SPECIFICATION NO.
PW21-0462F

I-5 / S 56th St. Interchange
ADA Compliance

Project No. PWK-01018
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

REQUEST FOR BIDS, SPECIAL PROVISIONS, BID PROPOSAL AND CONTRACT

FOR

SPECIFICATION NO.
PW21-0462F

I-5 / S 56th St. Interchange ADA Compliance

PROJECT NO. PWK-01018

Jacob Hammes, P.E.
747 Market Street, Room 520
Tacoma, WA 98402-3769
Engineering Division
Public Works Department

Jon Kulju, PMP
747 Market Street, Room 522
Tacoma, WA 98402-3769
Engineering Division
Public Works Department
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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bid Proposal</td>
</tr>
<tr>
<td>2</td>
<td>Signature Page</td>
</tr>
<tr>
<td>3</td>
<td>Bid Bond</td>
</tr>
<tr>
<td>4</td>
<td>Certification Of Compliance With Wage Payment Statutes</td>
</tr>
<tr>
<td>5</td>
<td>State Responsibility and Reciprocal Bid Preference Information</td>
</tr>
<tr>
<td>6</td>
<td>List of Subcontractor Categories of Work</td>
</tr>
<tr>
<td>7</td>
<td>City of Tacoma – Equity in Contracting Requirement Form</td>
</tr>
<tr>
<td>8</td>
<td>City of Tacoma – Equity in Contracting Utilization Form</td>
</tr>
<tr>
<td>9</td>
<td>Contract</td>
</tr>
<tr>
<td>10</td>
<td>Payment Bond to the City of Tacoma</td>
</tr>
<tr>
<td>11</td>
<td>Performance Bond to the City of Tacoma</td>
</tr>
<tr>
<td>12</td>
<td>General Release Form</td>
</tr>
</tbody>
</table>

PART II SPECIAL PROVISIONS

<table>
<thead>
<tr>
<th>Division</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General Requirements</td>
</tr>
<tr>
<td>2</td>
<td>Earthwork</td>
</tr>
<tr>
<td>3</td>
<td>Production from Quarry and Pit Sites and Stockpiling</td>
</tr>
<tr>
<td>4</td>
<td>Bases</td>
</tr>
<tr>
<td>5</td>
<td>Surface Treatments and Pavements</td>
</tr>
<tr>
<td>6</td>
<td>Structures</td>
</tr>
<tr>
<td>7</td>
<td>Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits</td>
</tr>
<tr>
<td>8</td>
<td>Miscellaneous Construction</td>
</tr>
<tr>
<td>9</td>
<td>Materials</td>
</tr>
<tr>
<td>A</td>
<td>City of Tacoma and WSDOT Standard Plans</td>
</tr>
</tbody>
</table>

PART III CITY OF TACOMA – EQUITY IN CONTRACTING PROGRAM

PART IV CITY OF TACOMA - LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM (LEAP) REGULATIONS FOR PUBLIC WORKS CONTRACTS

PART V STATE PREVAILING WAGE RATES AND GENERAL REQUIREMENTS AND COVID-19 VACCINE DECLARATION
REQUEST FOR BIDS PW21-0462F
I-5 / S 56th St. Interchange ADA Compliance

Submittal Deadline: 11:00 a.m., Pacific Time, Tuesday, February 1, 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, bids@cityoftacoma.org, 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:

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By Email:</strong></td>
<td><strong><a href="mailto:bids@cityoftacoma.org">bids@cityoftacoma.org</a></strong>&lt;br&gt;Maximum file size: 35 MB. Multiple emails may be sent for each submittal</td>
</tr>
<tr>
<td><strong>By Carrier:</strong></td>
<td>If possible, please include a flash drive of your full submittal.</td>
</tr>
<tr>
<td><strong>City of Tacoma Procurement &amp; Payables Division</strong></td>
<td><strong>Tacoma Public Utilities</strong>&lt;br&gt;3628 S 35th Street&lt;br&gt;Tacoma, WA 98409</td>
</tr>
<tr>
<td><strong>In Person:</strong></td>
<td>If possible, please include a flash drive of your full submittal.</td>
</tr>
<tr>
<td><strong>City of Tacoma Procurement &amp; Payables Division</strong></td>
<td><strong>Tacoma Public Utilities Administration Building North</strong>&lt;br&gt;Guard House (east side of main building)&lt;br&gt;3628 S 35th Street&lt;br&gt;Tacoma, WA 98409</td>
</tr>
<tr>
<td><strong>By Mail:</strong></td>
<td>If possible, please include a flash drive of your full submittal.</td>
</tr>
<tr>
<td><strong>City of Tacoma Procurement &amp; Payables Division</strong></td>
<td><strong>Tacoma Public Utilities</strong>&lt;br&gt;PO Box 11007&lt;br&gt;Tacoma, WA 98411-0007</td>
</tr>
</tbody>
</table>

Bid Opening: Held virtually each Tuesday at 11AM. Attend via this link or call 1 (253) 215 8782.
Submittals in response to a RFB will be recorded as received. As soon as possible on the day of submittal deadline, preliminary results will be posted to www.TacomaPurchasing.org.

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

Pre-Proposal Meeting: A pre-proposal meeting will not be held.
Project Scope: Upgrade pedestrian crossing ramps and signals at freeway on/off ramps along S 56th St and the intersection of S 56th St. and Tacoma Mall Boulevard.
Estimate: $978,000
**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 our Minimum Employment Standards Paid Sick Leave webpage.

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

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

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

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

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

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

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

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

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

1. **BID PROPOSAL**: The unit prices bid must be shown in the space provided. Check your computations for omissions and errors.

2. **SIGNATURE PAGE**: To be filled in and executed by a duly authorized officer or representative of the bidding entity. If the bidder is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.

3. **BID BOND**: The Bid Bond must be executed by the person legally authorized to sign the bid, and must be properly signed by the representatives of the surety company unless the bid is accompanied by a certified check. If Bid Bond is furnished, the form furnished by the City must be followed; no variations from the language thereof will be accepted. The amount of the Bid Bond must be not less than 5% of the total amount bid.

4. **CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2017).

5. **STATE RESPONSIBILITY AND RECIPROCAL BID PREFERENCE INFORMATION**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2010).

6. **LIST OF SUBCONTRACTOR CATEGORIES OF WORK**: Bidder shall list all subcontractor(s) proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW.

**FAILURE TO LIST SUBCONTRACTORS WILL RESULT IN THE BID BEING NON-RESPONSIVE AND THEREFORE VOID.**

7. **EQUITY IN CONTRACTING (EIC) UTILIZATION FORM**

Bidders shall complete the Equity in Contracting Utilization Form in accordance with the City of Tacoma Equity in Contracting Regulations Manual and Chapter 1.07 of the City of Tacoma Municipal Code (TMC). This form shall be fully and accurately completed and returned with submission of the Bid and will be used to determine if the Bidder is in compliance with the EIC regulations and the TMC.
As part of the City of Tacoma’s ongoing work to address past disparities and to increase the City’s contracting with and utilization of historically underutilized businesses, the Equity in Contracting (EIC) Program places requirements on City contracts for utilization of businesses certified by the Washington State Office of Minority and Women’s Business Enterprise and approved by the Equity in Contracting Program (“Certified Businesses”). The EIC Program also provides guidance and technical assistance to Certified Businesses who are interested in providing supplies, services and public works to the City of Tacoma. The EIC Program requirements are contained in Tacoma Municipal Code Chapter 1.07.

Bidders on City of Tacoma contracts are required to meet the stated EIC requirements. Bids will be evaluated on an individual basis to determine EIC compliance. A bidder who fails to meet the stated EIC requirements will be considered non-responsible. Bidders are also subject to the City’s Equal Employment Opportunity policies prohibiting discrimination.

The stated EIC requirements may be met by the bidder or by identified subcontractors. All SBE goals may be met by using DBEs or SBEs from the OMWBE list. Contact the EIC Office at (253) 591-5075 if there are questions about this requirement.

It is the bidder’s responsibility to ensure that their firm or identified subcontractors are certified by the State of Washington’s Office of Minority and Women Business Enterprises and approved by the City of Tacoma EIC Program at the time of bid submittal. Business certification may be verified by contacting the EIC Office at 253-591-5075 between 8 AM and 4:30 PM, Monday through Friday.

A list of OMWBE certified firms for Pierce, King, Lewis, Mason and Grays Harbor counties, is available on the following web site address: www.omwbe.diversitycompliance.com.

The Equity in Contracting (EIC) forms included in these bid documents must be fully and accurately completed (including attachments) and included with bid submittals. Failure to include the required forms will result in the submittal being rejected as nonresponsive.

**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. LEAP UTILIZATION PLAN: Shall be submitted at the Pre-Construction Meeting.

F. 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.

**LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM (LEAP):**

The Local Employment and Apprenticeship Training Program (LEAP) has been adopted to counteract economic and social ills, which accompany high rates of unemployment within the City of Tacoma. The Tacoma City Council established the mandatory LEAP program for public works contracts pursuant to Ordinance No. 28520. The primary goal is to provide an opportunity for City of Tacoma residents and Tacoma Public Utilities ratepayers to enter apprenticeship programs, acquire skills, and perform work that will provide living wages.

