associated with providing and maintaining the on-site spill prevention equipment described in the accepted SPCC Plan.

• All costs associated with providing and maintaining the on-site standby spill response equipment and materials described in the accepted SPCC Plan.

• All costs associated with implementing the spill prevention measures identified in the accepted SPCC Plan.

• All costs associated with updating the SPCC Plan as required by this Specification.

As to other costs associated with releases or spills, the Contractor may request payment as provided for in the Contract. No payment shall be made if the release or spill was caused by or resulted from the Contractor's operations, negligence, or omissions.

#### 1-07.16 Protection and Restoration of Property

# 1-07.16(1) Private/Public Property (January 13, 2011 Tacoma GSP)

This section is supplemented with the following:

Stockpiling in City of Tacoma right-of-way or on existing or new improvements shall not occur unless approved by the Engineer. All stockpile sites shall be restored to as good or better condition.

The Contractor shall contact all property owners and tenants in the vicinity of this project, via newsletter/mailing, a minimum of one (1) week prior to start of construction. The Contractor shall submit a draft of the property owner notification prior to posting/mailing.

The newsletter/mailing shall advise the owners and tenants of the construction schedule and indicate the Contractor's name, contact person, and telephone numbers.

### 1-07.17 Utilities and Similar Facilities (\*\*\*\*\*\*)

The first paragraph is supplemented with the following:

Public and private utilities or their Contractors will furnish all work necessary to adjust, relocate, replace, or construct their facilities unless otherwise provided for in the Plans or these Special Provisions. Such adjustment, relocations, replacement, or construction will be done within the time for performance of this project. The Contractor shall coordinate their work with such adjustment, relocation, or replacement of utility work. This may require the Contractor to phase their work in a manner that will allow for the utility work.

The Contractor shall coordinate their work with all utilities and other organizations, which have to adjust or revise their facilities within the project area. These may include, but are not limited to:

- 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
  - Rainier Connect, Contact: Brian Munson, phone: (253) 312-2819; 38
     Brian.Munson@Rainierconnect.net
  - 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-
  - 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
  - T-Mobile, Contact: Steven Schauer, Phone: (360) 402-7725; <u>steven.schauer@t50</u> mobile.com
    - Zayo, Our Fiber Fuels Global Innovation, Contact: Jason Tesdal, phone: (253) 221-

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 can be found in Appendix D.

#### 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 (December 17, 2019 Tacoma GSP)

During the course and performance of the services herein specified, the Contractor will maintain the insurance coverage in the amounts and in the manner specified in the City of Tacoma Insurance Requirements as is applicable to the services and deliverables provided under this Contract. The City of Tacoma Insurance Requirements document is fully incorporated herein by reference.

Failure by the Contracting Agency to identify a deficiency in the insurance documentation provided by the Contractor or failure of the Contracting Agency to demand verification of coverage or compliance by the Contractor with these insurance requirements shall not be construed as a waiver of the Contractor's obligation to maintain such insurance.

### 1-07.23 Public Convenience and Safety

### 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.

#### (March 1, 2004 Tacoma GSP)

This section is supplemented with the following:

The following special traffic requirements shall be adhered to during all phases of construction:

North 21st Street (arterial), North 30th Street (arterial), North Park Way (arterial), North Proctor Street (arterial), North Stevens Street (arterial) and N Vassault Street (arterial) as well as any residential streets shall remain fully open to vehicular and pedestrian traffic at all times.

#### **EXCEPTION:**

- Non-arterial roadways (Residential Streets) can be temporarily closed to through traffic, if no other traffic control pavement width reduction method can be used, during the hours of 9:30 AM and 2:30 PM on weekdays. Local traffic and property access shall be maintained at all times. The Contractor shall reopen the street and all parking areas at the conclusion of each work shift.
- Two-way traffic in separate lanes along all arterial streets must be maintained at all times.
  - O Arterial streets that provide on-street parking may close the parking lane for construction purposes. Closure is permitted to be in effect from 7AM to 5 PM with proper 72 hour advance notice. Traffic control devices indicating date and duration of the parking restriction shall be installed without blocking parking or sidewalk access until that time. Contractor shall reopen the street and all parking areas at the conclusion of each work shift.
  - O Two-way, one-lane flagger control on an arterial will only be considered, with provided supporting reasons, when no other means to conduct the work is possible and will be determined on a case-by-case basis. Additional traffic control provisions, such as an advance Portable Changing Message Sign (PCMS) deployment, may be required depending on the situation/particular arterial roadway. Contractor shall reopen the roadway and all parking areas at the conclusion of each work shift.
  - O Any work/work zone within an arterial roadway that requires a shift of travel lanes (in order to maintain two-way traffic) will only be considered, with provided supporting reasons, when no other means to conduct the work is possible and will be determined on a case-by-case basis. Work will be restricted from 9 AM to 3 PM. Additional traffic control provisions, such as a PCMS deployment, may be

required depending on the situation/particular arterial roadway. Contractor shall reopen the roadway and all parking areas at the conclusion of each work shift.

- Any work/traffic control provision that affects pedestrian accessibility at a given corner of an intersection must be limited to that given corner, with the remaining three corners at the intersection (at a minimum) being used to facilitate a pedestrian detour, until full accessibility or an accessible connection with at least one other corner can be re-established. Regardless of location/situation, any temporary pedestrian access path/route that may be employed shall provide equivalent to, or better, accessibility than the unavailable path/route in accordance with the Americans with Disabilities Act and the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG). Combination of work areas affecting overall pedestrian mobility shall be scheduled so as not to require pedestrians, especially students, to cross roadways multiple times in order to avoid construction zones/follow the prescribed pedestrian detour route.
- Even if adjacent roadway vehicle traffic is closed/restricted, there shall be at least one parallel pedestrian route (equivalent accessibility to the pre-existing conditions) that is available to traverse along the closed roadway. Regardless of the roadway control provisions, if any pedestrian route cannot be maintained (with adequate supporting reasoning), then a signed pedestrian detour route (or pedestrian bypass meeting or exceeding City's requirements) must be established and approved by the City.

Spotters are required to assist all pedestrians through or around the active work zone that impacts sidewalk accessibility that cannot be reasonably accommodated through pedestrian detour or pedestrian bypass as part of the applicable approved traffic control plan for the site.

Emergency traffic, such as police, fire, and disaster units, shall be provided access at all times.

To minimize the disruption to access to adjacent properties, disposal firms and to transit bus service that may be operating in the project area, any 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.

The Contractor shall notify all tenants of detours, street and alley closures, or other restrictions that may interfere with their access. Notification shall be at least forty-eight (48) hours in advance.

If street closures or lane restrictions, not provided for in the Specifications, are allowed subsequent to award of the contract, an equitable adjustment of the Contract amount shall be negotiated.

It is the intent of the Contract to effectively prevent the deposition of debris on streets in areas of public traffic or where such debris may be transported into a drainage system. When construction operations are such that debris from the work is deposited on the streets, the Contractor shall, at a minimum, remove on a daily basis any deposits or debris which may accumulate on the roadway surface. Should daily removal be insufficient to keep the streets clean, the Contractor shall perform removal operations on a more frequent basis. If the Engineer determines that a more frequent cleaning is impractical or if the Contractor fails to keep the streets free from deposits and debris resulting from the work, the Contractor

shall, upon order of the Engineer, provide facilities for and remove all deposits from the tires or between wheels before trucks or other equipment will be allowed to travel over paved streets. Should the Contractor fail or refuse to clean the streets in question, or the trucks or equipment in question, the Engineer may order the work suspended at the Contractor's risk until compliance with Contractor's obligations is assured, or the Engineer may order the streets in question cleaned by others and such costs incurred by the City in achieving compliance with these contract requirements, including cleaning of the streets, shall be deducted from moneys due or to become due the Contractor on monthly estimate. The Contractor shall have no claim for delay or additional costs should the Engineer choose to suspend the Contractor's work until compliance is achieved.

### 1-07.23(2) Construction and Maintenance of Detours (April 1, 2018 Tacoma GSP)

This section is supplemented with the following:

 Detour signing during any allowed road closures shall be in accordance with Detour Plans, when included in the Contract Documents. When plans are not included in the Contract Documents, the Contractor shall submit plans for detours in accordance with the "Manual on Uniform Traffic Control Devices (MUTCD)". In addition, where the Contractor believes an alternate plan will safely and adequately maintain vehicular and pedestrian traffic, the Contractor may submit alternate plans to those for traffic control and detours required by MUTCD or contract documents. Such alternate plans must comply with the MUTCD and shall be in writing and submitted to the Engineer at least fifteen (15) days in advance of their intended use. In general, detouring of arterial traffic must be accomplished on streets designated as City Arterials. Detouring of arterial traffic on non-arterial streets will not be allowed. The acceptance of any alternate plan shall be entirely at the discretion of the Engineer and the Contractor shall have no claim by reason of a plan being rejected or modified, nor shall there be any additional payment by reason of using a substitute plan.

The Contractor shall notify the Engineer fifteen (15) working days in advance of implementation of any street closures/detours allowed under the Contract. Advance notice signing shall be placed a minimum of seven (7) working days prior to implementation of any street closure/detour.

A minimum of five (5) working days prior to any street closure, the Contractor shall notify all entities below except for Pierce Transit; The Contractor shall notify Pierce Transit a minimum of ten (10) working days prior to any street closure to allow rerouting of bus lines accordingly:

```
41
     Tacoma Fire Dept.
                                                             (253-591-5775)
42
     Tacoma Police Dept.
                                                             (253-591-5932)
43
     LESA Communications Center
                                                             (253-798-4721 - Opt.#2)
44
     Tacoma Public Schools Transportation Office
                                                             (253-571-1853)
45
     Pierce Transit
                                                             (253-581-8001)
46
     Tacoma Environmental Services Solid Waste
                                                             (253-591-5544)
47
     Tacoma Public Works Engineering Division
                                                             (253-591-5500)
48
     Tacoma Public Works Streets and Grounds
                                                             (253-591-5495)
49
     Tacoma Public Utility – Power (Primary Contact)
                                                             (253-666-0067) or
50
                                                             (253-779-7744)
51
     Tacoma Public Utility – Power (Secondary Contact)
                                                             (253-389-5677) or
52
                                                             (253-502-8310)
```

### 1-07.24 Rights of Way (July 23, 2015 APWA GSP)

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.

Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

Whenever any of the work is accomplished on or through property other than public Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

Whenever easements or rights of entry have not been acquired prior to advertising, these areas are so noted in the Plans. The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Engineer certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. If the Contractor is delayed due to acts of omission on the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

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

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

**END OF SECTION** 

#### 1-08 PROSECUTION AND PROGRESS

Add the following new section:

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

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

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

- A. To review the initial progress schedule;
- B. To establish a working understanding among the various parties associated or affected by the work;
- C. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
- D. To establish normal working hours for the work;
- E. To review safety standards and traffic control; and
- F. To discuss such other related items as may be pertinent to the work.

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

- A. A breakdown of all lump sum items;
- B. A preliminary schedule of working drawing submittals; and
- C. A list of material sources for approval if applicable.

Add the following new section:

# 1-08.0(2) Hours of Work (March 3, 2008 Tacoma GSP)

Except in the case of emergency or unless otherwise approved by the Contracting Agency, the normal straight time working hours for the contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. of a working day with a maximum 1-hour lunch break and a 5-day work week. The normal straight time 8-hour working period for the contract shall be established at the preconstruction conference or prior to the Contractor commencing the work.

If a Contractor desires to perform work on holidays, Saturdays, Sundays, or before 7:00 a.m. or after 6:00 p.m. on any day, the Contractor shall apply in writing to the Engineer for permission to work such times. Permission to work longer than an 8-hour period between 7:00 a.m. and 6:00 p.m. is not required. Such requests shall be submitted to the Engineer no later than noon on the working day prior to the day for which the Contractor is requesting permission to work.

Permission to work between the hours of 9:00 p.m. and 7:00 a.m. during weekdays and between the hours of 9:00 p.m. and 9:00 a.m. on weekends or holidays may also be subject to noise control requirements. Approval to continue work during these hours may be revoked at any time the Contractor exceeds the Contracting Agency's noise control regulations or complaints are received from the public or adjoining property owners regarding the noise from the Contractor's operations. The Contractor shall have no claim for damages or delays should such permission be revoked for these reasons.

Permission to work Saturdays, Sundays, holidays or other than the agreed upon normal straight time working hours Monday through Friday may be given subject to certain other conditions set forth by the Contracting Agency or Engineer. These conditions may include but are not limited to: requiring the Engineer or such assistants as the Engineer may deem necessary to be present during the work; requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency employees who worked during such times, on non-Federal aid projects; considering the work performed on Saturdays and holidays as working days with regards to the contract time; and considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period. Assistants may include, but are not limited to, survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees when in the opinion of the Engineer, such work necessitates their presence.

Add the following new section:

# 1-08.0(3) Reimbursement for Overtime Work of Contracting Agency Employees (September 29, 2009 Tacoma GSP)

Where the Contractor elects to work on a Saturday, Sunday, or holiday, or longer than an 8-hour work shift on a regular working day, as defined in the Standard Specifications, such work shall be considered as overtime work. On all such overtime work, city staff may be required at the discretion of the Engineer. In such case, the Contracting Agency may deduct from amounts due or to become due to the Contractor for the costs in excess of the straight-time costs for employees of the Contracting Agency required to work overtime hours.

The Contractor by these specifications does hereby authorize the Engineer to deduct such costs from the amount due or to become due to the Contractor.

### 1-08.1 Subcontracting (May 17, 2018 APWA GSP, Option B)

Delete the eighth paragraph.

Revise the ninth paragraph to read:

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

# 1-08.3(2)B Type B Progress Schedule (March 13, 2012 APWA GSP)

Revise the first paragraph to read:

The Contractor shall submit a preliminary Type B Progress Schedule at or prior to the preconstruction conference. The preliminary Type B Progress Schedule shall comply with all of these requirements and the requirements of Section 1-08.3(1), except that it may be limited to only those activities occurring within the first 60-working days of the project.

Revise the first sentence of the second paragraph to read:

The Contractor shall submit 7 copies of a Type B Progress Schedule depicting the entire project no later than 21-calendar days after the <u>preconstruction conference</u>.

### 1-08.3(2)D Weekly Look-Ahead Schedule (\*\*\*\*\*\*)

This section is supplemented with the following:

At a minimum, bi-weekly meetings shall be held with the Engineer, Construction Inspector, Construction Manager, Contractor and any sub-contractor to review the schedule, the job progress, and any specific construction issues. At any of these meetings the Engineer may invite members of the public and other City staff or management, when the Engineer deems this appropriate.

All costs associated with the Bi-Weekly Construction Meetings shall be included in other bid items in the Contract.

#### 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
(*****)
```

Revise the first sentence of the third to read:

Contract time shall begin on the first working day following the Notice to Proceed Date.

Revise the fourth paragraph to read:

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day

Revise the sixth paragraph to read:

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

of that week will be charged as a working day whether or not the Contractor works on that

- A. The physical work on the project must be complete; and
- B. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
- A. Certified Payrolls (per Section 1-07.9(5)).
- B. Material Acceptance Certification Documents
- C. Reports of Amounts Credited as EIC Participation, as required by the Contract Provisions.
- D. Final Contract Voucher Certification
- E. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
- F. Property owner releases per Section 1-07.24

This section is supplemented with the following:

This project shall be physically completed within **50** working days.

39

3 4 5

1 2

6

7

8

9 10

11 12

13 14 15

16 17

18 19

20

21

22 23

24 25

26 27

day.

28

29 30 31

32 33

34

35 36 37

38 39 40

41 42

43 44

45 46

47 48

49 50 51

# 1-08.9 Liquidated Damages (\*\*\*\*\*\*)

Revise the third paragraph to read:

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

#### **END OF SECTION**

#### 1 2 3 4

5 6

7 8

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

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

Revise item 4 of the fifth paragraph to read:

4. Test results and scale weight records for each day's hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027, Scaleman's Daily Report, unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

13 14

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

16 17

15

Supplement this Section with the following:

18 19

20

21

22

23

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication, that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

24 25 26

### (January 13, 2011 Tacoma GSP)

27 28

Item #3 of this Section is supplemented with the following:

29 30

31

32

33

34

35

36

The Contractor shall submit a comprehensive summary list of all equipment anticipated to be used on the project and their associated AGC/WSDOT Equipment Rental Rates. The list shall include the contractor's equipment number, make, model, year, operation rate, standby rate, applicable attachments and any other applicable information necessary to determine the applicable rates in accordance with this section. In addition, the contractor shall submit an Equipment Watch rate sheet (www.equipmentwatch.com) for each piece of equipment in the summary list. Access to the Equipment Watch web site is available at the City's Construction Management Office.

37 38 39

### 1-09.7 Mobilization (December 10, 2020 APWA GSP)

40 41 42

Delete this Section and replace it with the following:

43 44

45

Mobilization consists of preconstruction expenses and the costs of preparatory Work and operations performed by the Contractor which occur before 10 percent of the total original amount of an individual Bid Schedule is earned from other Contract items on that Bid Schedule. Items which are not to be included in the item of Mobilization include but are not limited to:

46 47 48

49

- 1. Any portion of the Work covered by the specific Contract item or incidental Work which is to be included in a Contract item or items.
- 51 2. Profit, interest on borrowed money, overhead, or management costs.
- 52 3. Any costs of mobilizing equipment for force account Work.

Based on the lump sum Contract price for "Mobilization", partial payments will be made as follows:

- When 5 percent of the total original Bid Schedule amount is earned from other Contract items on that original Bid Schedule, excluding amounts paid for materials on hand, 50 percent of the Bid Item for mobilization on that original Bid Schedule, 5 percent of the total of that original Bid Schedule, or 5 percent of the total original Contract amount, whichever is the least, will be paid.
- When 10 percent of the total original Bid Schedule amount is earned from other Contract items on that original Bid Schedule, excluding amounts paid for materials on hand, 100 percent of the Bid Item for mobilization on that original Bid Schedule, 10 percent of the total of that original Bid Schedule, or 10 percent of the total original Contract amount, whichever is the least, will be paid.
- When the Substantial Completion Date has been established for the project, payment of any remaining amount Bid for mobilization will be paid.

Nothing herein shall be construed to limit or preclude partial payments otherwise provided by the Contract.

# 1-09.9 Payments (January 19, 2022 APWA GSP)

Section 1-09.9 is revised to read:

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

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

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

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

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

- 1. Unit Price Items in the Bid Form the approximate quantity of acceptable units of work completed multiplied by the unit price.
- 2. Lump Sum Items in the Bid Form based on the approved Contractor's lump sum breakdown for that item, or absent such a breakdown, based on the Engineer's determination.

- 3. Materials on Hand 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.
- 4. Change Orders entitlement for approved extra cost or completed extra work as determined by the Engineer.

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

- 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
- 2. The amount of progress payments previously made; and

 3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract Documents.

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

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

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

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

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

This section is supplemented with the following:

#### (January 6, 2015 Tacoma GSP)

Breakdowns of all lump sum items shall be provided for all lump sum items and shall include all costs for labor, equipment, materials, and taxes (as applicable) associated with the lump sum item. Washington State Department of Revenue Rules 170 and 171 apply to lump sum items per Section 1-07.2 of the WSDOT State Amendments to the Standard Specifications.

Stockpiled Material - The point of acceptance of stockpiled material for payment and quality shall be at the time of incorporation into the contract.

#### 1-09.9(1) Retainage (May 10, 2006 Tacoma GSP)

The fourth paragraph is supplemented with the following:

- A. A "General Release to the City of Tacoma" is on file with the Contracting Agency.
- B. A release has been obtained from the City of Tacoma's City Clerk's Office.

### 1-09.11(3) Time Limitation and Jurisdiction (November 30, 2018 APWA GSP)

Revise this section to read:

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

# 1-09.13(3)A Administration of Arbitration (January 19, 2022 APWA GSP)

Revise the third paragraph to read:

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

1 2 3	1-09.13(4) Venue for Litigation (January 19, 2022 APWA GSP)
4	Revise this section to read:
5	
6	Litigation shall be brought in the Superior Court of the county in which the Contracting
7	Agency's headquarters is located, provided that where claims are asserted against a county,
8	RCW 36.01.050 shall control venue and jurisdiction of the Superior Court. It is mutually
9	agreed by the parties that when litigation occurs, the Contractor shall permit the Contracting
10	Agency to have timely access to any records deemed necessary by the Contracting Agency
11	to assist in evaluating the claims or action.
12	

#### **END OF SECTION**

#### 1 1-10 TEMPORARY TRAFFIC CONTROL 2 3 1-10.1 General 4 5 1-10.1(2) Description 6 (July 22, 2019 Tacoma GSP) 7 8 The first sentence of the fourth paragraph is revised to read: 9 10 The Contractor shall keep lanes, on-ramps, and off-ramps open to traffic at all times except 11 when Work requires closure(s) that have been requested and approved in accordance with 12 section 1-10.2(2). 13 14 The third sentence of the fourth paragraph is revised to read: 15 16 Approved lane and ramp closures shall be for the minimum time required to complete the 17 Work. 18 19 This section is supplemented with the following: 20 21 Only uniformed off-duty police officers shall be used to control traffic when it is necessary to 22 override or provide traffic control at signalized intersections. Off-duty City of Tacoma Police 23 Department officers are preferred within the jurisdiction of the Tacoma PD, and the 24 Contractor shall grant the Tacoma PD the "first right of refusal" by contacting the Tacoma 25 PD first as stated below. 26 27 The City will make all necessary temporary adjustments to existing traffic signals and traffic 28 signal activators. 29 30 Existing signs shall not be removed until the Contractor has provided for temporary 31 measures sufficient to safeguard and direct traffic after existing signs have been removed. 32 Preservation of temporary traffic control and street name signs shall be the sole 33 responsibility of the Contractor. 34 35 As the work progresses and permits, temporarily relocated and/or removed traffic signs shall 36 be reset in their permanent location. Permanent signs and other traffic control devices 37 damaged or lost by the Contractor shall be replaced or repaired at the Contractor's expense. 38 39 1-10.2 Traffic Control Management 40 41 1-10.2(1) General 42 (January 10, 2022) 43 44 Section 1-10.2(1) is supplemented with the following: 45 46 The Traffic Control Supervisor shall be certified by one of the following: 47 48 The Northwest Laborers-Employers Training Trust 49 27055 Ohio Ave. 50 Kingston, WA 98346 (360) 297-3035 51 52 https://www.nwlett.edu 53

```
2
      12545 135th Ave. NE
 3
      Kirkland, WA 98034-8709
 4
      1-800-521-0778
 5
      https://www.esc.org
 6
 7
      The American Traffic Safety Services Association
 8
      15 Riverside Parkway, Suite 100
 9
      Fredericksburg, Virginia 22406-1022
10
      Training Dept. Toll Free (877) 642-4637
11
      Phone: (540) 368-1701
12
      https://altssa.com/training
13
14
      Integrity Safety
15
      13912 NE 20th Ave.
16
      Vancouver WA 98686
17
      (360) 574-6071
18
      https://www.integritysafety.com
19
20
      US Safety Alliance
21
      (904) 705-5660
22
      https://www.ussafetyalliance.com
23
24
      K&D Services Inc.
25
      2719 Rockefeller Ave.
26
      Everett, WA 98201
27
      (800) 343-4049
28
      https://www.kndservices.ne
29
30
      1-10.2(2) Traffic Control Plans
31
      (*****)
32
33
      This section is supplemented with the following:
34
35
      The City of Tacoma Traffic Control Handbook with traffic control templates is provided in an
36
      Appendix to the Special Provisions. Traffic Control plans shall be submitted and approved
37
      by the City for each work site prior to any work occurring at the site.
38
39
      1-10.3 Traffic Control Labor, Procedures, and Devices
40
41
      1-10.3(1) Traffic Control Labor
      (*****)
42
43
```

The first paragraph is revised to read:

The Contractor shall furnish all personnel for flagging and spotting, for the execution of all procedures related to temporary traffic control and for 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.

Section 1-10.3(1)A is revised to read:

51 52

44

45 46

47

48

49

50

1

**Evergreen Safety Council** 

```
1-10.3(1)A Flaggers and Spotters (******)
```

This section is supplemented with the following:

#### **Spotters**

 The Contractor shall provide a spotter where needed and when indicated on the plans and/or within these Specifications. The spotters sole duties are as follows: the spotter shall walk ahead of the construction vehicle in the direction of vehicle travel to insure no student or other pedestrians are in the path of vehicle travel, as well as exclusively assisting with the navigation of pedestrians through, around, adjacent to, and/or through the work zone or adjoining traffic control areas as indicated in the traffic control plans or as directed to do so on-site. In the course of these responsibilities, the spotter shall signal the vehicle to stop should a student or other pedestrian be in the immediate path of the vehicle. The vehicle shall remain stopped under the direction of the spotter until all pedestrians are out of the immediate path of the vehicle. Spotters shall assist pedestrians through the construction zone as needed.

# 1-10.3(1)B Other Traffic Control Labor (\*\*\*\*\*\*)

This section is revised to read:

In addition to flagging duties, the Contractor shall provide personnel for all other traffic control procedures required by the construction operations and for the labor and equipment to install, maintain, and remove any traffic control devices shown on Traffic Control Plans.

### 1-10.3(3)C Portable Changeable Message Sign (August 4, 2010 Tacoma GSP)

This section is supplemented with the following:

Portable Changeable Message Signs shall be required on arterials streets where construction occurs for durations longer than seven (7) calendar days. Signs shall be solar charged and programmable. Signs shall be provided a minimum of seven (7) calendar days prior to construction and remain through the duration of the construction on the arterial street. Signs shall be provided on each end of the arterial street construction zone notifying oncoming traffic of the construction conditions. All costs associated with providing and maintain the signs for the required duration shall be included in the proposal item, "Project Temporary Traffic Control", per lump sum.

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

To prevent hackers from getting access to the Portable Change Message Signs (PCMS), the contractor is required to change the default password and to take other appropriate measures for field access to message control features on the PCMS. In addition, the contractor shall verify the PCMS control box, if any, is secured and locked from tampering during the daily review of the work zone set up and conditions of the traffic control devices.

1 2	1-10.4 Measurement
3 4 5	1-10.4(1) Lump Sum Bid for Project (No Unit Items) (******)
6 7	This section is revised to read:
8 9 10 11 12	When the Bid Proposal contains the items "Arterial Site Temporary Traffic Control" and "Residential Site Temporary Traffic Control", there will be no measurement of unit items for Work defined by Section 1-10 except as described in Section 1-10.4(3). Also, except as described in Section 1-10.4(3), all of Sections 1-10.4(2) and 1-10.5(2) are deleted.
13 14 15	1-10.4(2) Item Bids with Lump Sum for Incidentals (January 11, 2006 Tacoma GSP)
16	This section is supplemented with the following:
17 18 19 20	No unit of measure will apply to the position of Traffic Control Supervisor and it will be considered included in other unit contract prices in the Bid Proposal.
21 22	1-10.5 Payment
23 24	1-10.5(1) Lump Sum Bid for Project (No Unit Items) (******)
25 26 27	This section supplemented with the following:
28 29	"Arterial Site Temporary Traffic Control", per each
30	"Residential Site Temporary Traffic Control", per each
31 32 33 34 35 36 37 38 39	The per each Contract payment shall be full compensation for all costs incurred by the Contractor in performing the Contract Work defined in Section 1-10 necessary to perform the Work except for costs compensated by Bid Proposal items inserted through Contract Provisions as described in Section 1-10.4(2). The unit Contract price, shall be full compensation for all costs incurred by the Contractor in performing the Work for providing "Pedestrian Traffic Control", "Project Temporary Traffic Control" and "Spotter" in accordance with section 1-10.
40 41 42	The per each Contract payment includes all traffic control for each work site regardless of the number of traffic control plans or working days utilized by the Contractor for each site.
43	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 the area of ground disturbance, a minimum of four inches from the edge of the sidewalk, in accordance with the Specifications or as directed by the Engineer as needed to complete the Contract Work.

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 or Specifications.

#### 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 as designated in Appendix A.
- 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 within the construction area 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 in accordance with Standard Plans LS-08 through LS-11.
- 9. Trim all shrubs and brush which covers sidewalks, curb, curb and gutter, and curb ramps in the construction area to a minimum of four inches from the edge of sidewalk or as directed by the Engineer.
- 10. Remove trees as indicated in Appendix A or as directed by the Engineer or certified Arborist. The tree removal shall include stump grinding to eight inches below final grade and removal of roots according to the Appendix A and

All costs associated with clearing and grubbing on this project shall be included in the unit contract price of other items of work in the bid proposal. Clearing and grubbing shall include all necessary sod removal, root removal for trees that have been removed, shrub removal, pruning of adjacent shrubs and overhanging limbs that effect the construction of the new sidewalk for each site.

**END OF SECTION** 

1	2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS
2	(December 9, 2005 Tacoma GSP)
3	
4	2-02.3(3) Removal of Pavement, Sidewalks, and Curbs
5	
6	This section is deleted.
7	
8	
9	END OF SECTION
0	
1	

1 2	2-03 ROADWAY EXCAVATION AND EMBANKMENT (August 14, 2019 Tacoma GSP)
3 4	2-03.1 Description
5 6 7	The last sentence of the first paragraph is deleted.
8 9	2-03.3(5) Slope Treatment
10 11	This section is deleted.
12 13	2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters
14 15	This section is deleted.
16 17 18	2-03.5 Payment  This section is symptomented with the following:
19 20	This section is supplemented with the following:  "Excavation of Contaminated Material, Incl. Haul", per cubic yard.
21 22	An estimated amount is entered into the bid proposal for "Excavation of Contaminated
23 24 25	Material, Incl. Haul" only to provide a common Proposal for Bidders. The actual quantity to be used will be verified by the Engineer at the time of construction. The unit Contract price per cubic yard for "Excavation of Contaminated Material, Incl. Haul" shall be full
26 27 28	compensation for all costs incurred for excavating, loading, placing, disposal and haul to LRI Landfill, located at 30919 Meridian Street East, Graham, WA or an approved licensed solid waste disposal facility.
29 30	
31 32 33	END OF SECTION

1 2 3	2-07 WATERING (August 3, 2009 Tacoma GSP)
3 4 5	2-07.3 Construction Requirements
6 7	The last sentence of the first paragraph is revised to read:
8 9 10	The Engineer may direct that the Contractor apply water during non-working hours such as evenings, weekends, or recognized holidays.
10 11 12	Section 2-07.3 is supplemented with the following:
12 13 14	2-07.3(1) Water Supplied from Hydrants
15 16 17 18 19 20	There is no guarantee that all fire hydrants will be available for use for cleaning, lining, or any other construction activities associated with this project. Prior to construction activities, it shall be the Contractor's responsibility to verify which hydrants will be available by contacting Tacoma Water. The Contractor shall use only those hydrants designated by Tacoma Water.
21 22 23 24	Water supplied from hydrants governed by Tacoma Water shall be used in strict compliance with the "Operating Procedures for the use of Water Division Hydrants" available at the Tacoma Water Permit Counter.
25 26 27 28 29	The Contractor shall obtain a Hydrant Permit prior to start of work by contacting the Water Permit Counter at (253) 502-8247, 2 <sup>nd</sup> floor, Tacoma Public Utilities, Administrative Building, 3628 South 35 <sup>th</sup> Street, Tacoma, WA 98409. A copy of the approved Hydrant Permit shall be submitted to the Engineer.
30 31 32 33 34	Contractor personnel shall be in possession of a valid Tacoma Public Utilities Hydrant Certification Card prior to obtaining a permit. If necessary, contractor personnel shall undergo training to receive the required certification. Contact the Water Permit Counter to set up training as necessary.
35 36 37	END OF SECTION

#### 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 surfaces 7 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 Type I Pavement removal where all or portions of the existing pavement is being 14 removed in conjunction with street construction or any other removal not 15 described below for Type II or Type III. 16 Type II Pavement removal required for the placing of utilities at greater and 17 varying depths, such as sewers. 18 Pavement removal required for narrow and shallow utility cuts in order to Type III 19 install light cables, conduits and similar shallow utilities. 20 Class A2 Class A2 pavement removal shall apply to the removal of asphalt 21 concrete, bituminous road surfacing, multiple lift bituminous surface 22 treatments or any combination of these components having an average 23 thickness of two inches or less. 24 Class A4 Class A4 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 average 27 thickness between two inches and four inches. 28 Class A8 Class A8 pavement removal shall apply to the removal of asphalt 29 concrete, bituminous road surfacing, multiple lift bituminous surface 30 treatments or any combination of these components having an average 31 thickness between four inches and eight inches. 32 Class C6 Class C6 pavement removal shall apply to all non-reinforced cement 33 concrete pavements or slabs having an average thickness of six inches or 34 less. After the curbs and pavement have been constructed, the 35 Contractor may be required to remove additional sidewalk necessary to 36 provide proper connections and grades, as determined by the Engineer. 37 Class C12 Class C12 pavement removal shall apply to all non-reinforced cement 38 concrete pavements or slabs having an average thickness of between 6 39 inches and 12 inches. 40 Class CA Class CA pavement removal shall apply to all pavements that have a 41 wearing surface of asphalt concrete upon a cement concrete pavement 42 or, cement concrete base, and for which the total combined thickness of 43 the pavement averages between six inches and twelve inches. 44 Class H Class H pavement removal shall apply to early type pavement of a 45 cement concrete base with a brick or cobblestone surface and potentially

twenty inches.

an additional layer of asphalt concrete pavement for which the total

combined thickness of the pavement averages between ten inches and

46

47

1 2 3	2-14.3 Construction Requirements
4	All final meetlines shall be sawcut.
5 6 7 8 9	Where monolithic cement concrete pavement and curb are being removed, the curb removal shall be considered as pavement removal, and the measurement for payment will be to the back of the curb.
10 11 12 13	After the curbs and pavement have been constructed, the Contractor may be required to remove additional sidewalk necessary to provide proper connections and grades, as determined by the Engineer.
14 15 16 17 18	The removal of existing street improvements shall be conducted in such a manner as not to damage utilities and any portion of the improvement that is to remain in place. Any deviation in this matter will obligate the Contractor, at no expense to the Contracting Agency, to repair, replace, or otherwise make proper restoration to the satisfaction of the Engineer.
20 21 22 23	In the event a pavement averages more than the maximum thickness specified for its class, an additional payment will be made to cover the extra thickness removed by a proportional conversion into additional square yards.
24 25	2-14.4 Measurement
26 27	Pavement removal will be measured per square yard.
28 29	Type I pavement removal will be measured in its original position through the use of survey techniques.
30 31 32	2-14.5 Payment
33 34	Payment will be made in accordance with Section 1-04.1.
35 36	"Remove Existing Pavement, Asphalt", per square yard
37 38 39	"Remove Existing Pavement, Asphalt" shall include all costs remove pavement of all Types in Classes A2, A4, and A8 as defined in this section.
10 11	"Remove Existing Pavement, Concrete", per square yard
12 13 14	"Remove Existing Pavement, Concrete" shall include all costs to remove pavement of all Types in Classes C6, C8, and C12 as defined in this section.
15 16	All costs associated with saw cutting meet lines shall be included in the unit Contract price for pavement removal.

**END OF SECTION** 

#### 2-15.1 Description The Work described in this section includes the complete removal and disposal of curbs and curb and gutter identified on the Plans or as marked in the field. 2-15.2 Curb Classification Removal of curb and/or curb and gutter will be based on composition, as defined below: Integral Curb - Integral curb shall consist of curb that is constructed monolithic with the adjacent cement concrete pavement. **Curb** - Curb may consist of cement concrete curb, granite curb, or any other combination of rigid material that extends below the pavement surface elevation. Extruded/Precast Curb - Extruded or precast curb may consist of asphalt or concrete extruded or precast curb that is installed on a pavement surface. Curb and Gutter - Curb and gutter may be cement concrete, or a cement concrete curb with a brick gutter on a cement concrete base, or other combination of rigid material. 26 2-15.3 Construction Requirements Integral curb removal shall consist of the removal of the curb and the integral base section under the curb. The removal shall be accomplished by sawcutting along the face of the curb. The removal of the curb and/or curb and gutter shall be conducted in such a manner as not to damage utilities and any portion of the improvement that is to remain in place. Any deviation in this matter will obligate the Contractor, at no expense to the Contracting Agency, to repair, replace, or otherwise make proper restoration to the satisfaction of the Engineer. 2-15.4 Measurement Curb and curb and gutter removal will be measured per linear foot. **2-15.5 Payment** Payment will be made in accordance with Section 1-04.1. "Remove Curb", per linear foot "Remove Curb" shall include all costs to remove curb of all Types and Classes defined in

2-15 CURB AND CURB AND GUTTER REMOVAL

(March 17, 2003 Tacoma GSP)

this section.

the unit contract price for 'Remove Curb".

**END OF SECTION** 

All costs associated with saw cutting, wheel trenching, hydro hammering, chipping, grinding,

and all other work necessary for the removal of curb or curb and gutter shall be included in

#### 2-17 CONTROL AND MANAGEMENT OF CONTAMINATED MATERIALS IN TACOMA **SMELTER PLUME** (June 3, 2014 Tacoma GSP) 2-17.1 Description 2-17.1(1) General Contaminated soils with concentrations of arsenic (As) and lead (Pb) exceeding the levels listed in the Washington State Models Toxics Control Act (MTCA) cleanup regulations (Chapter 173-340 WAC) have been encountered in Tacoma north of 6th Avenue. The Contractor shall operate within and meet all applicable laws and regulations associated with working with regulated materials encountered during excavation activities. The Contractor is notified of the existence of cleanup standards for site soils developed according to the MTCA. The Contractor is advised to review the applicable Washington Administrative Codes (WAC), Washington Department of Ecology (DOE), Washington State Department of Health (DOH), MTCA and Asarco Reports. Websites for further information: WAC: http://apps.leg.wa.gov/wac/ (Title 173-303 & 173-340) DOH: http://www.doh.wa.gov/ DOE: http://www.ecy.wa.gov/ MTCA: http://www.ecy.wa.gov/pubs/9406.pdf Public Health Seattle and King County: http://www.kingcounty.gov/healthservices/health/ehs/toxic/ArsenicLead.aspx Pierce County Health Department: http://www.tpchd.org/index.php Environmental Protection Agency, Asarco Smelter Cleanup: http://www.epa.gov/region10 Agency for Toxics Substances and Disease Registry, Facts on Arsenic: http://www.atsdr.cdc.gov/tfacts2.html Centers for Disease Control, Facts on Lead: http://www.cdc.gov/nceh/lead/publications/1997/factlead.htm Department of Health, Drinking Water: http://www.doh.wa.gov/ehp/dw

 2-17.1(2) Site Description

#### 2-17.1(2)A Historical Land Use

The Tacoma smelter opened in 1890 as a lead smelter. Asarco purchased it in 1905 and converted it to copper smelting in 1912. The smelter operated for nearly 100 years, closing in 1986. The smelter specialized in processing ores with high arsenic concentrations.

The smelter used a 562 foot smokestack. The chemicals in the smoke from the stack were carried out by the wind, and settled to the ground over a 1,000 square mile area. Much of the soil in King and Pierce Counties has been contaminated with arsenic and lead. Arsenic is a human carcinogen, and lead can cause development disabilities. The Department of Ecology and state and local health departments are concerned about potential health risks to people exposed to the contamination.

### **2-17.1(3) Soil Management** (\*\*\*\*\*\*)

Contaminated soils resulting from the ASARCO Plume fall out is possible within the project limits. The Contractor shall load any contaminated export material directly into trucks and dispose of the contaminated materials at LRI Landfill, located at 30919 Meridian Street East, Graham, WA or a licensed solid waste disposal facility. A Waste Disposal Authorization (WDA) for LRI shall be supplied to the Contractor at the beginning of the Construction Activities. The Contractor shall follow all provisions of the WDA.

#### 2-17.1(4) Submittals

This paragraph lists submittals required for this project area. Other submittals will be as required.

- 1. Health and Safety Plan Section 2-17.2(2).
- 2. Resume of Site Health and Safety Officer Section 2-17.2(3).
- 3. Manifest Package and Supporting Analytical Data Section 2-17.3(2)D
- 4. Soil Management Plan Section 2-17.2(5)
- 5. Contractor and/or Subcontractor Environmental Qualifications

#### 2-17.2 Health and Safety

The Contractor shall be responsible for the health and safety conditions at the job site related to the regulated substances. This includes the health and safety of workers and public during work and non-working hours. The Contractor shall inform all workers and visitors of the potential for exposure to regulated materials. The Contractor shall follow regulatory procedures to prevent the release of contamination.

Contaminated material excavated during the project is considered solid waste. The Contractor's Health and Safety Plan shall specify training requirements for the site, including 24, 48, or 80 hour training OSHA training as referenced in WAC 296 843 20010, if applicable. The Contractor shall be responsible for all training costs.

#### 2-17.2(1) Health and Safety Laws and Regulations

For all work conducted within the limits of this project site, the Contractor shall ensure compliance with all applicable health and safety provisions for hazardous waste operations, including requirements of the Federal Occupation Safety and Health Act of 1970 (OSHA) and all amendments, including 29 CFR Part 1910, WAC 296-843, as well as any other applicable regulations. Failure to be thoroughly familiar with applicable health and safety

provisions shall not relieve the Contractor of the responsibility to fully comply with all laws and regulations.

### 2-17.2(2) Health and Safety Plan

The Site Health and Safety Plan shall be prepared in accordance with WAC 173-340-810. The Contractor shall develop a written Site Health and Safety Plan to be used for the duration of the project. The plan shall incorporate all required city, county, state, and federal health and safety provisions. The plan shall be submitted to the City within ten (10) working days after execution of the contract. The Contractor is advised that the City will review the Site Health and Safety Plan, but the Contractor is solely responsible for ensuring that the Site Health and Safety Plan is implemented in accordance with the regulatory requirements. At least one copy of the plan shall be maintained at the work site. A properly qualified individual shall be assigned to serve as the Site Health and Safety Officer, authorized to supervise and enforce compliance with the plan. The Health and Safety Officer shall be responsible for monitoring the work area for health hazards including sampling of the air, soil, and water as required to ensure worker safety.

All provisions of the Site Health and Safety Plan shall apply to the Contractor, Subcontractors, and all other visitors to the site. Approved Subcontractors may elect to develop a site-specific plan, but this shall not relieve the Contractor of the requirements and responsibilities described herein. The terms and provisions of a Subcontractor's site-specific plan shall meet or exceed the Contractor's plan and shall be submitted to the City or its agents prior to the Subcontractor commencing work.

The Site Health and Safety Plan shall comply with all applicable regulations and shall include, but not be limited to:

1. A list of chemical hazards and physical hazards, allowable OSHA exposure levels, threshold limit values, and all other regulatory exposure levels.

2. If 24, 48, or 80 hour training is required by the Site Health and Safety Plan, then the Contractor shall provide a list of all persons, by work category/type, who will be trained. Photocopies of the employee's training certificates shall be submitted to the Contracting Agency.

3. Engineering controls, work practices, personnel and equipment decontamination procedures, and types of personal protective equipment to be used.

4. A list of safety and monitoring equipment to be kept at the job site and its storage location. A record of monitoring equipment calibration shall be maintained.

5. A list of required health and safety information to be documented.

6. An emergency evacuation plan for immediate removal to the nearest hospital or doctor's care for any person who may be injured on the job site. It shall include evacuation routes to medical treatment and emergency telephone numbers for hospitals, ambulances, police and fire departments, poison control, and the City of Tacoma.

In the event the Health and Safety Plan is determined by a regulatory agency to be inadequate to protect the employees and the public, then the Plan shall be modified by the Contractor at the Contractor's sole expense.

#### 2-17.2(3) Health and Safety Officer

The Contractor shall appoint a Site Health and Safety Officer for the project. The Health and Safety Officer must meet the requirements contained in 29 CFR Part 1910 and Chapter 296-62 WAC and who is qualified by experience and training in hazardous waste operations in accordance with other applicable laws, regulations, and requirements of this Section. The Site Health and Safety Officer shall be qualified and authorized to monitor, supervise, and enforce safety compliance with the Site Health and Safety Plan. A resume of the Site Health and Safety Officer's qualifications shall be submitted to the City for review within five (5) working days of receiving the Notice to Proceed. The Site Health and Safety Officer shall be on site at all times when work operations involve excavation and trenching or at other times when the potential for encountering hazardous substances exists as identified as contaminated soil in the Plans and Section 2-17.

The Contractor shall be solely responsible for identification and monitoring of air (gases), soil, dust, and groundwater with chemical constituents that could pose health and safety concerns to site personnel. The Contractor shall provide for the protection of safety and health of all workers and other authorized persons, including the City and its agents at the jobsite from exposure to potentially hazardous substances.

The Contractor shall be solely responsible for ensuring that all necessary monitoring equipment, protective clothing, and other supplies and equipment up to the appropriate level of protection as defined by WISHA, OSHA, and other applicable guidelines are available to implement the plan. No work shall take place in areas where hazardous substances may potentially be present unless the Site Health and Safety Officer is present and monitoring site conditions.

The Contractor, through the Site Health and Safety Officer, shall not permit any employee, in the performance of the Contract, to work under conditions which are hazardous to the employee. Should violations of the safety and health requirements be called to the Site Health and Safety Officer's attention by the City, its agent, or any authorized representative of a regulator agency, then the Contractor shall immediately correct the identified conditions.

#### 2-17.2(4) Contractor Safety Equipment

The Contractor shall maintain, at the job site, first-aid and safety equipment applicable to the work as prescribed by the governing safety authorities. All required safety equipment shall be kept in fully operational condition for the duration of the contract.

All personnel shall be trained in the use of the appropriate safety equipment that would be utilized during the course of their work. The Site Health and Safety Officer shall ascertain that the safety equipment is being used when appropriate and/or required.

#### 2-17.2(5) Soil Management Plan

The Contractor shall submit a detailed plan for management of all excavated soils. The plan shall include excavation, loading, and transporting procedures, dust control procedures, and disposal of contaminated soils.

#### 2-17.3(1) Notification

The Contractor shall notify the Contracting Agency, in writing, at least ten (10) working days prior to the date that excavation operations are to begin and identify the limits of that excavation. Excavation and sampling shall not take place without a designated representative from the Contracting Agency on site.

### 2-17.3(2) Transportation

#### 2-17.3(2)A General

The Contractor shall provide all equipment, personnel, and materials necessary to load and transport waste materials, including contaminated soils and debris, for off-site treatment and/or disposal in accordance with federal, state, and local regulations.

#### 2-17.3(2)B Control of Waste Material

Vehicles used by the Contractor to transport waste materials shall be properly designed, equipped, and maintained to prevent the loss of materials during transport. The following requirements shall be met for all vehicles transporting waste materials from the site:

- 1. No soil from the site shall adhere to the outside of the surface of the vehicle (including tires and undercarriage).
- 2. No liquids shall be leaking or dripping from the vehicles.
- 3. Any and all waste materials shall be covered with tarpaulin or otherwise completely enclosed to prevent loss of materials from the vehicle during transport.

If leaking or dripping from transport vehicles occurs, the Contracting Agency may direct the Contractor to use liners or other means to prevent dripping and leaking. The Contractor shall implement such measures, as directed by the Contracting Agency, at the Contractor's sole expense.

#### 2-17.3(2)C Street Sweeping

The Contractor shall sweep those streets within the project when truck traffic carries soil from the site into the street. Street sweeping shall be conducted in such a way as to not generate visible dust. Material collected from street sweeping shall be disposed of in a legal manner at an off-site location and be included in the street cleaning bid item.

#### 2-17.3(2)D Transportation and Shipping Requirements

The Contractor shall be responsible for obtaining permits and authorizations necessary to use the selected haul routes. The Contractor shall use United States DOT regulations, 49 CFR 172.101 to identify proper shipping names for each hazardous material (including Dangerous Waste) to be shipped off site. Proper shipping names shall be submitted to the Contracting Agency in the form of draft shipping documents for review and comment.

The Contractor shall ensure that each shipment of material sent off site is accompanied by the appropriate shipping documents. The Contractor shall prepare a bill of lading for each shipment of regulated material which does not require a hazardous waste manifest. The bill of lading shall satisfy the requirements of United States DOT regulations, 49 CFR 172

Subpart C and any applicable state or local law or regulation, and shall be submitted to the Contracting Agency for review. The Contractor shall be responsible for completing the shipping documents and obtaining the signatures of the Contracting Agency as needed. 2-17.3(3) Off-site Treatment and Disposal The Contractor shall provide documentation of legal disposition including trip tickets and Certificates of Disposal. 

#### 2-17.4 Measurement

No specific measurement shall apply to the lump sum item of Contaminated Soil; Health, Safety and Soil Management.

#### 2-17.5 Payment

Payment will be made in accordance with Section 1-04.1 for each of the following Bid Items that are included in the Proposal:

"Contaminated Soil; Health, Safety and Soil Management", per lump sum.

This bid item shall include costs for the Health and Safety Plan, Health and Safety Officer and the Soil Management Plan.

Health and safety training, safety equipment and practices, dust control, efficiency losses to other Contract items caused by handling contaminated materials, and other Work required to comply with this specification not specifically identified in a Bid item shall be considered incidental to the work to comply with this Section and all costs therefore shall be included in the Contract prices for the payment items involved and included in the Proposal.

#### **END OF SECTION**

1 2 3	3-04 ACCEPTANCE OF AGGREGATE (April 1, 2012 Tacoma GSP)
3 4 5	3-04.1 Description
6 7	The first and third paragraphs are deleted.
8 9	The fourth paragraph is revised to read:
10 11	Nonstatistical evaluation will be used for the acceptance of aggregate materials.
12 13	3-04.3(1) General
14 15	The first sentence is revised to read:
16 17 18	For the purpose of acceptance sampling and testing, all test results obtained for a material type will be evaluated collectively.
19 20 21	3-04.3(4) Testing Results This section is replaced with the following:
22 23 24	The results of all acceptance testing will be provided by the City's Project Engineer within 3 working day of testing.
25 26 27	3-04.3(6) Statistical Evaluation This section is deleted:
28 29	
30 31	END OF SECTION

1	4-04 BALLAST AND CRUSHED SURFACING
2	(March 17, 2003 Tacoma GSP)
3	
4	4-04.5 Payment
5	
6	This section is supplemented with the following:
7	
8	All costs for labor, equipment, and materials required to furnish, place, and compact the
9	crushed surfacing top course for all asphalt concrete approaches and non-paved
10	approaches shall be included in the unit Contract price for "Crushed Surfacing Top Course",
11	per ton.
12	END OF SECTION
13	

### 10 24 27

### 5-04 HOT MIX ASPHALT (April 1, 2018 Tacoma GSP)

This Section is revised according to the following overriding provisions:

Nonstatistical or test point evaluation shall be the method for HMA compaction acceptance for all HMA pavement, except where visual or commercial evaluation is specified. Visual evaluation shall be considered synonymous with commercial evaluation. The Contracting Agency will not be required to perform any acceptance by statistical evaluation.

All references to "statistical" are revised to read "nonstatistical", and "nonstatistical" evaluation shall be considered synonymous with "test point" evaluation. Thus, all Specifications for test procedures, methods, construction requirements, and requirements for evaluation and acceptance shall apply to the Work with the following exceptions:

- a. The Contracting Agency shall not be required to perform statistical analysis of any acceptance test results.
- b. Quantities for sublots and lots shall be as determined by the Engineer. If test results are found not to be within specification requirements, additional testing as needed to determine a CPF may be performed.
- c. The Contracting Agency shall not be required to make price adjustments based on pay factors and composite pay factors.

#### 5-04.2 Materials

### 5-04.2(1) How to Get an HMA Mix Design on the QPL (April 1, 2018 Tacoma GSP)

For Subsection 5-04.2(1) the term "Contracting Agency" is revised to read "WSDOT".

### 5-04.2(2) Mix Design – Obtaining Project Approval (April 1, 2018 Tacoma GSP)

This section is revised to read:

The Contactor shall submit each HMA mix design to the Contracting Agency on WSDOT Form 350-042. The Contractor shall provide a mix design based upon 3 million ESAL's.

No paving shall begin prior to the HMA mix design acceptance by the Engineer for the Job Mix Formula (JMF) that will be used for the same paving. The Contracting Agency will evaluate HMA mix design submittals according to Visual Evaluation per Table 1. The mix design will be the initial JMF for the class of HMA. The Contractor may request a change in the JMF. Any adjustments to the JMF will require the approval of the Project Engineer and must be made in accordance with Section 9-03.8(7).

Mix designs for HMA shall have the aggregate structure and asphalt binder content determined in accordance with WSDOT Standard Operating Procedure 732 and meet the requirements of Sections 9-03.8(2) and 9-03.8(6). The Contractor shall determine anti-strip additive requirements for the HMA and submit laboratory test data for anti-stripping and rutting in accordance with the following options:

- 1. Hamburg Wheel track Test and Section 9-03.8(2), or
- 2. 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:

- 6. The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below.
- 7. 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.\*\*
- 1. 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:

- 2. Do not use additives that reduce the mixing temperature in the production of High RAP/Any RAS mixtures.
- 3. 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.

5-04.3(3)C Pavers (April 1, 2018 Tacoma GSP)
The second paragraph is deleted.

### 5-04.3(3)D Material Transfer Device or Material Transfer Vehicle (April 1, 2018 Tacoma GSP)

The first paragraph is revised to read:

A Material Transfer Device/Vehicle (MTD/V) shall not be used unless specific paving areas are specified below. A MTD/V shall only be used according to this special provision for the following paving areas:

# 5-04.3(4)C Pavement Repair (April 1, 2018 Tacoma GSP)

This section is revised to read:

Pavement repair shall be in accordance with the City of Tacoma Right-of-Way Restoration Policy found at:

https://www.cityoftacoma.org/government/city\_departments/public\_works/right-of-way

Pavement repair consists of asphalt concrete saw-cutting, removing asphalt concrete pavement, removing crushed surfacing and subgrade, and installing Construction Geotextile for Separation, placing crushed surfacing top course over the Construction Geotextile, and HMA in accordance with the Contract or as directed by the Engineer.

Pavement repair excavation may also be performed by the use of a milling machine of a type that has operated successfully on work comparable with that to be done under the Contract and shall be approved by the Engineer prior to use. If a milling machine is used for excavation, the excavation shall be as directed by the Engineer.

In all types of excavation, after the removal of the asphalt, the base material will be evaluated by the Engineer to determine if it is suitable. If the base is determined not to be suitable, the Contractor shall remove the base material and restore the sub-grade in accordance with Section 2-06 and the Plans, regardless of the method used for excavation.

Estimated plan quantities for pavement repair are approximate and are provided for bidding purposes only. The actual dimensions to be used will be verified by the Engineer at the time of construction. Contrary to Section 1-04.6, no changes to the unit prices bid for the various items will be permitted due to any increase or decrease in the amount of pavement repair.

Payment for pavement repair shall be by the unit Bid prices according to the Contract for all materials, labor, and equipment required to complete the pavement repair. Items not included in the Proposal shall be paid for according to Section 1-04.1(2).

### 5-04.3(6) Mixing (Aug 1, 2020 Tacoma GSP)

The first paragraph is revised to read:

The asphalt supplier shall add any recycling agent and anti-stripping additive to the liquid asphalt binder prior to shipment to the asphalt mixing plant, when the mix design includes these additives. The Contractor shall submit the anti-stripping additive amount and the manufacturer's certification, together with the HMA mix design submittal in accordance with Section 5-04.2. Paving shall not begin before the anti-stripping additive submittal is accepted by the Engineer.

# 5-04.3(8) Aggregate Acceptance prior to Incorporation in HMA (Aug 1, 2020 Tacoma GSP)

This section is revised to read:

Sample aggregate in accordance with Section 3-04 prior to being incorporated into HMA. The Contracting Agency shall evaluate the aggregate according to Special Provision 3-04. Aggregate contributed from RAP or RAS shall not be evaluated under Section 3-04.

The combined aggregate bulk specific gravity (Gsb) blend as shown on the HMA Mix Design report or evaluation report per Special Provision 5-04.2(2) will be used for VMA calculations. The Contracting Agency shall not be required to perform a Gsb test.

# 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

51 (April 1, 2018 Tacoma GSP)

The title of this section is revised to read:

48

49

50

51 52 The Contractor shall make no claim for untimely notification by the

analysis thereof).

Contracting Agency of the Contracting Agency's test results (or statistical

```
1
      5-04.3(10)B HMA Compaction - Cyclic Density
 2
      (April 1, 2018 Tacoma GSP)
 3
      This section is deleted.
 4
 5
      5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots
 6
      (April 1, 2018 Tacoma GSP)
 7
      This section is deleted.
 8
 9
      5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing
10
      (April 1, 2018 Tacoma GSP)
11
      The title of this section is revised to read:
12
13
      5-04.3(10)C2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing
14
      The second paragraph is revised to read:
15
16
      Compaction tests will be performed at a minimum of 5 various locations, as determined by
17
      the Engineer, for each 400 tons placed. The locations will be determined by the stratified
18
      random sampling procedure conforming to WSDOT Test Method T 716. For an area in
19
      progress with a CPF less than 0.75, a new compaction sequence will begin at the
20
      Contractor's request after the Project Engineer is satisfied that material conforming to the
21
      Specifications can be produced. The Compaction Test Procedures will be provided to the
22
      Contractor by the Contracting Agency at the Pre-Construction Conference or a Pre-Paving
23
      Meeting, prior to the placement of HMA material on site.
24
25
      This section is supplemented with the following:
26
27
      Cores may be used as an addition to the nuclear density gauge tests. When cores are
28
      taken by the Engineer at the request of the Contractor, the request shall be made by noon of
29
      the first working day following placement of the mix. The Engineer shall be reimbursed for
30
      the coring expenses.
31
32
      The Engineer will inform the Contractor of field compaction test results as work is being
33
      performed. Formal Test Report(s) will be provided to the Contractor within 3 Working Days.
34
35
      HMA for preleveling shall be compacted to the satisfaction of the Engineer.
36
37
      5-04.4 Measurement
      (*****)
38
39
      The first paragraph is revised to read:
40
      HMA CI. ___ PG ___, HMA for __ CI. __ PG __, and Commercial HMA will be measured by
41
42
      the square yard in accordance with Section 1-09.2, with no deduction being made for the
43
      weight of asphalt binder, blending sand, mineral filler, anti-stripping additive, or any other
44
      component of the mixture; and the measurement shall include finished driveway and
45
      approach, asphalt wedge curbs and thickened edges in accordance with the Plans or as
46
      directed by the Engineer. If the Contractor elects to remove and replace mix as allowed in
47
      Section 5-04.3(11), the material removed will not be measured.
48
49
      The second paragraph is revised to read:
50
51
      No specific unit of measure will apply to roadway cores, which shall be included in the
52
      measurements for the HMA items that are included in the Proposal.
```

1 2	This section is supplemented with the following:
3 4 5	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.
6 7	5-04.5 Payment (*****)
8 9	Pay items for "Job Mix Compliance Price Adjustment" and "Compaction Price Adjustment" are deleted.
10	
11	The following pay items for HMA are revised to read:
12	
13	"HMA CI PG", per square yard.
14	
15	The unit Contract price per ton for "HMA CI PG" and "HMA for CI PG"
16	shall be full payment for all costs incurred to carry out the requirements of Section 5-04,
17	including coring and testing, and shall include anti-stripping additive, asphalt wedge curbs,
18	thickened edges, curb drains, and connection to existing drains in accordance with the
19	Contract. Any costs that are already included in other Bid items in the Proposal shall not be
20	included in the unit Contract prices per square yard for these HMA Bid items. The
21	Contractor shall also include all costs associated with excavating for driveways and
22	approach, including haul and disposal regardless of the depth.
23 24	"Cold Plant Mix for Temporary Pavement Patch", per ton.
2 <del>4</del> 25	Cold Plant Mix for Temporary Pavement Patch, per ton.
26	The unit Contract price for "Cold Plant Mix for Temporary Pavement Patch" shall be full pay
27	for all labor, equipment, and materials required to furnish and install; maintain; and remove
28	and dispose of the temporary patch.
29	and dispose of the temporary pateri.
30	Temporary pavement patches placed between October 1st and March 31st shall be HMA Cl.
31	½" PG 58H-22.
32	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
33	END OF SECTION
34	
35	

1	6-02 CONCRETE STRUCTURES
2	(*****)
3	C 02 2/4) Classification of Structural Consucts
4 5	6-02.3(1) Classification of Structural Concrete
6	This section is supplemented with the following:
7	This section is supplemented with the following.
8	Sidewalks, Driveway Entrances, Curbs and Gutters shall be constructed with Concrete
9	Class 3000 psi. at a minimum.
10	
11	6-02.3(2)B Commercial Concrete
12	
13	The second paragraph is revised to read:
14	When a constant Class 2000 is an additional familians and a configuration of the section of the
15 16	Where concrete Class 3000 is specified for items such as, culvert headwalls, plugging culverts, concrete pipe collars, pipe anchors, monument cases, Type PPB, PS, I, FB and
17	RM signal standards, pedestals, cabinet bases, guardrail anchors, and fence post footings,
18	the Contractor may use commercial concrete.
19	• • · · · · · · · · · · · · · · · ·
20	This section is supplemented with the following:
21	
22	The contractor shall not use commercial concrete for Driveway Entrances, sidewalks and
23	Trails and curbs and Gutters.
24	
25 26	END OF SECTION
26 27	END OL SECTION
<b>∠</b> 1	

7-02 CULVERTS (April 1, 2012 Tacoma GSP) 7-02.2 Materials This section is supplemented with the following: A culvert pipe with beveled ends shall be placed under curb ramps to ensure existing drainage where indicated in the plans or as directed by the Engineer in the field. 7-02.3 Construction Requirements This section is supplemented with the following: The culvert pipe shall be placed under the ramp to maintain existing drainage. The pipe shall extend on both sides a minimum of two feet from the edge of the ramp and be beveled on each end. Quarry Spalls shall be placed at each end of the pipe or as directed by the Engineer. After placement of any culvert pipe the Engineer may direct the Contractor to reshape and/or excavate a portion of the existing ditch beyond the end of the pipe to maintain positive drainage and restoration. 7-02.5 Payment This section is supplemented with the following: "D.I. Culvert Pipe, -In. Diam." per linear foot. The unit contract price for "D.I. Culvert Pipe, -In. Diam." per linear foot shall be full pay for all labor, materials, and equipment necessary to install the pipe as shown in the plans and as described in these specifications including, but not limited to, excavation, haul, disposal of extra material, backfill, bedding, and beveling. Quarry Spalls shall be paid in accordance with Section 8-15. Re-grading beyond the ends of the pipe shall be paid in accordance with Section 8-02. 

### **END OF SECTION**

### 8-01 EROSION CONTROL AND WATER POLLUTION CONTROL (April 1, 2018 Tacoma GSP)

### 8-01.1 Description

This section is supplemented with the following:

The City of Tacoma Stormwater Management Manual is available on the City's website at www.cityoftacoma.org/stormwatermanual.

### **8-01.3 Construction Requirements**

8-01.3(1) General

### 8-01.3(1)A Submittals

This section is revised to read:

The Contractor shall adopt or modify a Temporary Erosion and Sediment Control (TESC) Plan and Stormwater Pollution Prevention Plan (SWPPP) Report completed by the City in Appendix C. The Contractor shall include an implementation schedule for the TESC Plan and SWPPP and incorporate this implementation schedule into the Contractor's progress report. The SWPPP and implementation schedule shall be submitted in accordance with 1-05.3 and 1-08.3

TESC Plans and SWPPP Reports that are modified by the Contractor shall be reviewed and approved by the Project Engineer before implementation. The Contractor shall allow 5 working days for the Project Engineer to review any original or revised TESC Plans or SWPPP reports. Failure to approve all or part of any such Plan shall not make the Contracting Agency liable to the Contractor for any Work delays.

The SWPPP is considered a "living" document that shall be revised to account for additional erosion control/pollution prevention BMPs as they become necessary and are implemented in the field during project construction. A copy of the most current SWPPP and TESC Plan shall remain on-site at all times and an additional copy shall be forwarded to the Engineer. At the Contractor's preference, revisions to the SWPPP and TESC Plan may be forwarded to the Engineer rather than submitting a complete document. Revisions to the SWPPP and TESC Plan may be kept on-site in a file along with the original SWPPP document.

The Contractor shall provide Stormwater Pollution Prevention Plan inspection reports or forms per 8-01.3(1) B to the Project Engineer no later than the end of the next working day following the inspection.

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

This section is revised to read:

The Contractor shall identify the ESC Lead at the Preconstruction Meeting and the contact information for the ESC Lead shall be added to the Stormwater Pollution Prevention Plan (SWPPP) Report and the Temporary Erosion and Sediment Control (TESC) Plan Sheet. The ESC Lead shall maintain, for the life of the contract, a current Certified Erosion and Sediment Control Lead (CESCL) certificate or maintain a current Certified Professional in Erosion and Sediment Control (CPESC) certificate from a course approved by the Washington State Department of Ecology. The CESCL or CPESC shall be listed on the Emergency Contact List required under Section 1-05.13(1).

The CESCL or CPESC shall direct implementation of the measures identified in the SWPPP and as shown on the TESC plan. Implementation shall include, but is not limited to the following:

- Installing and maintaining all temporary erosion and sediment control Best
  Management Practices (BMPs) included in the SWPPP and as shown on the TESC
  plan. Damaged or inadequate BMPs shall be corrected as needed to assure
  continued performance of their intended function in accordance with BMP
  specifications and Permit requirements.
- Performing monitoring as required by the NPDES Construction Stormwater General Permit.
- Inspecting all on-site erosion and sediment control BMPs at least once every calendar week and within 24 hours of any discharge from the site. A SWPPP Inspection report or form shall be prepared for each inspection and shall be included in the SWPPP file. A copy of each SWPPP Inspection report or form shall be submitted to the Engineer no later than the end of the next working day following the inspection. The report or form shall include, but not be limited to the following:
  - When, where, and how BMPs were installed, maintained, modified, and removed.
  - o Observations of BMP effectiveness and proper placement.
  - Recommendations for improving future BMP performance with upgraded or replacement BMPs when inspections reveal SWPPP inadequacies.
  - Approximate amount of precipitation since last inspection and when last inspection was performed.
- Updating and maintaining a SWPPP file on site that includes, but is not limited to the following:
  - SWPPP Inspection Reports or Forms.
  - SWPPP narrative.
  - National Pollutant Discharge Elimination System Construction Stormwater General Permit (Notice of Intent).
  - All documentation and correspondence related to the NPDES Construction Stormwater General Permit.
  - Other applicable permits.

Upon request, the file shall be provided to the Engineer for review.

### 8-01.3(1)C Water Management

This section is revised to read:

**General.** The Contractor is responsible for keeping excavations free from standing water during construction and disposing of the water in a manner that will not cause pollution, injury to public or private property, or cause a nuisance to the public. Groundwater flowing toward, into, or within excavations shall be controlled to prevent sloughing of excavation walls, boils, uplift, and heave in the excavation, and to eliminate interference with orderly progress of construction. The control of groundwater shall be such that softening of the bottom of excavations, or formation of "quick" conditions or "boils" during excavation, shall not occur. The Contractor is responsible for all foundation material required due to lack of dewatering efforts.

### 8-01.3(2) Temporary Seeding and Mulching

### 8-01.3(2)B Temporary Seeding

The first paragraph is supplemented with the following:

All seeding areas shall be seeded with the following mix:

Type of Seed	% by Weight
Chewings or Annual Bluegrass	40
Festuca rubra var. commutate or Poa anna	
Perennial Rye	50
Lolium perenne	
Redtop or Colonial Bentgrass	5
Agrostis alba or Agrostis tenuis	
White Dutch Clover	5
Trifolium repens	

The rate of application shall be 120 lbs. per acre.

Seeding fertilizer shall be per seed supplier's recommendations for hydroseed application.

The fourth paragraph is supplemented with the following:

Seed shall be distributed uniformly over the designated area. Half of the seed shall be sown with the sower moving in one direction, and the remainder with the sower moving at right angles to the first sowing.

### 8-01.3(2)D Temporary Mulching

The first paragraph is supplemented with the following:

Moderate-Term Mulch shall be applied at a rate of 3,500 lbs. per acre.

### 8-01.3(2)E Tackifiers

This section is supplemented with the following:

Organic Tackifier shall be applied at a rate per manufacturer's instructions.

### 8-01.3(8) Street Cleaning

The third paragraph is revised to read:

Street washing with water shall not be permitted.

### 8-01.3(9) Sediment Control Barriers

### 8-01.3(9)D Inlet Protection

Replace the third paragraph of this section with the following:

When the depth of accumulated sediment and debris reaches approximately 1/3 the height of an internal device or 1/3 the height of the external device (or less when so specified by the manufacturer), or as designated by the Engineer, the sediment and debris shall be removed and disposed of per SWMM BMP C220 or as specified on the Plans or within the SWPPP.

The section is supplemented with the following: Only bag-type filters are allowed for use in the public right of way. 8-01.3(10) Wattles The fifth and sixth sentences are revised to read: On gradually sloped or clay-type soils trenches shall be 3 to 5 inches deep. On loose soils, in high rainfall areas, or on steep slopes, trenches shall be 3 to 5 inches deep, or 1/2 to 2/3 the thickness of the wattle. 8-01.4 Measurement 8-01.4(2) Item Bids This section is supplemented with the following: 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.

### 8-01.5(2) Item Bids

This section is supplemented with the following:

"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.

"Erosion Control/Water Pollution Control", per lump sum.

The lump sum contract price for "Erosion Control/Water Pollution 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 for the entire duration of the Project.

### **END OF SECTION**

### 8-02 ROADSIDE RESTORATION (April 1, 2018 Tacoma GSP)

### 8-02.3 Construction Requirements

This section is supplemented with the following:

Site Restoration shall be limited to restoration in kind of disrupted areas as necessary for removal and construction of sidewalk, curbs, and curb ramps.

### 8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation

This section is supplemented with the following:

All grades shall be maintained in the areas to be planted in a true and even condition. The contractor shall be careful not to disturb any of the existing or cut slopes. Where final grades have not been established, the areas shall be finish graded and all surfaces left in an even and compacted condition. The finished grade shall be such that after planting, the grade shall be flush with adjoining surfaces; positive drainage shall also be maintained.

### 8-02.3(5)B Lawn Area Preparation

Item 3 of this section is supplemented with the following:

The depth of cultivation shall be 4 inches.

Item 4 of this section is revised to read:

Till to a 4 inch depth, rake to a smooth even grade without low areas that trap water, and compact to 90% maximum modified proctor density. The finished grade of the soil shall be 1-inch below the top of all curbs, junction and valve boxes, walks, driveways, and other structures.

### 8-02.3(6) Mulch and 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(8) Planting

### 8-02.3(8)C Pruning, Staking, Guying and Wrapping

This section is supplemented with the following:

Crossed or rubbing branches shall be removed providing the natural shape of the tree is preserved. Under no circumstances shall pruning be done prior to inspection and approval of plants by the Engineer. All cuts shall be made flush with the parent stem leaving no stubs. Pruning cuts shall be made in a manner to favor the earliest possible covering of the wound by callus growth. Cuts that produce large wounds and weaken the tree will not be acceptable.

Top growth removal to compensate for root loss shall not exceed one-third (1/3) of the top growth unless otherwise specified or directed by the Engineer. Cuts created 3/4 inch in diameter shall be treated with an approved tree wound dressing. All pruning shall produce a clean cut without bruising or tearing the bark and shall be in living wood where the wood can properly heal over.

Evergreens shall not be pruned, except to remove injured branches. The use of pole shears and/or hedge shears for pruning deciduous and evergreen trees will not be permitted. All trimmings and other debris left over from the planting operations shall be collected and disposed of off the site.

All evergreen trees and deciduous trees over 15 feet in height shall be guyed with three wires or cables.

All deciduous and evergreen trees shall be staked the same day of planting.

### 8-02.3(10) Lawn Installation

### 8-02.3(10)A Dates and Conditions for Lawn Installation

The second paragraph is supplemented with the following:

Where no irrigation system is to be installed, the lawn shall be placed during the following period only:

March 1st – June 30th September 1st - October 25

### 8-02.3(10)B Lawn Seeding and Sodding

The first paragraph is supplemented with the following:

Lawn Installation with "Low-Growing Turf Seed Mix" shall meet the following:

Type of Seed	% by Weight
Dwarf Tall Fescue (several varieties)	45
Festuca arundinacea var.	
Dwarf Perennial Rye (Barclay)	30
Lolium perenne var. Barclay	
Red Fescue	20
Festuca rubra	
Colonial Bentgrass	5
Agrostis tenuis	

The rate of application shall be 120 lbs per acre.

The third paragraph is supplemented with the following:

Topsoil shall be tilled in accordance with City of Tacoma Standard Plan GSI-01b. On sloped areas, the sod strips shall be laid perpendicular to the flow of water.

### 8-02.3(10)C Lawn Establishment

This section is supplemented with the following:

Lawn that is replaced shall be of the same mixture and grade as the surviving lawn.

### 8-02.3(11) Mulch

### 8-02.3(11)B Bark or Wood Chip Mulch

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

Bark or wood chip 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 9-14.5(3) shall be applied to a minimum depth of 3 inches at the location indicated on the Plans or as directed by the Engineer.

### 8-02.3(14) Plant Replacement

This section is revised to read:

The Contractor shall provide the Contracting Agency a one (1) year non pro-rated, full labor and materials warranty for all planted material. The warranty shall cause the Contractor to remove and replace all rejected plant material during the warranty period. The warranty period shall begin at the date of physical completion of the contract and end one calendar year from that date.

The Contractor shall be responsible for growing or providing enough plants for replacement of all plant material rejected during the warranty period. All rejected plant material shall be replaced at dates approved by the Engineer.

All replacement plants shall be of the same species and quality as the plants they replace. Plants may vary in size reflecting one season of growth should the Contractor elect to hold plant material under nursery conditions for an additional year to serve as replacement plants.

Replacement plants will be subject to the original warranty provision as stated above.

Section 8-02.3 Construction Requirements is supplemented with the following:

### 8-02.3(17) Site Restoration

During the construction of the curb ramps, curb and gutter construction, and sidewalk construction; the Contractor shall replace in kind, including but not limited to: topsoil, plants, wood chip mulch, garden walls, rockery, or irrigation heads/pipes, affected by the work. 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.

1 2 3 4 5	Topsoil Type C shall be used for in lieu of sod for areas where sod has been removed. Sod removal for the installation of forms shall be kept to a minimum. The topsoil shall be compacted to 85% of maximum dry density. Topsoil shall be mounded 2 inches to account for settling.
6 7 8	Seeding may be required to limit erosion. Seeding shall be as directed by the Engineer. Seeding cost shall be incidental to the site restoration.
9 10 11 12	Graveled areas will be restored in kind and 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.
13 14	All excess materials shall be removed from the site at the end of each work day.
15 16	8-02.4 Measurement
17 18	The first paragraph is revised to read:
19 20 21	Topsoil, mulch and soil amendments will be measured by the cubic yard in the haul conveyance at the point of delivery.
22 23	The seventh paragraph is revised to read:
24 25	Compost will be measured by the cubic yard in the haul conveyance at the point of delivery.
26 27	The fifteenth paragraph is revised to read:
28	Irrigation water used to establish vegetation will be considered included in the cost of plants.
29 30	8-02.5 Payment
31 32	The pay unit of square yards will be used in lieu of acres.
33 34	The last paragraph is deleted.
35 36 37 38	END OF SECTION

1 2 3	8-03 IRRIGATION SYSTEM (April 1, 2018 Tacoma GSP)
4 5	8-03.3 Construction Requirements
6 7	The first paragraph is revised to read:
8 9 10	Location of pipe, tubing, sprinkler heads, emitters, valves, and other equipment shall be identified in the field by the Contractor, before the sidewalk is removed.
10 11 12	The third paragraph is supplemented with the following:
13 14 15	All electrical work from the electrical source to the controller junction box must be completed by a licensed electrical contractor
16	8-03.3(5) Installation
17 18 19	The first sentence of the second paragraph is revised to read:
20 21 22	Final position of turf heads shall be level or $\frac{1}{2}$ inch below finished grade measured from the top of the sprinkler.
23 24	The fourth paragraph is revised to read:
25 26 27	Final position of valve boxes, capped sleeves, and quick coupler valves shall be level with the finished grade or mulch.
28 29	This section is supplemented with the following:
30 31	The Contractor shall advise the Engineer at least 24 hours before pressure tests are to be conducted.
32 33 34	A zone diagram shall be posted in the controller to facilitate the selection of the valves to be operated.
35 36 37 38 39	END OF SECTION

1 2 3	8-04 CURBS, GUTTERS, AND SPILLWAYS (April 1, 2018 Tacoma GSP)
5 4 5	8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways
6 7	The first paragraph is revised to read:
8 9	Cement concrete curb, curb and gutters, gutters, and spillways shall be constructed with air entrained concrete Class 3000 conforming to the requirements of Section 6-02.
10 11 12	Section 8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways is supplemented with the following:
13 14 15	8-04.3(1)C Integral Cement Concrete Curb
16 17 18 19	When integral curb is being constructed with the pavement, fresh concrete for the integral curb shall be placed at such time as will enable the top section of the curb to be consolidated, finished, and bonded to the pavement slab while the concrete is plastic.
20 21 22	Where curb is not being placed integral with the pavement slab, reinforcing steel dowels shall be placed in the base section for the curb in accordance with the standard drawing.
22 23 24	Section 8-04.3 Construction Requirements is supplemented with the following:
25 26	8-04.3(6) Cold Weather Work
27 28	The following additional requirements for placing concrete shall be in effect from November 1 to April 1:
29	The Engineer shall be notified at least 24 hours prior to placement of concrete.
30	All concrete placement shall be completed no later than 2:00 p.m. each day.
31 32 33	<ul> <li>Where forms have been placed and the subgrade has been subjected to frost, no concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.</li> </ul>
34 35 36	8-04.5 Payment
37 38	The bid item for "Cement Conc. Traffic Curb and Gutter" is revised to read:
39 40	"Cement Conc. Traffic Curb and Gutter", per linear foot
41 42 43 44 45	The unit contract price per linear foot for "Cement Conc. Traffic Curb and Gutter" shall be full pay for all labor, tools, equipment, and materials required to construct all types of concrete curbs, curbs and gutters, including excavation, according to the Plans and these Specifications.
46 47	END OF SECTION

### **END OF SECTION**

1 2 3 4 5 6 7 8	8-06 CEMENT CONCRETE DRIVEWAY ENTRANCES (April 1, 2018 Tacoma GSP)
	8-06.3 Construction Requirements The first paragraph is revised to read:
	Cement concrete driveway approaches shall be constructed with air entrained concrete Class 3000 conforming to the requirements of Section 6-02 or Portland Cement Concrete Pavement conforming to the requirements of Section 5-05.