LEAP Goals:

1. **Local Employment Utilization Goal** – Prime contractor is required to ensure that 15 percent of the labor hours worked on the project are performed by residents of the City of Tacoma or economically distressed areas of the Tacoma Public Utilities service area.

2. **Apprentice Utilization Goal** - Prime contractor is required to ensure that 15 percent of the labor hours worked on the project are performed by apprentices who reside in the Tacoma Public Utilities service area.

*NOTE:* The two goals can be satisfied concurrently if the prime contractor utilizes individuals who simultaneously meet the requirements of both goals, such as an apprentice who resides in an economically distressed area of the Tacoma Public Utilities service area.
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 in-state 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.
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

1. 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:

   a. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of 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).
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.

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 Small Business Enterprise and Local Employment and Apprenticeship 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.
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 bids@cityoftacoma.org 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.
PART I

BID PROPOSAL AND CONTRACT FORMS
**BID PROPOSAL**

SPECIFICATION NO. PW21-0462F  
I-5 / S 56th St. Interchange ADA Compliance

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-01018 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.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Sect.</th>
<th>Item Description</th>
<th>Unit Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Total Amount</th>
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<tbody>
<tr>
<td>R-1</td>
<td>1-05</td>
<td>Roadway Surveying</td>
<td>Lump Sum</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>R-2</td>
<td>1-05</td>
<td>Record Drawings</td>
<td>Lump Sum</td>
<td>1</td>
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<tr>
<td>R-3</td>
<td>1-07</td>
<td>SPCC Plan</td>
<td>Lump Sum</td>
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<tr>
<td>R-4</td>
<td>1-09</td>
<td>Mobilization</td>
<td>Lump Sum</td>
<td>1</td>
<td></td>
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<tr>
<td>R-5</td>
<td>1-10</td>
<td>Pedestrian Traffic Control</td>
<td>Lump Sum</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>R-6</td>
<td>1-10</td>
<td>Project Temporary Traffic Control</td>
<td>Lump Sum</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>R-7</td>
<td>2-01</td>
<td>Clearing and Grubbing</td>
<td>Lump Sum</td>
<td>1</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>R-8</td>
<td>2-06</td>
<td>Subgrade Maintenance and Protection</td>
<td>Lump Sum</td>
<td>1</td>
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<tr>
<td>R-9</td>
<td>2-14</td>
<td>Remove Existing Pavement, Type I, Class A2</td>
<td>Sq. Yd.</td>
<td>41</td>
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Contractor’s Name: ______________________________  
Specification Number: PW21-0462F  
I-5 / S 56th St. Interchange ADA Compliance
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Sect.</th>
<th>Item Description</th>
<th>Unit</th>
<th>Estimated Quantity</th>
<th>Unit Price</th>
<th>Total Amount</th>
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<tbody>
<tr>
<td>R-10</td>
<td>2-14</td>
<td>Remove Existing Pavement, Type I, Class A8</td>
<td>Sq. Yd.</td>
<td>682</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-11</td>
<td>2-14</td>
<td>Remove Existing Pavement, Type I, Class C6</td>
<td>Sq. Yd.</td>
<td>502</td>
<td>$______________</td>
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<tr>
<td>R-12</td>
<td>2-15</td>
<td>Remove Curb</td>
<td>Sq. Yd.</td>
<td>775</td>
<td>$______________</td>
<td>$______________</td>
</tr>
<tr>
<td>R-13</td>
<td>2-16</td>
<td>Remove Catch Basin</td>
<td>Each</td>
<td>1</td>
<td>$______________</td>
<td>$______________</td>
</tr>
<tr>
<td>R-14</td>
<td>4-04</td>
<td>Crushed Surfacing Base Course</td>
<td>Ton</td>
<td>226</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-15</td>
<td>5-04</td>
<td>Planing Bituminous Pavement</td>
<td>Sq. Yd.</td>
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<td>$______________</td>
<td>$______________</td>
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<td>R-16</td>
<td>5-04</td>
<td>HMA CL 1/2&quot; PG 58V-22</td>
<td>Ton</td>
<td>585</td>
<td>$______________</td>
<td>$______________</td>
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<td>R-17</td>
<td>7-05</td>
<td>Adjust to Grade</td>
<td>Each</td>
<td>2</td>
<td>$______________</td>
<td>$______________</td>
</tr>
<tr>
<td>R-18</td>
<td>7-05</td>
<td>Adjust Existing Catch Basin, Furnish New Frame and Grate</td>
<td>Each</td>
<td>4</td>
<td>$______________</td>
<td>$______________</td>
</tr>
<tr>
<td>R-19</td>
<td>7-05</td>
<td>Adjust Existing Manhole</td>
<td>Each</td>
<td>4</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-20</td>
<td>7-05</td>
<td>Adjust Existing Valve Chamber to Grade</td>
<td>Each</td>
<td>3</td>
<td>$______________</td>
<td>$______________</td>
</tr>
<tr>
<td>R-21</td>
<td>7-05</td>
<td>Catch Basin Type 1</td>
<td>Each</td>
<td>1</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-22</td>
<td>7-05</td>
<td>Reconnect Existing Sewer Pipe, 12-In. Diam., to New Structure</td>
<td>Each</td>
<td>1</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-23</td>
<td>8-01</td>
<td>Erosion Control and Water Pollution Prevention</td>
<td>Lump Sum</td>
<td>1</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-24</td>
<td>8-01</td>
<td>Stormwater Pollution Prevention Plan (SWPPP)</td>
<td>Lump Sum</td>
<td>1</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-25</td>
<td>8-02</td>
<td>Site Restoration</td>
<td>Lump Sum</td>
<td>1</td>
<td>$______________</td>
<td>$______________</td>
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<tr>
<td>R-26</td>
<td>8-04</td>
<td>Cement Conc. Traffic Curb and Gutter</td>
<td>Lin. Ft.</td>
<td>812</td>
<td>$______________</td>
<td>$______________</td>
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<td>Item No.</td>
<td>Sect.</td>
<td>Item Description</td>
<td>Unit</td>
<td>Estimated Quantity</td>
<td>Unit Price</td>
<td>Total Amount</td>
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<td>R-27</td>
<td>8-09</td>
<td>Raised Pavement Marker Type 2</td>
<td>Hun.</td>
<td>1</td>
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<td>$__________</td>
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<td>R-28</td>
<td>8-14</td>
<td>Cement Conc. Sidewalk</td>
<td>Sq. Yd.</td>
<td>187</td>
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<td>$__________</td>
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<td>R-29</td>
<td>8-14</td>
<td>Cement Conc. Curb Ramp</td>
<td>Each</td>
<td>27</td>
<td>$__________</td>
<td>$__________</td>
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<td>R-30</td>
<td>8-20</td>
<td>Traffic Signal Modification, Tacoma Mall Blvd &amp; S 56th Street</td>
<td>Lump Sum</td>
<td>1</td>
<td>Lump Sum</td>
<td>$__________</td>
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<tr>
<td>R-31</td>
<td>8-20</td>
<td>Traffic Signal Modification, Tacoma Mall Blvd &amp; I-5 Off Ramp (S 55th St)</td>
<td>Lump Sum</td>
<td>1</td>
<td>Lump Sum</td>
<td>$__________</td>
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<tr>
<td>R-32</td>
<td>8-21</td>
<td>Permanent Signing</td>
<td>Lump Sum</td>
<td>1</td>
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<td>R-33</td>
<td>8-22</td>
<td>Paint Line</td>
<td>Lin. Ft.</td>
<td>1,450</td>
<td>$__________</td>
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<td>R-34</td>
<td>8-22</td>
<td>Painted Wide Lane Line</td>
<td>Lin. Ft.</td>
<td>165</td>
<td>$__________</td>
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<td>R-35</td>
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<td>Plastic Line</td>
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<td>R-38</td>
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<td>Plastic Stop Line</td>
<td>Lin. Ft.</td>
<td>270</td>
<td>$__________</td>
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</table>

**TOTAL BASE BID FOR ITEMS R-1 THRU R-39**

$_____________________________

Contractor’s Name: ______________________________
Specification Number: PW21-0462F
I-5 / S 56th St. Interchange ADA Compliance
Proposal for Incorporating Recycled Materials into the Project

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

Proposed total percentage: _____________________ percent.

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

Bidder: ______________________________

Signature of Authorized Official: ______________________________

Date: ______________________________
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. PW21-0462F
I-5 / S 56th St. Interchange ADA Compliance

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

Date

Address

Printed Name and Title

City, State, Zip

(Area Code) Telephone Number / Fax Number

E-Mail Address

State Business License Number in WA, also known as UBI (Unified Business Identifier) Number


State Contractor's License Number (See Ch. 18.27, R.C.W.)

E-Mail Address for Communications

Addendum acknowledgement #1_____ #2_____ #3_____ #4_____ #5_____

THIS PAGE MUST BE SIGNED AND RETURNED WITH SUBMITTAL.
Herewith find deposit in the form of a cashier’s check in the amount of $__________________ which amount is not less than 5-percent of the total bid.