10 11 12	This section is supplemented with the following sub-section:
13 14	8-06.3(1) Cold Weather Work
15 16	The following additional requirements for placing concrete shall be in effect from November 1 to April 1:
17	The Engineer shall be notified at least 24 hours prior to placement of concrete.
18	All concrete placement shall be completed no later than 2:00 p.m. each day.
19 20 21 22	<ul> <li>Where forms have been placed and the subgrade has been subjected to frost, no concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.</li> </ul>
23 24	8-06.5 Payment The third paragraph is revised to read:
25 26 27 28 29 30	Excavation required for the construction of the driveway entrance shall be paid for under the unit Contract price for "Roadway Excavation, Incl. Haul" when included in the Proposal. Otherwise, the Contractor shall include all costs associated with excavating, including haul and disposal, regardless of the depth in the unit Contract price for "Cement Conc. Driveway Entrance Type".
31 32	This section is supplemented with the following:
33 34 35	"Cement Conc. Driveway Entrance", per square yard.
36 37 38 39 40 41	The unit contract price per square yard for "Cement Conc. Driveway Entrance" shall be full pay for all labor, tools, equipment, and materials, excavating, including haul and disposal, regardless of the depth required to construct the concrete driveway(s) in segments, site restoration and installing and removing a Temporary Driveway Access shall be included. All types of concrete driveway entrances are included in this bid item.
42 43 44	END OF SECTION

8-14 CEMENT CONCRETE SIDEWALKS (\*\*\*\*\*\*)

8-14.3 Construction Requirements

8-14.3(3) Placing and Finishing Concrete (\*\*\*\*\*\*)

The fourth paragraph is revised to read:

Curb ramps and sidewalk connections to existing grades shall be designed in field by the Contractor and the Engineer at the locations designated in Appendix A. In general the field design of the curb ramp shall be guided by and conform to City of Tacoma Standard Plans SU-05 through SU-05H. Types listed in Appendix A are intended to indicate possible new ramp type and are not intended to show the exact type or size; actual ramp may include wings, flairs, or pedestrian curbs.

This section is supplemented with the following:

The sidewalk may be "ramped" over tree roots. The ramped walk shall not exceed 8 percent maximum running slope. At these locations, the sidewalk expansion joint shall be changed from the standard 15-foot spacing to 5 foot spacing with TripStop joints and transition back into the existing sidewalk. The additional cost to "ramp" sidewalks as described in this section shall be considered incidental to the unit contract price for cement concrete sidewalk. Base material required for the construction of the foundation to ramp the cement concrete sidewalk will be measured by the cubic yard including haul as specified in Section 4-04.

The sidewalk may be "offset" around tree roots in an amount specified by the Engineer. Bender board shall be used when offsetting the walk. The additional excavation required to "offset" sidewalk, as described in this section, shall be considered incidental to the applicable unit contract price for cement concrete sidewalk. Base material required for the construction of the foundation to offset the cement concrete sidewalk will be measured by the cubic yard including haul as specified in Section 4-04.

Monolithic sidewalk shall have an additional surface joint 1/2 inch in depth shall be constructed longitudinally in monolithic curb, gutter and sidewalk for the purposes of delineating the back of the curb. This joint shall be located at 6 inches from the back of sidewalk and shall be continuous for the entire length of the structure.

### 8-14.3(4) Curing

The second sentence is revised to read:

Curing shall be in accordance with Section 5-05.3(13).

Section 8-14 is supplemented with the following:

### 8-14.3(6) Cold Weather Work

The following additional requirements for placing concrete shall be in effect from November 1 to April 1:

1. The Engineer shall be notified at least 24 hours prior to placement of concrete.

- 2. All concrete placement shall be completed no later than 2:00 p.m. each day.
- 3. Where forms have been placed and the subgrade has been subjected to frost, no concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.

4 5 6

1

2

3

### 8-14.3(7) Thickened Edge for Sidewalk

7 8

Thickened edge shall be constructed in accordance with the standard plan.

9 10

### 8-14.3(8) Timing

11 12

13

14

15

16

17

18

Only 10 addresses shall have the sidewalk removed at any one time per assigned crew for this project. A crew is comprised of enough personnel to remove, form, place, finish and provide restoration as required by these contract specifications. Unless otherwise approved by the Engineer, sidewalk removal, installation and ground restoration shall be completed within 5 working days for each address. Should the contractor be unable to properly complete all work at a site within 5 working days, any excavated area shall be backfilled with crushed rock. All costs incurred to backfill and place crushed rock and to remove the crushed rock when opening the site again, shall be at the Contractor's expense.

19 20 21

### 8-14.4 Measurement

22 23

The second paragraph is revised to read:

24 25

Cement concrete curb ramp will be measured per each for the complete curb ramp installed and includes the installation of the detectable warning surface.

26 27 28

### **8-14.5 Payment**

29 30

The fifth paragraph is revised to read:

31 32

"Cement Conc. Curb Ramp", per each

33 34

The sixth paragraph is revised to read:

35 36

37

38

39

The unit Contract price per each for "Cement Conc. Curb Ramp" shall be full pay for the construction of the curb ramp, regardless of type, as specified, including all pedestrian curbs, wings, transitions, flares, ramps and landings, the detectable warning surface, site restoration, erosion control measures, materials, equipment and labor to install the curb ramp. This bid item shall include all curb ramp types.

40 41 42

This section is supplemented with:

43 44

"Cement Conc. Sidewalk, 4 Inch Thickness", per square yard.

45

"Cement Conc. Sidewalk, 6 Inch Thickness", per square yard.

46 47

48

49

50

51

52

The unit Contract price per square yard for "Cement Conc. Sidewalk, 4 Inch Thickness" and "Cement Conc. Sidewalk, 6 Inch Thickness" shall be full pay to replace the existing pavement for the limits marked out in the field or as directed by the Engineer with new sidewalk. This includes work to install TripStop joint filler, new sidewalk and site restoration at the respective work location to restore any grass, bark mulch, or other groundcover in kind along with all materials, equipment, and labor to construct new sidewalk in accordance

with these Specifications and City of Tacoma Standard Plans or as directed by the Engineer at locations listed in Appendix A.

All additional costs related to the construction of thickened edges and the adjustment of utility structures located within the sidewalk shall be included in the unit contract cost for "Cement Concrete Sidewalk". Utility structures shall be adjusted to the grade of the new sidewalk or as designated by the Engineer. Concrete shall be flush with the top of the utility structure and the adjacent improvements.

### **END OF SECTION**

9 10 11

14 15 16

24 25

26 27

12 13

17 18

23

28 29 9-03 **AGGREGATES** (September 20, 2018 Tacoma GSP)

### 9-03.1 Aggregates for Portland Cement Concrete

9-03.1(1) General Requirements (June 16, 2016 Tacoma GSP)

The seventh paragraph is deleted

9-03.6 Vacant (Jun 16, 2016 Tacoma GSP)

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

### 9-03.6 Aggregates for Asphalt Treated Base (ATB)

### 9-03.6(1) General Requirements

Aggregates for asphalt treated base shall be manufactured from ledge rock, talus, or gravel, in accordance with the provisions of Section 3-01 that meet the following test requirements:

Los Angeles Wear, 500 Rev. 30% max. Degradation Factor 15 min.

### 9-03.6(2) Grading

Aggregates for asphalt treated base shall meet the following requirements for grading:

Sieve Size	Percent Passing
2"	100
1/2"	56-100
No. 4	32-72
No. 10	22-57
No. 40	8-32
No. 200	2.0-9.0

30 31

All percentages are by weight.

### 9-03.6(3) Test Requirements

36 37

32 33

34 35

When the aggregates are combined within the limits set forth in Section 9-03.6(2) and mixed in the laboratory with the designated grade of asphalt, the mixture shall be capable of meeting the following test values:

38 39

40

41

42

43

% of Theoretical Maximum Specific Gravity (GMM) (approximate) 93@ 100 gyrations AASHTO T324, WSDOT TM T718 or ASTM D3625 Pass (Acceptable anti-strip evaluation tests) The sand equivalent value of the mineral aggregate for asphalt treated base (ATB) shall not be less than 35.

### 1 2 3

4

9

11 12 13

10

14 15 16

> 17 18

Section 3-01 that meet the following test requirements: Los Angeles Wear, 500 Rev. 30% max. Degradation Factor 15 min.

9-03.8 Aggregates for Hot Mix Asphalt

Supplement section 9-03.8 with the following:

(March 9, 2016 APWA GSP)

**General Requirements** 

Grading Aggregates for PHMA/PWMA shall meet the following requirements for grading:

Aggregates for Porous Hot Mix Asphalt/Porous Warm Mix Asphalt (PHMA/PWMA)

be manufactured from ledge rock, talus, or gravel, in accordance with the provisions of

The aggregate for PHMA/PWMA shall consist of crushed stone with a percent fracture greater than 90% on two faces on the No. 4 sieve and above, and shall be tested in

Aggregates for Porous Hot Mix Asphalt (PHMA) or Porous Warm Mix Asphalt (PWMA) shall

Sieve Size	Percent Passing*
¾" square	100
½" square	90 - 100
¾" square	55 - 90
U.S. No. 4	10 - 40
U.S. No. 8	0 - 20
U.S No. 40	0 - 13
U.S. No. 200	0 - 5

<sup>\*</sup> All percentages are by weight.

accordance with the field operating procedures for AASHTO T 335.

24

19

9-03.12 Gravel Backfill Add the following new Section:

25 26 27

28

29

### 9-03.12(10) Pea Gravel (September 20, 2018 Tacoma GSP)

Sieve Size	Percent Passing*
3/4" square	100
3/8" square	95-100
U.S. No. 8	0 - 10
U.S. No. 200	0 - 3

30 31 Sand Equivalent 35 Minimum \* All percentages are by weight

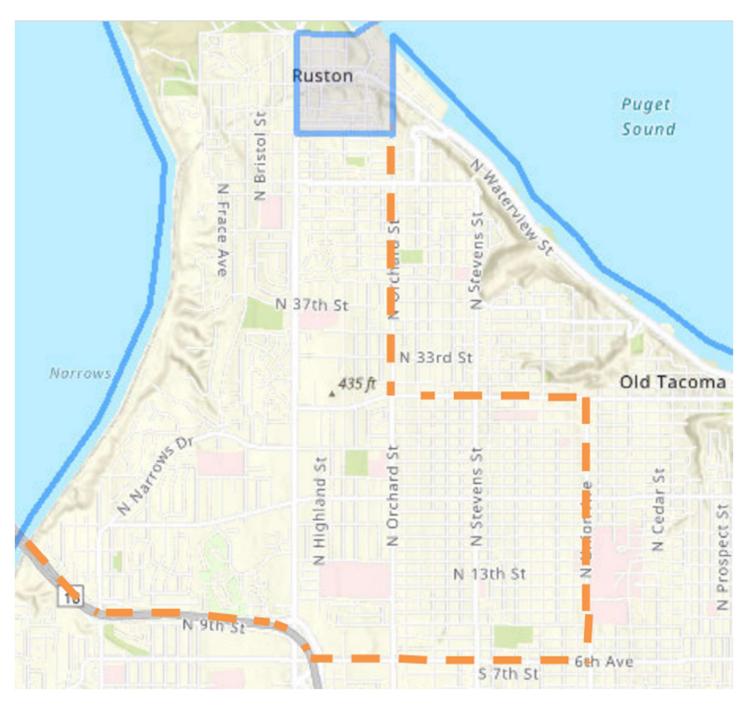
32 33 34

9-03.21 Recycled Material

1	9-03.21(1) General Requirements
2	(Jun 16, 2016 Tacoma GSP)
3	
4	This section is supplemented with the following:
5	
6	Recycled materials will only be permitted upon approval of the Engineer. Recycled
7	concrete shall not be permitted for use as pipe zone backfill, backfill above pipe zone, and
8	extra excavation area backfill material.
9	
10	
11	END OF SECTION
12	
13	
14	END OF SPECIAL PROVISIONS

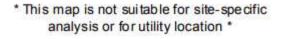
# APPENDIX A CITY OF TACOMA SIDEWALK REPLACEMENT LOCATION LIST

### PW22-0141F Sidewalk Replacement, West End Sidewalk Replacement Area Map











### PW22-0141F SIDEWALK REPLACEMENT, WEST END Contractor List

			Cement Concrete	
Item		Cement Concrete Sidewalk, 4 Inch	Sidewalk 6 Inch	
No.	Location	Thickness	Thickness	Additional Information
1	6021 N 35TH ST	3.5'x5' of neighbor at 6101 N 35th St, 18'x5',		Ramp sidewalk for 21.5'x5', 18'x5', 12'x5',
		12'x5', 5.5'x5'		5.5'x5' using TripStop
2	2711 N BALTIMORE ST	20'x5', 10'x5'		Ramp sidewalk for 20'x5' using TripStop
3	4908 N DEFIANCE ST	10'x5', 22.5'x5', 18'x5', 23'x5'		
4	4941 N DEFIANCE ST	15'x5'		
5	1534 N JUNIPER ST	15'x5'		
6	1105 N NEWTON ST	6'x5'		
7	6006 N PARK AVE	6.6'x4.5', 8.5'x4.5'		Drain pipe under walk, reset water meter box in sidewalk
8	5920 N PARK WY	6'x5', 5'x5' on Visscher		
9	6106 N PARK WY	15'x6', 13'x6', 4'x5', on neighbor at 6110 N Park		Ramp sidewalk for 17'x5' on N Park Wy using
		Wy on N Park Wy		TripStop
10	901 N SHIRLEY ST	31'x5' on Shirley		
11	1438 N SHIRLEY ST	15'x5', 5.5'x5'		
12	1120 N VASSAULT ST	30'x5', 10'x5'	Driveway 16'x5'	Replace Driveway Entrance
13	2201 N VASSAULT ST	10'x5', 37'x5', private walk 2'x4.5', 3'x5' on	Driveway 11'x5'	Ramp sidewalk for 37'x5' using TripStop
		neighbor at 2107 N Vassault		
14	2713 N VASSAULT ST	25'x5'		Ramp sidewalk for 25'x5' using TripStop
15	2726 N VASSAULT ST	3'x5' on neighbor at 2720 N Vassault St, 15'x5',		Ramp sidewalk for 18'x5' and 14'x5' using
		5'x5', 14'x5'		TripStop
16	2732 N VASSAULT ST	5'x5', 18'x5'		Ramp sidewalk for 18'x5' using TripStop.
				Construct 1 Combination Curb Ramp and 2
				Type A Curb Ramps
17	2808 N VASSAULT ST	9'x5', 10'x5', 5'x5', 6'x5'		Ramp sidewalk for 10'x5' using TripStop
18	3412 N VASSAULT ST	21'x5'		
19	3418 N VASSAULT ST	8'x5', 8'x5' on neighbor at 6239 N 35th St		Ramp sidewalk for 16'x5' using TripStop
20	3333 N VILLARD ST	30'x5', 10'x5'		Ramp sidewalk for 30'x5' using TripStop
21	4820 N VISSCHER ST	5'x5', 37.5'x5', private walk 2.5'x2.5'		
22	5122 N VISSCHER ST	5'x5'		
23	1834 N WINNIFRED ST	15'x5', 5'x5', 5'x5'		
24	4823 6TH AVE	40'x6'		
25	4827 6TH AVE	42'x5', private walk 6.5'x2', 42'x2' planting strip		
		pavement		

### PW22-0141F SIDEWALK REPLACEMENT, WEST END Contractor List

Item No.	Location	Cement Concrete Sidewalk, 4 Inch Thickness	Cement Concrete Sidewalk 6 Inch Thickness	Additional Information
26	3620 N 12TH ST	l ' '	1	Ramp sidewalk for 20'x5' on 12th and Construct 4 Type B Curb Ramps
27	3908 N 30TH ST	27'x5', 10'x5'		
28	801 N PROCTOR ST	5'x5', 10'x5' on 8th	Driveway 5'x5' on 8th	Ramp sidewalk for 10'x5' on 8th
29	2410 N STEVENS ST	5'x5'		
30	1221 N WASHINGTON ST	50'x5' on Washington		Ramp sidewalk for 10'x5' on Washington



TripStop™ is a dynamic sidewalk joint system that eliminates trip hazards on concrete sidewalks due to sidewalk slab displacement from tree root invasion, soil movement or thermal expansion.

TripStop™ is the long-term solution for city sidewalk maintenance. It's a preventative strategy engineered to retain durability and shape throughout the lifespan while ensuring sidewalk integrity and protecting trees from root trimming. This environmental green product manufactured from Virgin PVC will not warp, rot, peel, blister or discolor by UV effects.

TripStop<sup>™</sup> moves dynamically with tree roots ensuring sidewalk integrity and protecting trees from the extreme step of root trimming.

### COMPLIANCE

Access® Products are in full compliance with ADA Accessibility Guidelines and state requirements. Access® Products is your one stop source for all sidewalk joint, tactile and emergency photolumenescent systems for internal and external applications while providing a complete range of products designed for safety, convenience and code compliance.

#### PRODUCT FEATURES

- Compact design and lightweight construction
- TripStop<sup>™</sup> joint allows sidewalk slabs to move uniformly with tree root growth, soil movement and thermal expansion
- All TripStop<sup>™</sup> products come as a complete product set, including TripStop Pegs and Wedges
- Exceptional performance in all weather conditions
- · Versatile and easy installation
- Customizable sizes
- TripStop™ preserves mature trees and benefits the environment
- · Maintenance free 10 year warranty



# TripStop™ prevents trip hazards from uneven sidewalks

### TripStop™ Creates Safer Sidewalks

Prevents trip hazards created from misaligned or isplaced pedestrian walkways. The ADA considers 1/4" to be the maximum allowable variance in walking surfaces.

### TripStop™ Saves Costs

Contractors save since it eliminates work involved with cutting control joints during the finishing process. Cities benefit from a 50% to 75% decrease in sidewalk life cycle costs and the elimination of yearly grinding or patching maintenance.

### TripStop™ Benefits the Environment

TripStop™ is an environmentally green product because it is recycleable and preserves urban trees. The service life of the sidewalk is extended, which means: less waste from construction activity and fewer greenhouse gas emissions from concrete production and service vehicles.

Part No.	Dimensions H x L	Galvanized Steel Pin Part No.	Galvanized Steel Pin Size & Quanity	Sidewalk Slab Dimensions H x L x W
TS4-4	4" X 48"	TSP4	10" X 3 PINS	4 X 48 X 48
TS4-5	4" X 60"	TSP4	10" X 4 PINS	4 X 60 X 60
TS5-4	5" X 48"	TSP5	12" X 3 PINS	5 X 48 X 48
TS5-5	5" X 60"	TSP5	12" X 4 PINS	5 X 60 X 60
TS5-10	5" X 120"	TSP5	12" X 8 PINS	5 X CUT TO FIT





Contact us for a quick quote or to obtain more information about our innovative solutions for sidewalk or path installation.

#### Access Products Inc.

241 Main Street, Suite 100 Buffalo, NY 14203 USA Phone: 888.679.4022 Fax: 877.679.4022 www.tripstop.us

www.tripstop.us

### ARTICULATING SIDEWALK JOINT SYSTEM

### Part 1 - General

### 1.01 SECTION INCLUDES

A. Supply and installation of articulating sidewalk joint system products.

### 1.02 RELATED REQUIREMENTS

A. Cast-in-place concrete	[Section 03 30 00]
B. Concrete finishing	[Section 03 35 00]
C. Concrete forming	[Section 03 11 00]
D. Concrete reinforcement	[Section 03 20 00]

### 1.03 REFERENCES

- A. Articulating sidewalk joint system to conform to:
  - 1. ASTM D1752-04a Standard Specification for Expansion Joint Fillers for Concrete Paving and Structural Construction.
  - 2. Americans with Disabilities Act (ADA) of 1990 and Architectural Barriers Act Accessibility Guidelines, as revised July 23, 2004.
  - 3. California Government Code Section 4459 C Accessibility Regulations for the California Building Standards Code.

### 1.04 PRE-INSTALLATION MEETINGS

A. Convene with related trades [one] week prior to commencing work of this Section [under provisions of] [Division 01-General Requirements] [Section 01 33 19.33].

### 1.05 SUBMITTALS

- A. Submit the following in accordance with [Section 01 33 00 Submittal Procedures]:
  - 1. Product Data: Joint system manufacturer's printed product literature for materials used in system.
  - 2. Shop Drawings: Provide drawings showing details, dimensions, extent of work, and other data necessary for the satisfactory installation of the products stated herein.
  - 3. Samples: 6" (150 mm) size for review and acceptance. Label samples with origin and intended use.
  - 4. Manufacturer's Instructions: Pre-printed material describing installation of product, system or material, including design considerations.

### 1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: minimum of 5 years manufacturing experience with similar material.
- B. Installer Qualifications: installers shall submit certification of being trained/authorized by manufacturer within 3 years.

### 1.07 DELIVERY, STORAGE AND HANDLING

- A. Handle and store products in a manner to prevent damage, adulteration, deterioration and soiling to products, and in accordance with manufacturer's instructions.
- B. Store packaged or bundled products off ground in original and undamaged containers and packaging with manufacturer's seals and labels intact. Do not remove from packaging or containers until required in the Work.
- C. Store products subject to damage from weather in weatherproof enclosures.

#### Part 2 - Products

### 2.01 MANUFACTURER

- A. This articulating sidewalk joint system specification is based on Tripstop<sup>™</sup> products being manufactured by Access Products Inc. 241 Main St., Suite 100, Buffalo, NY 14203 Tel: 888-679-4022; Fax: 877-679-4022; Email: info@accessproducts.com; Web: tripstop.us
- B. Substitution of products or materials not permitted unless manufacturers show proof that products have an equivalent range of physical properties and have been in successful service for a minimum period of 5 years.
- C. Accompany substitution requests with evidence substantiating equivalence in test data and in quality, including technical data sheet and formal 3-Part specification.

### 2.02 DESIGN CRITERIA

- A. Independent laboratory testing to verify the following when tested under conditions simulating tree root invasion, thermal expansion and/or soil heave, at up to 10 times the design load for sidewalk construction.
  - 1. Load Characteristics: Articulating expansion joint to satisfy ADA performance criteria of 1/4" (6.35 mm) maximum allowable stepping displacement (the difference between the vertical movements of adjoining slabs) when tested under various loading conditions.
  - 2. Creep Displacement: Maximum creep displacement (additional stepping displacement) to be negligible under sustained loading when recorded over a test period of six (6) weeks.
  - 3. Freeze/Thaw Characteristics: Maximum stepping displacement of 1.8" (45.7 mm) when tested under load at twice the design load for sidewalk construction at a temperature of -22°F (-30°C).

### 2.03 MATERIALS

A. Articulating sidewalk joint: TripStop S-series pre-engineered, patented, engineered polymer, grey color joint strips, [6" (150mm)] [5" (125 mm)] [4" (100 mm)] [3" (75mm)] height x length to suit width of sidewalk, and as per the following physical properties:

Typical Properties	Nominal Value	ASTM Test Method
Water Absorption	0.15%	D570
Tensile Modulus	350,000 psi	D638
Tensile Strength	6250 psi	D638
Flexural Strength	9800 psi	D790
Flexural Modulus	335,000 psi	D790
Notched Izod Impact	14.0 ft lb/in	D256A
Tear Resistance	350	D634
Specific Gravity	1.29	D792
Durometer Hardness D Scale (15 sec)	75	D2240
Elongation %	435	D638 Type IV
Brittle Point (tb) F	-37 (passed)	D746
Ozone Resistance	No Failure	D1149
Salt Spray	200 hours, no deterioration	ASTM B117-03

B. Steel installation pins: 1/4" (6.35 mm) diameter x [10" (250 mm)] [and] [12" (305 mm)] length as required, galvanized to ASTM A123/A123M-02.

### Part 3 - Execution

### 3.01 EXAMINATION

- A. Before installation, examine surfaces to which the Work of this Section depends. Notify [Contractor] if substrates do not comply with requirements of this Section.
- B. Do not proceed with Work of this Section until unsatisfactory conditions have been corrected.

C. Commencement of Work will imply acceptance of surfaces.

### 3.02 PREPARATION

A. Clean surfaces to remove grease, oil, frost or other matter that may affect bonding or installation of articulating sidewalk joint with concrete.

### 3.03 INSTALLATION

### A. General

- 1. Install articulating joint strips where shown on drawings.
- 2. Unless otherwise indicated in the specifications, install products in accordance with manufacturer's printed instructions.
- 3. Install joint strips at 90° to sidewalk without deviation of more than 3° to line of walkway.
- 4. Ensure joint strips run full depth and width of slab, and flush with finished top surface of concrete. A 1/4" (6.35 mm) clearance space at each end is permitted if desired for edge tooling.
- 5. Set top elevation of joint strips to act as a screed guide for achieving desired slab thickness.
- 6. In the event joint strips are located below the finished concrete surface, use edging tool to form arris or sharp edge detail between slabs.
- 7. Do not allow joint strips to be higher than the surface of the finished sidewalk under any circumstance.
- 8. Level sub-base using bottom of joint strips so that joint strips sit flat without gaps on underside.

### B. Steel installation pins:

- 1. Secure sidewalk joint strips using galvanized steel pins of size, number and spacing recommended by manufacturer.
- 2. Drive pins into ground using the factory pre-drilled holes in joint strips to hold strips plumb, level and at 90° plane to finished surface of sidewalk.

- 3. Ensure top of pins are left visible just slightly above holes on joint strips.
- C. Cutting articulating joint strips:
  - 1. Use only hand or power saws in accordance with manufacturer's written installation instructions. Do not use chain saw, hand-held portable saw or tool with blade used for ripping.
  - 2. Use appropriate full personal protective gear when cutting.
  - 3. Do not cut joint strips less than 4" (100 mm) length using power equipment.

### 3.04 FIELD QUALITY CONTROL

- A. Special Inspection Coordination:
  - 1. Notify [Engineer] upon completion of Work of this Section prior to placement of concrete for field inspection approval.

SPEC NOTE: In Cast-in-Place Section [03 30 00], specify concrete is to be placed without displacing expansion joint strips from their proper position and ensure maximum contact between joint strips and concrete. Use top surface of joint strips as screed guide to achieve desired slab thickness. Finish sidewalk surface according to accepted finishing procedures.

### 3.05 CLEANING

A. When the Work is Totally Performed, remove surplus products, tools and waste products and debris other than that caused by the Owner or other Contractors.

### 3.06 WASTE MANAGEMENT AND DISPOSAL

A. Separate waste materials for [reuse] [and] [recycling] at nearest used building materials facility.

### **END OF SECTION**

### **APPENDIX B**

### **CITY OF TACOMA**

### AND

### **WSDOT STANDARD PLANS**

\*\*\* Note: Standard plans and websites provided below are for contractor convenience. Additional standard plans may be required to construct the project. \*\*\*

COT Standard Plans Website:
https://www.cityoftacoma.org/government/city\_departments/public\_works/engine
ering/standard\_plans\_and\_g\_i\_s\_typical\_details

WSDOT Standard Plans Website: https://wsdot.wa.gov/engineering-standards/all-manuals-andstandards/standardplans

### 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 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 When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The height of the CONCRETE TRAFFIC CURB INTEGRAL CEMENT APPROVED FOR PUBLICATION 1" R VAR. DEPTH CONCRETE **PAVEMENT** ASPHALT 51/2" CEMENT CONCRETE CURB & GUTTER % R For trench crossings, curb and gutter shall be removed to a minimum 2' cut back over undisturbed soil. TYPE "C" MOUNTABLE CONCRETE CEMENT **PAVEMENT** X В CITY ENGINEER 1/2" R 12 Flush with gutter pan at curb ramp entrance or % vertical lip at driveway entrance. All joints shall be saw cut full depth prior to restoration and 38" expansion joint installed. CURB 12" R Unsuitable foundation shall be replaced with 3/8" crushed surfacing top course. CEMENT CONCRETE TRAFFIC **CURB & GUTTER** 1 R 1/2" R Foundations shall be fully compacted prior to form placement. 3/4" 1, 6,, curb shall be 6", unless otherwise shown on plans. TACOMA WATER ENVIRONMENTAL GMS SERVICES 5-04.3(5)C for asphalt concrete surfaces. 61/2" CEMENT CONCRETE **VALLEY GUTTER** Concrete finish shall match existing. Ω 12 12" K **REVIEWED BY** 24" 12 TACOMA POWER PUBLIC WORKS NOTES NOTES X B 2, 8, 4, 73 9 7

PAVEMENT VAR. DEPTH CONCRET ASPHALT

34 " MIN. OR AS DIRECTED BY

ENGINEER ĸ

d

B

12" 1"R CEMENT CONCRETE CURB & GUTTER

TYPE "D" MOUNTABLE

**SU-03** 

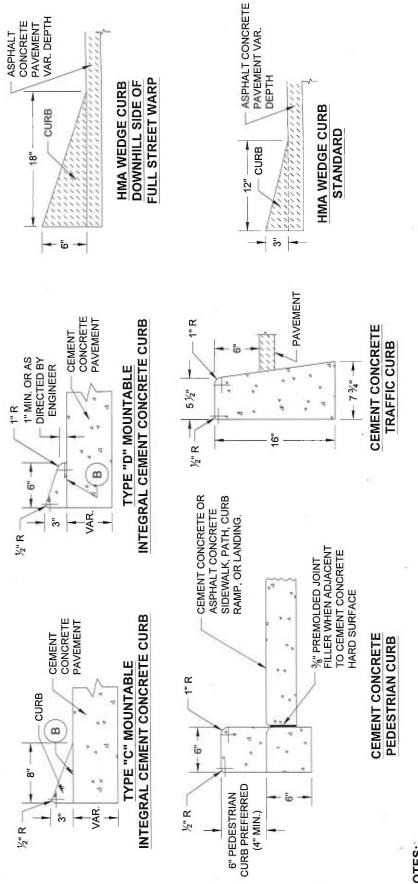
STANDARD PLAN NO.

CEMENT CONCRETE **CURB AND GUTTER** 

CITY OF TACOMA

### NOTE:

Flush with gutter pan at curb ramp entrance or %" vertical lip at driveway entrance. B



## NOTES:

- 1. 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. 4.
- 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. 5
- Foundations shall be fully compacted prior to form placement. Ö.

7. Unsuitable foundation shall be replaced with 5/8" crushed surfacing top course.

ENVIRONMENTAL SERVICES REVIEWED BY PUBLIC WORKS DCS

TACOMA POWER

NA

TACOMA WATER

8/16/16 DATE CITY ENGINEER

APPROVED FOR PUBLICATION

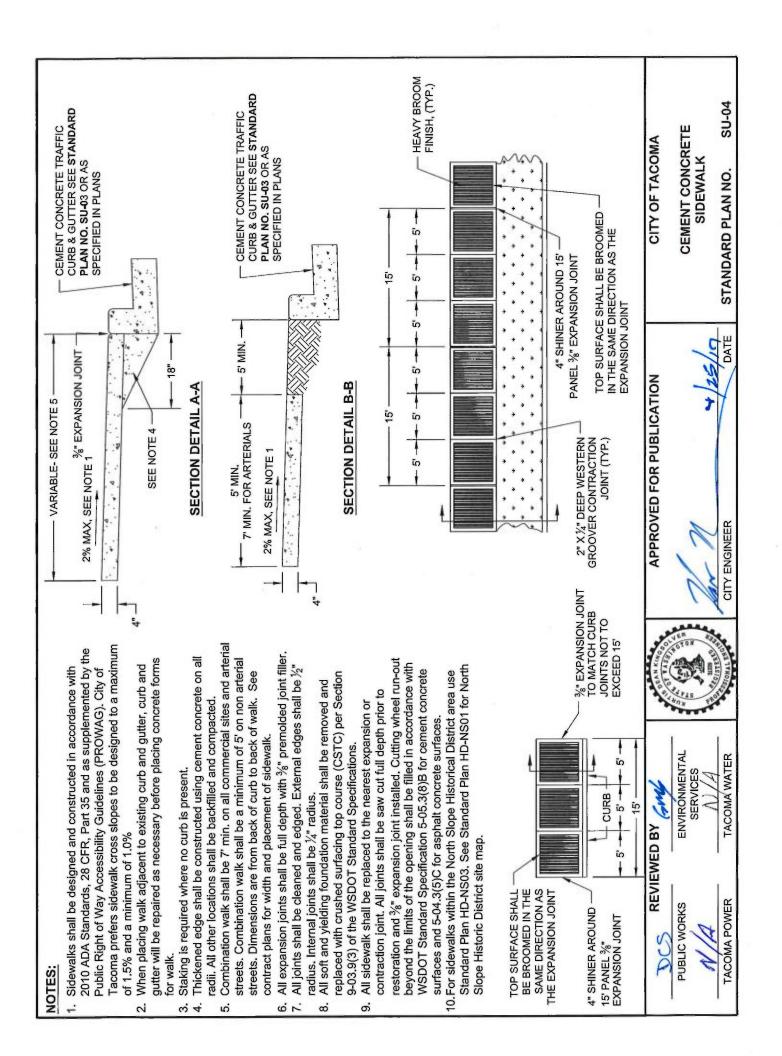
ASPHALT WEDGE CURB

**CURB AND GUTTER AND** 

CEMENT CONCRETE

CITY OF TACOMA

**SU-03A** STANDARD PLAN NO.



## GENERAL NOTES:

- the Contract Plans. The curb ramp centerline shall be parallel to the direction of the crossing. Forty-five (45) degree curb over 45 degree ramps. Curb ramp location shall be placed within the width of the associated crosswalk, or as shown on Provide a separate directional curb ramp for each marked or unmarked crosswalk. Directional curb ramps are preferred amps shall be installed only after approval by the City's ADA Coordinator or the Street Operations Division Manager.
- be flush and perpendicular to the direction of travel. There shall be no vertical discontinuity between the base of curb ramp Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall ri
- Do not place grates, junction boxes, access covers, or other appurtenances in front of the curb ramp or on any part of the curb ramp or turning space. Placement on or in front of ramp flares is allowed. 3
  - See Contract Plans for the curb design specified. See Standard Plan SU-03 and SU-03A for Curb, and Curb and Gutter

4

- A thickened edge shall be constructed to full depth of adjacent curb along entire curb radius.
- For sidewalk and curb ramps within the North Slope Historical District area see North Slope Historic District Site Map, HD-NS01. Apply Lamp Black 1lb. per cubic yard of cement concrete or as required for discoloration in accordance with ASTM D209-81 Standard Specifications for Lamp Black pigment 6 5
  - The running slope of a curb ramp shall not exceed 8.3% but does not require the ramp length to exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep grades.
    - Curb ramp, turning space and flares shall receive a broom finish, see WSDOT Standard Specifications 8-14.
- Return curbs, (pedestrian curbs), may only be used with landscaping or railing. Return curbs, (pedestrian curbs), shall not be used to prevent pedestrians from crossing streets. ω. 6
- Engineer's note on the stamped drawings. Rationale supporting the design variance shall be provided by the Engineer and All curb ramp designs shall be stamped by a Washington State licensed Professional Engineer. If meeting the current design standards is not possible, curb ramps shall be constructed to the maximum extent feasible as indicated by an shall include a description of the scope of work, the site-specific factors affecting compliance, and the measures implemented to improve compliance. 10.
  - Pedestrian traffic should be aligned to the receiving curb ramp. The existing curb ramps shall be evaluated using criteria in the City's Curb Ramp Installation Matrix.
    - Consult the City's Curb Ramp Installation Matrix and the Right Of Way Restoration Policy for additional requirements. 5, 6,
- ntersections where signalization is anticipated within the next 6 years. Coordinate with Public Works Engineering, Traffic Conduit for APS equipment shall be installed during curb ramp construction at all signalized intersections and at
- A Pedestrian Accessibility Control Plan shall be developed in conjunction with each project-specific Temporary Traffic Control Plan for all work in the ROW. 4
  - Pedestrian traffic shall NOT be directed behind the stop bar.
- Curb ramp alignment should be consistent with crosswalk alignment
- Curb ramp shall be 5' minimum in width.
- Catch basins shall be located upstream of curb ramps outside of flare/wing for new construction or when performing storm sewer upgrades. 15. 15. 18.
  - For constructability purposes, the City recommends designing to less than the maximum allowable slopes.

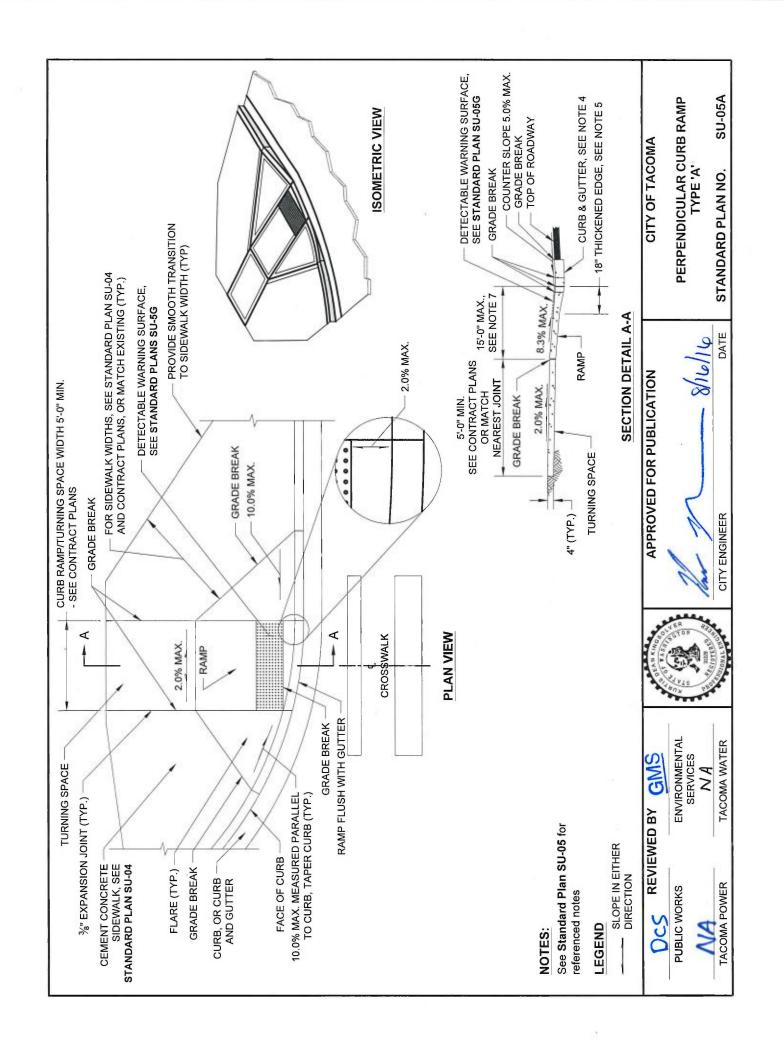
ENVIRONMENTAL TACOMA WATER GMS SERVICES REVIEWED BY TACOMA POWER PUBLIC WORKS

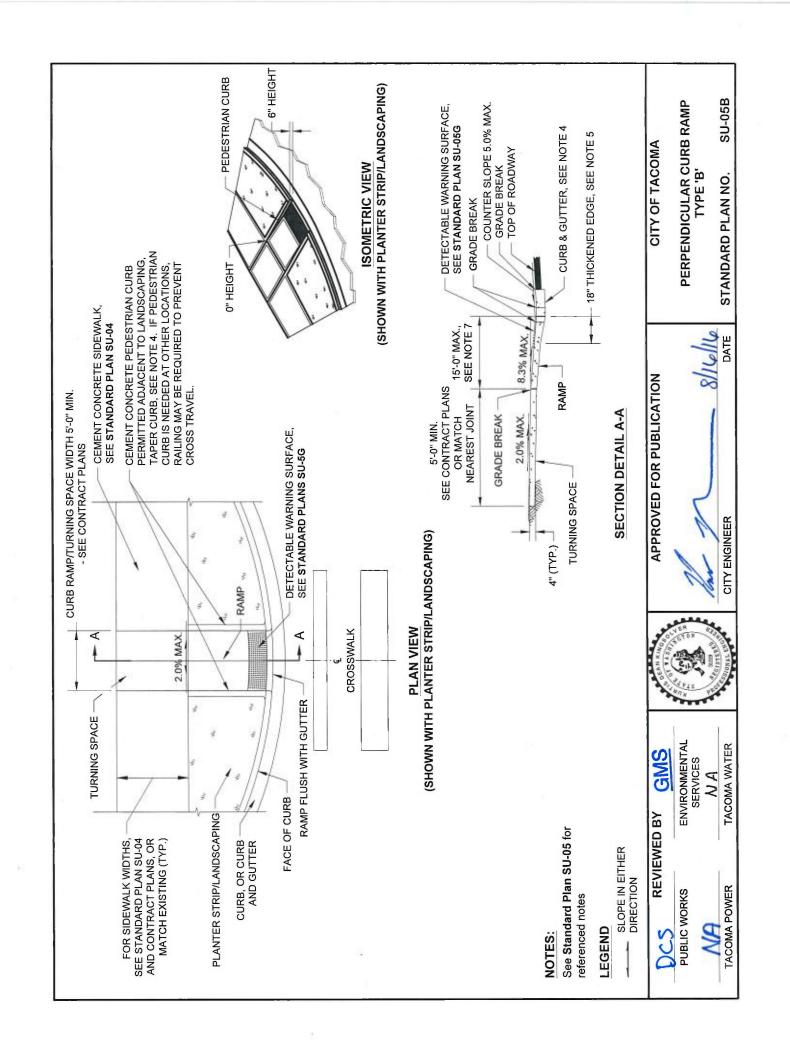
CITY ENGINEER

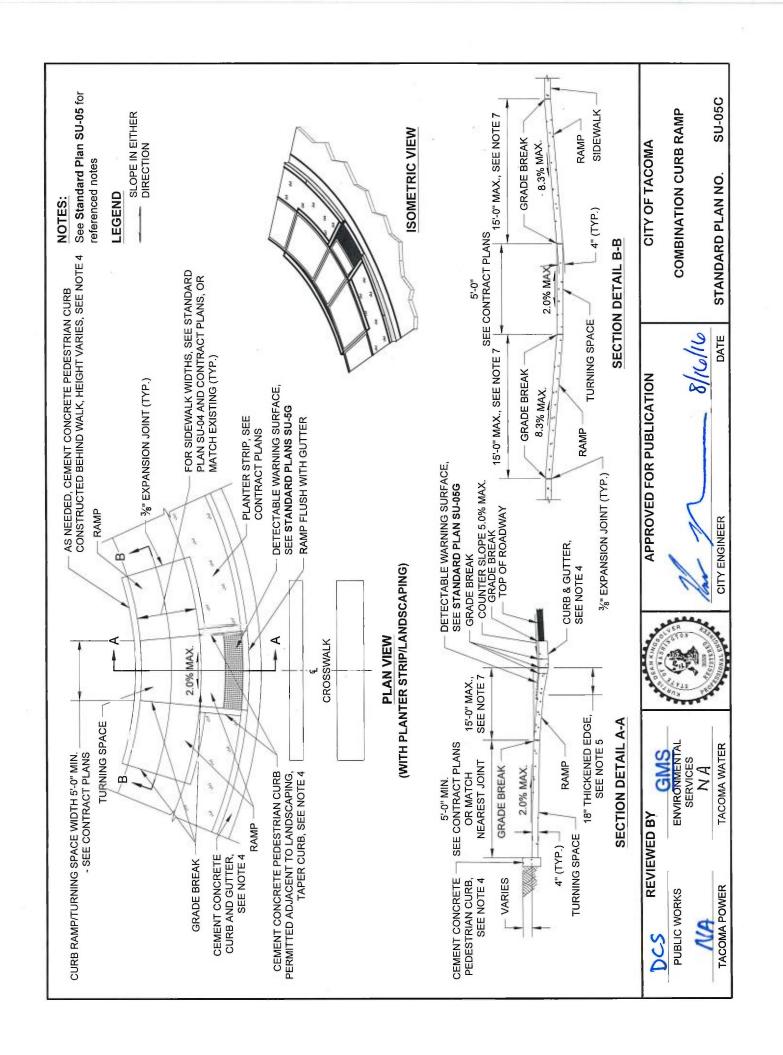
APPROVED FOR PUBLICATION

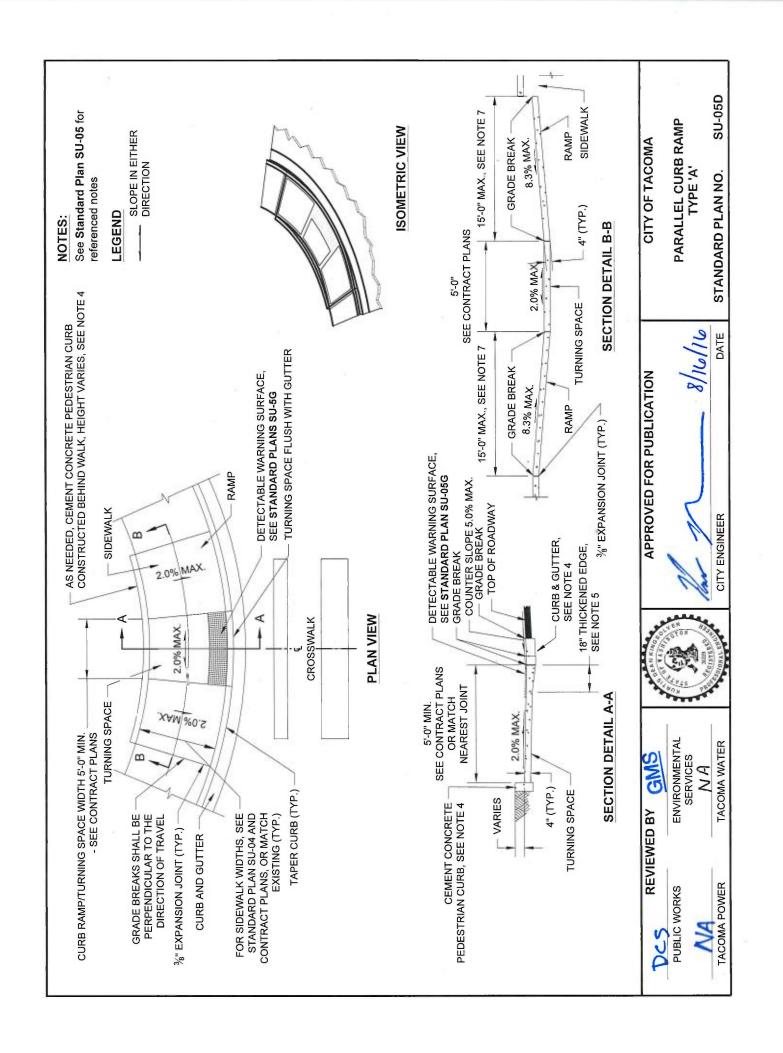
GENERAL INFORMATION **CURB RAMP DETAILS** CITY OF TACOMA

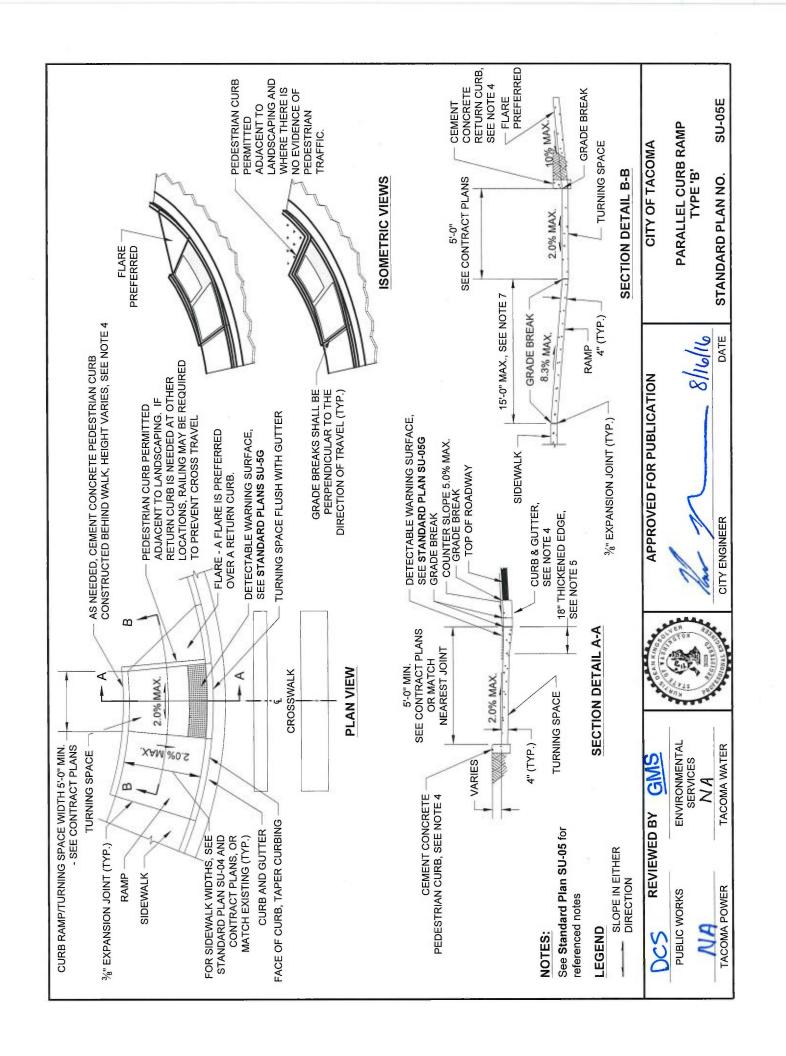
STANDARD PLAN NO.

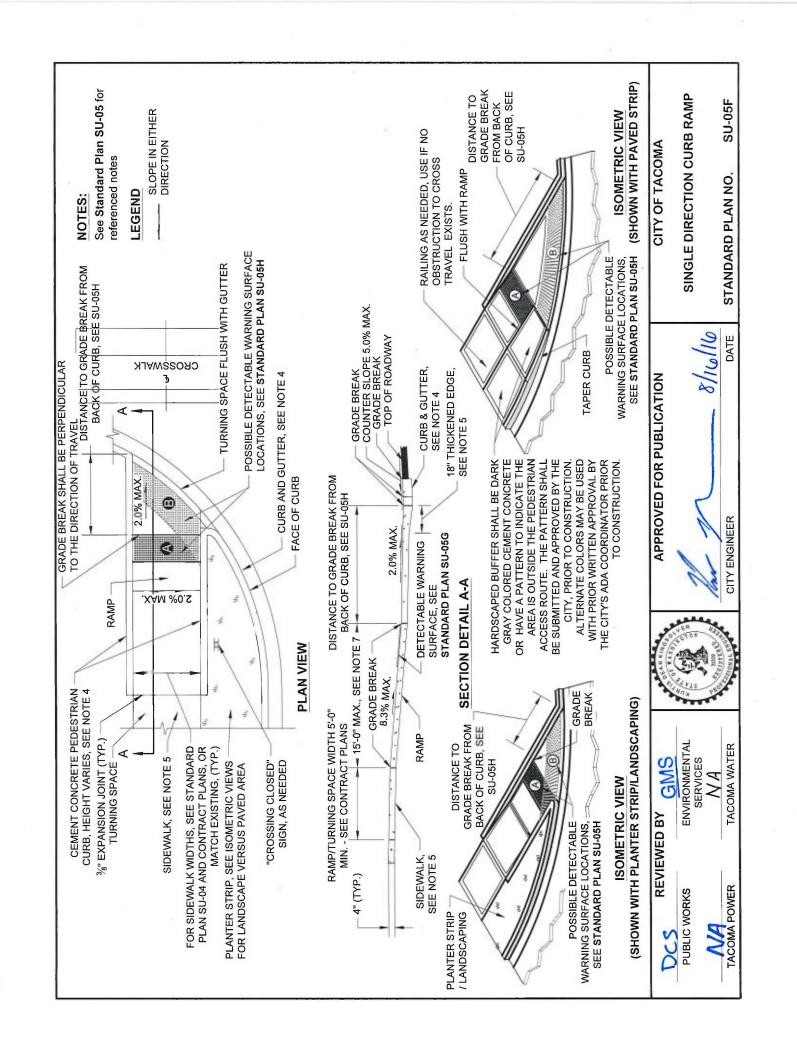










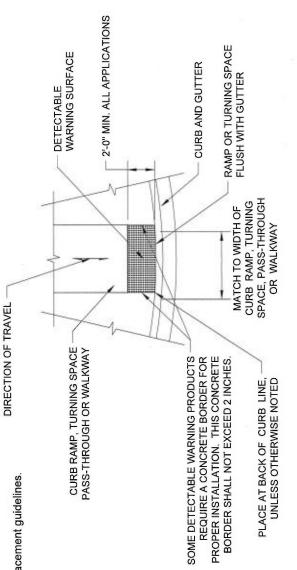


#### NOTES

- The Detectable Warning Surface shall extend the full width of the curb ramp (exclusive of flares) or the turning area.
- The rows of truncated domes in a Detectable Warning Surface shall be parallel with ď
  - See Standard Plans SU-04 through SU-05F for sidewalk and curb ramp details. the direction of wheelchair travel.
- If a curb is not present, place the Detectable Warning Surface at the edge of the pavement. ω 4·
- The Detectable Warning Pattern shall be installed using Vanguard ADA Systems, ADA Solutions, or Armor-Tile "Cast in Place Systems," manufactured by Engineering Plastics Inc., or approved equal. Concrete shall be blocked out as required for the installation of the Detectable Warning Pattern material. 5
- The Detectable Warning Pattern area shall be yellow and shall match the color of Federal Standard 595a, color number 33538. Ö.
- See Standard Plan SU-05H for Detectable Warning Surface placement guidelines.

+ V +

В



# DETECTABLE WARNING SURFACE DETAIL

MIN. MAX. A 1.60"2.40" B 0.65" -C 0.45"0.90" D .90 1.40" E 0.20"0.20"

1

TRUNCATED DOME DETAILS

TRUNCATED DOME SPACING

B



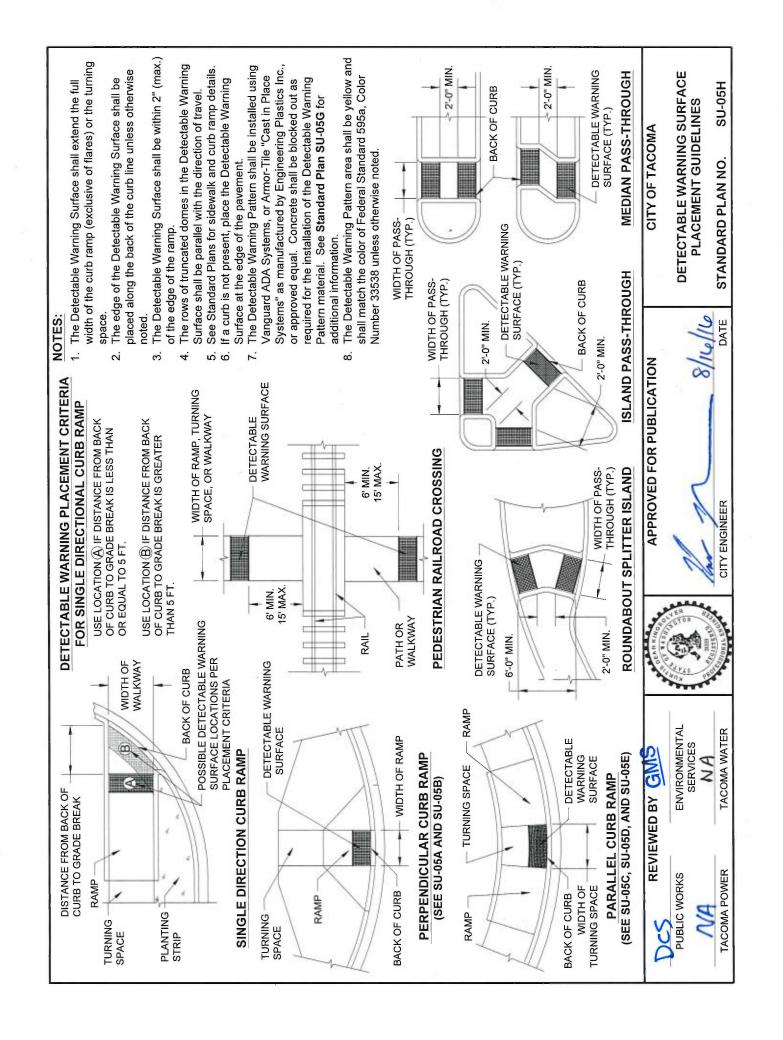




CITY ENGINEER

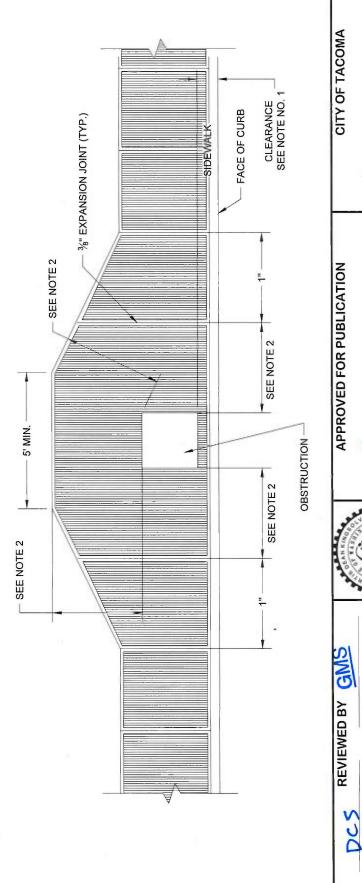
DETECTABLE WARNING SURFACE CITY OF TACOMA DETAILS

SU-05G STANDARD PLAN NO.



### 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.
  - Sidewalk cafes, artwork, poles, ramps, etc., may not reduce the width of the sidewalk to less than 5' for residential streets and 7' for arterial streets and commercial areas, excluding the curb width. ri
    - All obstructions shall meet requirements for cane detection. See City of Tacoma Design Manual Chapter 12.
    - The following criteria shall only be used in rare circumstance when an obstruction cannot be relocated and does not allow the minimum required sidewalk width: ω<sub>4</sub>
- description of the scope of work, the site-specific factors affecting compliance, and the measures implemented to a) If the sidewalk is new or replacement construction and the sidewalk cannot meet the minimum clearance requirements due to an existing obstruction then a maximum extent feasible (MEF) is required and shall be included in the Plans. Rational supporting the MEF shall be provided by the Engineer and shall include a improve compliance.
  - b) When placing a new obstruction in an existing sidewalk and the minimum clearance requirements cannot be
    - met, a variance shall be submitted and approved by the City's Traffic Section prior to construction. See Tacoma's Design Manual Chapter 8, Pedestrian Facilities, for additional information on Pedestrian Access Routes (PARs). 5

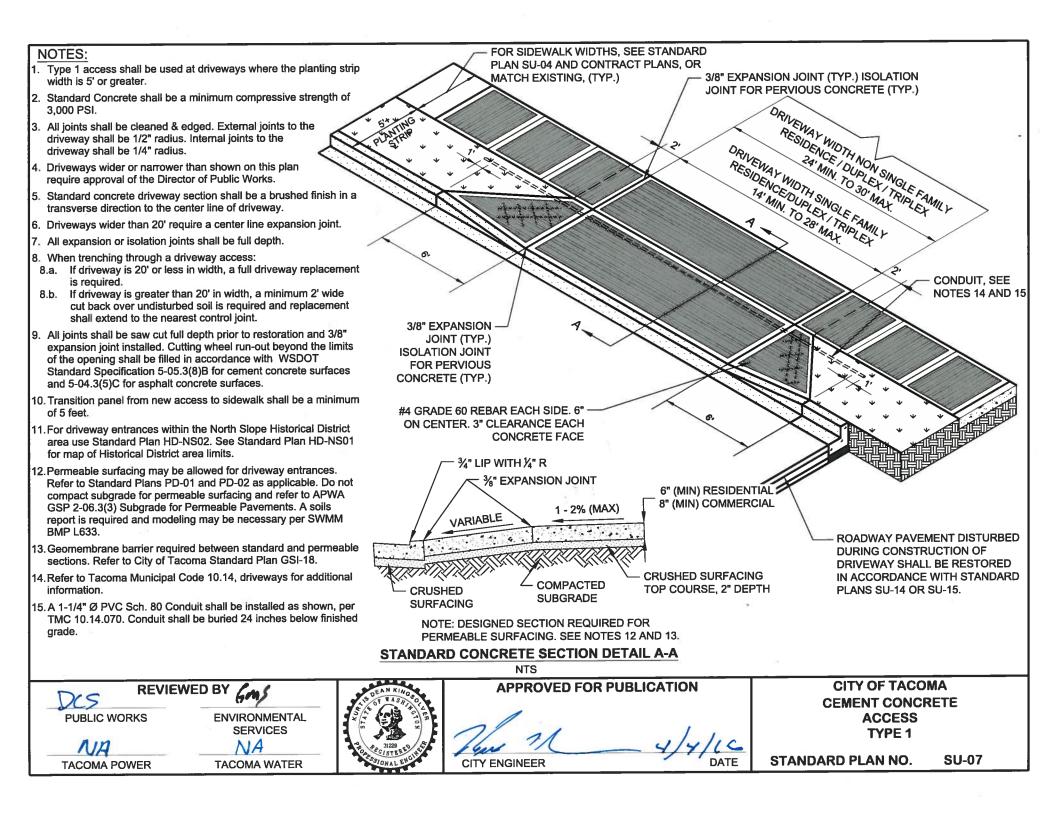


ENVIRONMENTAL SERVICES TACOMA WATER NA TACOMA POWER PUBLIC WORKS

CITY ENGINEER

AND OBSTRUCTION GUIDELINES SIDEWALK CLEAR WIDTHS

STANDARD PLAN NO.



#### NOTES:

- 1. Use the following as a guide of when each Entrance or Access Type should be used:
- 1.a. Cement Concrete Driveway Entrances Type 1 (Entrances) or Accesses Type 1 (Accesses) shall be used at driveways where the planting strip width is 5' or greater.
- 1.b. Cement Concrete Driveway Entrances Type 2 (Entrances) or Access Type 2 (Accesses) shall be used at driveways and alleys where the planting strip is less than 5' wide.
- 1.c. Cement Concrete Driveway Entrance Type 3 (Entrances) or Accesses Type 3 (Accesses) shall be used at alleys where the planting strip is 5' wide or greater.
- Standard Concrete shall be a minimum compressive strength of 3,000 PSI.
- Concrete Joints:
- 3.a. All joints shall be cleaned & edged.
- 3.b. All expansion or isolation joints shall be full depth.
- 3.c. External joints to the driveway shall be 1/2" radius. Internal joints to the driveway shall be 1/4" radius.
- 3.d. 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.
- Entrances and Accesses wider or narrower than shown on this plan require approval of the Director of Public Works.
- Entrances and Accesses shall have a brushed finish in a transverse direction to the center line of Entrance or Access.
- Entrances or Accesses wider than 20' require a center line expansion joint.
- 7. When trenching through an Entrance or Access:
- 7.a. If Entrance or Access is 20' or less in width, full replacement is required.
- 7.b. If Entrance or Access 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.
- Transition panel from new Entrance or Access to sidewalk shall be a minimum of 5 feet.
- For Entrances or Accesses within the North Slope Historical District area use Standard Plan HD-NS02. See Standard Plan HD-NS01 for map of Historical District area limits.

- 10. Permeable surfacing may be allowed for Entrances or Accesses. 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.
- 11. Geomembrane barrier required between standard and permeable sections. Refer to City of Tacoma Standard Plan GSI-18.
- 12. Refer to Tacoma Municipal Code 10.14, driveways for additional information.
- 13. A 2" Ø PVC Sch. 80 Pipe with capped ends shall be installed as shown, per TMC 10.14.070. Pipe shall be buried 24 inches below finished grade and have a pull string and location wire per WSDOT 9-29.3(2)A4.
- 14. Detectable Warning Surface shall be placed at alleys if the ADT is greater than 700, in the downtown area, located near a high pedestrian volume area, or where there are sight distance concerns. The detectable warning pattern, if needed, shall be placed the full width of the sidewalk in accordance with City of Tacoma Standard Plan SU-05A.
- 15. When an existing entrance or access does not meet current ADA standards as defined by the City of Tacoma's Design Manual, the entire entrance or access shall be replaced to current ADA standards.

**REVIEWED BY** 

PUBLIC WORKS

**ENVIRONMENTAL** SERVICES NA

TACOMA POWER

TACOMA WATER



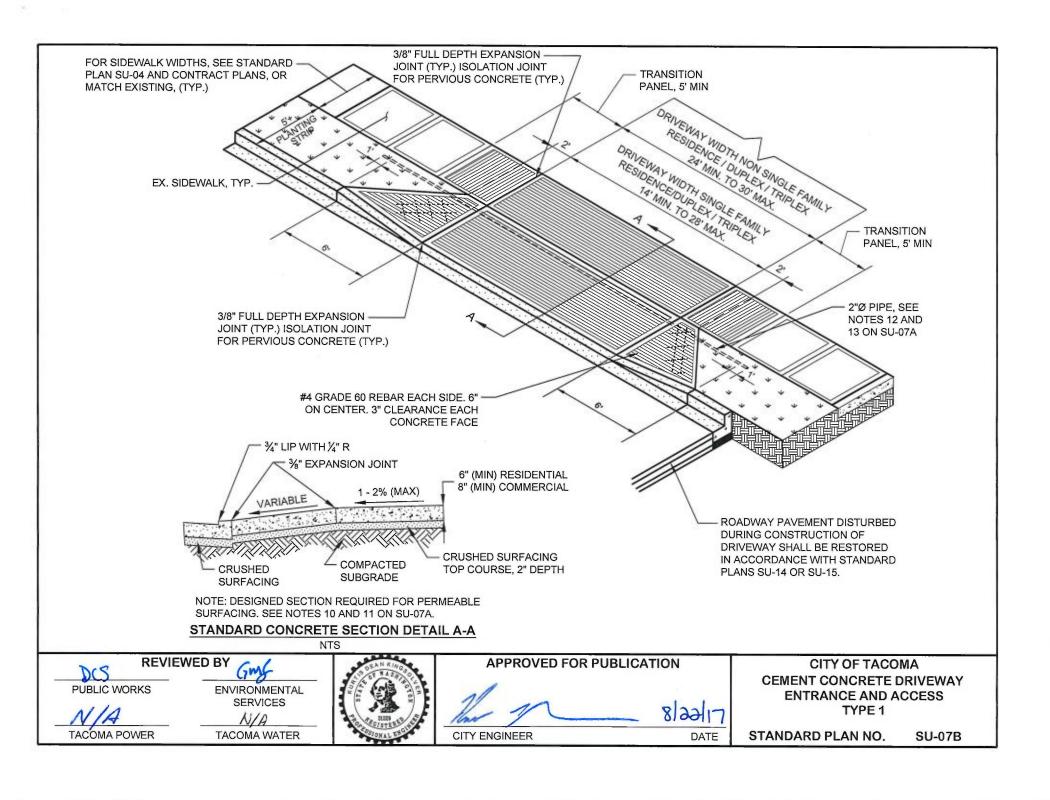
APPROVED FOR PUBLICATION

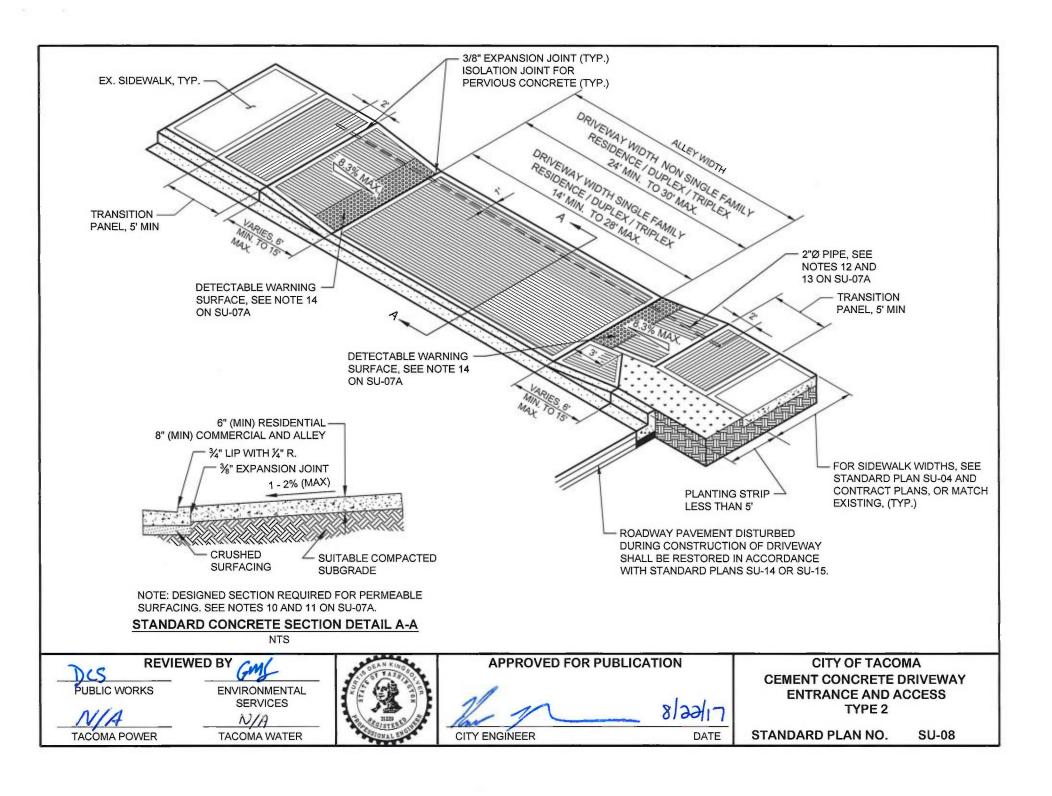
8/22/17 CITY ENGINEER

CITY OF TACOMA CEMENT CONCRETE DRIVEWAY **ENTRANCE AND ACCESS** TYPE 1

STANDARD PLAN NO.

SU-07A





#### **NOTES**

- 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:

<u>Arterials, industrial areas and/or roads with bus traffic:</u> 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.

- All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
- 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.

<u>Isolated patches</u>: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.

<u>Trench patches</u>: 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.

 Longitudinal construction joints shall only be located at the center or edge of affected lanes.

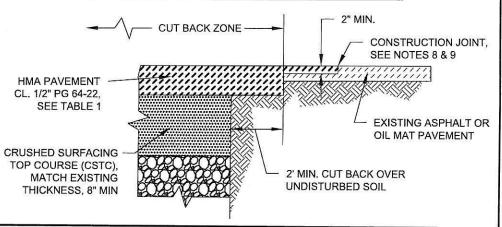
Streets and courts 20 feet or less in width and all alleys are considered one-lane streets. Non-arterial streets and courts greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.

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.

TARIF 1

	PLACEMENT DEPTH BACK ZONE	l
	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"



APPROVED FOR PUBLICATION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

CIDY ENGINEER PRINCE

12 Jun 2009

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).

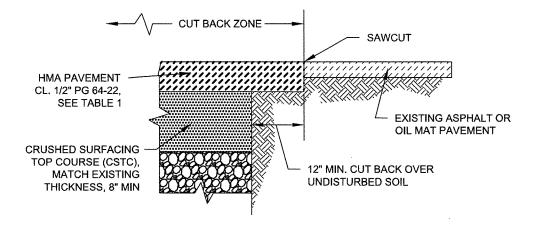
Residentials and alleys: Temporary patches shall be compacted and leveled to a minimum of 2-inches of either HMA or cold-mix asphalt. Temporary patches between October 1st and March 31st shall be made with HMA unless otherwise approved.

- All permanent final patches shall be rectangular in shape and constructed parallel and perpendicular to the road centerline.
- 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.
- HMA pavement shall not be placed over CDF until approved by the City.
- If remaining pavement adjacent to the patch is less than 3' wide, remove and replace with asphalt concrete pavement to match existing (minimum 2").

CITY ENGINEER

TABLE 1

1	PLACEMENT DEPT BACK ZONE	Н
	MIN.	MAX.
	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

· Beily los 7/17/0

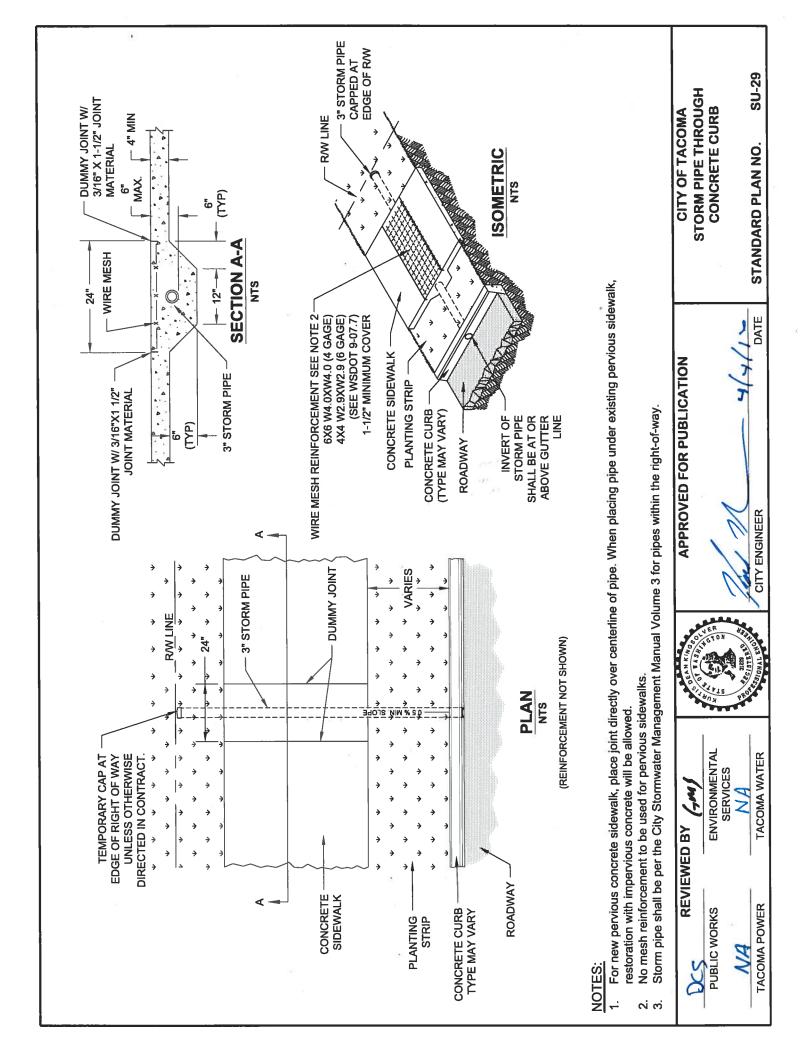
DATE

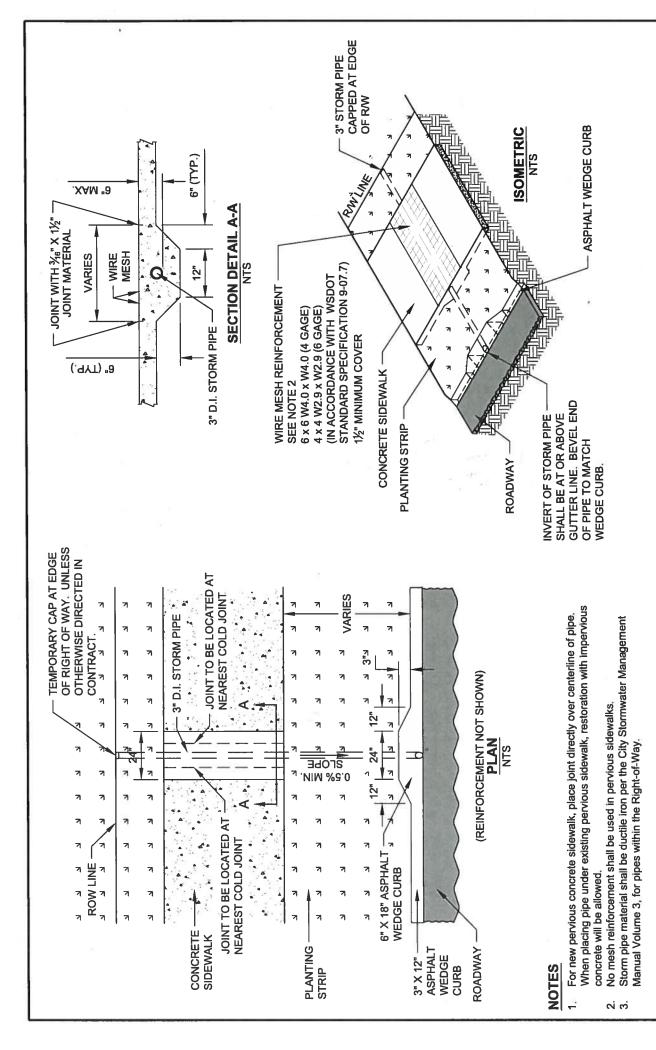
APPROVED FOR PUBLICATION

TYPICAL PAVEMENT RESTORATION FOR ASPHALT CONCRETE/OIL MAT PAVEMENT

STANDARD PLAN NO.

SU-15B





ASPHALT WEDGE CURB STORM PIPE THROUGH CITY OF TACOMA CONNECTION

CITY ENGINEER

ENVIRONMENTAL

PUBLIC WORKS

**REVIEWED BY** 

SERVICES

X

TACOMA WATER

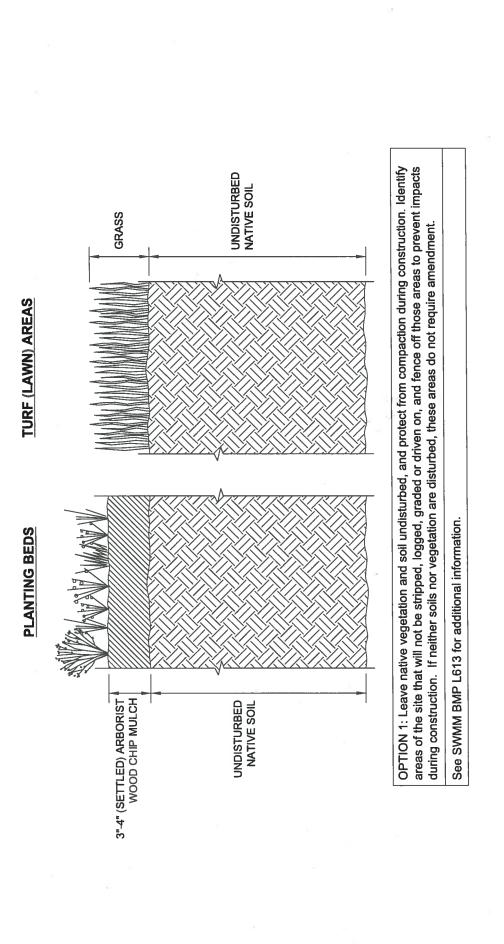
TACOMA POWER

NA

APPROVED FOR PUBLICATION

STANDARD PLAN NO.

**SU-29A** 



CITY OF TACOMA
BMP L613 POST-CONSTRUCTION
SOIL QUALITY AND DEPTH
OPTION 1 - NO DISTURBANCE

APPROVED FOR PUBLICATION

STANDARD PLAN NO.

CITY ENGINEER

ENVIRONMENTAL SERVICES

PUBLIC WORKS

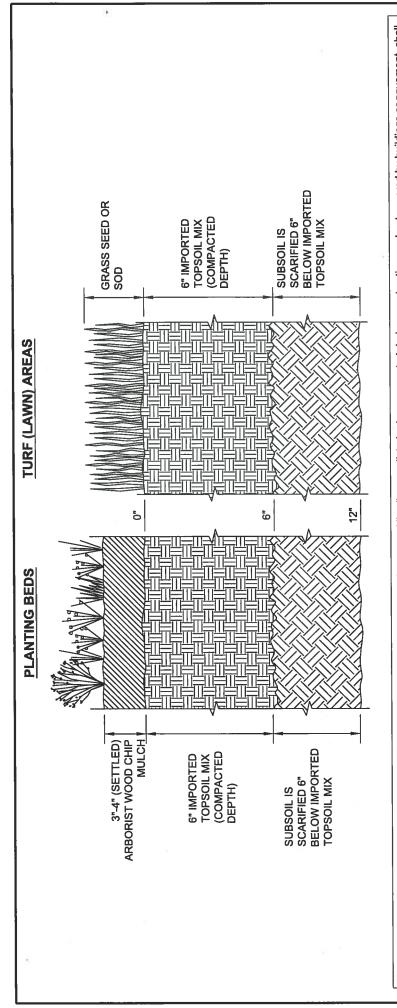
**REVIEWED BY** 

TACOMA WATER

TACOMA POWER

X

GSI-01a



OPTION 4: Import topsoil mix of sufficient organic content and depth to meet the requirements. All soil areas disturbed or compacted during construction, and not covered by buildings or pavement, shall be restored as described below.

Scarification: scarify or till subgrade in two direction to 6 inches depth. Entire surface shall be disturbed by scarification. Do not scarify within drip line of existing trees to be retained.

oil portion must

surface and

se rocks larger

	A. Planting Beds	B. Turf (Lawn) Areas
	Use imported topsoil mix containing 10% organic matter (typically around 40% compost). Soil portion must be sand or sandy loam as defined by the USDA. Place 3 inches of soil. Place 3 inches of soil. Place second lift of 3 inches topsoil mix on surface and till into 2 inches of soil. Place second lift of 3 inches topsoil mix on surface.	Use imported topsoil mix containing 5% organic matter (typically around 25% compost). Soil be sand or sandy loam as defined by the USDA. Place 3 inches of imported topsoil mix on still into 2 inches of soil. Place second lift of 3 inches topsoil mix on surface.
	Rake beds to smooth and remove surface rocks larger than 2 inches diameter. Mulch planting beds with 3" - 4" of organic mulch or stockpiled duff.	Water or roll to compact to 85% of maximum dry density. Rake to level and remove surface than 1 inch diameter.
-		

Setbacks: to prevent uneven settling, do not compost-amend soils within 3 feet on center of utility infrastructure (poles, vaults, meters etc.). Within, one foot of pavement edge, curbs and sidewalks; soil should be compacted to approximately 90% max. modified proctor density (ASTM D1557) to ensure a firm surface. Do not compact within tree protection zone. See Std. Plans LS-08 and LS-09.

See SWMM BMP L613 for additional information.



TACOMA WATER

APPROVED FOR PUBLICATION CITY ENGINEER

**BMP L613 POST CONSTRUCTION SOIL GSI-01d OPTION 4 - IMPORTED TOPSOIL QUALITY AND DEPTH** CITY OF TACOMA STANDARD PLAN NO. U

#### 24" В ELEVATION **ZONE C ZONE A ZONE B** G,

# **ZONE A (CRITICAL ROOT ZONE)**

inch dbh tree, the Critical Root Zone is located at measuring 1 foot of radius per 1 inch of diameter The Critical Root Zone is the area under a tree at breast height (DBH) from the trunk outwards and 24 inches in depth. For example: for a 10 least 10 feet out from the trunk and 24 inches

## RESTRICTIONS

- site-specific inspection and approval of methods to minimize root damage. No disturbance allowed without
- encountered, inspection and approval is If roots larger than 2" IN DIA. are required before proceeding trenching/excavation work. 'n
- Tunneling is required to install lines 3'-0" below grade or deeper. က်

# **ZONE C (FEEDER ROOT ZONE)**

example: for a ten inch diameter tree, The Critical measuring 2 feet of radius per 1 inch of DBH from Root Zone is located at least 20 feet out from the he trunk outwards and 24 inches in depth. For The Feeder Root Zone is the area under a tree trunk and 24 inches deep.

## RESTRICTIONS

- approval. \*Surface protection measures 1. Operation of heavy equipment and/or stockpiling of materials subject to
- -excavation by hand or WITH hand-driven -Maintain 2/3 or more of ZONE C in an -Minimize trench width to the extent Trenching permitted as follows: trencher maybe required undisturbed condition possible ر ز

PLAN

APPROVED FOR PUBLICATION

# **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

- approval. \*Surface protection measures 1. Operation of heavy equipment and/or stockpiling of materials subject to required
- hand-driven trencher may be required -Minimize trench width to the extent Trenching permitted as follows: -Excavation by hand or with a ci
- -No disturbance permitted within ZONE A Maintain 2/3 or more of zone b in an undisturbed condition possible
  - Tunneling may be required for trenches deeper than 3'-0" က်

# \*SURFACE PROTECTION MEASURES

- 4" wood chip mulch layer under 3/4" plywood; or Wood chip mulch layer, 6"-12" depth; or
  - 4" gravel over staked geotextile fabric
- 4" wood chip mulch layer under logging road mats 4" wood chip mulch layer under steel plates; 6. 4. 3.

### **DURING CONSTRUCTION** TREE PROTECTION

STANDARD PLAN NO.

ENGINEER **DEPARTMENT OF PUBLIC WORKS** 

CITY OF TACOMA

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

- 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.
- Fencing shall be secured 6 foot metal posts with movable footings located above ground. metal posts shall not be more than 10 feet apart.
- Fencing shall be flush with the initial undisturbed grade.
- 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.

4

- Maintain the fencing in place until the city authorizes removal or a final certificate of occupancy is issued, whichever occurs first.
- Ensure that any landscaping done in the TPZ, subsequent to the removal of the fencing, shall be accomplished with light machinery or hand labor.

ö

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

7

ROOT ZONE **DRIP LINE** CRITICAL 1' RADIUS PER 1" DBH OR LESS 10'-0" SPACING ABOVE GRADE FOOTING POST ..0-.9

APPROVED FOR PUBLICATION

TREE PROTECTION DURING CONSTRUCTION

STANDARD PLAN NO.

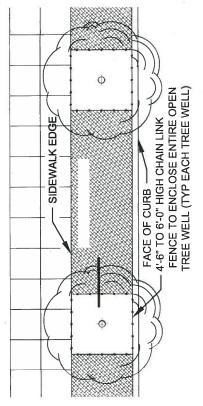
ت

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

FNGINEES

#### NOTES:

- Tree protection requirements included in this standard detail are for trees which are directly adjacent to paved surfaces which will be retained through construction.
- Required protection measures for trees other than those in tree wells and planting strips are contained in the TYPICAL TREE PROTECTION FENCING STANDARD PLAN NO. LS-09.
- Reusable temporary tree and landscape protection fencing can be substituted for chain link fencing in tree wells and planting strips (SEE REUSABLE TREE PROTECTION FENCING FOR PAVED AREAS STANDARD PLAN NO. 1.S-11)
- Consider traffic turning visibility and pedestrian visibility when selecting fence height; typically shorter fencing around tree pits between sidewalk and roadway is desired.

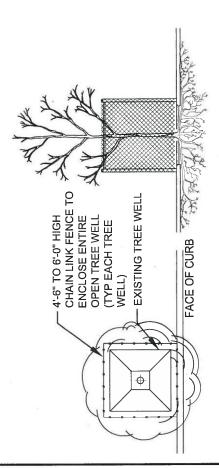


TREE IN PLANTING STRIP-OPTION 1

SIDEWALK EDGE,

PLANTING STRIP

φ



FACE OF CURB

4'-6" TO 6'-0" HIGH CHAIN
LINK FENCE PROTECTS ENTIRE
PLANTING STRIP

TREE IN PLANTING STRIP-OPTION 2

## TREE IN TREE WELL

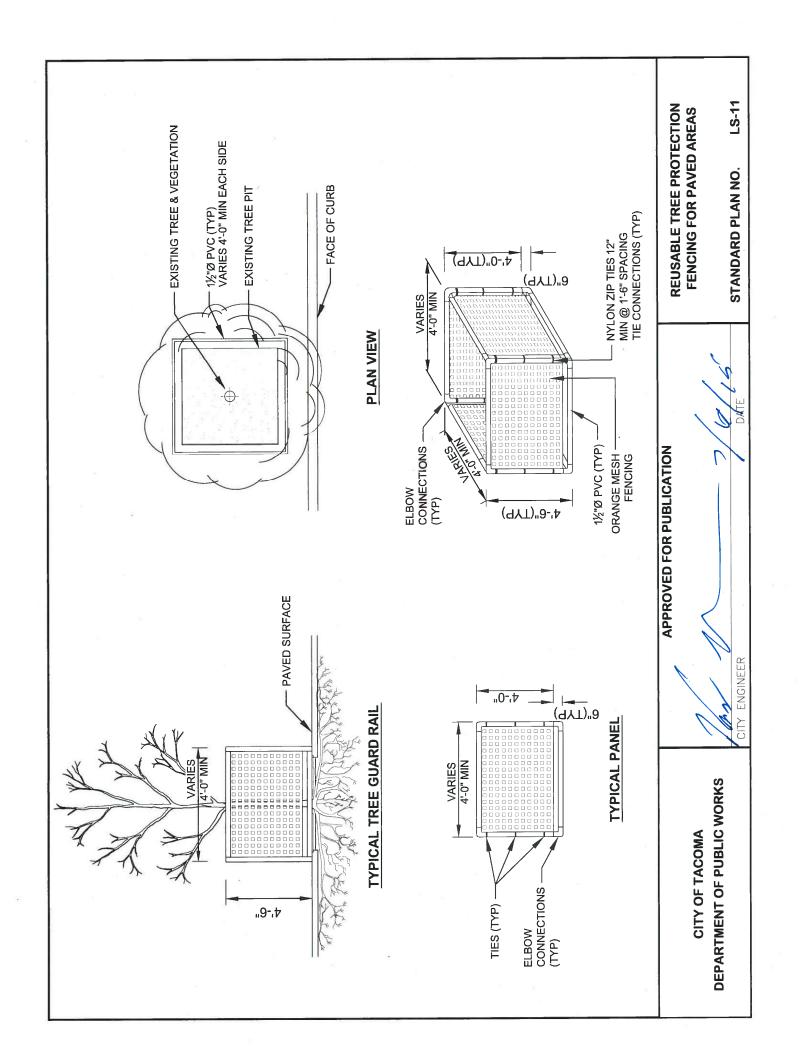
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

TREE PROTECTION FENCING FOR TREES IN PAVED AREAS

STANDARD PLAN NO.

LS-10



#### **APPENDIX C**

## COMBINED STORMWATER SITE PLAN AND CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN REPORT

#### City Combined Stormwater Site Plan (SSP) and Construction Stormwater Pollution Prevention Plan Report – Street Operations Projects

Sidewalk Replacement, West End Area

#### **Prepared For**

City of Tacoma Public Works

#### **Project Location**

Various locations throughout North Tacoma – all north of 6th Avenue.

#### Stormwater Site Plan Prepared By

Name	Department	Contact Telephone Number	Email Address
Mieke Hoppin	Environmental Services	253-502-2105	mhoppin@cityoftacoma.org

Date Prepared: 04/29/2022

#### 1. Project Information

#### A. Project Contacts

See Title Page for Stormwater Site Plan Development Team

#### B. Project Manager

Name	Organization	Mailing Address	Contact Telephone Number	Email Address
Sandra Guffey	Public Works	NA	253-591-5270	sguffey@cityoftacoma.org

#### C. Associated Permits

i) Associated Federal, State, or Local Associated Permit Types and Numbers

None

#### D. Vesting

i) City of Tacoma Stormwater Management Manual Edition Used

2021 Stormwater Management Manual (SWMM)

ii) If using a manual other than the most current version, provide vesting justification:

NA

#### 2. Project Overview

#### A. Provide a brief description of the proposed project.

Project proposes to replace existing damaged sidewalk.

#### 3. Existing Project Site Conditions

- A. Answer the following questions, provide additional description, and provide figures (if necessary) to describe the existing site conditions.
- Describe in one or two sentences the existing project site use:
   Existing area is City of Tacoma ROW sidewalk sections.
- ii) Describe in words or show on a figure the stormwater runoff patterns (natural and artificial) and the points where stormwater enters and exits the project site.
  - Stormwater generally flows off sidewalk toward the street sections.
- iii) Answer the following questions to help describe the existing site conditions. If Answer is Yes, include an associated figure(s) that shows location. Answers must be based upon site reconnaissance and readily available mapping data. See SWMM Volume 2, Chapter 3 for resources.

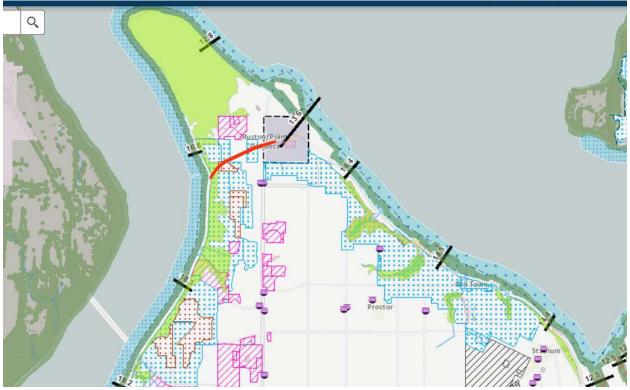
Questions	Answer
Are groundwater protection areas located on the project site or	□Yes
within 500 feet of the project site?	⊠No
within 600 foot of the project ofter.	□Unknown
Are wetlands and/or their buffers located on the project site or	⊠Yes
within 500 feet of the project site?	□No
within 300 reactor the project site:	□Unknown
Are steen clones legated on the project site or within 500 feet of	⊠Yes
Are steep slopes located on the project site or within 500 feet of the project site?	□No
the project site:	□Unknown
Are fleedalaine lecated on the areject site or within EOO feet of the	□Yes
Are floodplains located on the project site or within 500 feet of the project site?	⊠No
	□Unknown
Are streams located on the project site or within EOO feet of the	□Yes
Are streams located on the project site or within 500 feet of the project site?	⊠No
project site:	□Unknown
Are exacted located on the project site or within EOO fact of the	□Yes
Are creeks located on the project site or within 500 feet of the project site?	⊠No
	□Unknown
Are revined located on the project site or within EOO fact of the	□Yes
Are ravines located on the project site or within 500 feet of the project site?	⊠No
	□Unknown
Are enringe legated on the project site or within EOO feet of the	□Yes
Are springs located on the project site or within 500 feet of the project site?	⊠No
	□Unknown

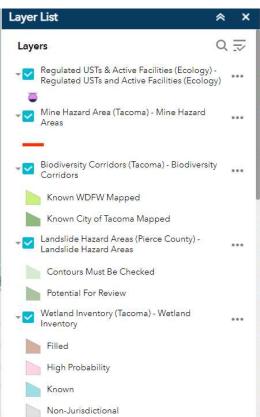
Are any other conditive areas or critical areas legated on the	⊠Yes
Are any other sensitive areas or critical areas located on the project site or within 500 feet of the project site?	□No
project site of within 500 feet of the project site:	□Unknown
	⊠Yes
Are any structures located on the project site?	□No
	□Unknown
Are any fuel tenks or other storeds tenks (chave or helew ground)	□Yes
Are any fuel tanks or other storage tanks (above or below-ground) located on the project site?	⊠No
located on the project site:	□Unknown
Are any groundwater wells leasted on the project site or within	□Yes
Are any groundwater wells located on the project site or within 100 feet of the project site?	⊠No
100 leet of the project site:	□Unknown
Are any centic cyctems legated on the project site or within 100	□Yes
Are any septic systems located on the project site or within 100 feet of the project site?	□No
rect of the project site:	⊠Unknown
Are any Cunorfund sites lessted on the project site or within 100	□Yes
Are any Superfund sites located on the project site or within 100 feet of the project site?	⊠No
reet of the project site:	□Unknown
Are any Flood Hazard Areas located on the project site or within	□Yes
Are any Flood Hazard Areas located on the project site or within 100 feet of the project site?	⊠No
100 leet of the project site:	□Unknown
In the project leasted in the South Tacoma Croundwater	□Yes
Is the project located in the South Tacoma Groundwater Protection District?	⊠No
Trotection district:	□Unknown
	□Yes
Are any public or private easements located on the project site?	⊠No
	□Unknown

#### iii) Additional Information

The project area in general is shown, it is possible that certain items above are not within 500 feet of individual sites where work is being performed. The area as a whole was considered as having possible items above. See figure 1 below.

Figure 1 – Existing Site Conditions Map with Legend





#### **B. Existing Project Site Condition Basin Map**

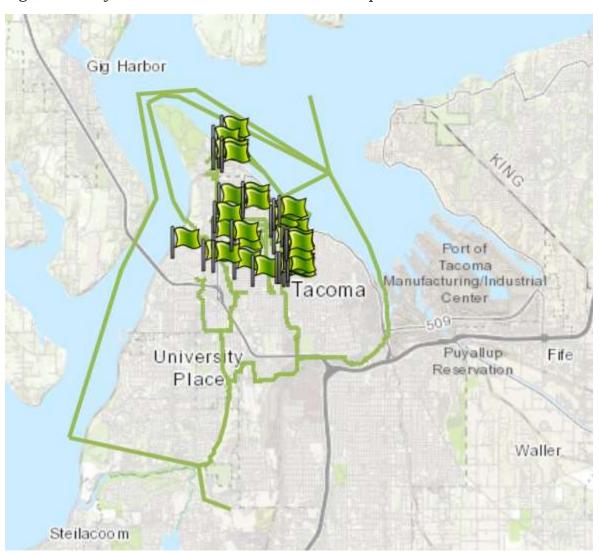
i. <u>Provide an existing conditions basin map</u>