SIGN HERE__________________________________

BID BOND

KNOW ALL MEN BY THESE PRESENTS:
That we, ______________________________________________________________, as Principal, and ______________________________________________________________________, as Surety, are held and firmly bound unto the City of Tacoma, as Obligee, in the penal sum of ___________________________ dollars, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by these presents.

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

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

SIGNED, SEALED AND DATED THIS _______________ DAY OF __________________, 20______.

PRINCIPAL: 

SURETY: 

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Received return of deposit in the sum of $ ___________________________
Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (January 11, 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 ☐  Joint Venture ☐  Corporation ☐

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

________________________________________

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

________________________________________

* If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.
Specification No. __________________________

Name of Bidder: __________________________

**State Responsibility and Reciprocal Bid Preference Information**

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

- Number: __________________________
- Effective Date: __________________________
- Expiration Date: __________________________

Current Washington Unified Business Identifier
(UBI) Number:

- Number: __________________________

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

- ☐ Yes  ☐ No
- ☐ Not Applicable

Washington Employment Security Department Number

- Number: __________________________
- ☐ Not Applicable

Washington Department of Revenue state excise tax
Registration number:

- Number: __________________________
- ☐ Not Applicable

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

- ☐ Yes  ☐ No

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

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

- ☐ Yes  ☐ No

If incorporated, in what state were you incorporated?

State: ____________  ☐ Not Incorporated

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

State: ____________

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

- ☐ Yes  ☐ No
List of Subcontractor Categories of Work

Project Name ____________________________________________________________

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

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

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

<table>
<thead>
<tr>
<th>Subcontractor Name</th>
<th>Work to be Performed</th>
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G:\pur-comm\Forms\Subcontractor List.doc
EIC REQUIREMENT FORM

EQUITY IN CONTRACTING REQUIREMENTS & PROCEDURES:

All bidders must complete and submit with their bid the following solicitation form contained in the bid submittal package:

City of Tacoma – EIC Utilization Form

IMPORTANT NOTE:

It is the bidder’s responsibility to insure that the EIC-eligible subcontractor(s) listed on the EIC Utilization Form are currently certified by the State of Washington’s Office of Minority and Women Business Enterprises (OMWBE) at the time of bid opening. This may be verified by contacting the EIC Office at 253-591-5075 between 8 AM and 4:30 PM, Monday through Friday or the OMWBE Office. Please refer to the City of Tacoma EIC Provisions included elsewhere in these Special Provisions.

Equity in Contracting Requirements

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A list of EIC-eligible companies is available on the following web site addresses:

www.omwbe.diversitycompliance.com*

MATERIAL MISSTATEMENTS CONCERNING COMPLETED ACTIONS BY THE BIDDER IN ANY SWORN STATEMENT OR FAILURE TO MEET COMMITMENTS AS INDICATED ON THE EIC UTILIZATION FORM MAY RENDER THE BIDDER IN DEFAULT OF CITY ORDINANCE 1.07

CCD/SBE: PWK-01018-01
Date of Record: 07/01/2021

*For the OMWBE list, be sure to look for businesses in Pierce, King, Lewis, Mason, Grays Harbor, Thurston, or any counties adjacent to the county in which the work is performed per 1.07.050(2)(b-c). Contact the EIC Office if you have any questions.

Document Updated 5.5.2021
EQUITY IN CONTRACTING UTILIZATION FORM

This form is to document only the EIC contractors or material suppliers that will be awarded a contract. This information will be used in calculating the EVALUATED BID. Additional forms may be used if needed.

- Prime contractors are encouraged to solicit bids from EIC approved firms.
- Be sure to include this form with your bid submittal in order to receive EIC credit.
- It is the prime contractor’s responsibility to check the certification status of EIC contractors prior to the submittal deadline.

Bidder’s Name: ________________________________
Address: ________________________________ City/State/Zip: ________________________________

Spec. No. _________________ Base Bid * $

<table>
<thead>
<tr>
<th>a. Company Name and Telephone Number</th>
<th>b. MBE, WBE, or SBE (Write all that apply)</th>
<th>c. NAICS code(s)</th>
<th>d. Contractor Bid Amount (100%)</th>
<th>e. Material Supplier Bid Amount (20%)</th>
<th>f. Estimated MBE Usage Dollar Amount</th>
<th>g. Estimated WBE Usage Dollar Amount</th>
<th>h. Estimated SBE Usage Dollar Amount</th>
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i. MBE Utilization %

j. WBE Utilization %

k. SBE Utilization %

By signing and submitting this form the bidder certifies that the EIC firms listed will be used on this project including all applicable change orders.

Type or Print Name of Responsible Officer / Title ________________________________ Signature of Responsible Officer ________________________________ Date ________________________________

CCD/SBE/FORMS revised July 2020
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 EIC companies 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 all 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 all 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: \( \frac{\$ \text{ amounts from column “f”}}{\text{Base Bid (*)}} \times 100 = \text{EIC usage as a percent of the Base Bid.} \)

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: \( \frac{\$ \text{ amounts from column “g”}}{\text{Base Bid (*)}} \times 100 = \text{EIC usage as a percent of the Base Bid.} \)
13. Block “k” – The percent of actual SBE utilization calculated on the Base Bid only. (Divide the sum of Estimated SBE Usage Dollar Amount (Column “h”) by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “h” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

It is the prime contractor’s responsibility to check the status of EIC contractors prior to bid opening. Call the EIC Office at 253-591-5075 for additional information.
This Contract is made and entered into effective this _____ day of , 20___, ("Effective Date") by and between the City of Tacoma, a Municipal Corporation of the State of Washington ("City"), and legal name of Supplier including type of business entity ("Contractor").

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

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

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

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

II. In the event of a conflict or inconsistency between the terms and conditions contained in this document entitled Contract and any terms and conditions contained the above referenced Contract Documents the following order of precedence applies with the first listed item being the most controlling and the last listed item the least controlling:

1. Contract
2. List remaining Contract Documents in applicable controlling order.

III. The Contract terminates on xxxxxx. {May remove if not applicable]

IV. The total price to be paid by City for Contracts full and complete performance hereunder may not exceed: 

$______, plus any applicable taxes.

V. Contractor agrees to accept as full payment hereunder the amounts specified herein and in Contract Documents, and the City agrees to make payments at the times and in the manner and upon the terms and conditions specified. Except as may be otherwise provided herein or in Contract Documents Contractor shall provide and bear the expense of all equipment, work and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work and providing the services and deliverables required by this Contract.

VI. The City’s preferred method of payment is by ePayables (Payment Plus), followed by credit card (aka procurement card), then Electronic Funds Transfer (EFT) by Automated Clearing House (ACH), then check or other cash equivalent. CONTRACTOR may be required to have the capability of accepting the City’s ePayables or credit card methods of payment. The City of Tacoma will not accept price changes or pay additional fees when ePayables (Payment Plus) or credit card is used. The City, in its sole discretion, will determine the method of payment for this Contract.

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

VIII. Contractor acknowledges, and by signing this Contract agrees, that the Indemnification provisions set forth in the controlling Contract Documents, including the Industrial Insurance immunity waiver (if applicable), are totally and fully part of this Contract and, within the context of the competitive bidding laws, have been mutually negotiated by the Parties hereto.
IX. Contractor and for its heirs, executors, administrators, successors, and assigns, does hereby agree to the full performance of all the requirements contained herein and in Contract Documents.

X. It is further provided that no liability shall attach to City by reason of entering into this Contract, except as expressly provided herein.

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

CITY OF TACOMA: CONTRACTOR:
By: By:

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

Director of Finance: ____________________________

City Attorney (approved as to form): ____________________________

Approved By: ____________________________

Approved By: ____________________________

Approved By: ____________________________

Approved By: ____________________________

Approved By: ____________________________

Approved By: ____________________________

Approved By: ____________________________
PAYMENT BOND
TO THE CITY OF TACOMA

Resolution No.
Bond No.

That we, the undersigned,

as principal, and

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

$ ______________________ , for the payment whereof Contractor and Surety bind themselves,

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

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

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

Specification No.
Specification Title:
Contract No.

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

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

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

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract shall in any way affect its obligation on this bond, and 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.
One original bond shall be executed, and be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed power of attorney for the office executing on behalf of the surety.

Principal: Enter Vendor Legal Name

By: ________________________________

Surety:

By: ________________________________

By: ________________________________

Agent's Name: ________________________________

Agent's Address: ________________________________
PERFORMANCE BOND
TO THE CITY OF TACOMA

That we, the undersigned,

as principal, and

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

$ __________________________ , for the payment whereof Contractor and Surety bind themselves,

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

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

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

Specification No.

Specification Title:

Contract No.