 See Figure 3. The existing locations are City ROW with sidewalk.

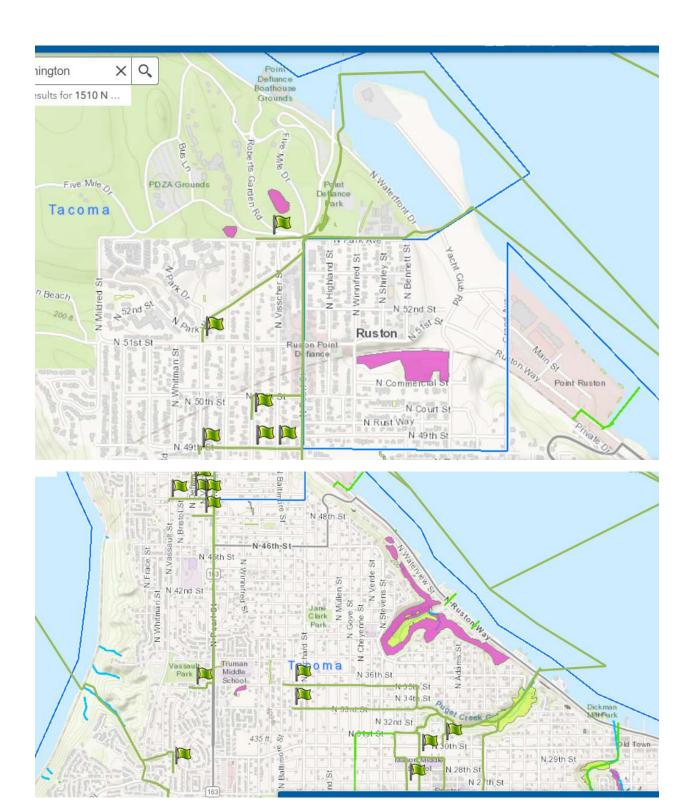
#### C. Downstream Flowpath

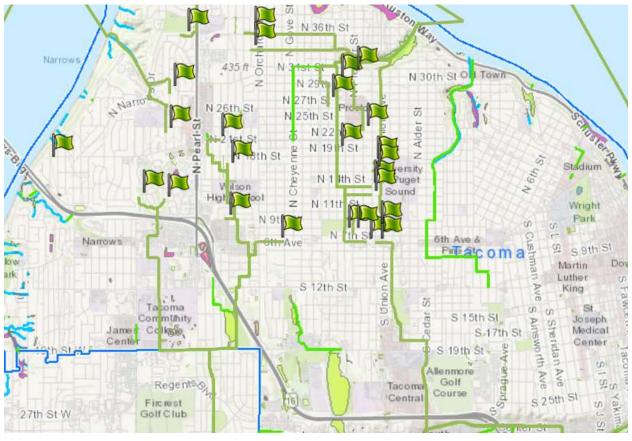
Provide a map showing the downstream flowpath from the project site to the Puget Sound – including all receiving waterbodies along the flowpath. Assume that stormwater does not infiltrate along the flowpath and will ultimately reach the Puget Sound.

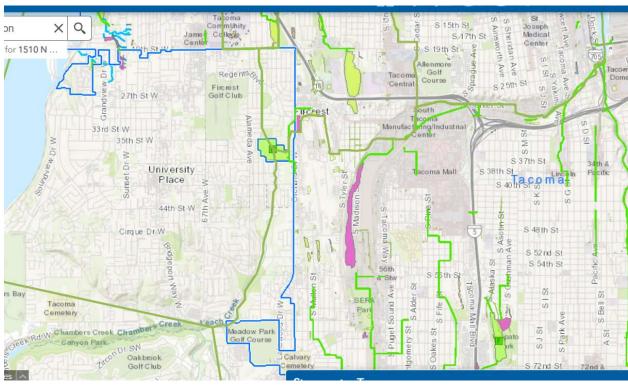
See figures (collectively Figure 3) below.

Figure 3 - Project Locations and Downstream Flowpaths









#### 4. Proposed Project Site Conditions

#### A. Describe in words and provide figure(s) or drawing(s) that describe the proposed project site conditions.

- Describe in one or two sentences the proposed project site use:
   City of Tacoma sidewalk.
- ii) Describe in words or show on a figure the stormwater runoff patterns (natural and artificial) and the points where stormwater enters and exits the project site.
  - See Figure 3 Downstream Flowpath Above. Stormwater patterns do not change between existing and proposed conditions.

#### iii) Additional Information

(Insert any additional description/information necessary to fully describe proposed project site conditions)

#### 5. Minimum Requirement Determination

**A. Project Thresholds**Complete the following project threshold table.

		Amount of Replaced Non PGIS Hard
Sidew	alk Replacement Location	Surface Area
6021	N 35TH ST	192.5
2711	N BALTIMORE ST	125
4908	N DEFIANCE ST	367.5
4941	N DEFIANCE ST	75
1534	N JUNIPER ST	75
1105	N NEWTON ST	30
6006	N PARK AVE	67.95
5920	N PARK WY	55
6106	N PARK WY	188
901	N SHIRLEY ST	155
1438	N SHIRLEY ST	102.5
1120	N VASSAULT ST	230
2201	N VASSAULT ST	314
2713	N VASSAULT ST	125
2726	N VASSAULT ST	185
2732	N VASSAULT ST	115
2808	N VASSAULT ST	150
3412	N VASSAULT ST	105
3418	N VASSAULT ST	80
3333	N VILLARD ST	200
4820	N VISSCHER ST	218.75
5122	N VISSCHER ST	25
1834	N WINNIFRED ST	125
4823	6TH AVE	240
4827	6TH AVE	307
3620	N 12TH ST	559.5
3908	N 30TH ST	
801	N PROCTOR ST	100
2410	N STEVENS ST	
1221	N WASHINGTON ST	250

Total Replace Non-PGIS is 5,000.2 Square Feet.

#### **B.** Receiving Waterbody Table

Receiving Waterbody Name	Type of Receiving Waterbody
Flett Creek	Creek
Puget Sound	Marine

#### C. Minimum Requirements Required

Applicable Minimum Requirements	Applicable Surface Type Requiring Mitigation
MR#1-5	Replaced Hard Surfaces

#### 6. Discussion of Minimum Requirements

#### A. Minimum Requirement #1 – Preparation of a Stormwater Site Plan

This Stormwater Site Plan Report is being used to meet Minimum Requirement #1.

<u>Description of Site Appropriate Development Principles</u>

Where practicable, projects shall use the following site appropriate development principles. Put a checkmark next to the principles that will be used for the project. Project design is not required to be changed in order to accommodate site appropriate development principles, but where feasible, these principles must be used. If none of the site development principles are feasible, place a checkmark next to that box below.

checkmark next to that box below.
oxtimes Minimization of land disturbance by fitting development to the natural terrain.
oxtimes Minimization of land disturbance by confining construction to the smallest area feasible and away from critical areas.
☐ Preservation of natural vegetation.

☐ Locating impervious surfaces over less permeable soils.
$\square$ Clustering buildings.
$\square$ Site appropriate development principles are not practicable because of project design.

# B. Minimum Requirement #2 - Construction Stormwater Pollution Prevention Plan

The Construction Stormwater Pollution Prevention Plan is available in this document.

# C. Minimum Requirement #3 - Source Control

i. Description of Final Site Use

City of Tacoma sidewalks.

ii. Source Control BMPs

☑ For roadway projects, comply with all Source Control BMPs Applicable to All Sites (Volume 6, Chapter 1), BMP S135: Streets, BMP S136: Utility Corridors, BMP S137: Maintenance of Ditches and Culverts, and BMP S139: Stormwater System Maintenance, as applicable to the project. Also, any other BMPs as necessary shall be utilized depending upon the project extent.

# D. Minimum Requirement #4 - Preserving Drainage Patterns and Outfalls

ii. Description of Drainage Patterns and Outfalls

All boxes should be checked for this Minimum Requirement. If all boxes cannot be checked an Exception or Adjustment to the Minimum Requirement may be required per Volume 1 of the SWMM.

- ☑ The natural (or existing) drainage patterns are maintained to the maximum extent feasible.
- ☑ Discharges from the project site occur at the natural (or existing) location to the maximum extent feasible.
- ☑ Discharge from the project site will not cause adverse impacts to downstream receiving waters and downgradient properties.

#### E. Minimum Requirement #5 - Onsite Stormwater Management

i. The List Approach.

This project will utilize The List Approach.

The List Approach requires applicants to complete a feasibility analysis of several BMPs. If those BMPs are considered feasible, they must be used. The types of BMPs that must be analyzed (and

used when feasible) depends upon the receiving waterbody into which the project first discharges. If that first waterbody is saltwater (i.e. the Puget Sound) or the Puyallup River – the project is discharging into a flow control exempt waterbody. If the project stormwater discharges into any other receiving waterbody before reaching a saltwater body or the Puyallup River that project is not flow control exempt. Complete the table below for each surface type.

If a BMP is considered to be feasible it must be used. Include the applicable completed facility sizing sheet and show the location of the BMP on the plan set.

If a BMP is not considered to be feasible, insert infeasibility checklist below this table.

Surface Type: Roofs						
⊠NA - No Roofs are Proposed for this Project						
Not Flow Control Exempt	t	Flow Control Exempt				
Analyze Each BMP in the order listed below. Where there is more than one BMP listed, put a checkmark next to the one analyzed. If a BMP is feasible, that BMP must be used and it is not necessary to analyze other BMPs for feasibility.	Is BMP Feasible?	Analyze each BMP in the order listed below. If a BMP is feasible, that BMP must be used and it is not necessary to analyze other BMPs for feasibility.	Is BMP Feasible?			
<ul> <li>1. Choose One:</li> <li>□ BMP L614: Full Dispersion or</li> <li>□ BMP L602: Downspout Full Infiltration</li> </ul>	☐ Yes ☐ No	1. BMP L602: Downspout Full Infiltration	☐ Yes ☐ No			
<ul><li>2. Choose One:</li><li>□ BMP L601: Rain Gardens</li><li>or</li><li>□ BMP L630: Bioretention</li></ul>	☐ Yes ☐ No	2. BMP L603: Downspout Dispersion	☐ Yes ☐ No			
3. BMP L603: Downspout Dispersion	☐ Yes ☐ No	3. BMP L604: Perforated Stub-Out Connections	☐ Yes ☐ No			
4. BMP L604: Perforated Stub-Out Connection	☐ Yes ☐ No					
Su	rface Type: Otl	ner Hard Surfaces				
Not Flow Control Exempt	ţ	Flow Control Exempt				
Analyze Each BMP in the order listed below. Where there is more than one BMP listed, put a checkmark next to the one analyzed. If a BMP is feasible, that BMP must be used and it is not necessary to analyze other BMPs for feasibility.	Is BMP Feasible?	Analyze Each BMP in the order listed below. Where there is more than one BMP listed, put a checkmark next to the one analyzed. If a BMP is feasible, that BMP must be used and it is not necessary to analyze other BMPs for feasibility.	Is BMP Feasible?			
1. BMP L614: Full Dispersion	□ Yes ⊠ No	<ol> <li>Choose One:</li> <li>BMP L612: Sheet Flow Dispersion, or</li> </ol>	☐ Yes ☐ No			

		☐ BMP L611: Concentrated Flow Dispersion	
2. Choose One:  BMP L633: Permeable Pavement, or  BMP T1050: Compost- Amended Vegetated Filter Strip (CAVFS), or  BMP L601: Rain Gardens, or  BMP L630: Bioretention	□ Yes ⊠ No	The was a second of the second	
3. Choose One:  ☑ BMP L612: Sheet Flow Dispersion, or  ☐ BMP L611: Concentrated Flow Dispersion	☐ Yes ⊠ No		
Surf	ace Type: Lawn	/Landscaped Areas	
⊠NA – No Disturbed Area Condition	s that will be	Lawn/Landscaped in the F	'inal
Not Flow Control Exempt	t	Flow Control Exempt	
Analyze the BMP below for feasibility. If the BMP is feasible if must be used.  BMP L613: Post-Construction	Is BMP Feasible?	Analyze the BMP below for feasibility. If the BMP is feasible if must be used. BMP L613: Post-Construction	Is BMP Feasible?
Soil Quality and Depth	☐ Yes ☐ No	Soil Quality and Depth	☐ Yes ☐ No

ii. Where there is existing vegetation Sheet Flow dispersion will be utilized. Where there is not existing vegetation this option is not feasible as there is insufficient flowpath.

# City of Tacoma Stormwater Management Manual – Infeasibility Checklist

# Surface Type: Roofs and Other Hard Surfaces

BMP L614: Full Dispersion

Version: 07/01/2021

It is not necessary to answer all questions when determining if a BMP is feasible for Minimum Requirement #5 – The List Approach. Unless otherwise noted, a single answer of No means the BMP is considered infeasible for meeting Minimum Requirement #5 – The List Approach. Applicant may choose which questions to answer when determining feasibility.

Questions #1-9 relate to infeasibility criteria that are based on conditions such as topography					
	and distances to predetermined boundaries and certain design criteria.  Questio				
n Number	Question	Ye s	No	NA	
1	Can the flow spreader and dispersion areas be placed 10 feet or more from any building structure?				
2	Can the flow spreader and dispersion areas be placed 5 feet or more from any other structure or property line?		$\boxtimes$		
3	Can the dispersion areas be placed 50 feet or more from the top of any slope 15% or greater?				
4	Can the dispersion areas be placed 50 feet or more from geologically hazardous areas?				
5	Can the dispersion area be located outside of critical areas, critical area buffers, streams, or lakes?				
6	Can the flow spreader and dispersion area maintain setbacks from Onsite Sewage Systems per WAC 246-272A-0210?				
8	Will installing a full dispersion system cause conflicts with any of the following? (An answer of yes means this BMP is infeasible.) Place a checkmark next to the applicable item (8a-8e).				
8a	Requirements of the Historic Preservation Laws and Archeology Laws, Federal Superfund or Washington State Model Toxics Control Act, Federal Aviation Administration requirements for airports, or Americans with Disability Act				
8b	Special zoning district design criteria adopted and being implemented through any City of Tacoma planning efforts				
8c	Public health and safety standards				
8d	Transportation regulations to maintain the option for future expansion or multi-modal use of public rights-ofway				
8e	Critical Area Preservation Ordinance				
9	Can the design standards in BMP L614 be met?				
9a	Describe the design standard that cannot be met:				
recommer	#10 require evaluation of site specific conditions and a writtendation from an appropriate Washington State Licensed Profesnal Engineer, Professional Geologist, Professional Hydrogeologist,	ssiona	l (e.g	٠,	
10	Will the use of a full dispersion cause erosion or flooding problems onsite or on adjacent properties? (An answer of yes means this BMP is not feasible).				

# City of Tacoma Stormwater Management Manual – Infeasibility Checklist

**Surface Type: Roofs or Other Hard Surface** 

**BMP L630: Bioretention** 

Version: 07/01/2021

It is not necessary to answer all questions when determining if a BMP is feasible for Minimum Requirement #5 – The List Approach. Unless otherwise noted, a single answer of No means the BMP is considered infeasible for meeting Minimum Requirement #5 – The List Approach. Applicant may choose which questions to answer when determining feasibility.

Questions #1-18 relate to infeasibility criteria that are based on conditions such as topography and distances to predetermined boundaries. Citation of the following do not need site-specific written recommendations from a Washington State Licensed Professional Engineer or Washington State Licensed Professional Geologist though some criteria may

require professional services to determine if the infeasibility criteria apply.

Question Number	Question	Yes	No	NA
1	Can the bioretention facility be placed 10 feet or more from any building structure?			
<mark>2</mark>	Can the bioretention facility be placed 5 feet or more from any other structure or property line?		×	
3	Can the bioretention facility be placed 50 feet or more from the top of any slope greater than 20%?			
4	Can the bioretention facility be placed 50 feet or more from geologically hazardous areas?			
5	Can the bioretention facility be located outside of designated erosion or landslide hazard areas?			
6	Can the bioretention facility be located greater than 100 feet from an underground storage tank whose capacity including tank and underground connecting pipe is 1100 gallons or more?			
7	Can the bioretention facility be located greater than 10 feet from an underground storage tank (tank used for petroleum product, chemical, or liquid hazardous waste storage) whose capacity including tank and underground connecting pipe is 1100 gallons or less?			
8	Can the bioretention facility be located greater than 100 feet of a closed or active landfill?			
9	Can the bioretention facility be located greater than 100 feet from drinking water well or a spring used for drinking water supply?			
10	Can the bioretention facility be placed 10 feet or more from small on-site sewage disposal drainfields? (For large on-site sewage disposal setbacks see WAC Chapter 246-727B).			

Can the bioretention facility be located on slopes less than 8%?			
Is the bioretention facility compatible with the surrounding drainage system (e.g., project drains to an existing stormwater system whose elevation precludes proper connection to the bioretention facility)?			
For properties with known soil or groundwater contamination, can the bioretention facility be located greater than 100 feet from an area known to have deep soil contamination?			
For properties with known soil or groundwater contamination, can the bioretention facility be located such that infiltration will not increase or change the direction of the migration of pollutants in the groundwater? (Based upon groundwater modeling).			
For properties with known soil or groundwater contamination, can the bioretention facility be located in an area that does not have contaminated surface soils that are proposed to remain in place?			
For properties with known soil or groundwater contamination, can the bioretention facility be located in areas not prohibited by an approved cleanup plan under the state Model Toxics Control Act or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW?			
For bioretention facilities that are constructed with imported compost materials, can the bioretention facility be located greater than ¼ mile from a phosphorus-sensitive waterbody? (Does not apply to discharges to Wapato Lake).			
Will installing a bioretention facility cause conflicts with any of the following? (An answer of yes means this BMP is infeasible.) Place a checkmark next to the applicable item (18a-18e).			
Requirements of the Historic Preservation Laws and Archeology Laws, Federal Superfund or Washington State Model Toxics Control Act, Federal Aviation Administration requirements for airports, or Americans with Disability Act			
Special zoning district design criteria adopted and being implemented through any City of Tacoma planning efforts			
Public health and safety standards			
Transportation regulations to maintain the option for future expansion or multi-modal use of public rights-of-way			
Critical Area Preservation Ordinance			
	e chara	acteris	stics
Is the depth from the lowest level of the bioretention soil mix or any underlying gravel layer to the seasonal high groundwater table or other impermeable layer equal to or greater than 1			
	Is the bioretention facility compatible with the surrounding drainage system (e.g., project drains to an existing stormwater system whose elevation precludes proper connection to the bioretention facility)?  For properties with known soil or groundwater contamination, can the bioretention facility be located greater than 100 feet from an area known to have deep soil contamination?  For properties with known soil or groundwater contamination, can the bioretention facility be located such that infiltration will not increase or change the direction of the migration of pollutants in the groundwater? (Based upon groundwater modeling).  For properties with known soil or groundwater contamination, can the bioretention facility be located in an area that does not have contaminated surface soils that are proposed to remain in place?  For properties with known soil or groundwater contamination, can the bioretention facility be located in areas not prohibited by an approved cleanup plan under the state Model Toxics Control Act or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW?  For bioretention facilities that are constructed with imported compost materials, can the bioretention facility be located greater than ¼ mile from a phosphorus-sensitive waterbody? (Does not apply to discharges to Wapato Lake).  Will installing a bioretention facility cause conflicts with any of the following? (An answer of yes means this BMP is infeasible.) Place a checkmark next to the applicable item (18a-18e).  Requirements of the Historic Preservation Laws and Archeology Laws, Federal Superfund or Washington State Model Toxics Control Act, Federal Aviation Administration requirements for airports, or Americans with Disability Act  Special zoning district design criteria adopted and being implemented through any City of Tacoma planning efforts  Public health and safety standards  Transportation regulations to maintain the option for future expansion or multi-modal use of public rights-of-way  Critical Area Preserva	Is the bioretention facility compatible with the surrounding drainage system (e.g., project drains to an existing stormwater system whose elevation precludes proper connection to the bioretention facility)?  For properties with known soil or groundwater contamination, can the bioretention facility be located greater than 100 feet from an area known to have deep soil contamination?  For properties with known soil or groundwater contamination, can the bioretention facility be located such that infiltration will not increase or change the direction of the migration of pollutants in the groundwater? (Based upon groundwater modeling).  For properties with known soil or groundwater contamination, can the bioretention facility be located in an area that does not have contaminated surface soils that are proposed to remain in place?  For properties with known soil or groundwater contamination, can the bioretention facility be located in areas not prohibited by an approved cleanup plan under the state Model Toxics Control Act or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW?  For bioretention facilities that are constructed with imported compost materials, can the bioretention facility be located greater than ½ mile from a phosphorus-sensitive waterbody? (Does not apply to discharges to Wapato Lake).  Will installing a bioretention facility cause conflicts with any of the following? (An answer of yes means this BMP is infeasible.) Place a checkmark next to the applicable item (18a-18e).  Requirements of the Historic Preservation Laws and Archeology Laws, Federal Superfund or Washington State Model Toxics Control Act, Federal Aviation Administration requirements for airports, or Americans with Disability Act  Special zoning district design criteria adopted and being implemented through any City of Tacoma planning efforts  Public health and safety standards  Transportation regulations to maintain the option for future expansion or multi-modal use of public rights-of-way  Critical Area Preserva	Is the bioretention facility compatible with the surrounding drainage system (e.g., project drains to an existing stormwater system whose elevation precludes proper connection to the bioretention facility)?  For properties with known soil or groundwater contamination, can the bioretention facility be located greater than 100 feet from an area known to have deep soil contamination?  For properties with known soil or groundwater contamination, can the bioretention facility be located such that infiltration will not increase or change the direction of the migration of pollutants in the groundwater? (Based upon groundwater modeling).  For properties with known soil or groundwater contamination, can the bioretention facility be located in an area that does not have contaminated surface soils that are proposed to remain in place?  For properties with known soil or groundwater contamination, can the bioretention facility be located in areas not prohibited by an approved cleanup plan under the state Model Toxics  Control Act or Federal Superfund Law, or an environmental covenant under Chapter 64.70 RCW?  For bioretention facilities that are constructed with imported compost materials, can the bioretention facility be located greater than ½ mile from a phosphorus-sensitive waterbody?  (Does not apply to discharges to Wapato Lake).  Will installing a bioretention facility cause conflicts with any of the following? (An answer of yes means this BMP is infeasible.) Place a checkmark next to the applicable item (18a-18e).  Requirements of the Historic Preservation Laws and Archeology Laws, Federal Superfund or Washington State Model Toxics Control Act, Federal Aviation Administration requirements for airports, or Americans with Disability Act  Special zoning district design criteria adopted and being implemented through any City of Tacoma planning efforts  Transportation regulations to maintain the option for future expansion or multi-modal use of public rights-of-way  Critical Area Preservation Ordinance  19-21 relate to in

	foot? This applies only if the contributing area to the bioretention facility has less than 5,000 square feet of pollution-generating impervious surface, and less than 10,000 square feet of impervious surface, and less than 3/4 acre pervious surface.			
20	Is the depth from the lowest level of the bioretention soil mix or any underlying gravel layer to the seasonal high groundwater table or other impermeable layer equal to or greater than 3 feet? This applies only if the contributing area to the bioretention facility has: 5,000 square feet or greater of pollution-generating impervious surface, or 10,000 square feet or greater of impervious surface, or more ¾ acre pervious surface AND the bioretention facility cannot be broken down into amounts smaller than those listed above.			
21	Was the soil classified as having a measured native soil saturated hydraulic conductivity of 0.3 in/hour or more?			
recommen	22-29 require evaluation of site specific conditions and a writed attention an appropriate Washington State Licensed Profestal Engineer, Professional Geologist, Professional Hydrogeologist,	ssiona	l (e.g	-,
22	Will the proposed bioretention facility location threaten the safety or reliability of preexisting underground utilities, preexisting underground storage tanks, preexisting structures, or preexisting road or parking lot surfaces? (An answer of yes means the BMP is infeasible).			
23	Will the proposed bioretention facility location allow for a safe overflow pathway to the City stormwater system or a private stormwater system?			
24	Are there reasonable concerns about erosion, slope failure, or downgradient flooding due to infiltration? (An answer of yes means the BMP is infeasible).			
25	Is the project located in an area whose groundwater drains into an erosion hazard or landslide hazard area? (An answer of yes means the BMP is infeasible).			
26	Will infiltrating water threaten existing below grade basements? (An answer of yes means the BMP is infeasible).			
27	Will infiltrating water threaten shoreline structures such as bulkheads? (An answer of yes means the BMP is infeasible).			
28	Is there lack of usable space onsite for bioretention facilities at redevelopment sites? (An answer of yes means the BMP is infeasible).			
29	For public road projects, is there insufficient space within the ROW to install a bioretention facility? (An answer of yes means this BMP is infeasible).			

# City of Tacoma Stormwater Management Manual – Infeasibility Checklist

# **Surface Type: Other Hard Surfaces**

BMP L612: Sheet Flow Dispersion

Version: 07/01/2021

It is not necessary to answer all questions when determining if a BMP is feasible for Minimum Requirement #5 – The List Approach. Unless otherwise noted, a single answer of No means the BMP is considered infeasible for meeting Minimum Requirement #5 – The List Approach. Applicant may choose which questions to answer when determining feasibility.

Questions #1-9 relate to infeasibility criteria that are based on conditions such as topography

and distances to predetermined boundaries and certain design criteria.

Questio		Ye		
n Number	Question	S	No	NA
1	Can the sheet flow dispersions system be placed 10 feet or			
1	more from any building structure?			
2	Can the sheet flow dispersion system be placed 5 feet or more		×	
	from any other structure or property line?	<u> </u>		
3	Can the sheet flow dispersion system be placed 50 feet or more			П
_	from the top of any slope 15% or greater?			
4	Can the sheet flow dispersion system be placed 50 feet or more			
_	from geologically hazardous areas?			
5	Can the sheet flow dispersion system maintain setbacks from Onsite Sewage Systems per WAC 246-272A-0210?			
6	Is it possible to provide a vegetated flowpath width of 10 feet or			
	greater for up to 20 feet of width of paved or impervious			
	surface?			
7	For paved or impervious surfaces widths 20 feet or greater, is it			
	possible to provide a vegetated flowpath width of 20 feet or			П
	greater (additional 10 feet of width must be added for each			
	increment of 20 feet or more in width)?			
8	Will installing sheet flow dispersion cause conflicts with any of			
	the following? (An answer of yes means this BMP is infeasible.) Place a checkmark next to the applicable item (8a-8e).			
8a	Requirements of the Historic Preservation Laws and			
J	Archeology Laws, Federal Superfund or Washington			
	State Model Toxics Control Act, Federal Aviation			
	Administration requirements for airports, or Americans			
	with Disability Act			
8b	Special zoning district design criteria adopted and being			
	implemented through any City of Tacoma planning			
	efforts			
8c	Public health and safety standards			
	<u> </u>			

8d	Transportation regulations to maintain the option for future expansion or multi-modal use of public rights-ofway				
8e	Critical Area Preservation Ordinance				
9	Can the design standards in BMP L612 be met?				
9a	Describe the design standard that cannot be met:				
Questions #10 require evaluation of site specific conditions and a written recommendation from an appropriate Washington State Licensed Professional (e.g., Professional Engineer, Professional Geologist, Professional Hydrogeologist).					
10	Will the use of sheet flow dispersion cause erosion or flooding problems onsite or an adjacent properties? (An answer of yes means this BMP is not feasible).				



# F. Minimum Requirement #6 - Stormwater Treatment

i. Description of Compliance Need

Minimum Requirement #6 is not required for this project because the project adds less than 5,000 square feet of new hard surface, converts less than 3/4 acre of vegetation to lawn or landscape, and converts less than 2.5 acres of native vegetation to pasture.

# G. Minimum Requirement #7 - Flow Control

i. <u>Description of Compliance Need</u>

Minimum Requirement #7 is not required for this project because the project adds less than 5,000 square feet of new hard surface, converts less than  $\frac{3}{4}$  acre of vegetation to lawn or landscape, and converts less than 2.5 acres of native vegetation to pasture.

# H. Minimum Requirement #8 - Wetlands Protection

i. <u>Description of Compliance Need</u>

Minimum Requirement #8 is not required for this project because the project adds less than 5,000 square feet of new hard surface, converts less than 3/4 acre of vegetation to lawn or landscape, and converts less than 2.5 acres of native vegetation to pasture.

# I. Minimum Requirement #9 - Operation and Maintenance

Pick the statement or statements below that apply to this project.

oxtimes This project does not propose to install any permanent stormwater facilities. An Operation a Maintenance Manual is not required.	ınd
$\square$ The Operation and Maintenance Manual is available as a stand-alone document as part of the Permit submittal.	he
☐ For facilities to be maintained by the City of Tacoma (facilities located in the City Right-of-Wa designed to manage stormwater from the City Right-of-Way) include the following language: The of Tacoma is responsible for creating and keeping an Operation and Maintenance Manual for a facilities to be maintained by the City of Tacoma.	e City

#### J. Additional Protective Measure - Infrastructure Protection

#### Description of Compliance Need

A quantitative downstream analysis is not required because the project is not increasing the surface area contributing to the downstream system by 5,000 square feet or more and is not increasing the surface area converted from pervious to impervious contributing to the downstream system by 5,000 square feet or more.

# Construction Stormwater Pollution Prevention Plan (SWPPP) Report

#### **Erosion and Sediment Control Lead**

Name	Organization	Contact Telephone Number	Email Address	CESCL/CPESC Number (if applicable)
Sandra Guffey	Public Works	253-591- 5270	sguffey@cityoftacoma.org	NA

# 1. Proposed Construction Schedule

i. Proposed Start Date: May 2022

ii. Proposed End Date: July 2022

iii. Describe proposed phasing or sequencing (if any): None

# 2. 13 Elements of Construction Stormwater Pollution Prevention

Below the 13 Elements of Construction Stormwater Pollution Prevention are provided. For each element, place a checkmark next to the BMP that will be used to satisfy the element. If Other is checked describe how the element will be addressed in detail. If an element is not required, justification for why that element is not required must be included. Volume 3, Table 3-1: Construction Stormwater BMPs by SWPP Element is a guide that can be used to help determine appropriate BMPs to address each Element.

# A. Element #1: Preserve Vegetation and Mark Clearing Limits

- Before beginning any land disturbing activities, including clearing and grading, clearly mark all
  clearing limits, sensitive areas and their buffers, and trees that are to be preserved within the
  construction area to prevent damage and offsite impacts. Mark clearing limits both in the field
  and on the plans.
- Retain the duff layer, native topsoil, and natural vegetation in an undisturbed state to the
  maximum degree practicable. If it is not practicable to retain the duff layer in place, stockpile it
  onsite, cover it to prevent erosion, and replace it immediately upon completion of the grounddisturbing activities.
- Plastic, metal, fabric fence, or other physical barriers may be used to mark the clearing limits.

The BMP(s) proposed to meet this element are:

☑ Other: Field applied spray paint will be used to delineate construction area.

☐ This Element is not required for this project because: (Insert justification as to why Element is not required)

# B. Element #2: Establish Construction Access

- Limit construction vehicle ingress and egress to one route, if possible.
- Stabilize access points with a pad of quarry spalls, crushed rock, or other equivalent BMPs to minimize tracking of sediment.
- Locate wheel wash or tire baths onsite if other measures fail to control sediment from leaving the site.
- No tracking of sediment offsite is allowed. If sediment is tracked offsite, offsite areas (including roadways) shall be thoroughly and immediately cleaned by shoveling or pickup sweeping.
   Transport sediment to a controlled sediment disposal area.
- Keep streets clean at ALL times. Clean tracked sediment immediately.
- Washing of sediment to the stormwater system is not allowed.

The BMP(s) proposed to meet this element are:

☑ Other: Street sweeping will be used as the primary means of temporary erosion and sediment control. Access is limited to the street section that will be worked on.
 ☐ This Element is not required for this project because: (Insert justification as to why Element is not required)

# C. Element #3: Control Flow Rates

- Protect downstream properties, receiving waters, and conveyance systems from erosion and other damage due to increases in the velocity and peak volumetric flowrate of stormwater from the project site. A quantitative downstream analysis may be required to ensure no damage to the downstream conveyance system during construction. See Additional Protective Measure -Infrastructure Protection.
- Where necessary, construct flow control facilities as one of the first steps in grading.
- Flow control facilities shall be functional prior to construction of site improvements (e.g.
  impervious surfaces). It may be necessary to install temporary flow control facilities to meet flow
  control requirements during construction.
- Control structures designed for permanent flow control BMPs are not appropriate for use during
  construction without modification. If used during construction, modify the control structure to
  allow for long-term storage of runoff and enable sediments to settle. Verify that the BMP is sized
  appropriately for this purpose. Restore BMPs to their original design dimensions, remove
  sediment, and install a final control structure at completion of the project.
- Velocity of water leaving the site shall not exceed 3 feet/second if the discharge is to a stream or ditch.
- Permanent infiltration facilities shall not be used for flow control during construction unless lined. The bottom of the facility shall be scarified to ensure any compaction that occurred during construction is mitigated.

The BMP(s) proposed to meet this element are:

☑ This Element is not required for this project because: flowrates are not likely to increase due to the project type (hard surface remain fairly consistent between existing and proposed conditions).

# D. Element #4: Install Sediment Controls

- Design, install, and maintain effective erosion controls and sediment control to minimize the discharge of pollutants.
- Minimize sediment discharges from the site. The design, installation and maintenance of
  erosion and sediment controls must address factors such as the amount, frequency, intensity
  and duration of precipitation, the nature of resulting stormwater, and soil characteristics,
  including the range of soil particle sizes expected to be present on the site.
- Prior to leaving a construction site or prior to discharge to an infiltration facility, stormwater from disturbed areas shall pass through a sediment removal BMP.
- Construct sediment control BMPs as one of the first steps in grading. These BMPs shall be functional before other land disturbing activities take place.
- Locate BMPs in a manner to avoid interference with the movement of juvenile salmonids attempting to enter off-channel areas or conveyance channels.
- Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas to increase sediment removal and maximize infiltration, where feasible.
- Seed and mulch earthen structures such as dams, dikes, and diversions according to the timing indicated in Element #5.
- Design outlet structures to withdraw impounded stormwater from the surface to avoid discharging sediment that is still suspended lower in the water column. If installing a floating pump structure, include a stopper to prevent the pump basket from hitting the bottom of the pond.
- Full stabilization includes concrete or asphalt paving; quarry spalls used as ditch lining; or the use of rolled erosion products, a bonded fiber matrix product, or vegetative cover in a manner that will fully prevent soil erosion.

The BMP(s)	proposed	to meet t	his elemen	t are:

☐ BMP C235: Wattles
☑ Other: Street sweeping and stormwater inlet protection will be the main means of
ensuring sediment does not enter the stormwater system.
☐ This Element is not required for this project because: (Insert justification as to why Element is not
required)

# E. Element #5: Stabilize Soils

- Stabilize exposed and unworked soils by application of effective BMPs that prevent erosion.
- From October 1 through April 30, no soils shall remain exposed and unworked for more than 2 days. From May 1 to September 30, no soils shall remain exposed and unworked for more than 7 days. This stabilization requirement applies to all soils onsite, whether at final grade or not.
- Stabilize soils at the end of the shift, before a holiday or weekend, if needed, based on the weather forecast.

- Select appropriate soil stabilization measures for the time of year, site conditions, estimated duration of use, and the potential water quality impacts that stabilization agents may have on downstream waters or groundwater.
- Stabilize soil stockpiles from erosion, protect stockpiles with sediment trapping measures, and where possible, locate piles away from stormwater system inlets, waterways, and conveyance channels.
- Control stormwater volume and velocity within the site to minimize soil erosion.
- Control stormwater discharges, including peak volumetric flowrates and total stormwater volume, to minimize erosion at outlets and to minimize downstream channel and stream bank erosion.
- Minimize the amount of soil exposed during construction activity.
- Minimize the disturbance of steep slopes.

The BMP(s) proposed to meet this element are:

- Minimize soil compaction and, unless infeasible, preserve topsoil.
- Ensure the gravel base used for stabilization is clean and does not contain fines or sediment.

□ BMP C120: Temporary and Permanent Seeding
 □ BMP C121: Mulching
 □ BMP C123: Plastic Covering
 □ BMP C125: Compost
 □ BMP C140: Dust Control
 □ Other: (Insert description of how element will be addressed)

☐ This Element is not required for this project because: (Insert justification as to why Element is not

# F. Element #6: Protect Slopes

required)

- Design and construct cut-and-fill slopes in a manner to minimize erosion. Applicable practices
  include, but are not limited to, reducing continuous length of slope with terracing and
  diversions, reducing slope steepness, and roughening slope surfaces (for example, track
  walking).
- Divert offsite stormwater (sometimes called run-on) or groundwater away from slopes and disturbed areas with interceptor dikes and/or swales. Manage offsite stormwater separately from stormwater generated on the site.
- At the top of the slopes, collect stormwater in pipe slope drains or protected channels to prevent erosion. Size temporary pipe slope drains to convey either:
  - The peak volumetric flowrate calculated using a 10-minute time step from a Type 1A,
     10-year, 24-hour frequency storm using a single event model, or
  - The 10-year return period flowrate, indicated by an Ecology-approved continuous simulation model, using a 15-minute time step.
- Use the existing land cover condition for predicting flowrates from tributary areas outside the project limits. For tributary areas on the project site, use the temporary or permanent project land cover condition, whichever will produce the highest flowrate. If using, a continuous simulation model, model bare soils as landscaped areas.
- Provide temporary or permanent conveyance to remove groundwater seepage from the slope surface of exposed soil areas.

- Place excavated material on the uphill side of trenches, consistent with safety and space considerations.
- Place check dams at regular intervals within channels that are cut down a slope.
- Stabilize soils on slopes, as specified in Element #5.

The BMP(s) proposed to meet this element are:

BMP C120: Temporary and Permanent Seeding
BMP C121: Mulching
BMP C122: Nets and Blankets
BMP C123: Plastic Covering
Other: (Insert description of how element will be addressed)
This Element is not required for this project because: There are no slopes that will be disturbed as part of this project.

### G. Element #7: Protect Stormwater System Inlets

- Protect all stormwater system inlets that are operable during construction so that stormwater does not enter the conveyance system without first being filtered or treated to remove sediment.
- Clean or remove and replace inlet protection devices when sediment has filled 1/3 of the available storage (unless a different standard is specified by the product manufacturer).
- Keep all approach roads clean. Do not allow sediment to enter the stormwater system.
- Inspect inlets weekly at a minimum and daily during storm events.

The BMP(s) proposed to meet this element are:

☑ BMP C220: Stormwater System Inlet Protection
☐ Other: (Insert description of how element will be addressed)
$\Box$ This Element is not required for this project because: (Insert justification as to why Element is not
required)

# H. Element #8: Stabilize Channels and Outlets

- Design, construct, and stabilize all temporary onsite conveyance channels to prevent erosion from either:
  - The peak volumetric flowrate calculated using a 10-minute time step from a Type 1A, 10-year, 24-hour frequency storm using a single event model, or
  - The 10-year return period flowrate, indicated by an Ecology-approved continuous simulation model, using a 15-minute time step.
- Use the existing land cover condition for predicting flowrates from tributary areas outside the project limits. For tributary areas on the project site, use the temporary or permanent project land cover condition, whichever will produce the highest flowrate. If using a continuous simulation model, model bare soils as landscaped areas.
- Provide stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches at the outlets of all conveyance systems.

The BMP(s) proposed to meet this element are:

☐ Other: (	Insert d	escription	of how	element wi	II be	addressed)
------------	----------	------------	--------	------------	-------	------------

☑ This Element is not required for this project because: Temporary channels and outlets are not proposed for this project. No permanent channels or outlets are proposed for this project either.

### I. Element #9: Control Pollutants

- Design, install, implement and maintain effective pollution prevention measures to minimize the discharge of pollutants.
- All discharges to the City of Tacoma wastewater system require City approval. Some discharges
  to the City of Tacoma stormwater system require City approval. The approval may include a
  separate Special Approved Discharge (SAD) permit. Visit
  <a href="https://www.cityoftacoma.org/government/city\_departments/environmentalservices/wastewater/wastewater\_permits\_and\_manuals\_for\_additional\_information\_about\_SAD\_Permits.">https://www.cityoftacoma.org/government/city\_departments/environmentalservices/wastewater\_permits\_and\_manuals\_for\_additional\_information\_about\_SAD\_Permits.</a>
- Handle and dispose of all pollutants, including waste materials and demolition debris that occur
  on site in a manner that does not cause contamination of stormwater.
- Provide cover, containment, and protection from vandalism for all chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health and the environment. Provide secondary containment for tanks holding pollutants including onsite fueling tanks. Secondary containment means placing tanks or containers within an impervious structure capable of containing 110% of the volume contained in the largest tank within the containment structure. Double-walled tanks do not require additional secondary containment.
- Conduct maintenance, fueling, and repair of heavy equipment and vehicles using spill prevention and control measures. Clean contaminated surfaces immediately following any spill incident.
- Conduct oil changes, hydraulic system drain down, solvent and degreasing cleaning operations, fuel tank drain down and removal, and other activities, which may result in discharge or spillage of pollutants to the ground or into stormwater using spill prevention measures, such as drip pans.
- Discharge wheel wash or tire bath wastewater to a separate onsite treatment system that prevents discharge to surface water. Alternatively, discharge wheel wash or tire bath wastewater to the wastewater system (only allowed with SAD Permit approval).
- Apply fertilizers and pesticides in a manner and at application rates that will not result in loss of chemicals to stormwater. Follow manufacturers' recommendations for application rates and procedures.
- Use BMPs to prevent or treat contamination of stormwater by pH modifying sources. These sources include, but are not limited to, recycled concrete stockpiles, bulk cement, cement kiln dust, fly ash, new concrete washing and curing waters, waste streams generated from concrete grinding and sawing, exposed aggregate processes, dewatering concrete vaults, and concrete pumping and mixer washout waters.
- Adjust the pH of stormwater if necessary to prevent violations of water quality standards.
- Manage concrete washout appropriately.
  - Washout concrete truck drums or concrete handling equipment in onsite or offsite designated concrete washout areas only.
    - Do not washout concrete truck drums or concrete handling equipment to streets, the stormwater system, receiving waterbodies, or the ground.

- Washout of small concrete handling equipment may be disposed of in a formed areas awaiting concrete where it will not contaminate stormwater and surface water or groundwater.
- Do not use upland land applications for discharging wastewater from concrete washout areas.
- o Do not dump excess concrete onsite, except in designated concrete washout areas.
- Do not washout anything contaminated with concrete into formed areas awaiting infiltration BMPs.
- Concrete spillage or concrete discharge directly to groundwater or surface waters of the State is prohibited.
- Written approval from the Department of Ecology is required prior to using chemical treatment other than CO2, dry ice, or food grade vinegar to adjust pH.
- Clean contaminated surfaces immediately following any discharge or spill incident.
- Uncontaminated water from water-only based shaft drilling for construction of building, road, and bridge foundations may be infiltrated provided the wastewater is managed in a way that prohibits discharge to surface waters. Prior to infiltration, water from water-only based shaft drilling that comes into contact with curing concrete must be neutralized until pH is in the range of 6.5 to 8.5.

The BMP(s) proposed to meet this element are:

☑ BMP C152: Sawcutting and Surface Pollution Prevention
☑ BMP C153: Material Delivery, Storage and Containment
☐ BMP C154: Concrete Washout Area
☐ Other: (Insert description of how element will be addressed)
$\Box$ This Element is not required for this project because: (Insert justification as to why Element is not
required)

# J. Element #10: Dewatering

- Dewatering discharges to the City of Tacoma stormwater conveyance system or the City of
  Tacoma wastewater system may require City approval through a Special Approved Discharge
  (SAD) Permit. See
   <a href="https://www.cityoftacoma.org/government/city\_departments/environmentalservices/wastewater/wastewater-permits\_and\_manuals\_for\_more\_information\_on\_the\_SAD\_Permit\_Process.">https://www.cityoftacoma.org/government/city\_departments/environmentalservices/wastewater\_permits\_and\_manuals\_for\_more\_information\_on\_the\_SAD\_Permit\_Process.</a>
- Discharge foundation, vault, and trench dewatering water that has similar characteristics to site stormwater into a controlled conveyance system prior to discharge to a sediment trap or sediment pond. Stabilize channels as specified in Element #8.
- Clean, non-turbid dewatering water, such as well-point groundwater, can be discharged to systems tributary to state surface waters, as specified in Element #8, provided the dewatering flow does not cause erosion or flooding of receiving waters. Do not route clean dewatering water through TESC BMPs.
- Handle highly turbid or contaminated dewatering water separately from stormwater at the site.
- Other disposal options, depending on site constraints, may include:
  - Infiltration

- Transport offsite in vehicle, such as a vacuum flush truck, for legal disposal in a manner that does not pollute state waters
- o Ecology approved onsite chemical treatment or other suitable treatment technologies
- Use of a sedimentation bag that discharges to a ditch or swale for small volumes of localized dewatering

The BMP(s) proposed to meet this element are:

☑ This Element is not required for this project because: Due to proximity of work to the surface, it is unlikely that dewatering will be required.

### K. Element #11: Maintain BMPs

- Maintain and repair as needed all temporary and permanent erosion and sediment control BMPs to assure continued performance of their intended function. Conduct maintenance and repairs in accordance with BMP specifications.
- Remove temporary erosion and sediment control BMPs within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized onsite. Permanently stabilize disturbed soil resulting from removal of BMPs or vegetation.

The BMP(s) proposed to meet this element are:

⊠ BMP C150: Materials on Hand
☑ BMP C160: Erosion and Sediment Control Lead
☐ Other: (Insert description of how element will be addressed)
$\Box$ This Element is not required for this project because: (Insert justification as to why Element is not
required)

#### L. Element #12: Manage the Project

- Phasing of Construction Phase development projects in order to prevent soil erosion and the
  transport of sediment from the project site during construction, unless the Erosion and Sediment
  Control Lead can demonstrate that construction phasing is infeasible. Revegetation of exposed
  areas and maintenance of that vegetation shall be an integral part of the clearing activities for
  any phase.
- Seasonal Work Limitations From October 1 through April 30, clearing, grading, and other soil disturbing activities shall only be permitted if shown to the satisfaction of the City that silt-laden stormwater will be prevented from leaving the site through a combination of the following:
  - Site conditions including existing vegetative coverage, slope, soil type, and proximity to receiving waters;
  - o Limitations on activities and the extent of disturbed areas; and
  - Proposed erosion and sediment control measures.

Based on the information provided and local weather conditions, the City may expand or restrict the seasonal limitation onsite disturbance. The following activities are exempt from the seasonal clearing and grading limitations:

o Routine maintenance and necessary repair of erosion and sediment control BMPs

- Routine maintenance of public facilities or existing utility structures that do not expose the soil or result in the removal of the vegetative cover to soil
- Activities where there is one hundred percent infiltration of stormwater within the site in approved and installed erosion and sediment control facilities

# Inspection and Monitoring

- a. Inspect, maintain, and repair all BMPs as needed to assure continued performance of their intended function. Projects regulated under the Construction Stormwater General Permit (CSWGP) must conduct site inspections and monitoring in accordance with Special Condition S4 of the CSWGP.
- b. Projects that disturb one or more acres must have site inspections conducted by a Certified Erosion and Sediment Control Lead (CESCL) or Certified Professional in Erosion and Sediment Control (CPESC).
- c. Projects disturbing less than one acre must have an Erosion Sediment Control Lead (ESC) conduct inspections. The ESC Lead does not have to have CESCL or CPESC certification.