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

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

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

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

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

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

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

Principal: Enter Vendor Legal Name

By: ________________________________

Surety:

By: ________________________________

Agent’s Name: ________________________________

Agent’s Address: ________________________________

Form No. SPEC-100A 04/09/2020
GENERAL RELEASE TO THE CITY OF TACOMA

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

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

__________________________________________  Contractor

By ____________________________

Title ____________________________
PART II

SPECIAL PROVISIONS
# Table of Contents

INTRODUCTION ............................................................................................................................... 1

DESCRIPTION OF WORK .................................................................................................................. 2

1-01 DEFINITIONS AND TERMS ..................................................................................................... 2
  1-01.3 Definitions ....................................................................................................................... 2

1-02 BID PROCEDURES AND CONDITIONS ................................................................................ 4
  1-02.1 Prequalification of Bidders ............................................................................................ 4
  1-02.1 Qualifications of Bidder ................................................................................................. 4
  1-02.2 Plans and Specifications ................................................................................................. 5
  1-02.4(1) General ..................................................................................................................... 5
  1-02.5 Proposal Forms .............................................................................................................. 5
  1-02.6 Preparation of Proposal ................................................................................................. 6
  1-02.6(1) Recycled Materials Proposal .................................................................................... 6
  1-02.7 Bid Deposit .................................................................................................................... 7
  1-02.9 Delivery of Proposal ..................................................................................................... 7
  1-02.10 Withdrawing, Revising, or Supplementing Proposal .................................................... 8
  1-02.12 Public Opening of Proposals ....................................................................................... 8
  1-02.13 Irregular Proposals ..................................................................................................... 9
  1-02.14 Disqualification of Bidders ......................................................................................... 9
  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
  1-03.5 Failure to Execute Contract ......................................................................................... 14

1-04 SCOPE OF THE WORK .......................................................................................................... 15
  1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda .......................................................... 15

1-05 CONTROL OF WORK .......................................................................................................... 16
  1-05.3 Working Drawings ....................................................................................................... 16
  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
1-05.3(4) Resubmittals
1-05.3(5) Submittal Requirements by Section
1-05.4 Conformity With and Deviations from Plans and Stakes
1-05.4(1) Contractor Surveying - Roadway and Utility Surveys
1-05.4(2) Bridge and Structure Surveys
1-05.7 Removal of Defective and Unauthorized Work
1-05.11 Final Inspection
1-05.11 Final Inspections and Operational Testing
1-05.11(1) Substantial Completion Date
1-05.11(2) Final Inspection and Physical Completion Date
1-05.11(3) Operational Testing
1-05.12(1) One-Year Guarantee Period
1-05.13 Superintendents, Labor and Equipment of Contractor
1-05.14 Cooperation With Other Contractors
1-05.15 Method of Serving Notices
1-05.16 Water and Power
1-05.18 Record Drawings

1-06 CONTROL OF MATERIAL
1-06.1 Approval of Materials Prior To Use
1-06.1(1) Qualified Products List (QPL)
1-06.1(2) Request for Approval of Material (RAM)
1-06.6 Recycled Materials

1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC
1-07.1 Laws to be Observed
1-07.1(2) Health and Safety
1-07.2 State Taxes
1-07.2 State Tax
1-07.2 State Sales Tax — Rule 171
1-07.2(2) State Sales Tax — Rule 170
1-07.2(3) Services
1-07.4 Sanitation
1-07.4(2) Health Hazards
1-07.9 Wages
1-07.9(5) Required Documents .......................................................... 35
1-07.11 Requirements for Nondiscrimination .................................... 35
1-07.15 Temporary Water Pollution/Erosion Control ....................... 37
1-07.15(1) Spill Prevention, Control and Countermeasures Plan ...... 37
1-07.16 Protection and Restoration of Property ................................. 41
1-07.16(1) Private/Public Property .................................................. 41
1-07.17 Utilities and Similar Facilities .............................................. 41
1-07.18 Public Liability and Property Damage Insurance .............. 42
1-07.18 Insurance ........................................................................... 42
1-07.23 Public Convenience and Safety ........................................... 42
1-07.23(1) Construction Under Traffic .......................................... 42
1-07.23(1) Construction under Traffic ............................................ 43
1-07.23(2) Construction and Maintenance of Detours ................... 46
1-07.24 Rights of Way ..................................................................... 46
1-08 PROSECUTION AND PROGRESS ............................................... 48
1-08.0 Preliminary Matters ............................................................... 48
1-08.0(1) Preconstruction Conference ............................................ 48
1-08.0(2) Hours of Work ................................................................. 48
1-08.0(3) Reimbursement for Overtime Work of Contracting Agency Employees .................................................................................. 49
1-08.1 Subcontracting - D/M/WBE Reporting ................................ 49
1-08.1 Subcontracting ................................................................. 49
1-08.3(2)A Type A Progress Schedule ........................................... 50
1-08.4 Prosecution of Work .......................................................... 50
1-08.4 Notice to Proceed and Prosecution of Work ......................... 50
1-08.5 Time for Completion ........................................................ 50
1-08.9 Liquidated Damages .......................................................... 51
1-09 MEASUREMENT AND PAYMENT .............................................. 53
1-09.2(1) General Requirements for Weighing Equipment .......... 53
1-09.6 Force Account ................................................................. 53
1-09.9 Payments ........................................................................... 53
1-09.9(1) Retainage ........................................................................ 55
1-09.13(3)A Administration of Arbitration ..................................... 55
1-10 TEMPORARY TRAFFIC CONTROL .............................................. 56
1-10.1(2) Description .................................................................. 56
Traffic Control Management ......................................................... 56
1-10.2(1) General ...................................................................................................................... 56
1-10.2(2) Traffic Control Plans ................................................................................................. 57
1-10.3(2)F Signalized Intersections ......................................................................................... 57
1-10.3(3)A Construction Signs ................................................................................................. 58
1-10.3(3)C Portable Changeable Message Sign ....................................................................... 58
1-10.4(2) Item Bids with Lump Sum for Incidentals ................................................................ 58
1-10.5(2) Item Bids with Lump Sum for Incidentals ................................................................ 59

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP .................................................... 60
2-01.1 Description .................................................................................................................. 60
2-01.2 Disposal of Useable Material and Debris .................................................................... 60
2-01.3(1) Clearing .................................................................................................................. 60
2-01.3(2) Grubbing ............................................................................................................... 60

2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS .................................................... 61
2-02.3(3) Removal of Pavement, Sidewalks, and Curbs ......................................................... 61

2-03 ROADWAY EXCAVATION AND EMBANKMENT ............................................................ 62
2-03.1 Description .................................................................................................................. 62
2-03.3(5) Slope Treatment ..................................................................................................... 62
2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters ......................................... 62
2-03.5 Payment ...................................................................................................................... 62

2-06 SUBGRADE PREPARATION ............................................................................................... 63
2-06.3 Construction Requirements ....................................................................................... 63
2-06.5 Measurement and Payment ....................................................................................... 63
2-06.5(2) Subgrade Not Constructed Under Same Contract ................................................. 63

2-07 WATERING ...................................................................................................................... 64
2-07.3 Construction Requirements ...................................................................................... 64
2-07.3(1) Water Supplied from Hydrants ............................................................................ 64

2-09 STRUCTURE EXCAVATION ............................................................................................ 65
2-09.4 Measurement ............................................................................................................ 65
2-09.5 Payment ..................................................................................................................... 65