- d. The CESCL, CPESC, or ESC Lead shall be identified in the SWPPP and shall be onsite or on-call at all times.
- e. The CESCL, CPESC, or ESC Lead must examine stormwater visually for the presence of suspended sediment, turbidity, discoloration, and oil sheen and evaluate the effectiveness of BMPs to determine if it is necessary to install, maintain, or repair BMPs.
- f. The CESCL, CPESC, or ESC Lead must inspect all areas disturbed by construction activities, all BMPs, and all locations where stormwater leaves the site at least once every calendar week and within 24 hours of any discharge from the site. (Individual discharge events that last more than one day do not require daily inspections). The CESCL, CPESC, or ESC Lead may reduce the inspection frequency for temporary stabilized, inactive sites to once every calendar month.
- g. Construction site operators must correct any problems identified by the CESCL, CPESC, or ESC Lead by:
  - Reviewing the SWPPP for compliance with the 13 construction SWPPP elements and making appropriate revisions within 7 days of the inspection.
  - Fully implementing and maintaining appropriate source control and/or treatment BMPs as soon as possible but correcting the problem within 10 days.
  - Documenting BMP implementation and maintenance in the site log book. (Required for sites larger than 1 acre but recommended for all sites).

Sampling and analysis of the stormwater discharges from a construction site may be necessary on a case-by-case basis to ensure compliance with standards. Ecology or the City will establish these monitoring and associated reporting requirements.

- Responsible Party For all projects, a 24-hour responsible party shall be listed in the SWPPP, along with that person's telephone number and email address.
- Maintenance of the Construction SWPPP Keep the Construction SWPPP onsite or within
  reasonable access to the site. Modify the SWPPP whenever there is a change in the design,
  construction, operation, or maintenance at the construction site that has, or could have, a
  significant effect on the discharge of pollutants to waters of the state.
  Modify the SWPPP if, during inspections or investigations conducted by the owner/operator,
  City staff, or by local or state officials, it is determined that the SWPPP is ineffective in
  eliminating or significantly minimizing pollutants in stormwater discharges from the site.
  Modify the SWPPP as necessary to include additional or modified BMPs designed to correct

problems identified. Complete revisions to the SWPPP within seven (7) days following the inspection. City of Tacoma Environment Services (review staff or inspector) may require that a modification to the SWPPP go through additional City review.

The BMP(s) proposed to meet this element are:

☑ BMP C150: Materials on Hand
☑ BMP C160: Erosion and Sediment Control Lead
⊠ BMP C162: Scheduling
☐ Other: (Insert description of how element will be addressed)
$\Box$ This Element is not required for this project because: (Insert justification as to why Element is not
required)

# M. Element #13: Protect Permanent Stormwater BMPs

- Protect all permanent stormwater BMPs from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that drain into the BMPs. Restore all BMPs to their fully functioning condition if they accumulate sediment during construction. Sediment impacting Best Management Practices shall be removed before system start-up. Restoring the BMP shall include removal of all sediment and full replacement of treatment media.
- Prevent compacting infiltration facilities by excluding construction equipment and foot traffic.
- Keep all heavy equipment off native soils under infiltration BMPs that have been excavated to final grade to retain the infiltration rate of the soils.
- Protect lawn and landscaped areas from compaction due to construction equipment and material stockpiles.
- Do not allow muddy construction equipment on the base material of permeable pavement or on the permeable pavement section.
- Do not allow sediment laden runoff onto permeable pavements or base materials of permeable pavements.
- Permeable pavements fouled with sediment or that can no longer pass an initial infiltration test must be cleaned prior to final acceptance.

The BMP(s) proposed to meet this element are:

☐ Other: (Insert description of how element will be addressed)

☒ This Element is not required for this project because: There are no permanent stormwater facilities that need to be protected within 500 feet downstream of the project site.

# 3. Temporary Erosion and Sediment Control BMPs

Attach below only those BMPs (include the entirety of the BMP language) from Volume 3 of the SWMM that will be utilized onsite.

# 1.10 BMP C123: Plastic Covering

#### 1.10.1 Purpose

Plastic covering provides immediate, short-term erosion protection to slopes and disturbed areas.

#### 1.10.2 Conditions of Use

- Plastic covering may be used on disturbed areas that require cover measures for less than 30 days, except as stated below.
- · Plastic is particularly useful for protecting cut and fill slopes and stockpiles.
- The relatively rapid breakdown of most polyethylene sheeting makes it unsuitable for long-term (greater than six months) applications.
- Due to rapid runoff caused by plastic covering, this method shall not be used upslope of areas that might be adversely impacted by concentrated runoff. Such areas include steep and/or unstable slopes.
- Whenever plastic is used to protect slopes, water collection measures must be installed
  at the base of the slope. These measures include plastic-covered berms, channels, and
  pipes used to convey clean rainwater away from bare soil and disturbed areas. At no
  time is clean runoff from a plastic covered slope to be mixed with dirty runoff from a
  project.
- Other uses for plastic include:
  - · Temporary ditch liner;
  - Pond liner in temporary sediment pond;
  - Liner for bermed temporary fuel storage area if plastic is not reactive to the type of fuel being stored;
  - Emergency slope protection during heavy rains; and
  - Temporary conveyance used to direct stormwater and surface water.

#### 1.10.3 Design and Installation Specifications

Plastic slope cover must be installed as follows:

- Run plastic up and down slope, not across slope.
  - Plastic may be installed perpendicular to a slope if the slope length is less than 10 feet.
- · Minimum of 8-inch overlap at seams.
- · On long or wide slopes, or slopes subject to wind, all seams should be taped.
- Place plastic into a small (12-inch wide by 6-inch deep) slot trench at the top of the slope and backfill with soil to keep water from flowing underneath.
- Place sand filled burlap or geotextile bags every 3 to 6 feet along seams and pound a
  wooden stake through each to hold them in place. Alternative options for holding plastic
  in place exist and may be considered with COT approval.
- Inspect plastic for rips, tears, and open seams regularly and repair immediately. This
  prevents high velocity runoff from contacting bare soil, which causes extreme erosion;
- Plastic sheeting shall have a minimum thickness of 6 mil.

Volume 3 3 - 32 Chapter 1

• If erosion at the toe of a slope is likely, a gravel berm, riprap, or other suitable protection shall be installed at the toe of the slope in order to reduce the velocity of runoff.

#### 1.10.4 Maintenance Standards

- · Torn sheets must be replaced and open seams repaired.
- If the plastic begins to deteriorate due to ultraviolet radiation, it must be completely removed and replaced.
- · When the plastic is no longer needed, it shall be completely removed.
- · Properly dispose of products used to weigh down covering.

#### 1.17 BMP C140: Dust Control

#### **1.17.1 Purpose**

Dust control prevents wind transport of dust from disturbed soil surfaces.

#### 1.17.2 Conditions of Use

Use dust control practices in areas (including roadways) subject to surface and air movement of dust where onsite and offsite impacts to streets, the stormwater system, or receiving waterbodies are likely.

#### 1.17.3 Design and Installation Specifications

- Vegetate or mulch areas that will not receive vehicle traffic. In areas where planting, mulching, or paving is impractical, apply gravel or landscaping rock.
- Limit dust generation by clearing only to those areas where immediate activity will take
  place, leaving the remaining area(s) in the original condition, if stable. Maintain the
  original ground cover as long as practical.
- Construct natural or artificial windbreaks or windscreens. These may be designed as enclosures for small dust sources.
- Sprinkle the site with water until surface is wet. Repeat as needed. To prevent carryout
  of mud onto street, refer to Stabilized Construction Entrance (BMP C105: Stabilized
  Construction Entrance/Exit).
- Irrigation water can be used for dust control. Install irrigation systems as a first step on sites where dust control is a concern.
- Spray exposed soil areas with a dust palliative, following the manufacturer's instructions
  and cautions regarding handling and application. Used oil is prohibited from use as a
  dust suppressant.
- PAM (BMP C127: Polyacrylamide for Soil Erosion Protection) added to water at a rate of 2/3 pounds per 1,000 gallons of water per acre and applied from a water truck is more effective than water alone. This is due to the increased infiltration of water into the soil and reduced evaporation. In addition, small soil particles are bonded together and are not as easily transported by wind. Adding PAM may actually reduce the quantity of water needed for dust control. There are concerns with the proper use of PAM, refer to BMP C127: Polyacrylamide for Soil Erosion Protection for more information on PAM application. PAM use requires COT approval.
- Lower speed limits. High vehicle speed increases the amount of dust stirred up from unpaved roads and lots.
- Upgrade the road surface strength by improving particle size, shape, and mineral types that make up the surface and base materials.
- Add surface gravel to reduce the source of dust emission. Limit the amount of fine particles to 10 to 20 percent.
- Use geotextile fabrics to increase the strength of new roads or roads undergoing reconstruction.
- · Encourage the use of alternate, paved routes, if available.
- Restrict use of paved roadways by tracked vehicles and heavy trucks to prevent damage to road surfaces and bases.

Volume 3 3 - 48 Chapter 1

 Apply chemical dust suppressants using the admix method, blending the product with the top few inches of surface material. Suppressants may also be applied as surface treatments.

- · Pave unpaved permanent roads and other trafficked areas.
- · Use vacuum street sweepers.
- · Remove mud and other dirt promptly so it does not dry and then turn into dust.
- · Limit dust-causing work on windy days.
- Contact the Puget Sound Clean Air Agency for guidance and training on other dust control measures. Compliance with the Puget Sound Clean Air Agency's recommendations/requirements constitutes compliance with this BMP.

# 1.17.4 Maintenance Standards

Evaluate the potential for dust generation frequently during dry periods. Complete the actions outlined above as needed to limit the dust.

Any dust which leaves the site must be cleaned immediately.

# 1.18 BMP C150: Materials On Hand

#### 1.18.1 Purpose

Quantities of erosion prevention and sediment control materials should be kept on the project site at all times to be used for regular maintenance and emergency situations such as unexpected heavy summer rains. Having these materials onsite reduces the time needed to implement BMPs when inspections indicate that existing BMPs are not meeting the Construction SWPPP requirements.

#### 1.18.2 Conditions of Use

Construction projects of any size or type can benefit from having materials on hand. A small commercial development project could have a roll of plastic and some gravel available for immediate protection of bare soil and temporary berm construction. A large earthwork project, such as highway construction, might have several tons of straw, several rolls of plastic, flexible pipe, sandbags, geotextile fabric, and steel "T" posts.

- Materials are stockpiled and readily available before any site clearing, grubbing, or earthwork begins. A large contractor or developer could keep a stockpile of materials that are available to be used on several projects.
- If storage space at the project site is at a premium, the contractor could maintain the materials at a location less than one hour from the project site.

#### 1.18.3 Design and Installation Specifications

Depending on project type, size, complexity, and length, materials and quantities will vary. Table 3 - 10: Materials on Hand, provides a good minimum that will cover numerous situations.

Material	Measure	Quantity
Clear Plastic, 6 mil	100 foot roll	1-2
Drain Pipe, 6 or 8 inch diameter	25 foot section	4-6
Sandbags, filled	each	25-50
Quarry Spalls	ton	2-4
Washed Gravel	cubic yard	2-4
Geotextile Fabric	100 foot roll	1-2
Catch Basin Inserts	each	2-4
Steel "T" Posts	each	12-24

Table 3 - 10: Materials on Hand

# 1.18.4 Maintenance Standards

- All materials with the exception of the quarry spalls, steel "T" posts, and gravel should be kept covered and out of both sun and rain.
- · Re-stock materials used as needed.

Volume 3 3 - 50 Chapter 1

# 1.21 BMP C153: Material Delivery, Storage and Containment

#### **1.21.1 Purpose**

Prevent, reduce, or eliminate the discharge of pollutants from material delivery and storage to the stormwater system or watercourses by minimizing the storage of hazardous materials onsite, storing materials in a designated area, and installing secondary containment.

# 1.21.2 Conditions of Use

These procedures are suitable for use at all construction sites with delivery and storage of the following materials:

- · Petroleum products such as fuel, oil, and grease
- Soil stabilizers and binders (e.g. Polyacrylamide)
- · Fertilizers, pesticides, and herbicides
- Detergents
- · Asphalt and concrete compounds
- Hazardous chemicals such as acids, lime, adhesives, paints, solvents, and curing compounds
- · Any other material that may be detrimental if released to the environment

#### 1.21.3 Design and Installation Specifications

The following steps should be taken to minimize risk:

- Locate temporary storage area away from vehicular traffic, near the construction entrance(s), and away from conveyance systems and receiving waterbodies.
- Supply Material Safety Data Sheets (MSDS) for all materials stored. Keep chemicals in their original labeled containers.
- Surrounding materials with earth berms is an option for temporary secondary containment.
- · Minimize hazardous material storage onsite.
- Handle hazardous materials as infrequently as possible.
- During the wet weather season (October 1 through April 30), consider storing materials in a covered area.
- Store materials in secondary containment, such as an earthen dike, a horse trough, or a
  children's wading pool for non-reactive materials such as detergents, oil, grease, and
  paints. "Bus boy" trays or concrete mixing trays may be used as secondary containment
  for small amounts of material.
- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items on a pallet and, when possible, in secondary containment.
- If drums cannot be stored under a roof, domed plastic covers are inexpensive and snap to the top of drums, preventing water from collecting.

Volume 3 3 - 54 Chapter 1

#### 1.21.4 Material Storage Areas and Secondary Containment Practices:

- Store liquids, petroleum products, and substances listed in 40 CFR Parts 110, 117, or 302 in approved containers and drums and do not overfill the containers or drums. Store containers and drums in temporary secondary containment facilities.
- Temporary secondary containment facilities shall provide for a spill containment volume able to contain precipitation from a 25 year, 24 hour storm event plus 10% of the total enclosed container volume of all containers, or 110% of the capacity of the largest container within its boundary, whichever is greater.
- Secondary containment facilities shall be impervious to the materials stored therein for a minimum contact time of 72 hours.
- Secondary containment facilities shall be maintained free of accumulated rainwater and spills. In the event of spills or leaks, collect accumulated rainwater and spills and place into drums. Handle these liquids as hazardous waste unless testing determines them to be non-hazardous. Dispose of all wastes properly.
- Provide sufficient separation between stored containers to allow for spill cleanup and emergency response access.
- During the wet weather season (October 1 through April 30), cover each secondary containment facility during non-working days, prior to and during rain events.
- Keep material storage areas clean, organized, and equipped with an ample supply of appropriate spill clean-up material.
- · The spill kit should include, at a minimum:
  - 1 water resistant nylon bag
  - 3 oil absorbent socks (3-inches by 4-feet)
  - 2 oil absorbent socks (3-inches by 10-feet)
  - 12 oil absorbent pads (17-inches by 19-inches)
  - 1 pair splash resistant goggles
  - 3 pairs nitrile gloves
  - 10 disposable bags with ties
  - Instructions

#### 1.21.5 Maintenance Standards

Any stormwater within the material storage area shall be pumped or otherwise discharged after each rain event. Before pumping, the stormwater must be evaluated to determine if it must go to treatment or can be discharged without treatment. If stormwater is contaminated, direct the discharge to appropriate treatment.

Restock spill kit materials as needed.

### 1.20 BMP C152: Sawcutting and Surfacing Pollution Prevention

#### 1.20.1 Purpose

Sawcutting and surfacing operations generate slurry and process water that contains fine particles and high pH (concrete cutting), both of which can violate water quality standards in the receiving water. This BMP is intended to minimize and eliminate process water and slurry from entering waters of the State

#### 1.20.2 Conditions of Use

Anytime sawcutting or surfacing operations take place, use these management practices. Sawcutting and surfacing operations include, but are not limited to, the following:

- Sawing
- Coring
- Grinding
- Roughening
- Hydro-demolition
- · Bridge and road surfacing

#### 1.20.3 Design and Installation Specifications

- · Vacuum slurry and cuttings during cutting and surfacing operations.
- · Do not leave slurry and cuttings on permanent concrete or asphalt pavement overnight.
- Do not allow slurry and cuttings to enter any natural or constructed conveyance system.
- Dispose of collected slurry and cuttings in a manner that does not violate groundwater or surface water quality standards.
- Do not allow process water that is generated during hydro-demolition, surface roughening, or similar operations to enter any natural or constructed conveyance system.
   Dispose of process water in a manner that does not violate groundwater or surface water quality standards.
- Handle and dispose of cleaning waste material and demolition debris in a manner that
  does not cause contamination of water. If the area is swept with a pick-up sweeper, haul
  the material out of the area to an appropriate disposal site.

#### 1.20.4 Maintenance Standards

Continually monitor operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and vacuum trucks.

Chapter 1 3 - 53 Volume 3

#### 1.23 BMP C160: Erosion and Sediment Control Lead

#### 1.23.1 Purpose

The project proponent must designate at least one person as the responsible representative in charge of erosion and sediment control (ESC) and water quality protection. The designated person shall be the erosion and sediment control (ESC) lead, who is responsible for ensuring compliance with all local, state, and federal erosion and sediment control and water quality requirements.

#### 1.23.2 Conditions of Use

- · An erosion and sediment control contact is required for all project sites.
- A certified erosion and sediment control lead (CESCL) or certified professional in erosion and sediment control (CPESC) is required on projects that include, but are not limited to:
  - Construction activity that disturbs one acre of land or more.
- Projects disturbing less than one acre must have an Erosion Sediment Control Lead (ESC) conduct inspections. The ESC Lead does not have to have CESCL or CPESC certification.
- The CESCL, CPESC, or ESC Lead shall be identified in the SWPPP and shall be onsite or on-call at all times.
- The CESCL, CPESC, or ESC Lead must be knowledgeable in the principles and practices of erosion and sediment control and have the skills to assess:
  - Site conditions and construction activities that could impact the quality of stormwater.
  - Effectiveness of erosion and sediment control measures used to control the quality of stormwater discharges.

# 1.23.3 Specifications

- · The CESCL lead shall:
  - Have a current certified erosion and sediment control lead (CESCL) certificate
    proving attendance in an erosion and sediment control training course that meets the
    minimum ESC training and certification requirements established by Ecology.
- For additional information concerning the Certified Professional in Erosion and Sediment Control program please go to <a href="https://envirocertintl.org/cpesc/">https://envirocertintl.org/cpesc/</a>.
- The ESC lead shall have authority to act on behalf of the contractor or developer and shall be available, on call, 24 hours per day throughout the period of construction.
- The Construction SWPPP shall include the name, telephone number, email, and address
  of the designated ESC lead.
- An ESC lead may provide inspection and compliance services for multiple construction projects in the same geographic region.
- Duties and responsibilities of the ESC lead shall include, but are not limited to, the following:
  - Inspecting all areas disturbed by construction activities, all BMPs and all locations where runoff leaves the site at least once every calendar week and within 24 hours of

Volume 3 3 - 62 Chapter 1

- any discharge from the site. The ESC lead may reduce the inspection frequency for temporary stabilized, inactive sites to monthly.
- Examining stormwater visually for the presence of suspended sediment, turbidity, discoloration, and oil sheen.
- Evaluating the effectiveness of BMPs.
- Maintaining a permit file onsite at all times which includes the SWPPP and any associated permits and plans.
- o Directing BMP installation, inspection, maintenance, modification, and removal.
- Updating all project drawings and the Construction SWPPP with changes made.
- Keeping daily logs and inspection reports. Inspection reports should include:
  - Inspection date/time.
  - Weather information, general conditions during inspection, and approximate amount of precipitation since the last inspection.
  - A summary or list of all BMPs implemented, including observations of all erosion/sediment control structures or practices. The following shall be noted:
    - Locations of BMPs inspected,
    - Locations of BMPs that need maintenance.
    - Locations of BMPs that failed to operate as designed or intended, and
    - Locations where additional or different BMPs are required.
  - Visual monitoring results, including a description of discharged stormwater. The presence of suspended sediment, turbid water, discoloration, and oil sheen shall be noted, as applicable.
  - · Any water quality monitoring performed during inspection.
  - General comments and notes, including a brief description of any BMP repairs, maintenance, or installations made as a result of the inspection.
- Facilitate, participate in, and take corrective actions resulting from inspections performed by outside agencies or the owner.
- Keep an inventory of equipment onsite.

# 1.24 BMP C162: Scheduling

#### 1.24.1 Purpose

Sequencing a construction project reduces the amount and duration of soil exposed to erosion.

#### 1.24.2 Conditions of Use

The construction sequence schedule is an orderly listing of all major land-disturbing activities together with the necessary erosion and sediment control measures planned for the project. This type of schedule guides the contractor on work to be done before other work is started so serious erosion and sedimentation problems can be avoided.

Following a specified work schedule that coordinates the timing of land-disturbing activities and the installation of control measures is perhaps the most cost-effective way of controlling erosion during construction. The removal of surface ground cover leaves a site vulnerable to accelerated erosion. Construction procedures that limit land clearing, provide timely installation of erosion and sedimentation controls, and restore protective cover quickly can significantly reduce the erosion potential of a site.

# 1.24.3 Design Considerations

- Minimize construction during rainy periods.
- Schedule projects to disturb only small portions of the site at any one time. Complete
  grading as soon as possible. Immediately stabilize the disturbed portion before grading
  the next portion. Practice staged seeding in order to revegetate cut and fill slopes as the
  work progresses.

Volume 3 3 - 64 Chapter 1

# 1.35 BMP C220: Stormwater System Inlet Protection

#### 1.35.1 Purpose

To prevent coarse sediment from entering stormwater systems prior to permanent stabilization of the disturbed area.

#### 1.35.2 Conditions of Use

- Use where inlets are to be made operational before permanent stabilization of the disturbed area.
- Provide protection for all stormwater system inlets downslope and within 500 feet of a
  disturbed or construction area, unless those inlets are preceded by another sediment
  trapping device.
- Table 3 11: Stormwater System Inlet Protection lists several options for inlet protection.
   All of the methods for stormwater system inlet protection are prone to plugging and require a high frequency of maintenance. Contributing areas should be limited to 1 acre or less. Emergency overflows may be required where stormwater ponding would cause a hazard. If an emergency overflow is provided, additional end-of-pipe treatment may be required.

Applicable for Type of Inlet **Emergency** Paved/ **Conditions of Use** Protection Overflow Earthen Surfaces Applicable for heavy flows. Easy to Excavated drop inlet Yes, temporary Earthen maintain. Large area requirement: protection flooding will occur 30' x 30' per acre. Block and gravel drop Paved or Applicable for heavy concentrated Yes flows. Will not pond. earthen Applicable for heavy concentrated Gravel and mesh filter No Paved flows. Will pond. Can withstand traffic. Paved or Catch basin filters Yes Frequent maintenance required. earthen Curb inlet protection with Small capacity Used for sturdy, more compact Paved a wooden weir overflow installation. Block and gravel curb Yes Earthen Sturdy, but limited filtration. inlet protection Culvert inlet sediment 18-month expected life. trap

Table 3 - 11: Stormwater System Inlet Protection

# 1.35.3 Design and Installation Specifications

#### **Excavated Drop Inlet Protection**

 An excavated impoundment around the inlet. Sediment settles out of the stormwater prior to entering the stormwater conveyance system..

Chapter 1 3 - 91 Volume 3

Provide depth of 1 to 2 feet, as measured from the crest of the inlet structure.

- Slope sides of excavation no steeper than 2H:1V.
- Minimum volume of excavation 35 cubic yards.
- Shape excavation to fit site with longest dimension oriented toward the longest inflow area.
- Install provisions for collection and conveyance to prevent standing water problems.
- · Clear the area of all debris.
- · Grade the approach to the inlet uniformly.
- · Drill weep holes into the side of the inlet.
- · Protect weep holes with screen wire and washed aggregate.
- Seal weep holes when removing structure and stabilizing area.
- It may be necessary to build a temporary dike to the down slope side of the structure to prevent bypass flow.

#### Block and Gravel Filter

- A block and gravel filter is a barrier formed around the stormwater system inlet with standard concrete blocks and gravel. See Figure 3 - 17: Drop Inlet with Block and Gravel Filter
- Provide a height 1 to 2 feet above inlet.
- Recess the first row 2 inches into the ground for stability.
- · Support subsequent courses by placing a piece of 2x4 lumber through the block opening.
- · Do not use mortar.
- · Lay some blocks in the bottom row on their side for dewatering the pool.
- Place hardware cloth or comparable wire mesh with ½-inch openings over all block openings.
- · Place gravel just below the top of blocks on slopes of 2H:1V or flatter.
- An alternative design is a gravel berm surrounding the inlet with the following characteristics:
  - Provide an inlet slope of 3H:1V.
  - Provide an outlet slope of 2H:1V.
  - Provide a 1-foot wide level stone area between the structure and the inlet.
  - Use inlet slope stones 3 inches in diameter or larger.
  - For outlet slope use gravel ½- to ¾-inch at a minimum thickness of 1-foot.

# Gravel and Wire Mesh Filter

- A gravel and wire mesh filter is a gravel barrier placed over the top of the inlet (see ). This structure does not provide an overflow.
- Use a hardware cloth or comparable wire mesh with 1/2-inch openings.

Volume 3 3 - 92 Chapter 1

 Place wire mesh over the drop inlet so that the wire extends a minimum of 1-foot beyond each side of the inlet structure.

- Overlap the strips if more than one strip of mesh is necessary.
- · Place coarse aggregate over the wire mesh.
  - Provide at least a 12-inch depth of aggregate over the entire inlet opening and extend at least 18-inches on all sides.

#### Catch Basin Filters

- Inserts (Figure 3 19: Catch Basin Filter) shall be designed by the manufacturer for use at
  construction sites. The limited sediment storage capacity increases the frequency of
  inspection and maintenance required, which may be daily for heavy sediment loads. The
  maintenance requirements can be reduced by combining a catch basin filter with another
  type of inlet protection. This type of inlet protection provides flow bypass without overflow
  and therefore may be a better method for inlets located along active rights-of-way.
- Provide a minimum of 5 cubic feet of storage.
- · Requires dewatering provisions.
- Provide a high-flow bypass that will not clog under normal use at a construction site.
- · The catch basin filter is inserted in the catch basin just below the grating.

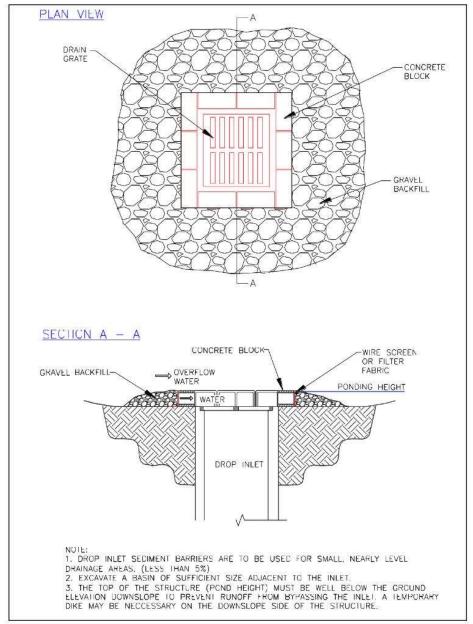


Figure 3 - 17: Drop Inlet with Block and Gravel Filter

Volume 3 3 - 94 Chapter 1

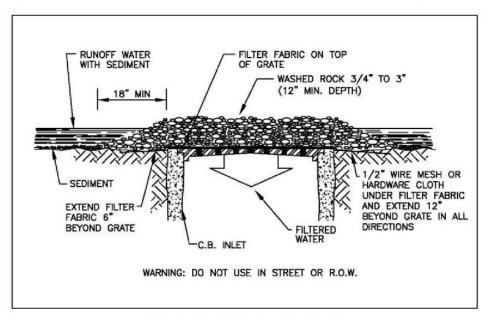


Figure 3 - 18: Gravel and Wire Mesh Filter

July 2021 SWMM City of Tacoma

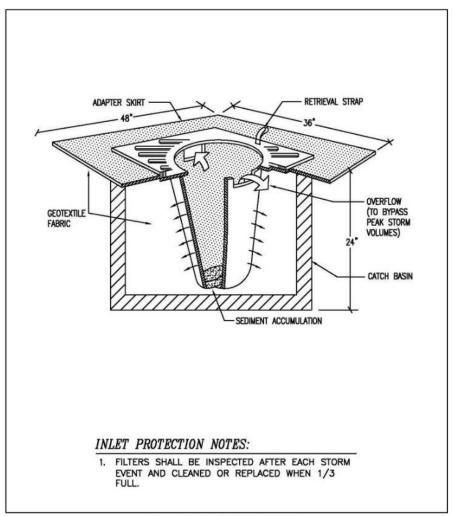


Figure 3 - 19: Catch Basin Filter

City of Tacoma July 2021 SWMM

### Curb Inlet Protection with Wooden Weir

Barrier formed around a curb inlet with a wooden frame and gravel.

- Use wire mesh with ½-inch openings.
- Use extra strength filter cloth.
- Construct a frame.
- · Attach the wire and filter fabric to the frame.
- Pile coarse washed aggregate against the wire and fabric.
- · Place weight on frame anchors.

### Block and Gravel Curb Inlet Protection

Barrier formed around an inlet with concrete blocks and gravel. See Figure 3 - 20: Block and Gravel Curb Inlet Protection.

- Use wire mesh with ½-inch openings.
- Place two concrete blocks on their sides abutting the curb at either side of the inlet opening. These are spacer blocks.
- Place a 2x4 stud through the outer holes of each spacer block to align the front blocks.
- · Place blocks on their sides across the front of the inlet and abutting the spacer blocks.
- · Place wire mesh over the outside vertical face.
- · Pile coarse aggregate against the wire to the top of the barrier.

July 2021 SWMM City of Tacoma

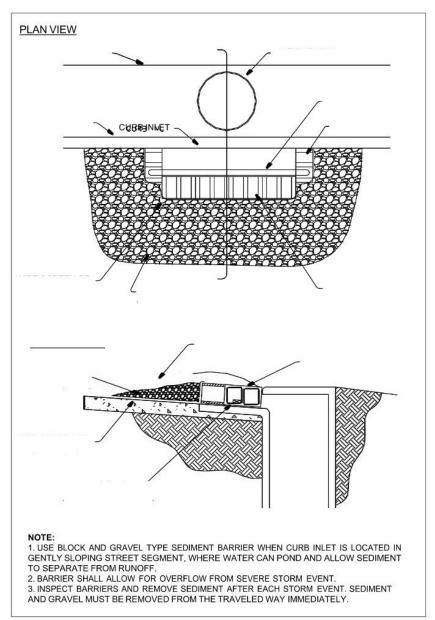


Figure 3 - 20: Block and Gravel Curb Inlet Protection

Volume 3 3 - 98 Chapter 1

City of Tacoma July 2021 SWMM

### **Curb and Gutter Sediment Barrier**

Sandbag or rock berm (riprap and aggregate) 3 feet high and 3 feet wide in a horseshoe shape. See Figure 3 - 21: Curb and Gutter Sediment Barrier.

- Construct a horseshoe shaped berm, faced with coarse aggregate if using riprap, 3 feet high and 3 feet wide, at least 2 feet from the inlet.
- Construct a horseshoe shaped sedimentation trap on the outside of the berm sized to sediment trap standards for protecting a culvert inlet.

### 1.35.4 Maintenance Standards

- Inspect inlet protection frequently, especially after storm events. If the insert becomes clogged, clean or replace it.
- For systems using stone filters: If the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill and put fresh stone around the inlet.
- Do not wash sediment into the stormwater system while cleaning. Spread all excavated
  material evenly over the surrounding land area or stockpile and stabilize as appropriate.
- · Do not allow accumulated sediment to enter the stormwater system.
- Inlet protection shall be removed when area is fully stabilized and erosion and sediment controls are no longer needed.

Chapter 1 3 - 99 Volume 3

July 2021 SWMM City of Tacoma

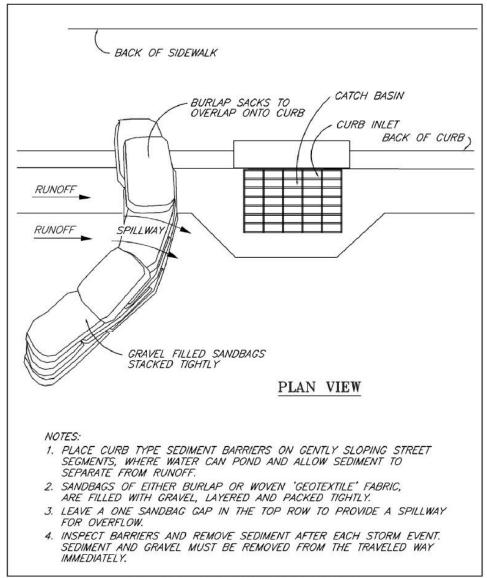
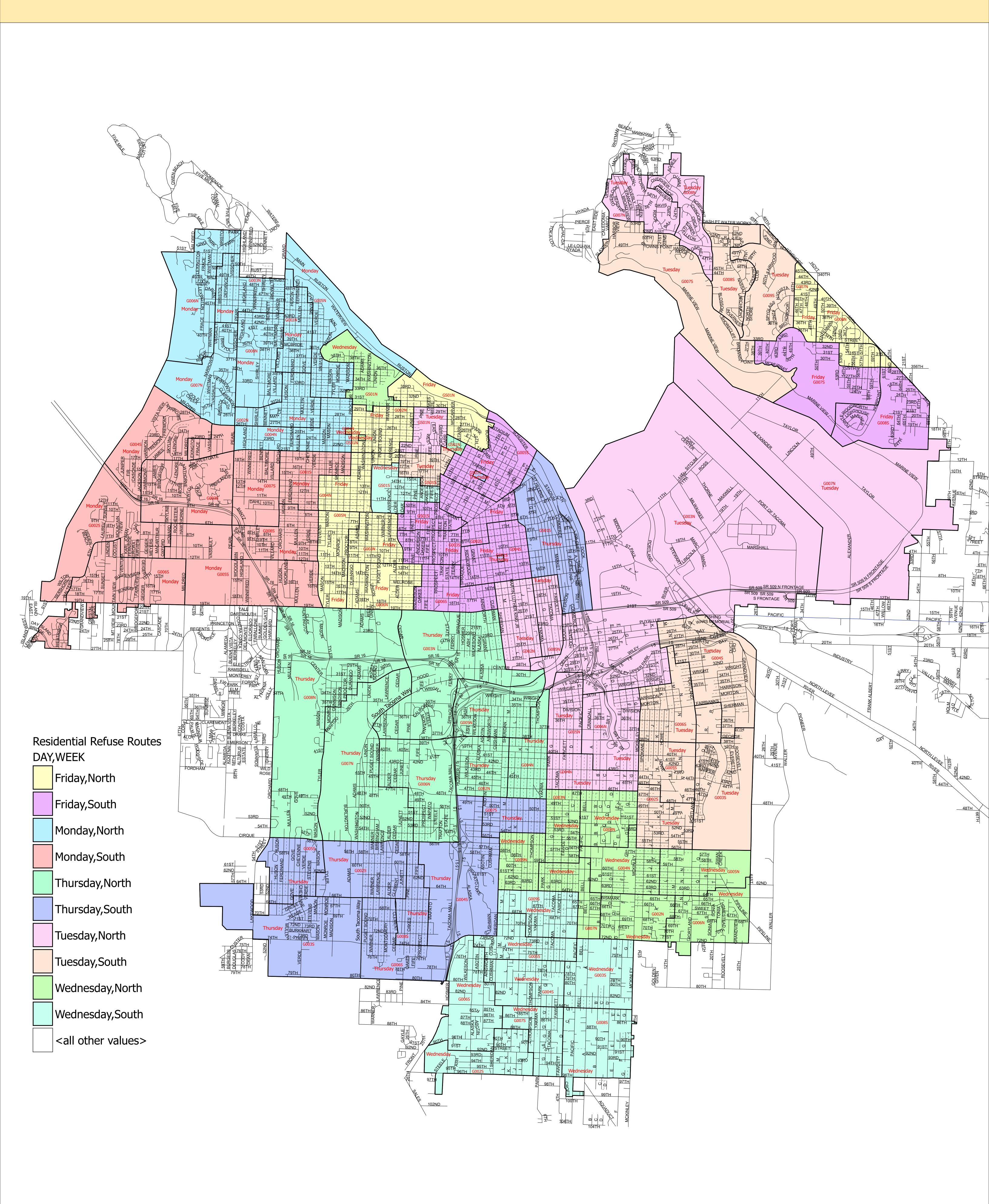


Figure 3 - 21: Curb and Gutter Sediment Barrier

Volume 3 3 - 100 Chapter 1

## APPENDIX D CITY OF TACOMA GARBAGE, RECYCLING AND YARD WASTE PICK UP MAP

### Residential Refuse Routes



### APPENDIX E 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

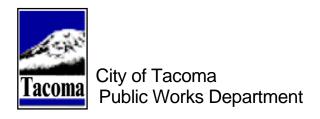
### TRAFFIC CONTROL PLAN INSTRUCTIONS

- 1) To create a traffic control plan, go to <a href="www.govME.com">www.govME.com</a>
- 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 <u>Pedestrian and Disability access.</u>
- 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.



### **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 <u>Part VI of The Manual on Uniform Traffic Control Devices</u> (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.

- All traffic control devices must meet the requirements established by the Manual on Uniform Traffic Control Devices.
- 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.
- 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.
- 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.
- 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	
<b>Durham School Services</b>		475-0422	
First Students		272-7799	
<b>UWT Facilities Services</b>		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: <a href="https://bookstore.transportation.org/">https://bookstore.transportation.org/</a>

Institute of Traffic Engineers at: <a href="http://www.ite.org/bookstore/index.asp">http://www.ite.org/bookstore/index.asp</a> American Traffic Safety Services Association at: <a href="http://www.atssa.com/">http://www.atssa.com/</a>

### 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

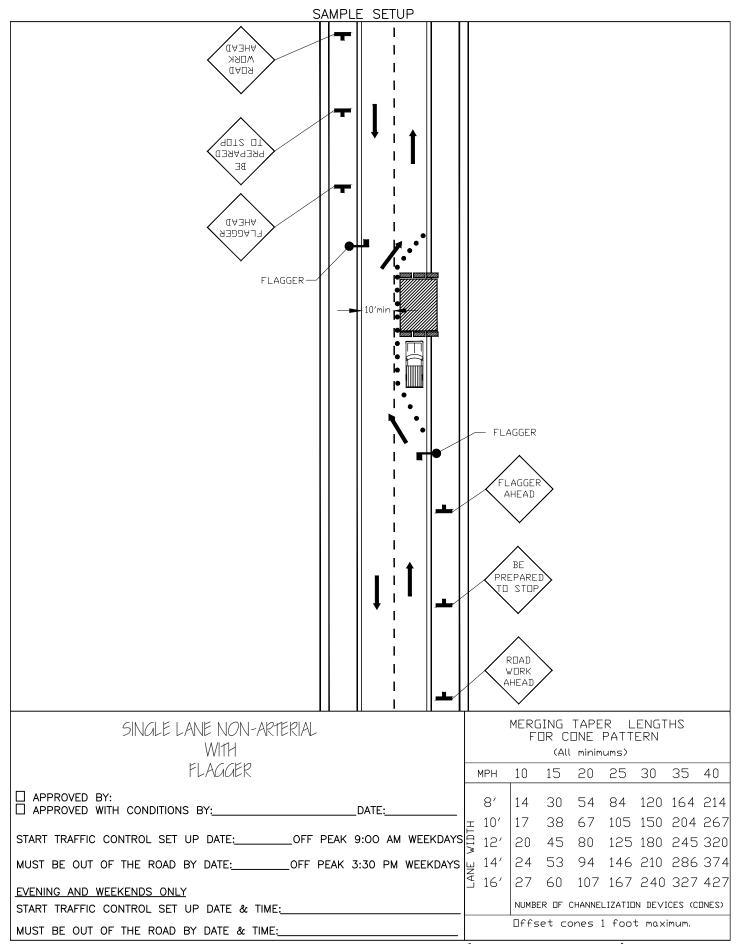
SAMPLE SETUP Note: At night, signage and barricades must be Type C ROAD WORK steady burn lights. A contractor AHEAD may close a nonarterial street to through traffic, provided that local access is maintained DCAL ACCESS DNL at all times with a minimum of a испоев 20' wide access lane. Road Work Ahead signs may be eliminated on non-arterial ROAD CLOSED streets. RUAD CLUSED \_OCAL ACCESS ONL' ROAD WORK AHEAD MERGING TAPER LENGTHS NON-ARTERIAL FOR CONE PATTERN ROAD CLOSURES (All minimums) 15 20 25 30 35 40 MPH 10 ☐ APPROVED BY: 8′ 14 30 54 84 120 164 214 ☐ APPROVED WITH CONDITIONS BY:\_\_\_\_\_ DATE: 105 150 204 267 10′ 17 38 67 START TRAFFIC CONTROL SET UP DATE:\_\_\_\_\_OFF PEAK 9:00 AM WEEKDAYS 12' 20 80 125 180 245 320 45 MUST BE OUT OF THE ROAD BY DATE:\_\_\_\_\_OFF PEAK 3:30 PM WEEKDAYS 14′ 24 94 146 210 286 374 16′ 107 167 240 327 427 EVENING AND WEEKENDS ONLY NUMBER OF CHANNELIZATION DEVICES (CONES) START TRAFFIC CONTROL SET UP DATE & TIME:\_ 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 THANKSGWING 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.

MUST BE OUT OF THE ROAD BY DATE & TIME:



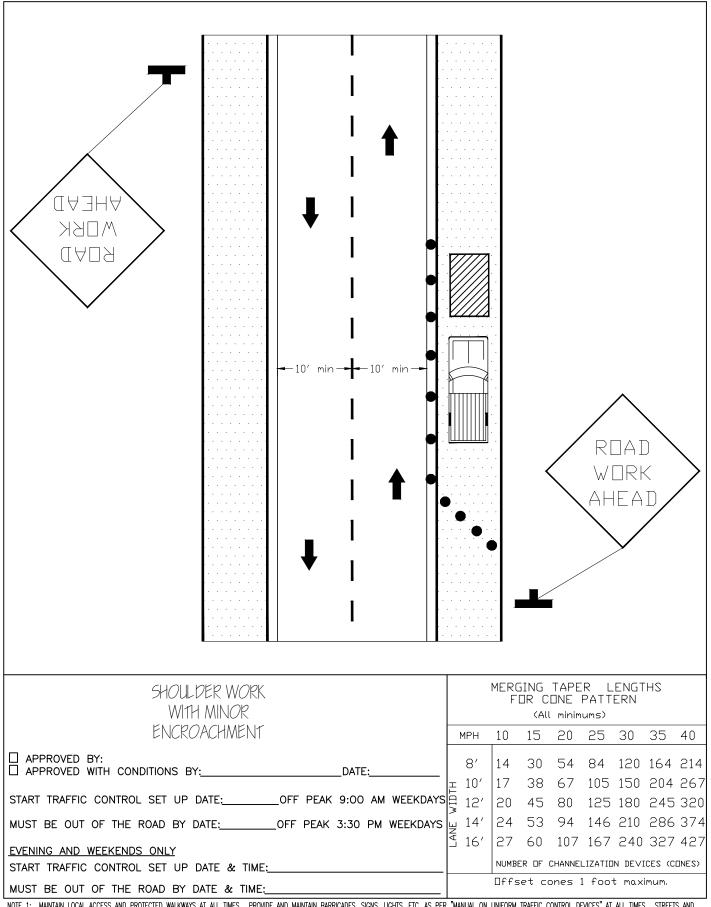
NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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							
			RIGHT LANE CLOSED					
11		_						
		=	$\wedge$					
	#   #   #   #   #   #   #   #   #   #	=						
			ROAD	_				
		$\overline{}$	WORK ADEAD					
		_						
		_ =						
		_						
		_						
		<u> </u>						
CBD	<del>- 1 - 11 - 1 - 1</del>		MERGI	ING TAPI	ER L	.ENGT	HS	
RIGHT LANE			FD	R CONE (All mini		ERN		
CL <i>O</i> SURE		MPH	10	15 20	25	30	35	40
☐ APPROVED BY: ☐ APPROVED WITH CONDITIONS BY:	DATE:	8′ - 10′		30 54 38 67			164	
START TRAFFIC CONTROL SET UP DATE:  MUST BE OUT OF THE ROAD BY DATE:	OFF PEAK 9:00 AM WEEKDAYS	12'		45 80			245	
MUST BE OUT OF THE ROAD BY DATE:	OFF PEAK 3:30 PM WEEKDAYS	호 및 14'		53 94				
EVERTING THE WEEKENDO ONE	l <sup>5</sup> 16′		60 107					
START TRAFFIC CONTROL SET UP DATE & TIM			t cones				UNF2)	
MUST BE OUT OF THE ROAD BY DATE & TIM	t:	I						

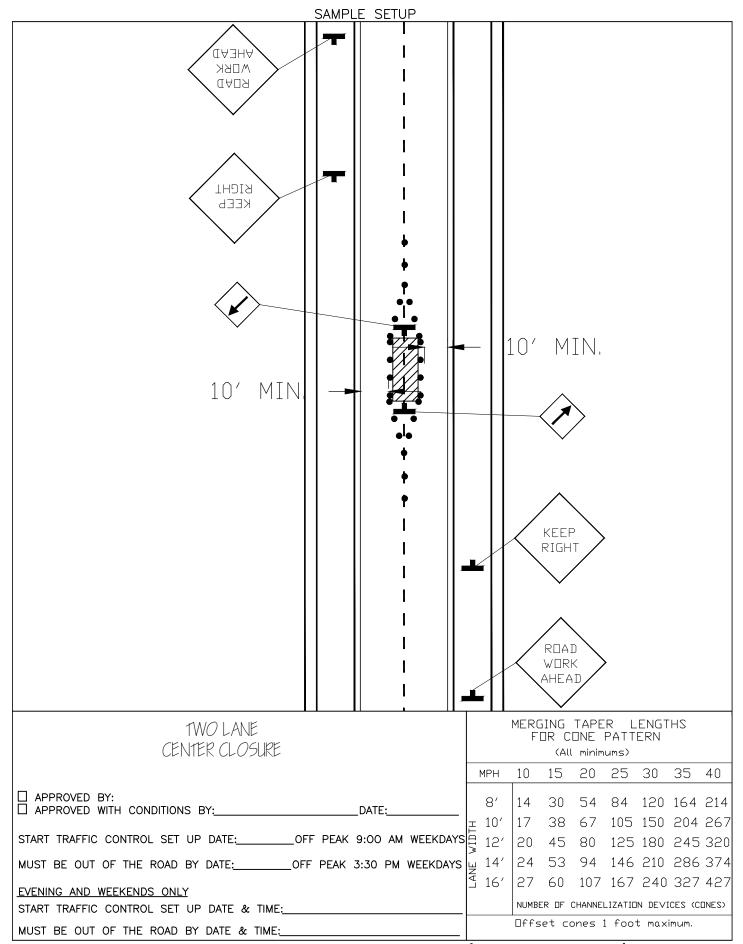
NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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.



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 EXTING 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.

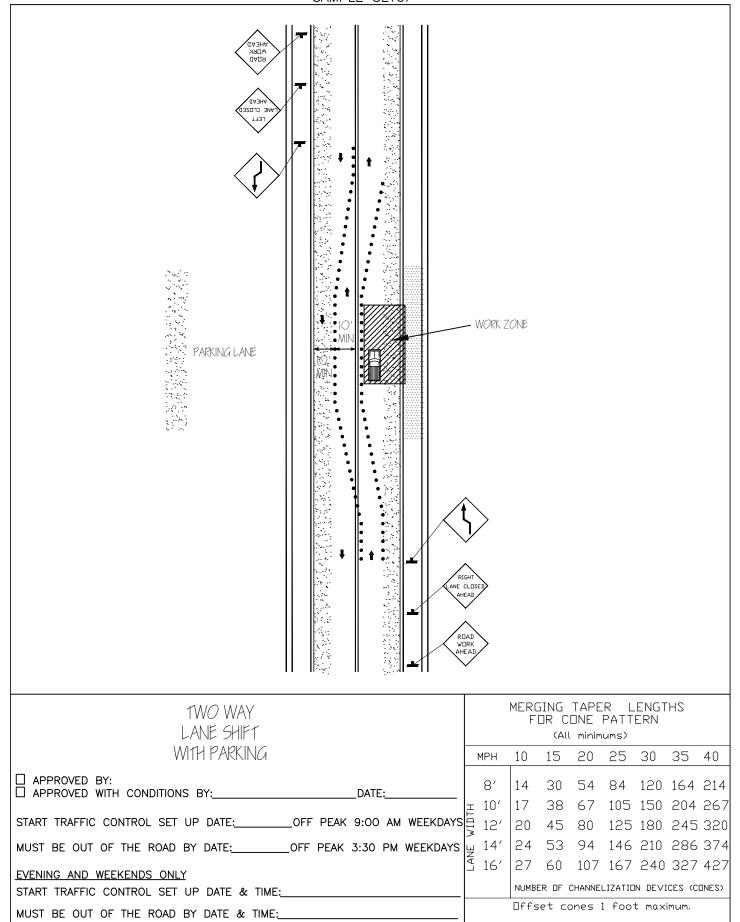
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



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 350' APART.



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 EXTING 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.

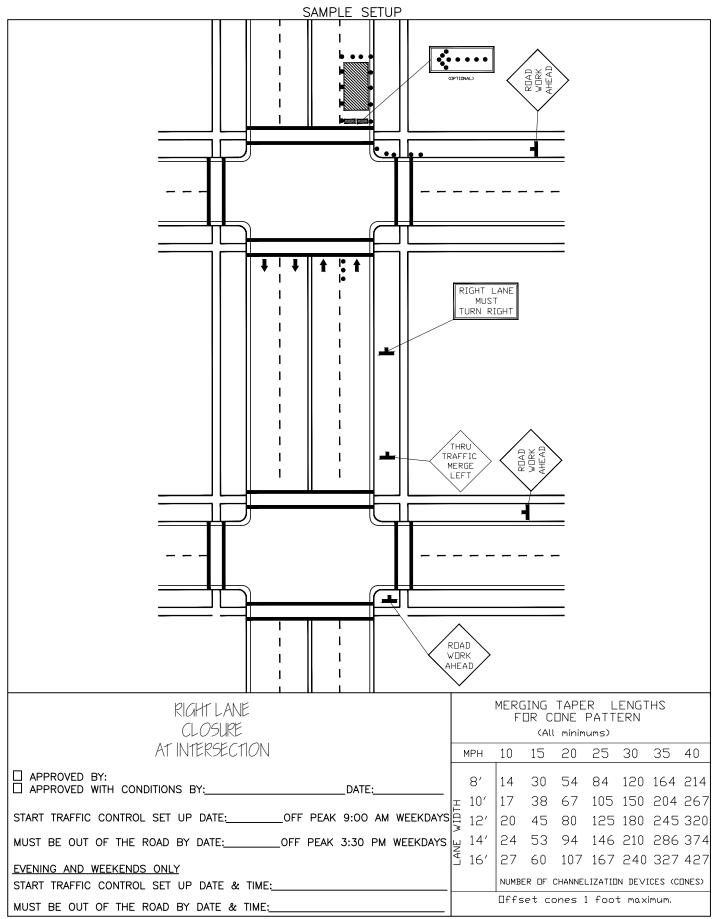
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP √0Rk ZONE RIGHT LANE W20 CLOSED AHFAD ROAD W20 WORK AHEAD RIGHT LANE MERGING TAPER LENGTHS FOR CONE PATTERN CLOSURE (All minimums) 15 20 25 30 35 40 MPH 10 ☐ APPROVED BY: 8′ 54 84 120 164 214 14 30 ☐ APPROVED WITH CONDITIONS BY:\_\_\_\_\_ \_DATE:\_ 10' 17 38 67 105 150 204 267 START TRAFFIC CONTROL SET UP DATE:\_\_\_\_\_OFF PEAK 9:00 AM WEEKDAYS 12' 20 45 80 125 180 245 320 MUST BE OUT OF THE ROAD BY DATE:\_\_\_\_\_OFF PEAK 3:30 PM WEEKDAYS 14′ 24 53 94 146 210 286 374 16′ 60 107 167 240 327 427 EVENING AND WEEKENDS ONLY NUMBER OF CHANNELIZATION DEVICES (CONES) START TRAFFIC CONTROL SET UP DATE & TIME:\_ Offset cones 1 foot maximum. 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 THANKSGWING DAY THROUGH NEW YEAR'S DAY.

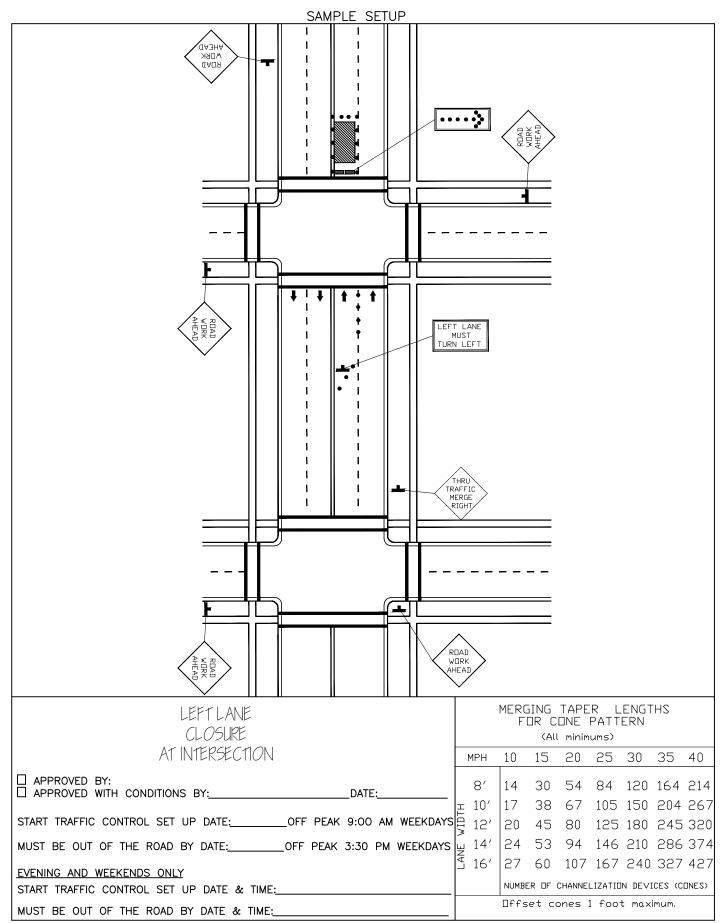
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



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 THANKSGWING DAY THROUGH NEW YEAR'S DAY.

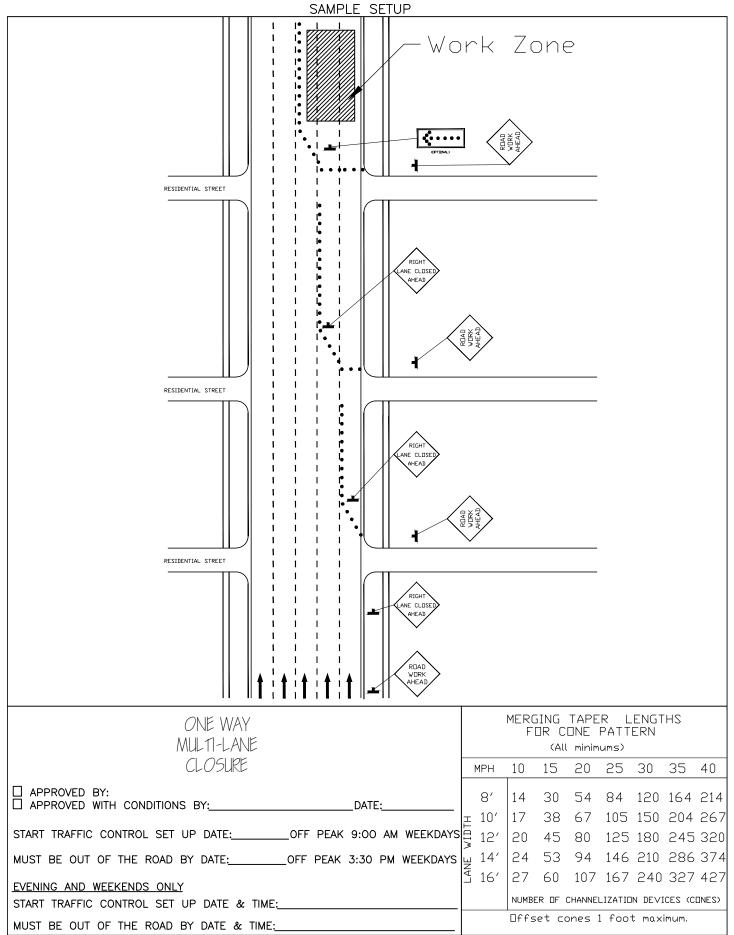
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



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 THANKSGWING DAY THROUGH NEW YEAR'S DAY.

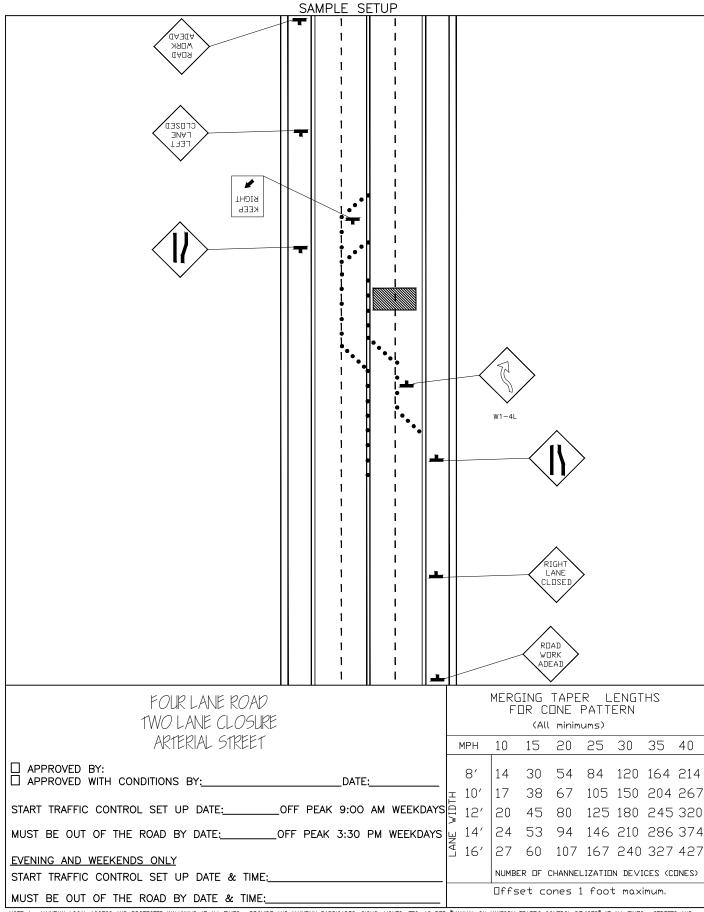
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MAINTAIN ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXTING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 3: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSCIVING DAY THROUGH NEW YEAR'S DAY.

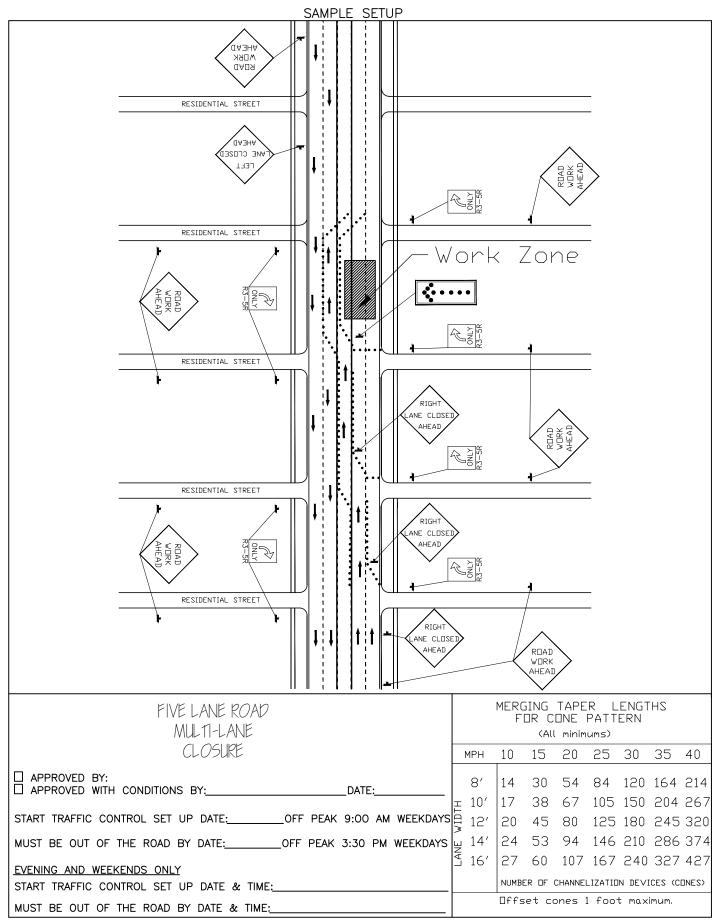
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



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 EXTING 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 THANKSCHING DAY THROUGH NEW YEAR'S DAY.

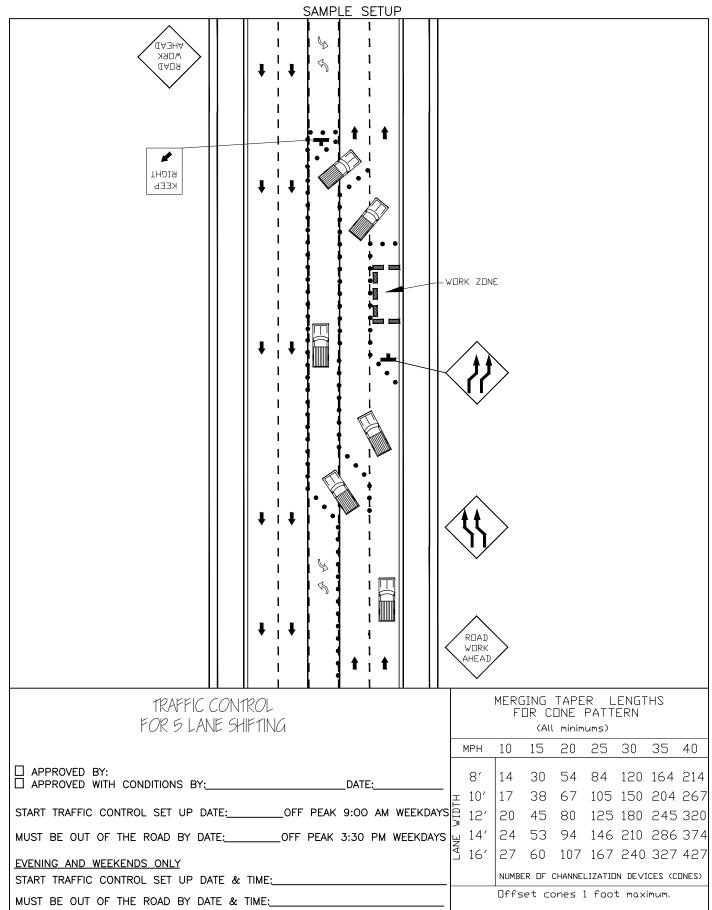
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



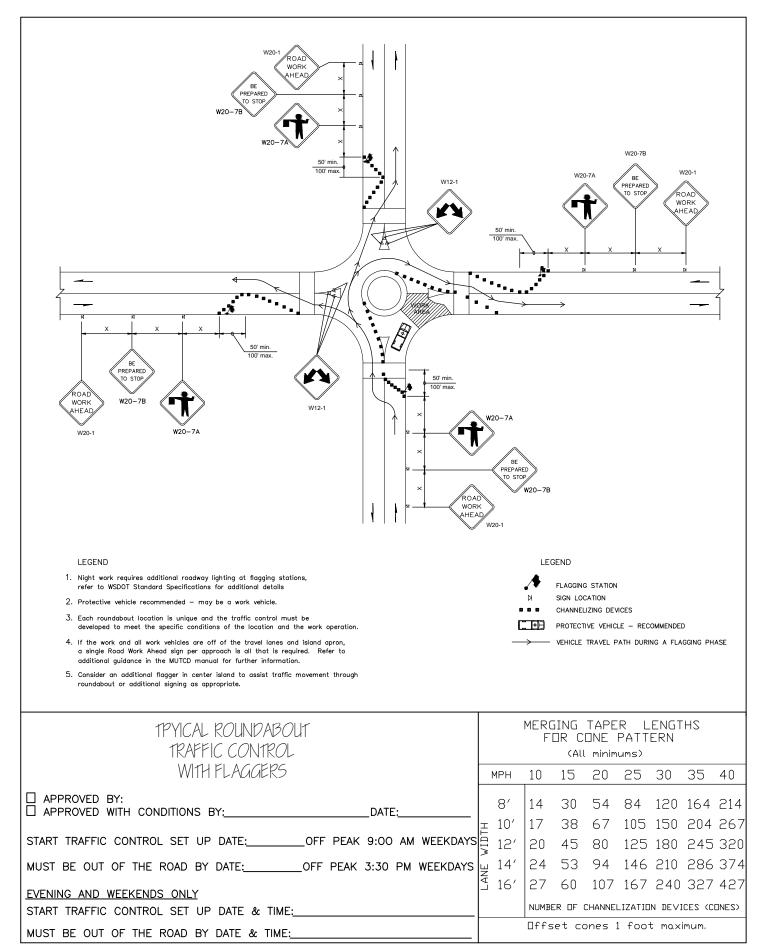
NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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 THANKSGWING 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.



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.



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.

	SAN	IPLE SE	<u>: IUF</u>	) ————									
ROAD WDRK	<b>7</b>							RIAN	WORK WORK AHEAD				
				₹						7			
				+								_	
RDAD WIRK AHEAD					Vi bi Vi	ehicl eacc	e eq ns/	uippo stro	be p ed w bes a	ith a and a	uxilia a hia	iry ih	-
CENTER LANE CLOSURE AT							MERG FI	ING BR CI	TAPE One i	R L Patti	ENGT ERN	HS	
INTERSECTION UNDER 60	) MINU1ES	7			_		1.0		minim				
☐ APPROVED BY: ☐ APPROVED WITH CONDITIONS BY:		DATE:			N	MPH 8'	10	15 30	20 54	84		164	
START TRAFFIC CONTROL SET UP DATE:			Δ14 V	MEENDAYO	DTH	10′	17	38		105			
MIST DE OUT OF THE BOAD DY DATE.	OFF_DE	-1\ 3.0U . .W 2.2∩ F		1EEKUVA	. WI	12′ 14′	20 24		80 94			245 286	
MUST BE OUT OF THE ROAD BY DATE:  EVENING AND WEEKENDS ONLY	OFF PEA	m 3:30 F	-ıvı W	ILENDATS	LANE	16′	27			167			
EVENING AND WEEKENDS ONLY START TRAFFIC CONTROL SET UP DATE & TIME:						•			CHANNEL				
MUST BE OUT OF THE ROAD BY DATE & TIME:							ffs	et co	nes 1	foot	max	mum.	

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 EXTING 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 THANKSGWING DAY THROUGH NEW YEAR'S DAY.

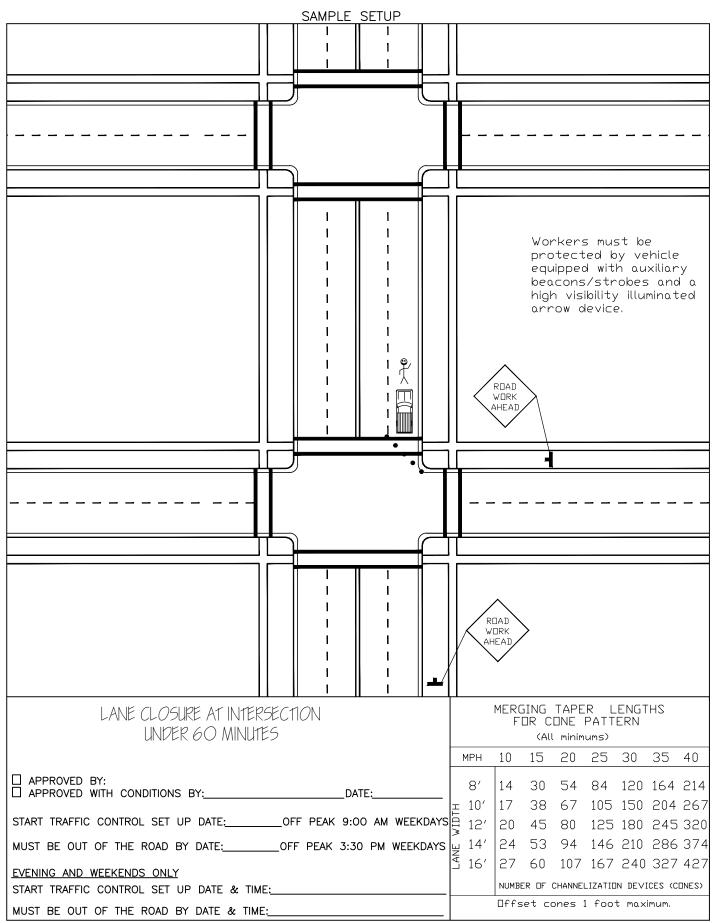
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.

	SAMPLE SETUP	_
WDRK WDRK	Nose cones for truck optional.	
RDAD WIRK AHE AII	Workers must be protected by vehicle equipped with auxiliary beacons/strobes and a high visibility illuminated arrow device.	
INSIDE LANE CLOSUR	I FUR CUNE PATTERN	
INTERSECTION UNDER 60		-
☐ APPROVED BY: ☐ APPROVED WITH CONDITIONS BY:  START TRAFFIC CONTROL SET UP DATE:		4
MUST DE OUT OF THE DOAD BY DATE	OFF PEAK 9:00 AM WEEKDAYS 12' 20 45 80 125 180 245 32 OFF PEAK 3:30 PM WEEKDAYS □ 14' 24 53 94 146 210 286 37	
MUST BE OUT OF THE ROAD BY DATE:  EVENING AND WEEKENDS ONLY	$\underline{}$ OFF PEAK 3:30 PM WEEKDAYS $\underline{\underline{\underline{a}}}$ 14   24   33   94   146 210 266 37 $\underline{\underline{a}}$ 16'   27   60   107 167 240 327 42	
EVENING AND WEEKENDS ONLY START TRAFFIC CONTROL SET UP DATE & TIME	NUMBER OF CHANGE ATTACK PENTAGO (OTNIC)	
MUST BE OUT OF THE ROAD BY DATE & TIME	Uttset copes 1 foot maximum	_

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.

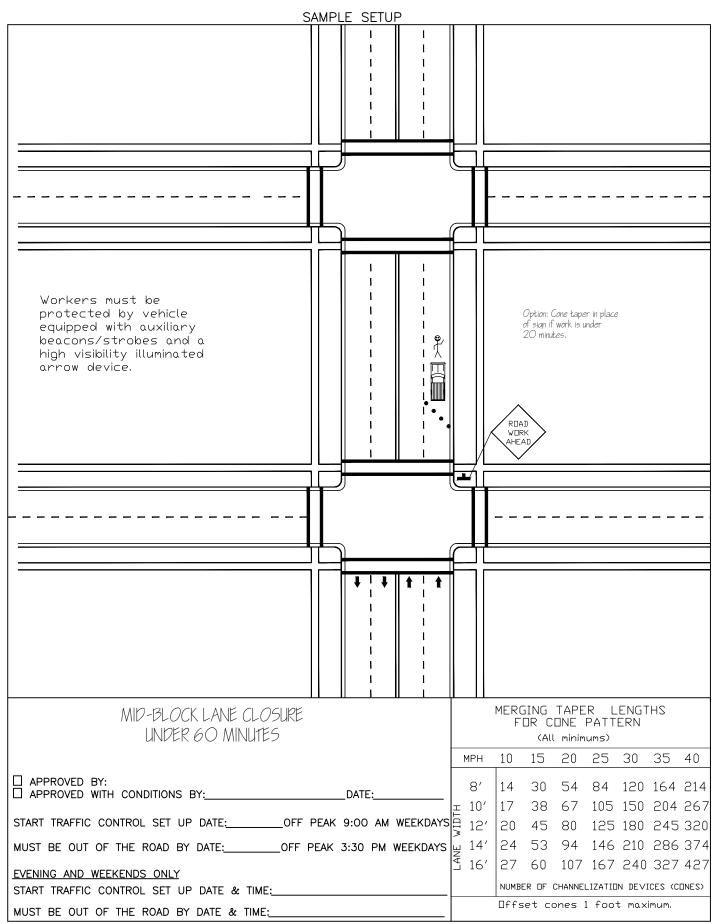
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



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 THANKSGWING 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.

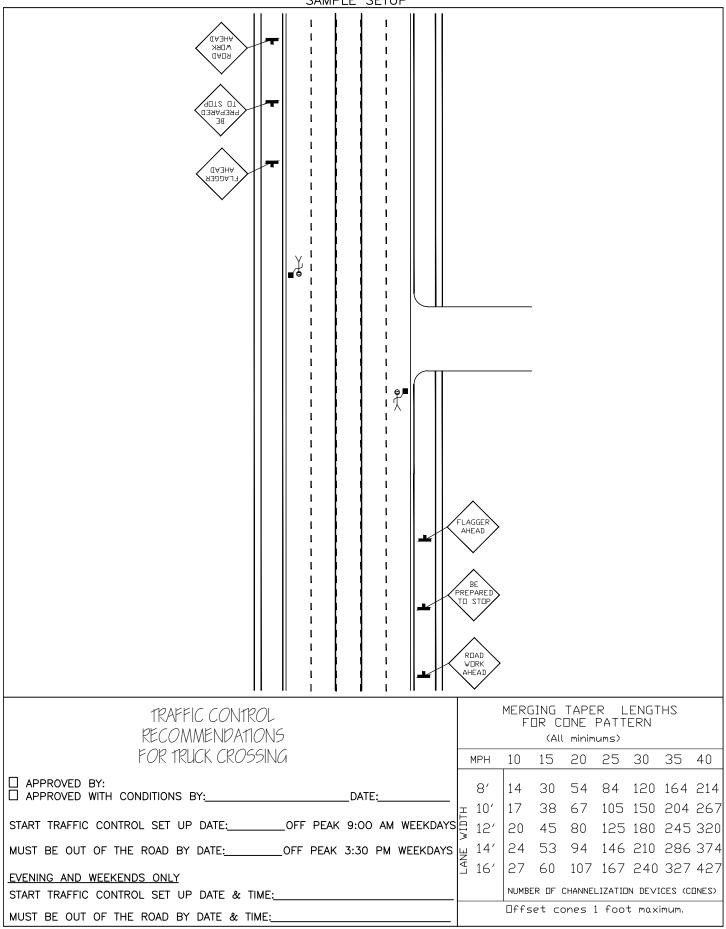


NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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 THANKSGWING 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.

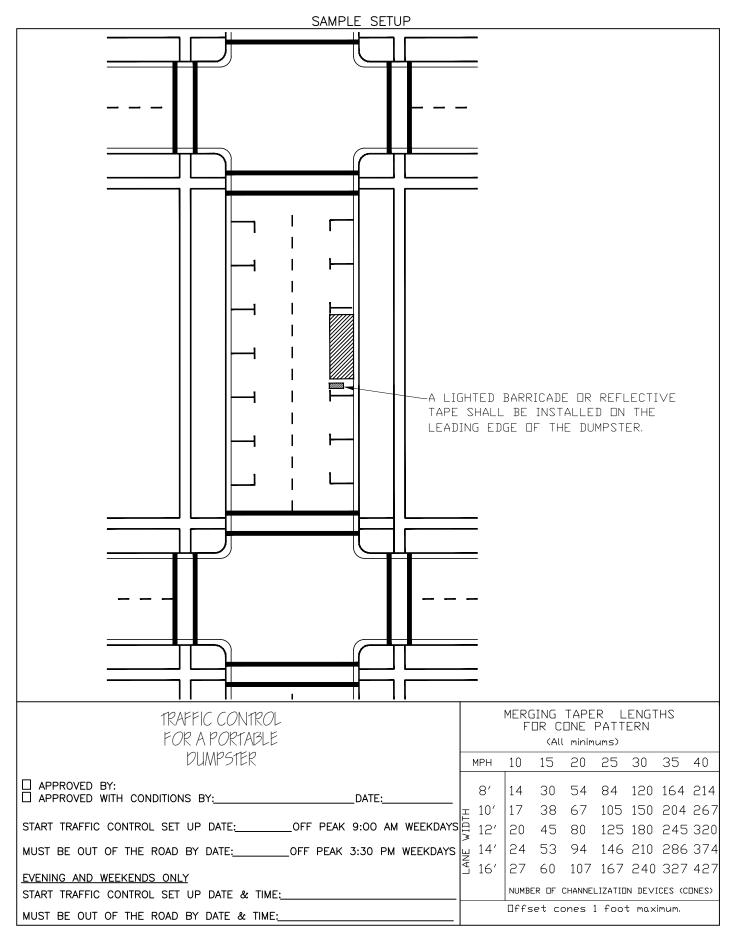
SAMPLE SETUP



NOTE 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.

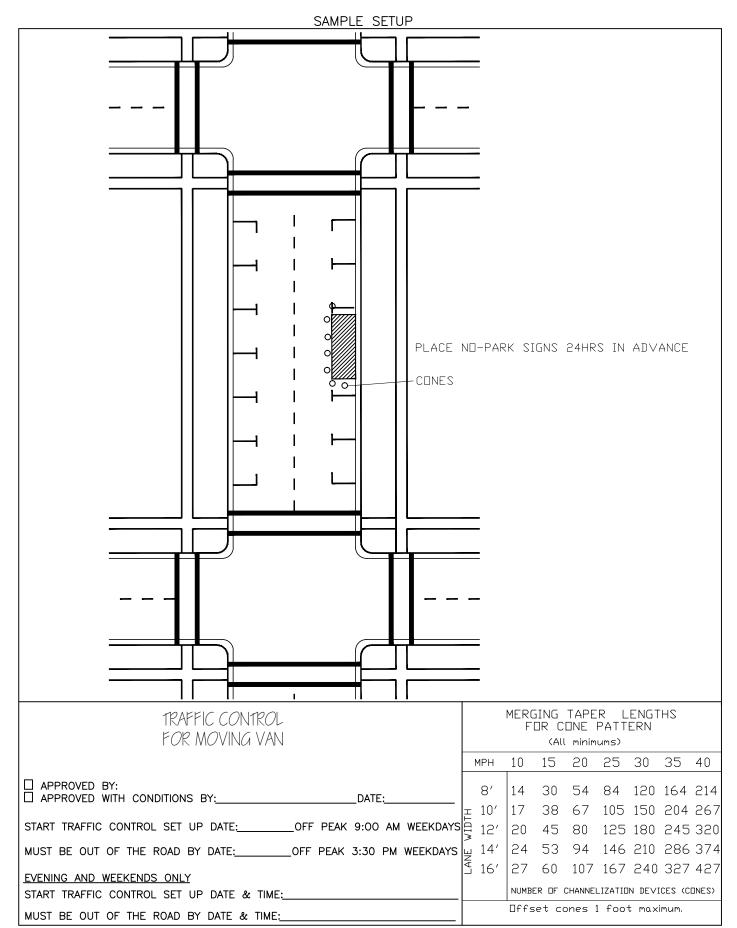
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



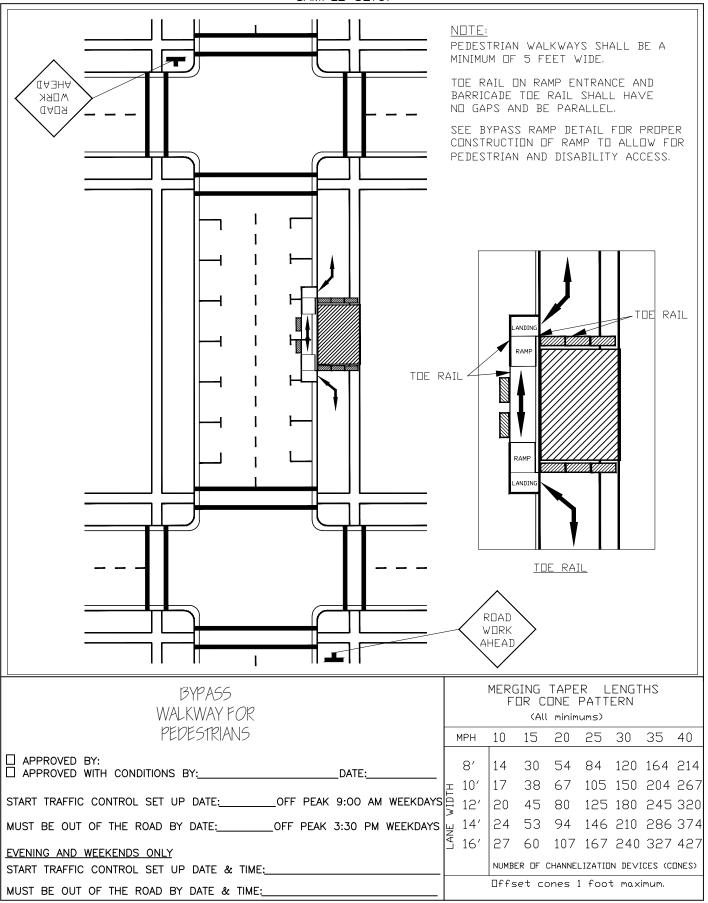
NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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 THANKSGWING DAY THROUGH NEW YEAR'S DAY.

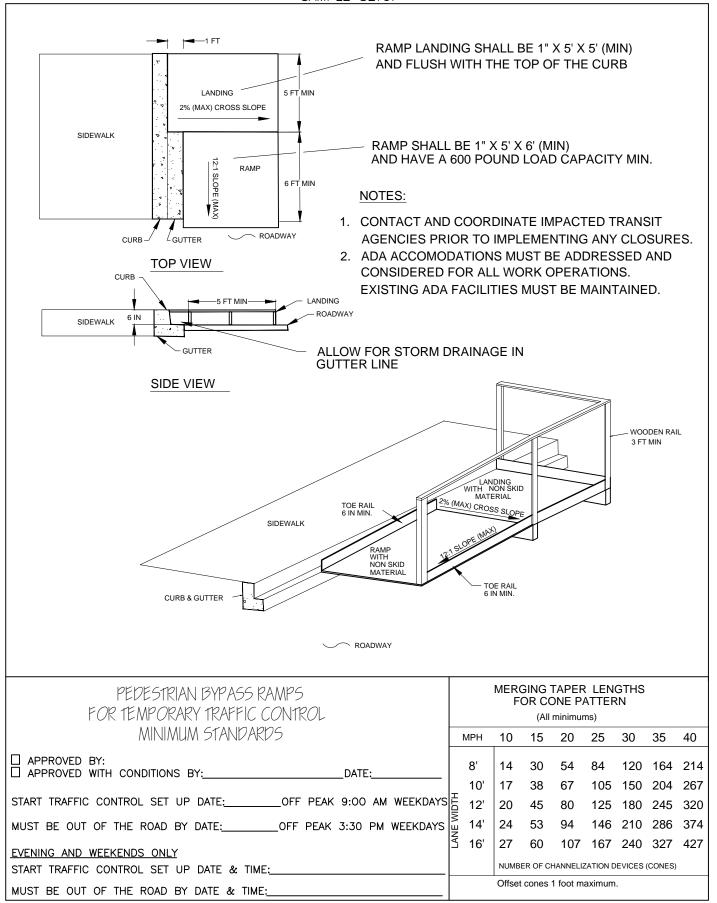
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



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 THANKSGWING 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.



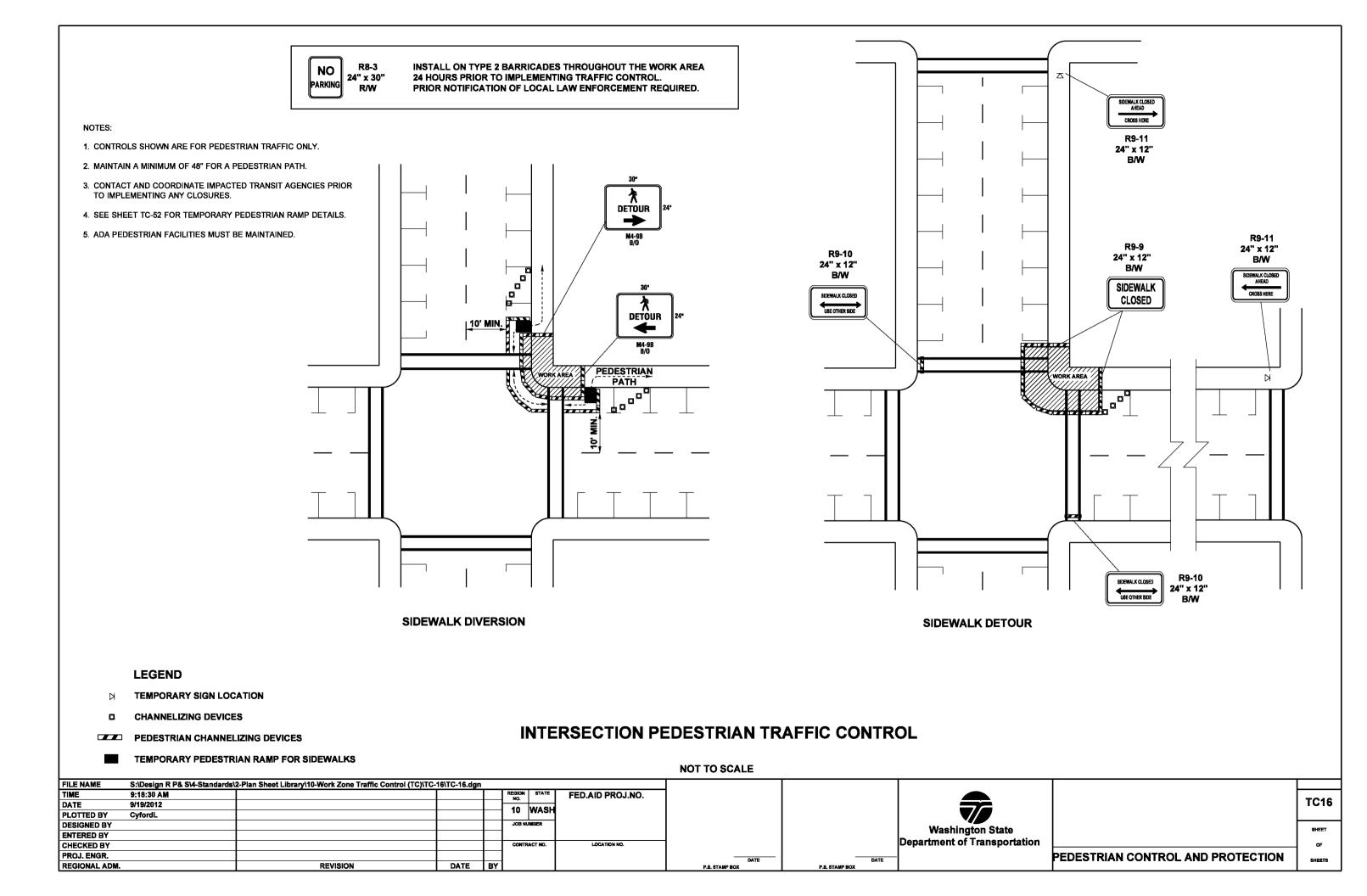
NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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 THANKSGWING 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.

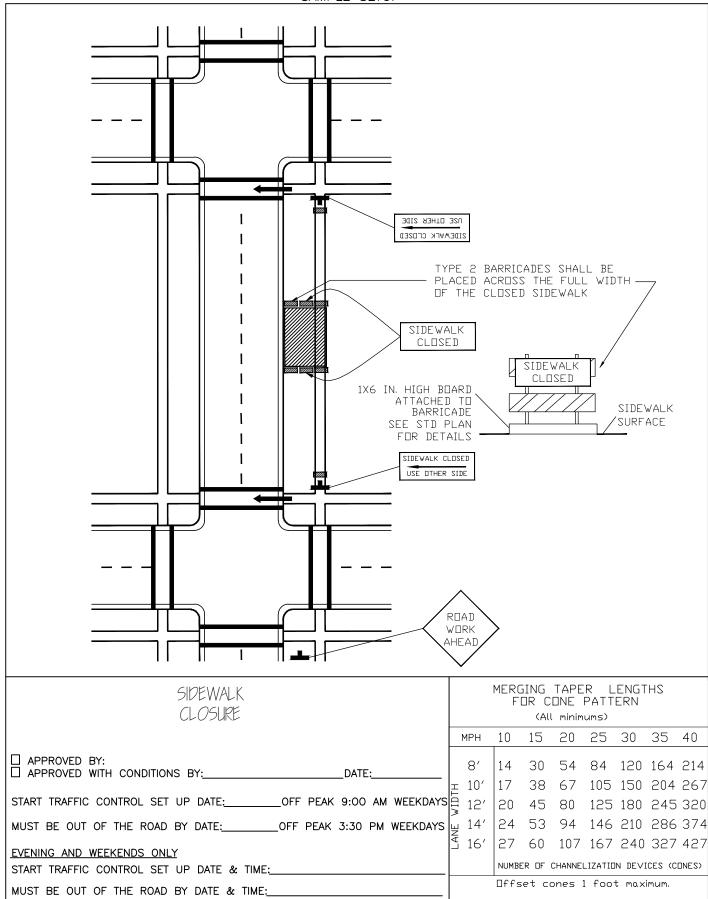


NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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 THANKSGMING 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.

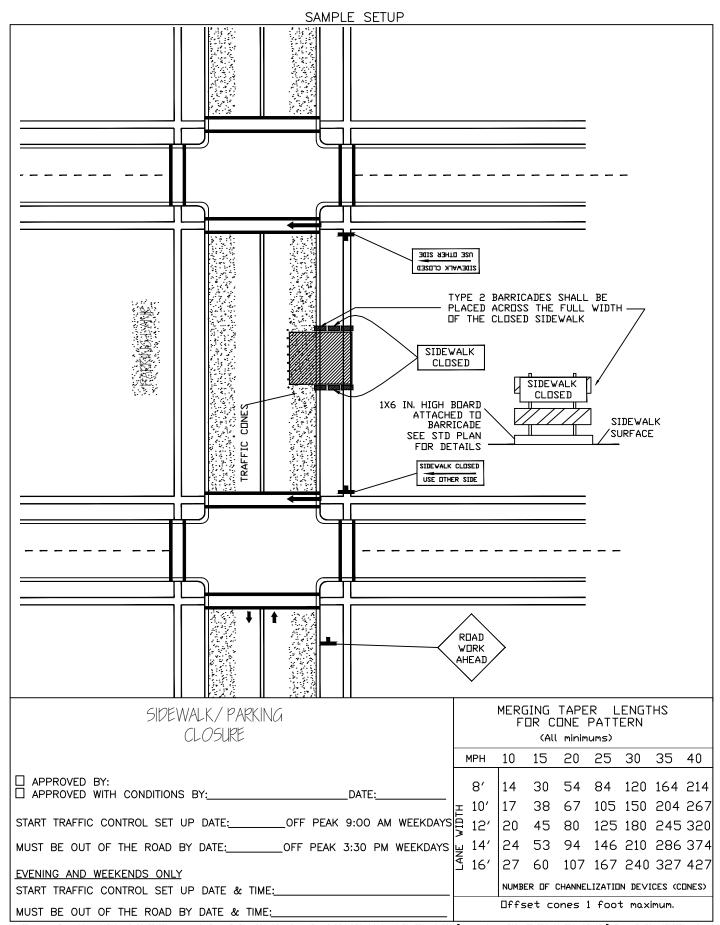




NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. 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 THANKSGWING DAY THROUGH NEW YEAR'S DAY.

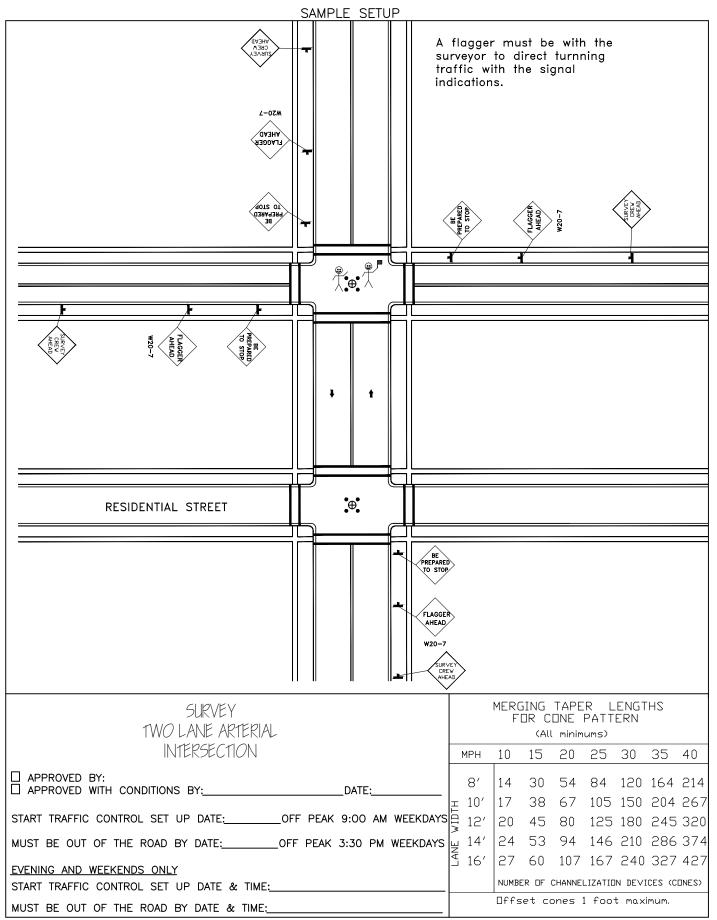
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



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 EXTING 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 THANKSGWING DAY THROUGH NEW YEAR'S DAY.

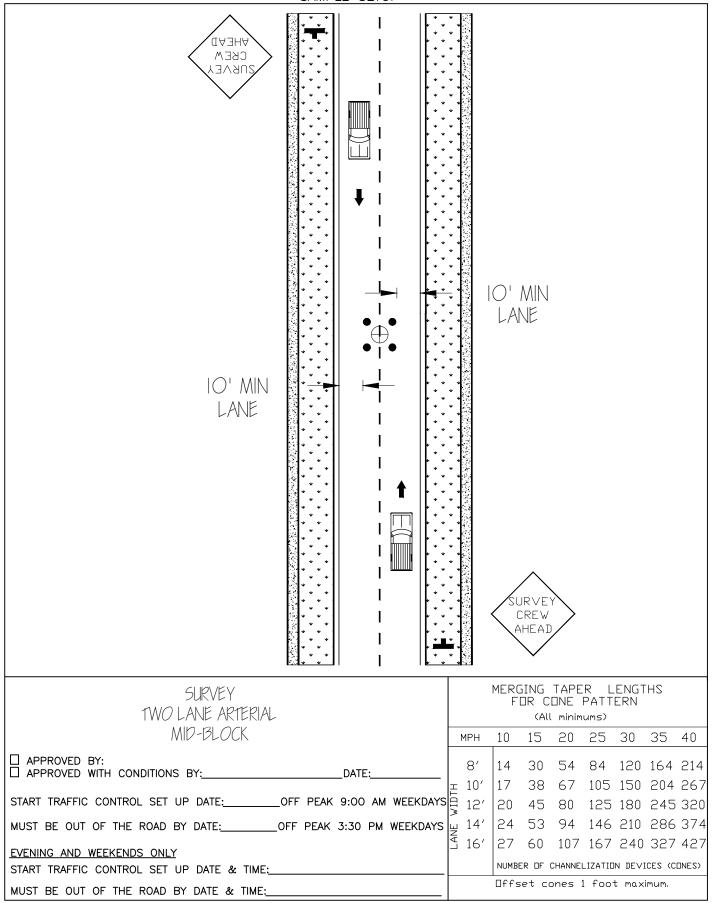
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



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 EXTING 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.

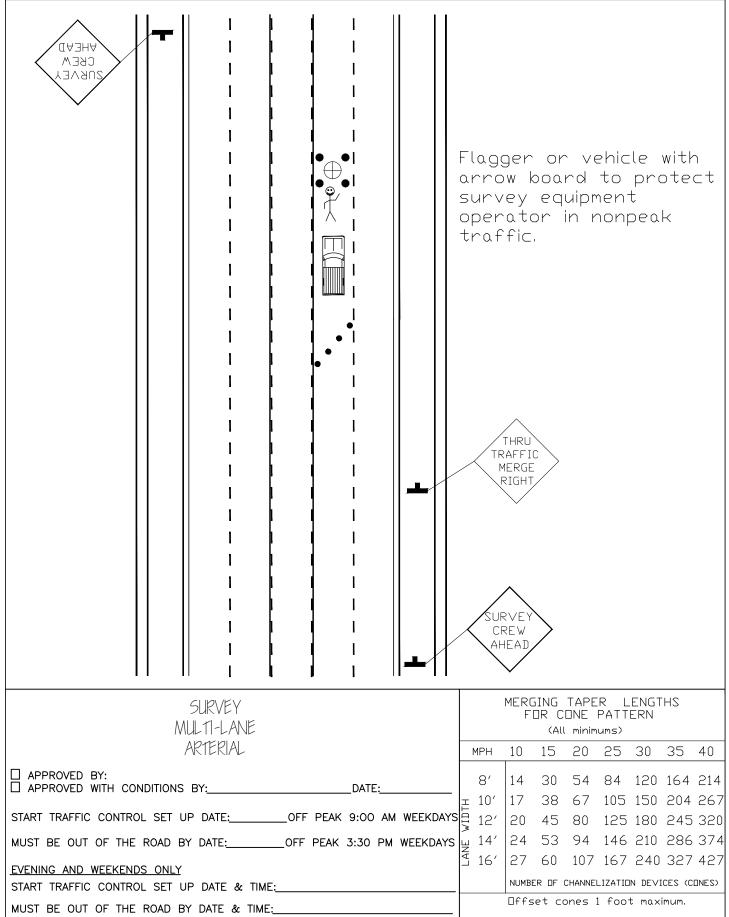
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



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 EXTING 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.



NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MAINTAIN 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 THANKSCIVING 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.

	SAMP	LE SETU	JP									
TRAFFIC CONTROL RECOMMENDATIONS						MERG FI	JR CI	TAPE DNE f	PATTI	ENGT ERN	HS	
				F	MPH	10	15	20	25	30	35	40
☐ APPROVED BY: ☐ APPROVED WITH CONDITIONS BY:		DATE:		-  _	8′ 10′	14					164 204	
START TRAFFIC CONTROL SET UP DATE:OF				'S     	12′	20	45	80	125	180	245	320
MUST BE OUT OF THE ROAD BY DATE:OF												
EVENING AND WEEKENDS UNLI					16′						327 :ces (ci	
START TRAFFIC CONTROL SET UP DATE & TIME:				- -				ones 1				
MUST BE OUT OF THE ROAD BY DATE & TIME:				- 1								

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 EXTING 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.

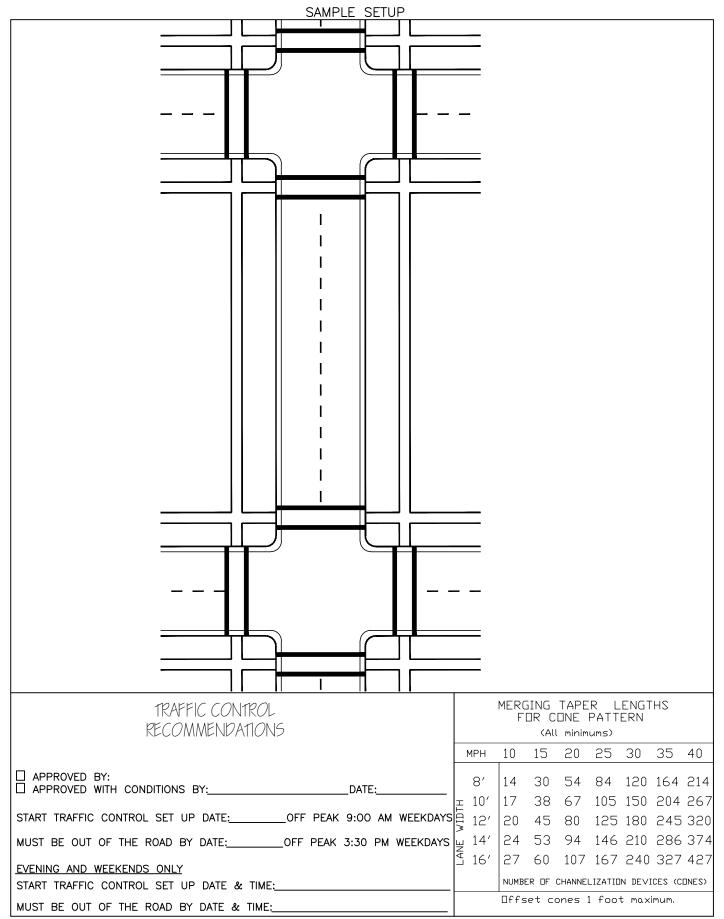
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.

SAMF	LE SETU	JP			_						
TRAFFIC CONTROL	SETU	JP			MERGI	NG C	TAPE ONE !	R L	ENGT		
RECOMMENDATIONS				DI.I		(Al	l minim	ums)			4.0
☐ APPROVED BY: ☐ APPROVED WITH CONDITIONS BY:OFF PEAK	DATE:		8	РН 8′ 10′	14	15 30 38	54 67	84	120	35 164 204	214
							80				
MUST BE OUT OF THE ROAD BY DATE:OFF PEAK	3:30 PM	WEEKDAYS	-ANE	14′ 16′	24  27	53 60	94 107	146 167	210 240	286 327	3/4 427
EVENING AND WEEKENDS ONLY START TRAFFIC CONTROL SET UP DATE & TIME:							CHANNEL				
MUST BE OUT OF THE ROAD BY DATE & TIME:					Offse	t c	ones 1	foot	; maxi	.mum,	

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 EXTING 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.

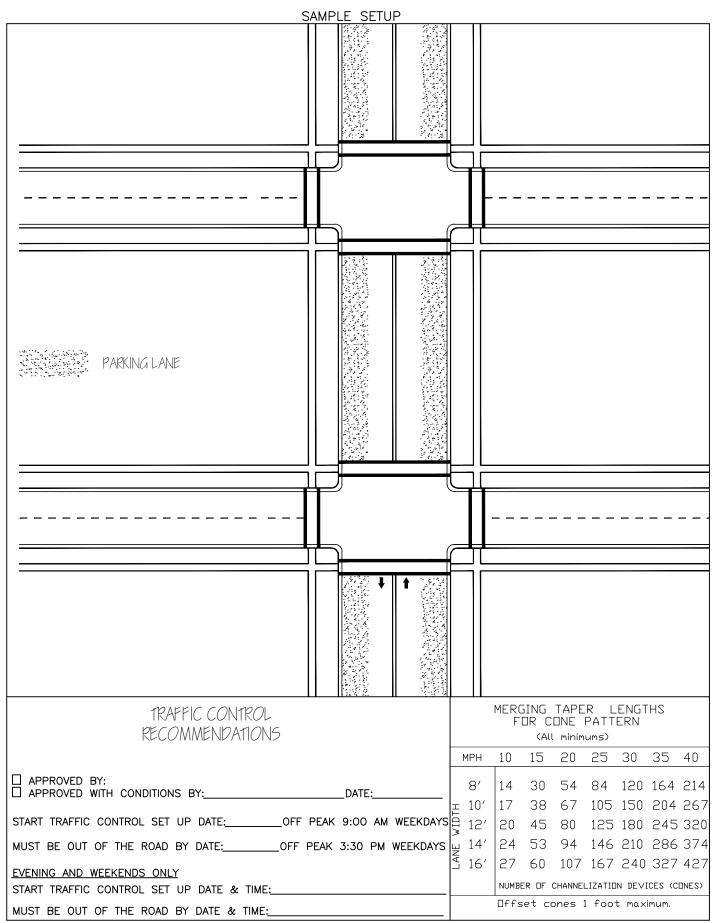
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.



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 THANKSGWING 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.



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 EXTING 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.

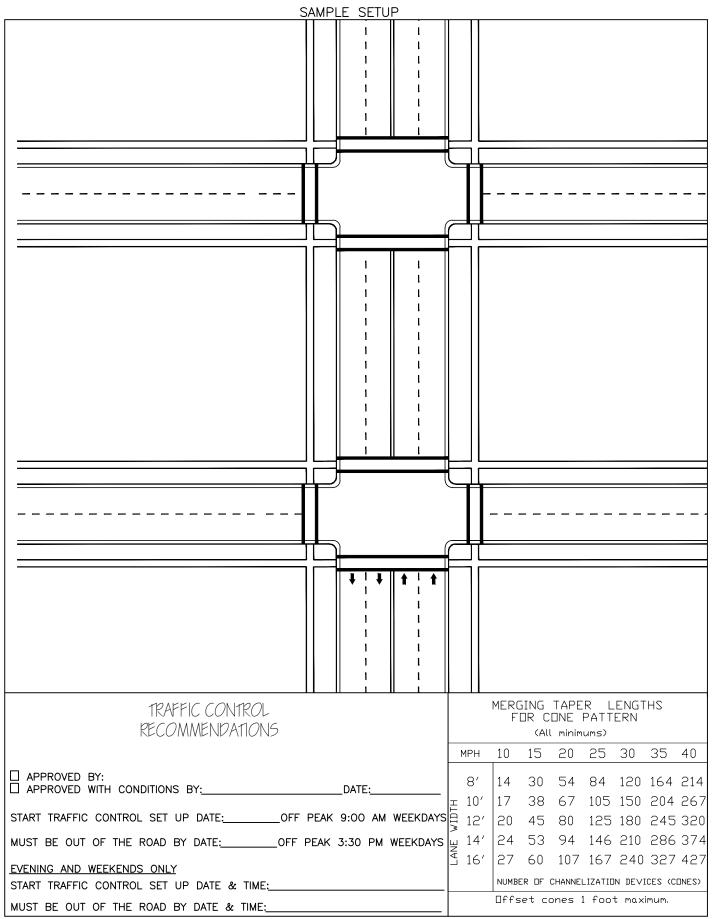
NOTE 3: SIGN SPACING: URBAN LOW SPEED 25–30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35–40 MPH SIGNS MUST BE PLACED 350' APART.

							32		
	1977 1978 1000	Linker Program Plants					۷		
	_	-						l	_
		Liber Myst Skytt							
BARKING LANE									
	20 37 14 3 X								
		es nor							140540
		:							
		Aller Aller	L	ı					
					<b>↓</b>	1	\$ 10 mm		=
TRAFFIC CONTROL RECOMMENDATIONS				□R C		ER L PATT nums)		ГНЅ	
	ļ	MPH	10	15	20	25	30	35	40
APPROVED BY: APPROVED WITH CONDITIONS BY:DATE:	_	8′ ± 10′	14 17			84 105			
START TRAFFIC CONTROL SET UP DATE:OFF PEAK 9:00 AM WEEKDA	YS	12′	20	45		125			
MUST BE OUT OF THE ROAD BY DATE:OFF PEAK 3:30 PM WEEKDA'	rs	⊒ 14′	24			146			
EVENING AND WEEKENDS ONLY START TRAFFIC CONTROL SET UP DATE & TIME:	-	7 I <i>D</i> .				167 LIZATIO			
MUST BE OUT OF THE ROAD BY DATE & TIME:				set c	ones	1 foo	t max	imum.	

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 EXTING 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 THANKSGYING 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.



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 EXTING 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									
				+						
				-						
				┧ <u>└</u>						
PARKING LANE										
				<u> </u>  -						
TRAFFIC CONTROL RECOMMENDATIONS				MERG FC	JR CE	TAPEI INE F minimu	PATTE	ENGT ERN	SH	
			MPH	10	15	20	25	30	35	40
☐ APPROVED BY: ☐ APPROVED WITH CONDITIONS BY:	DATE:		8′ ± 10′		30 38				164 204	
START TRAFFIC CONTROL SET UP DATE:		EKDAYS	E 12′	20	45				245	
MUST BE OUT OF THE ROAD BY DATE: C	FF PEAK 3:30 PM WE	EKDAYS	IJ 14′	24	53					
EVENTIO / TID WEEKENDS ONET			'16 ئ		60					
START TRAFFIC CONTROL SET UP DATE & TIME:					R OF CI					TIME 2)
MUST BE OUT OF THE ROAD BY DATE & TIME:										

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 MERGING TAPER LENGTHS FOR CONE PATTERN RECOMMENDATIONS (All minimums) 15 20 25 30 35 40 MPH 10 □ APPROVED BY: 8' 54 84 120 164 214 14 30 ☐ APPROVED WITH CONDITIONS BY:\_\_\_ \_DATE:\_ ± 10' 17 38 67 105 150 204 267 START TRAFFIC CONTROL SET UP DATE:\_\_\_\_\_OFF PEAK 9:00 AM WEEKDAYS 12' 20 45 80 125 180 245 320 14′ 24 53 94 146 210 286 374 MUST BE OUT OF THE ROAD BY DATE:\_\_\_\_\_OFF PEAK 3:30 PM WEEKDAYS 16′ 107 167 240 327 427 60 EVENING AND WEEKENDS ONLY NUMBER OF CHANNELIZATION DEVICES (CONES) START TRAFFIC CONTROL SET UP DATE & TIME:\_ 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 THANKSGNING 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.

MUST BE OUT OF THE ROAD BY DATE & TIME:\_

# PART III

# STATE PREVAILING WAGE RATES

AND

GENERAL REQUIREMENTS

# PREVAILING WAGE RATES

This project requires prevailing wages under <u>39.12 RCW</u>. Any worker, laborer, or mechanic employed in the performance of any part of the work shall be paid not less than the applicable prevailing rate of wage.

The project site is located in Pierce County.

The effective date for prevailing wages on this project will be the **submittal deadline** with these exceptions:

- a. If the project is not awarded within six months of the submittal deadline, the award date is the effective date.
- b. If the project is not awarded pursuant to a competitive solicitation, the date the contract is executed is the effective date.
- c. Janitorial contracts follow WAC 296-127-023.

Except for janitorial contracts, these rates shall apply for the duration of the contract unless otherwise noted in the solicitation.

Look up prevailing rates of pay, benefits, and overtime codes from this link: https://secure.lni.wa.gov/wagelookup/

# REQUIRED FILINGS

The contractor and all subcontractors covered under <u>39.12 RCW</u> shall submit to the Department of Labor and Industries (L&I) for work provided under this contract:

- 1. A Statement of Intent to Pay Prevailing Wages must be filed with and approved by L&I upon award of contract.
- 2. An Affidavit of Wages Paid must be filed with and approved by L&I upon job completion.

Payments cannot be released by the City until verification of these filings are received by the engineer. Additional information regarding these filings can be obtained by calling the Department of Labor & Industries, Prevailing Wage at 360-902-5335, <a href="https://www.lni.wa.gov/">https://www.lni.wa.gov/</a> or by visiting their MY L&I account.

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

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.

- 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.

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 Pollution Liability Insurance

Contractor shall maintain a Pollution Liability or Environmental Liability Insurance providing coverage, including investigation and defense costs, for bodily injury and property damage, including loss of use of damaged property or of property that has been physically damaged or destroyed.

Such coverage shall provide both on-site and off-site cleanup costs and cover gradual and sudden pollution, and include in its scope of coverage the City of Tacoma damage claims for loss arising out of Contractor's work with limits not less than One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) aggregate.

This policy shall include Environmental Resource Damage coverage and Hazardous Substance Removal. If such coverage is provided on a "claims-made" basis, the following additional conditions must be met:

- 4.5.1 The policy must contain no retroactive date, or the retroactive date must precede the commencement date of this Contract.
- 4.5.2 The extended reporting period (tail) must be purchased to cover a minimum of Six (6) years beyond completion of work.

#### 4.6 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.

Insurance Requirements
Template Revised 10/3/2019

Spec/Contract Number: PW22-0141F

Page **4** of **4**