2-13 VEGETATION REMOVAL ............................................................................................... 66
2-13.1 Description .................................................................................................................. 66
2-13.2 Definition of Vegetation ............................................................................................. 66
2-13.3 Construction Requirements .................................................................................... 66
2-13.4 Measurement ............................................................................................................. 66
2-13.5 Payment ..................................................................................................................... 67
7-07 CLEANING EXISTING DRAINAGE STRUCTURES ................................................................. 90
7-07.3 Construction Requirements .......................................................................................... 90
7-08 GENERAL PIPE INSTALLATION REQUIREMENTS .......................................................... 91
7-08.3(1)A Trenches .................................................................................................................. 91
7-08.3(1)C Bedding the Pipe ...................................................................................................... 91
7-08.3(2)F Plugs and Connections ............................................................................................. 91
7-08.3(2)G Jointing of Dissimilar Pipe ....................................................................................... 91
7-08.3(3) Backfilling ................................................................................................................... 91
7-17 SANITARY SEWERS ............................................................................................................. 93
7-17.1 Description ..................................................................................................................... 93
7-17.2 Materials ........................................................................................................................ 93
7-17.3(2)A General .................................................................................................................... 93
7-17.3(2)H Television Inspection ............................................................................................... 93
7-17.4 Measurement ................................................................................................................. 93
7-17.5 Payment ......................................................................................................................... 94
8-01 EROSION CONTROL AND WATER POLLUTION CONTROL ........................................ 95
8-01.1 Description ..................................................................................................................... 95
8-01.3(1)A Submittals ................................................................................................................ 95
8-01.3(1)B Erosion and Sediment Control (ESC) Lead ............................................................... 96
8-01.3(2) Seedling, Fertilizing, and Mulching .......................................................................... 97
8-01.3(2)A1 Seedling .................................................................................................................. 97
8-01.3(2)B Seedling and Fertilizing ........................................................................................... 97
8-01.3(8) Street Cleaning........................................................................................................... 97
8-01.3(9)D Inlet Protection ....................................................................................................... 97
8-01.3(10) Wattles ..................................................................................................................... 97
8-01.4 Measurement ................................................................................................................. 98
8-01.4(1) Lump Sum Bid for Project (No Unit Items) ................................................................. 98
8-01.4(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control ................. 98
8-01.5 Payment ......................................................................................................................... 98
8-01.5(1) Lump Sum Bid for Project (No Unit Items) ................................................................. 98
8-01.5(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control ................. 99
8-02 ROADSIDE RESTORATION ............................................................................................. 100
8-02.3 Construction Requirements ......................................................................................... 100
8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation .......................................... 100
8-02.3(5)B Lawn Area Preparation .......................................................................................... 100
8-02.3(6) Soil Amendments ................................................................. 100
8-02.3(6)B Fertilizers ................................................................................. 100
8-02.3(8)C Pruning, Staking, Guying and Wrapping ...................................... 100
8-02.3(10) Lawn Installation .................................................................... 101
8-02.3(10)A Dates and Conditions for Lawn Installation ................................ 101
8-02.3(10)B Lawn Seeding and Sodding ...................................................... 101
8-02.3(10)C Lawn Establishment ................................................................. 101
8-02.3(11) Bark or Wood Chip Mulch .......................................................... 101
8-02.3(11)B Bark or Wood Chip Mulch ......................................................... 102
8-02.3(14) Plant Replacement ..................................................................... 102
8-02.3(17) Site Restoration ......................................................................... 102
8-02.4 Measurement ................................................................................. 103
8-02.5 Payment ......................................................................................... 103
8-04 CURBS, GUTTERS, AND SPILLWAYS .............................................. 105
8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways ........................ 105
8-04.3(1)C Integral Cement Concrete Curb ................................................. 105
8-04.3(6) Cold Weather Work .................................................................... 105
8-04.5 Payment ......................................................................................... 105
8-14 CEMENT CONCRETE SIDEWALKS ................................................. 106
8-14.3 Construction Requirements ............................................................ 106
8-14.3(3) Placing and Finishing Concrete ................................................... 106
8-14.3(4) Curing ......................................................................................... 106
8-14.3(20) Cold Weather Work ................................................................. 106
8-14.3(21) Thickened Edge for Sidewalk ..................................................... 106
8-14.5 Payment ......................................................................................... 106
8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL ......... 107
8-20.1(3) Permitting and Inspections .......................................................... 107
8-20.2 Materials ......................................................................................... 107
8-20.2(1) Equipment List and Drawings ...................................................... 107
8-20.3 Construction Requirements ............................................................ 108
8-20.3(1) General ....................................................................................... 108
8-20.3(1)A Temporary Lighting ................................................................. 109
8-20.3(4) Foundations ............................................................................... 109
8-20.3(5) Conduit ..................................................................................... 109
8-20.3(5)A General ................................................................................... 110
9-03.12 Gravel Backfill ............................................................................................................. 120
9-03.12(10) Pea Gravel ......................................................................................................... 120
9-03.21 Recycled Material ....................................................................................................... 121
9-03.21(1) General Requirements ......................................................................................... 121
9-28 SIGNING MATERIALS AND FABRICATION ................................................................. 122
9-28.1 General ......................................................................................................................... 122
9-28.9 Fiberglass Reinforced Plastic Signs ........................................................................... 122
9-29 ILLUMINATION, SIGNALS, ELECTRICAL ................................................................. 123
9-29.1(6) Detectable Underground Warning Tape ................................................................. 123
9-29.2 Junction Boxes, Cable Vaults and Pull Boxes .............................................................. 123
9-29.2(4) Cover Markings ....................................................................................................... 123
9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable .................................................. 123
9-29.3(1) Fiber Optic Cable ..................................................................................................... 123
9-29.3(1)C Fiber Optic Splice Closures .................................................................................. 123
9-29.3(1)D Fiber Optic Termination Box ............................................................................... 124
9-29.3(2)A Single Conductor ................................................................................................. 124
9-29.3(2)A1 Single Conductor Current Carrying .................................................................... 124
9-29.3(2)A2 Grounding Electrode Conductor ....................................................................... 124
9-29.3(2)A3 Equipment Grounding and Bonding Conductors .............................................. 124
9-29.3(2)B Multi-Conductor Cable ........................................................................................ 124
9-29.3(2)F Detector Loop Wire ............................................................................................. 125
9-29.3(2)I Twisted Pair Communication Cable ...................................................................... 125
9-29.4 Messenger Cable, Fittings .......................................................................................... 125
9-29.6 Light and Signal Standards .......................................................................................... 126
9-29.6(3) Timber Light Standards, Timber Strain Poles, Timber Service Supports .......... 126
9-29.6(5) Foundation Hardware ............................................................................................ 126
9-29.6(6) City of Tacoma Universal Pole ............................................................................... 126
9-29.6(6)A Steel Strain Poles ................................................................................................. 126
9-29.6(6)B Luminaire Mast Arms .......................................................................................... 128
9-29.10 Luminaires ................................................................................................................. 129
9-29.10(1) Conventional Roadway Luminaires .................................................................... 129
9-29.10(1)A Luminaire Classifications .................................................................................. 131
9-29.11 Control Equipment ................................................................................................... 132
9-29.11(2) Photoelectric Controls ........................................................................................... 132
9-29.12 Electrical Splice Materials ......................................................................................... 133
9-29.12(1)  Illumination Circuit Splices ............................................................................ 133
9-29.12(2)  Traffic Signal Splice Material ....................................................................... 133
9-29.13  Control Cabinet Assemblies ............................................................................. 133
9-29.13(1)  Traffic Control Cabinets ............................................................................... 134
9-29.13(1)A  Cabinet Enclosures .................................................................................... 134
9-29.13(1)A1 Cabinet Enclosures for UPS Systems ......................................................... 135
9-29.13(1)B  Cabinet Doors and Locks .......................................................................... 136
9-29.13(1)C  Recessed Compartments ............................................................................ 136
9-29.13(1)D  Cabinet Ventilation .................................................................................... 137
9-29.13(1)E  Cabinet Shelving ....................................................................................... 137
9-29.13(2)  Wiring ........................................................................................................... 138
9-29.13(3)  Electrical Design ......................................................................................... 138
9-29.13(3)A  Load Bay .................................................................................................... 138
9-29.13(3)B  Side Panels ................................................................................................ 142
9-29.13(3)B1 Power Supply Interface Panel .................................................................... 143
9-29.13(3)B2 SDLC Interface Panel ................................................................................. 143
9-29.13(3)B3 Video Detection Interface Panel ................................................................. 143
9-29.13(3)B4 Detection Panel ......................................................................................... 144
9-29.13(3)B5 Power Panel .............................................................................................. 144
9-29.13(3)B6 Communication Interface Panel ............................................................... 145
9-29.13(3)B7 Generator Panel ......................................................................................... 145
9-29.13(3)B8 Supplemental Load Panel ....................................................................... 145
9-29.13(3)B9 Fiber Optic Termination Box ................................................................. 145
9-29.13(3)C  Convenience Outlets ................................................................................ 145
9-29.13(3)D  Cabinet Illumination ................................................................................... 146
9-29.13(3)E  Generator Bypass Compartment and Cable .............................................. 146
9-29.13(3)F  Police Panel ............................................................................................... 147
9-29.13(3)G  Auxiliary Switch Panel ............................................................................... 147
9-29.13(4)  Auxiliary Equipment .................................................................................... 148
9-29.13(4)A  Traffic Signal Controller ............................................................................ 148
9-29.13(4)B  Malfunction Management Unit (MMU) .................................................... 148
9-29.13(4)C  Dual Channel Load Switches .................................................................. 148
9-29.13(4)D  Dual Channel Flasher ............................................................................... 148
9-29.13(4)E  High Density Flash Transfer Relay ............................................................ 148
9-29.13(4)F  Loop Detector Card Rack ......................................................................... 148
9-29.13(4)G  Detector Power Supply ....................................................................................... 149
9-29.13(4)H  Ethernet Switch .................................................................................................. 149
9-29.13(4)J  Preemption/Priority Equipment .......................................................................... 149
9-29.13(4)K  BUS Interface Unit (BIU) ..................................................................................... 149
9-29.13(5)  Manufacturer Testing and Certification ............................................................... 150
9-29.16  Vehicular Signal Heads, Displays, and Housing ......................................................... 150
9-29.16(2)B  Signal Housing ..................................................................................................... 150
9-29.16(3)  Polycarbonate Traffic Signal Heads ...................................................................... 150
9-29.17  Signal Head Mounting Brackets and Fittings ........................................................... 150
9-29.18  Vehicle Detector ........................................................................................................ 151
9-29.18(3)  Gridsmart Detection System ................................................................................. 151
9-29.19  Pedestrian Push Buttons ........................................................................................... 151
9-29.20  Pedestrian Signals ..................................................................................................... 152
9-29.22  Preemption Hardware .............................................................................................. 152
9-29.24  Service Cabinets ....................................................................................................... 152
9-29.24(2)  Electrical Circuit Breakers and Contactors ........................................................ 152
9-29.25  Amplifier, Transformer, and Terminal Cabinets ....................................................... 153
INTRODUCTION
(April 1, 2018 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 date of the GSP and its source, as follows:
(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:
(******)

Also incorporated into the Contract Documents by reference are:
- Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any
- Standard Plans for Road, Bridge and Municipal Construction, WSDOT/APWA, current edition
- City of Tacoma Standard Plans
- City of Tacoma Traffic Control Handbook
- City of Tacoma Right-of-Way Restoration Manual

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

A pre-bid conference will not be held. Bidders are urged to contact the Equity in Contracting (EIC) Program and Local Employment and Apprenticeship Training Program (LEAP) offices to answer questions regarding the EIC and LEAP Program requirements included in the Contract. EIC office number is 253-591-5075 and the LEAP office is 253-591-5826.
DESCRIPTION OF WORK
1-01  DEFINITIONS AND TERMS

1-01.3 Definitions
(January 4, 2016  APWA GSP)
Delete the heading Completion Dates and the three paragraphs that follow it, and replace them with the following:

Dates

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

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

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

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

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

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

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

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

Supplement this Section with the following:

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

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

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

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

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

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

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

**Contract Documents**
See definition for “Contract”.

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

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

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

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

*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.

**Calendar Day**
The time period of 24 hours measured from midnight to the next midnight, including weekends and holidays.

**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.

**Day**
Unless otherwise specified, a calendar day.

**Deductive**
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.

**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.

**Standard Specifications**
Divisions One through Nine of the specified edition of the WSDOT “Standard Specifications for Road, Bridge, and Municipal Construction.”

END OF SECTION

1-02  BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders
Delete this section and replace it with the following:

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

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

Add the following new section:
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:

<table>
<thead>
<tr>
<th>To Prime Contractor</th>
<th>No. of Sets</th>
<th>Basis of Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduced plans (11” x 17”)</td>
<td>6</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Contract Provisions</td>
<td>6</td>
<td>Furnished automatically upon award.</td>
</tr>
<tr>
<td>Large plans (e.g., 22” x 34”)</td>
<td>2</td>
<td>Furnished only upon request.</td>
</tr>
</tbody>
</table>

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
(August 15, 2016 APWA GSP Option B)

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

Any prospective Bidder desiring an explanation or interpretation of the Bid Documents, shall request the explanation or interpretation in writing by close of business 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
(July 11, 2018 APWA GSP)

Supplement the second paragraph with the following:

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

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

If no Subcontractor is listed, the Bidder acknowledges that it does not intend to use any Subcontractor to perform those items of work.

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

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

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

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

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

The fourth paragraph is revised to read:

(October 18, 2013 Tacoma GSP)

The bidder shall submit the following completed forms:

City of Tacoma – Equity in Contracting Utilization Form

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)

Delete this section and replace it with the following:

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. 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. If submitting your bid electronically, a scanned version of the original bid bond or cashier’s check shall accompany your electronic bid submittal. The original bid bond or cashier’s check shall be sent to the Contracting Agency and received by the Contracting Agency within 7 calendar days of the bid opening or the bidder may be deemed non-responsive.

Original bid bonds or cashier’s check will be delivered to:
City of Tacoma Procurement & Payables Division
Tacoma Public Utilities
P.O. Box 11007
Tacoma, WA 98411-0007

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

1-02.9 Delivery of Proposal
(March 1, 2021 Tacoma GSP)

Delete this section and replace it with the following:

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.

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

- DBE Written Confirmation Document from each DBE firm listed on the Bidder’s completed DBE Utilization Certification (WSDOT 272-056);
- Good Faith Effort (GFE) Documentation
- DBE Bid Item Breakdown (WSDOT 272-054)
- DBE Trucking Credit Form (WSDOT 272-058)

These documents, if applicable, shall be received either with the Bid Proposal or as a Supplement to the Bid. The documents shall be received no later than 48 hours (not
including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) shall be submitted as follows:

1. In a sealed envelope labeled the same as for the Proposal, with “Supplemental Information” added, or
2. By e-mail to bids@cityoftacoma.org with “Supplemental Information” noted in the subject line.

All other information required to be submitted with the Bid Proposal must be submitted with the Bid Proposal itself, at the time stated in the Call for Bids.

Proposals that are received as required will be publicly opened and read as specified in Section 1-02.12. The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids. The Contracting Agency will not open or consider any “Supplemental Information” (DBE confirmations or GFE documentation) that is received after the time specified above, or received in a location other than that specified in the Call for Bids.

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

1-02.10 Withdrawing, Revising, or Supplementing Proposal
(March 1, 2021 Tacoma GSP)
Delete this section and replace it with the following:
After submitting a Bid Proposal to the Contracting Agency, the Bidder may withdraw, revise, or supplement it if:

1. The Bidder submits a written request signed by an authorized person and emails it to bids@cityoftacoma.org, and
2. The Contracting Agency receives the request before the time set for receipt of Proposals, and
3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

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.

Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened.

1-02.12 Public Opening of Proposals
(March 1, 2021 Tacoma GSP)
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.
This public bid opening will be held via webinar. Please use the link below or on the Request for Bids page to join the webinar:

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)

Delete this section and replace it with the following:

1. A proposal will be considered irregular and will be rejected if:
   a. The Bidder is not prequalified when so required;
   b. The authorized proposal form furnished by the Contracting Agency is not used or is altered;
   c. The completed proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
   d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
   e. A price per unit cannot be determined from the Bid Proposal;
   f. The Proposal form is not properly executed;
   g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
   h. The bidder fails to submit or properly complete the EIC forms 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 reject 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
3. 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
6. 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 the 1-02.1; or
11. The bidder fails to meet the EIC requirements as described in Section 1-02.6.

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.

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.

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.

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

Revise this section to read:

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

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

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
(October 1, 2005 APWA GSP)
Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.
Within 10 calendar days after the award date, the successful bidder shall return the
signed Contracting Agency-prepared contract, an insurance certification as required by
Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before
execution of the contract by the Contracting Agency, the successful bidder shall provide
any pre-award information the Contracting Agency may require under Section 1-02.15.

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

If the bidder experiences circumstances beyond their control that prevents return of the
contract documents within the calendar days after the award date stated above, the
Contracting Agency may grant up to a maximum of 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
   b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
      Contractor) to pay all laborers, mechanics, subcontractors, lower tier
      subcontractors, material person, or any other person who provides supplies
      or provisions for carrying out the work;
4. Be conditioned upon the payment of taxes, increases, and penalties incurred on
   the project under titles 50, 51, and 82 RCW; and
5. Be accompanied by a power of attorney for the Surety’s officer empowered to
   sign the bond; and
6. Be signed by an officer of the Contractor empowered to sign official statements
   (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be
   signed by the president or vice president, unless accompanied by written proof of
the authority of the individual signing the bond(s) to bind the corporation (i.e.,
corporate resolution, power of attorney, or a letter to such effect signed by the
president or vice president).

1-03.5 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

END OF SECTION
1-04 SCOPE OF THE WORK

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

Revise the second paragraph to read:

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

1. Addenda,
2. Proposal Form,
3. Special Provisions,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. Standard Specifications,
7. Contracting Agency’s Standard Plans or Details (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

END OF SECTION
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:

- Shop Drawings/Plans
- Product Data
- Samples
- Reports
- Material Submittals (Ref. 1-06)
- Progress Schedules (Ref. 1-08.3)
- 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:

- Project Name: I-5 / S 56th Street Interchange ADA Compliance
- Project Specification Number: PW21-0462F
- Project No. PWK-01018
- Submittal Date
- Description of Submittal
- Sequential, unique submittal number.
- Related Specification Section and/or plan sheet
- 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.”
- 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

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.

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 COMMENTS”, no additional copies need to be furnished. The Contractor shall comply with any comments on the return submittal.

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.
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-05.3(6)</td>
<td>Project Red Line Drawings</td>
</tr>
<tr>
<td>1-06.1</td>
<td>Proposed Material Sources</td>
</tr>
<tr>
<td>1-06.1(2)</td>
<td>Request for Approval of Material</td>
</tr>
<tr>
<td>1-06.3</td>
<td>Manufacturer’s Certificate of Compliance</td>
</tr>
<tr>
<td>1-07.1(2)</td>
<td>COVID-19 Vaccination Declaration</td>
</tr>
<tr>
<td>1-07.4(2)</td>
<td>COVID-19 Health and Safety Plan (CHSP)</td>
</tr>
<tr>
<td>1-07.15</td>
<td>Temporary Water Pollution/Erosion Control Plan</td>
</tr>
<tr>
<td>1-07.15(1)</td>
<td>Spill Prevention, Control and Countermeasures (SPCC) Plan</td>
</tr>
<tr>
<td>1-07.16(1)</td>
<td>Property Owner Notification</td>
</tr>
<tr>
<td>1-08.3(2)</td>
<td>Progress Schedule</td>
</tr>
<tr>
<td>1-09.6</td>
<td>Equipment Rental Rates and Equipment Watch Sheets</td>
</tr>
<tr>
<td>1-09.9</td>
<td>Schedule Of Values</td>
</tr>
<tr>
<td>1-10.2</td>
<td>Traffic Control Plan</td>
</tr>
<tr>
<td>2-07.3(1)</td>
<td>Hydrant Permit</td>
</tr>
<tr>
<td>2-09.3(4)</td>
<td>Engineered Shoring Design for Depths Over 20 Feet</td>
</tr>
<tr>
<td>4-04</td>
<td>Crushed Surfacing Top Course</td>
</tr>
<tr>
<td>4-04</td>
<td>Crushed Surfacing Base Course</td>
</tr>
<tr>
<td>5-04</td>
<td>Asphalt Mix Design Certification</td>
</tr>
<tr>
<td>5-05</td>
<td>Concrete Mix Design</td>
</tr>
<tr>
<td>7-05</td>
<td>Manholes</td>
</tr>
<tr>
<td>7-05</td>
<td>Castings</td>
</tr>
<tr>
<td>7-05</td>
<td>Kor-N-Seal Connector</td>
</tr>
<tr>
<td>7-08.3(1)A</td>
<td>Special Approved Discharge (SAD) Permit for Sanitary</td>
</tr>
<tr>
<td>7-08.3(1)C</td>
<td>Pipe Bedding</td>
</tr>
<tr>
<td>7-08.3(3)</td>
<td>Trench Backfill</td>
</tr>
<tr>
<td>7-08.3(5)</td>
<td>Temporary Storm Sewer Bypass Plan</td>
</tr>
<tr>
<td>7-08.3(6)</td>
<td>Pipe Abandonment Plan</td>
</tr>
<tr>
<td>7-08.3(6)</td>
<td>CDF Mix Design</td>
</tr>
<tr>
<td>7-17</td>
<td>Pipe materials</td>
</tr>
<tr>
<td>7-18</td>
<td>Inserta-Tees</td>
</tr>
<tr>
<td>8-01.3(1)A</td>
<td>Stormwater Pollution Prevention Plan (SWPPP)</td>
</tr>
<tr>
<td>8-13</td>
<td>Monuments</td>
</tr>
<tr>
<td>8-22</td>
<td>Pavement Markings</td>
</tr>
<tr>
<td>9-29</td>
<td>Illumination, Signals, Electrical Materials</td>
</tr>
</tbody>
</table>

1-05.4 Conformity With and Deviations from Plans and Stakes

Add the following two new sub-sections:

1-05.4(1) Contractor Surveying - Roadway and Utility Surveys

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

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

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

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

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

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

1. Verify the primary horizontal and vertical control furnished by the Contracting
   Agency, and expand into secondary control by adding stakes and hubs as well as
   additional survey control needed for the project. Provide descriptions of secondary
   control to the Contracting Agency. The description shall include coordinates and
   elevations of all secondary control points.

2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on
   centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and at
   points on the alignments spaced no further than 50 feet.

3. Establish clearing limits, placing stakes at all angle points and at intermediate
   points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet
   beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown
   in the plans.

4. Establish grading limits, placing slope stakes at centerline increments not more
   than 50 feet apart. Establish offset reference to all slope stakes. If Global
   Positioning Satellite (GPS) Machine Controls are used to provide grade control,
   then slope stakes may be omitted at the discretion of the Contractor.

5. Establish the horizontal and vertical location of all drainage features, placing offset
   stakes to all drainage structures and to pipes at a horizontal interval not greater
   than 25 feet.

6. Establish roadbed and surfacing elevations by placing stakes at the top of
   subgrade and at the top of each course of surfacing. Subgrade and surfacing
   stakes shall be set at horizontal intervals not greater than 50 feet in tangent
   sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-foot
   intervals in intersection radii with a radius less than 10 feet. Transversely, stakes
shall be placed at all locations where the roadway slope changes and at additional
points such that the transverse spacing of stakes is not more than 12 feet. If GPS
Machine Controls are used to provide grade control, then roadbed and surfacing
stakes may be omitted at the discretion of the Contractor.

7. Establish intermediate elevation benchmarks as needed to check work throughout
the project.

8. Provide references for paving pins at 25-foot intervals or provide simultaneous
survey to establish location and elevation of paving pins as they are being placed.

9. For all other types of construction included in this provision, (including but not
limited to channelization and pavement marking, illumination and signals,
guardrails and barriers, and signing) provide staking and layout as necessary to
adequately locate, construct, and check the specific construction activity.

10. Contractor shall determine if changes are needed to the profiles or roadway
sections shown in the Contract Plans in order to achieve proper smoothness and
drainage where matching into existing features, such as a smooth transition from
new pavement to existing pavement. The Contractor shall submit these changes
to the Engineer for review and approval 10 days prior to the beginning of work.

11. Offset points to establish the line and grade for underground utilities such as water,
sewers, power, storm drains and other proposed and existing utilities.

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

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

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

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slope stakes</td>
<td>±0.10 feet</td>
<td>±0.10 feet</td>
</tr>
<tr>
<td>Subgrade</td>
<td>±0.01 feet</td>
<td>±0.5 feet</td>
</tr>
<tr>
<td>0.4 feet below grade</td>
<td>(parallel to alignment)</td>
<td>+/-0.1 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(normal to alignment)</td>
</tr>
<tr>
<td>Stationing on roadway</td>
<td>N/A</td>
<td>±0.1 feet</td>
</tr>
<tr>
<td>Alignment on roadway</td>
<td>N/A</td>
<td>±0.04 feet</td>
</tr>
<tr>
<td>Surfacing grade stakes</td>
<td>±0.01 feet</td>
<td>±0.5 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(parallel to alignment)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>±0.1 feet</td>
</tr>
</tbody>
</table>
Roadway paving pins for surfacing or paving ±0.01 feet +/-0.2 feet (parallel to alignment) ±0.1 feet (normal to alignment)

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

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

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

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

Stakes shall be marked in accordance with Standard Plan a10.10. When stakes are needed that are not described in the Plans, then those stakes shall be marked, at no additional cost to the Contracting Agency as ordered by the Engineer.

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

“Roadway Surveying”, lump sum

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

1-05.4(2) Bridge and Structure Surveys
(October 1, 2005 APWA GSP)

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

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

1. Centerline or offsets to centerline of the structure.
2. Stations of abutments and pier centerlines.
3. A sufficient number of bench marks for levels to enable the Contractor to set grades at reasonably short distances.
4. Monuments and control points as shown in the Plans.
The Contractor shall establish all secondary survey controls, both horizontal and vertical, as necessary to assure proper placement of all project elements based on the primary control points provided by the Engineer. Survey work shall be within the following tolerances:

- **Stationing**: ±0.01 foot
- **Alignment**: ±0.01 foot (between successive points)
- **Superstructure Elevations**: ±0.01 foot (from plan elevations)
- **Substructure Elevations**: ±0.05 foot (from plan elevations)

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

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

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 Period
(March 8, 2013 APWA GSP)

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

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

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

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

1-05.14 Cooperation With Other Contractors
(******)

Section 1-05.14 is supplemented with the following:

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

**I-5/56th NB On-Ramp Meter - Congestion Management**
Contact: Justin Janke, Project Engineer
Tacoma Project Engineer Office
253-583-3360
Justin.Janke@wsdot.wa.gov

**I-5/Portland Ave to Port of Tacoma RD – SB HOV Project**
Contact Thomas Slimak, Project Engineer
Fife Project Engineer Office
253-365-6710
Thomas.Slimak@wsdot.wa.gov

**56th and Cirque Drive Corridor Ph 2**
Contact Chuck Fain
Global Contractors, LLC
253-255-8154
Chuck@globalcontractorsllc.com

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

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

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the Contract includes power and water as a pay item.
I-5 / S 56th Street Interchange ADA Compliance
Project Number PWK-01018
Specification No. PW21-0462F

ATTN: Construction Division Date: _____________________

Submittal Number __________

Specification Number ________________ Bid Item No. __________

Submittal Description ___________________________________________

We are sending you:

<table>
<thead>
<tr>
<th>Copies</th>
<th>Date</th>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
</table>

Transmitted: ☐ Submittals (Product Data) for information only.
☐ Submittals for review and comment.

Remarks: _______________________________________________________
_____________________________________________________________
_____________________________________________________________

Certify Either A or B:

☐ 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.

☐ B. This document has been detail-checked for accuracy of content and for compliance with the Contract documents except for the attached deviations. The information contained herein has been fully coordinated with all involved Subcontractors.

Certified By: ________________________________________________
Signature

END OF SECTION
Add the following new section:

1-05.18 Record Drawings
(March 8, 2013 APWA GSP)

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

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

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

The Record Drawing markups shall document all changes in the Work, both concealed
and visible. Items that must be shown on the markups include but are not limited to:
1. Actual dimensions, arrangement, and materials used when different than shown
   in the Plans.
2. Changes made by Change Order or Field Order.
3. Changes made by the Contractor.
4. Accurate locations of storm sewer, sanitary sewer, water mains and other water
   appurtenances, structures, conduits, light standards, vaults, width of roadways,
   sidewalks, landscaping areas, building footprints, channelization and pavement
   markings, etc. Include pipe invert elevations, top of castings (manholes, inlets,
   etc.).

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

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

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>As-built sanitary &amp; storm invert and grate elevations</td>
<td>± 0.01 foot</td>
<td>± 0.01 foot</td>
</tr>
<tr>
<td>As-built monumentation</td>
<td>±0.001 foot</td>
<td>±0.001 foot</td>
</tr>
<tr>
<td>As-built waterlines, inverts, valves, Hydrants</td>
<td>± 0.10 foot</td>
<td>± 0.10 foot</td>
</tr>
<tr>
<td>As-built ponds/swales/water features</td>
<td>± 0.10 foot</td>
<td>± 0.10 foot</td>
</tr>
<tr>
<td>As-built buildings (fin. Floor elev.)</td>
<td>± 0.01 foot</td>
<td>± 0.10 foot</td>
</tr>
<tr>
<td>As-built gas lines, power, TV, Tel, Com</td>
<td>± 0.10 foot</td>
<td>± 0.10 foot</td>
</tr>
</tbody>
</table>
Making Entries on the Record Drawings:

5. Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:
   a. Additions – Red
   b. Deletions – Green
   c. Comments – Blue
   d. Dimensions – Graphite

6. Provide the applicable reference for all entries, such as the change order number, the request for information (RFI) number, or the approved shop drawing number.

7. Date all entries

8. Clearly identify all items in the entry with notes similar to those in the Contract Drawings (such as pipe symbols, centerline elevations, materials, pipe joint abbreviations, etc.).

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

Payment will be made for the following bid item:

| Record Drawings (Minimum Bid $1,000) | Lump Sum |

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

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

END OF SECTION
1-06 CONTROL OF MATERIAL

1-06.1 Approval of Materials Prior To Use
(Sepember 15, 2010 Tacoma GSP)
The first sentence is revised to read:

All materials and equipment shall be submitted for review in accordance with section 1-05.3 of these special provisions.

For aggregates, the Contractor shall notify the Engineer of all proposed aggregates. The Contractor shall use the Aggregate Source Approval (ASA) Database.

All equipment, materials, and articles incorporated into the permanent Work:

1. Shall be new, unless the Special Provisions or Standard Specifications permit otherwise;
2. Shall meet the requirements of the Contract and be approved by the Engineer;
3. May be inspected or tested at any time during their preparation and use; and
4. Shall not be used in the Work if they become unfit after being previously approved.

1-06.1(1) Qualified Products List (QPL)
This section is revised in its entirety to read:

QPL’s are not accepted by the City.

1-06.1(2) Request for Approval of Material (RAM)
This section is deleted in its entirety.

1-06.6 Recycled Materials
(January 4, 2016 APWA GSP)
Delete this section, including its subsections, and replace it with the following:

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

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

END OF SECTION
1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws to be Observed

(October 1, 2005 APWA GSP)

Supplement this section with the following:

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

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

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

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

(May 13, 2020)
In response to COVID-19, the Contractor shall prepare a project specific COVID-19 health and safety plan (CHSP) in conformance with Section 1-07.4(2) as supplemented in these specifications, COVID-19 Health and Safety Plan (CHSP).

1-07.1(2) Health and Safety

Supplement this section with the following:

(September 13, 2021)

Governor’s Proclamation 20-5/21-14

The Contractor, by submitting its Bid, agrees that it will comply with Governor’s Proclamations 20-05 as amended and 21-14 as amended, regarding COVID-19 Vaccination Requirements, and that it will require its workers, service providers, subcontractors, suppliers, and their workers to comply as well. Furthermore, prior to starting Work, the Contractor shall provide, a declaration on the form provided by the Engineer. The Contractor shall submit additional signed declarations at an interval determined by the Engineer.

The Proclamations are available at https://www.governor.wa.gov/office-governor/official-actions/proclamations
All costs related to the Governor’s Proclamations shall be considered included with or incidental to other Bid items.

1-07.2 State Taxes
(January 6, 2015 TACOMA GSP)
Supplement this section with the following:

Washington State Department of Revenue Rules 170 and 171 shall apply as shown in the Proposal and per Section 1-07.2 of the WSDOT and APWA Standard Specifications for Road, Bridge, and Municipal Construction.

1-07.2 State Taxes
Delete this section, including its sub-sections, in its entirety and replace it with the following:

1-07.2 State Tax
(June 27, 2011 APWA GSP)

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

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

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

1-07.2(1) State Sales Tax — Rule 171

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.
WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

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

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

1-07.2(3) Services

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

1-07.4 Sanitation

1-07.4(2) Health Hazards

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

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
(March 1, 2004 Tacoma GSP)
The first sentence of the third paragraph is revised to read:
Weekly certified payrolls shall be submitted for the Contractor and all lower tier subcontractors or agents.

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.

1-07.11 Requirements for Nondiscrimination
(July 18, 2016 APWA GSP, Option C)
Supplement this section with the following:
Voluntary Minority, Small, Veteran and Women’s Business Enterprise (MSVWBE) Participation

General Statement
Voluntary goals for minority, small, veteran and women business enterprises are included in this Contract. The Contractor is encouraged to utilize MSVWBEs in accordance with these Specifications, RCW 39.19 and Executive Order 13-01 (issued by the Governor of Washington on May 10, 2013).

No preference will be included in the evaluation of the Contractor’s Proposal or Bid; no minimum level of MSVWBE participation is required as a condition of award or completion of the Contract; and a Proposal or Bid will not be rejected or considered non-responsive on that basis.

The goals are voluntary and outreach efforts to provide MSVWBEs maximum practicable opportunities are encouraged.
Non-Discrimination
Contractors shall not create barriers to open and fair opportunities for all businesses, including MSVWBEs, to participate in the Work on this Contract. This includes the opportunity to compete for subcontracts as sources of supplies, equipment, construction or services.

The Contractor shall make Voluntary MSVWBE Participation a part of all subcontracts and agreements entered into as a result of this Contract.

Voluntary MSVWBE Participation Goals
Goals for voluntary MSVWBE participation have been established as a percentage of Contractor’s total Bid amount.

The Contracting Agency has established the following voluntary goals:

- Minority 11%
- Small 0%
- Veteran 0%
- Women 7%

Amounts paid to an MSVWBE will be credited to every voluntary goal in which they are eligible. In other words participation may be credited for participation in more than one category. If the Contractor is a MSVWBE their Work will be credited to the voluntary goals in which they are eligible.

Definitions
Minority Business Enterprise (MBE) – A minority owned business meeting the requirements of RCW 39.19 and WAC 326-20 and certified by the Washington State Office of Minority & Women’s Business Enterprises.


Veteran Business – A veteran owned business meeting the requirements of RCW 43.60A.010 and included on the WSDOT Office of Equal Opportunity list of Veteran Businesses at http://www.wsdot.wa.gov/equalopportunity/bddirectory.htm

Women Business Enterprise (WBE) – A women owned business meeting the requirements of RCW 39.19 and WAC 326-20 and certified by the Washington State Office of Minority & Women’s Business Enterprises.

MSVWBE Inclusion Plan
A MSVWBE Inclusion Plan shall be submitted to the Engineer prior to the start of Work on the project. The plan is submitted for the Contracting Agency’s information. Approval of the plan is not required; an incomplete plan will be returned for correction and resubmittal. The plan shall include the information identified in the guidelines at http://www.wsdot.wa.gov/EqualOpportunity/MSVWBE.htm.
**MSVWBE Reporting**

An end of project Report of Amounts Paid to MSVWBEs shall be submitted to the Engineer after Physical Completion of the Contract. The end of project report is due 20 calendar days after the physical completion of the project has been issued.

The end of project report shall include payments to all eligible businesses regardless of their listing on the MSVWBE Inclusion Plan. If the Contractor is a MSVWBE the amounts paid by the Contracting Agency for Work performed by the Contractor shall also be reported.

**MSVWBE Payment**

All costs for implementation of the requirements for Voluntary MSVWBE Participation shall be included in the associated items of Contract Work.

**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**

_February 9, 2011 Tacoma GSP_

This section is revised to read:

The Contractor shall prepare a project-specific spill prevention, control, and countermeasures plan (SPCC Plan) that will be used for the duration of the project. The Contractor shall submit the plan to the Project Engineer no later than the date of the
preconstruction conference. No on-site construction activities may commence until the Contracting Agency accepts an SPCC Plan for the project.

The SPCC Plan shall address all fuels, petroleum products, hazardous materials, and other materials as defined in Chapter 447 of the WSDOT Environmental Procedures Manual (M 31-11). Occupational safety and health requirements that may pertain to SPCC Plan implementation are contained in, but not limited to, WAC 296-824 and WAC 296-843.

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.

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

1. 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.

2. Spill Reporting
List the names and telephone numbers of the Federal, State, and local agencies the Contractor shall notify in the event of a spill. The City of Tacoma contact will be the Wastewater Treatment Plant Operations number at 253.591.5595 and the City Source Control Spill Response number at 253.502.2222.

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

4. 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):
A. Name of material and its intended use.
B. Estimated maximum amount on-site at any one time.
C. 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.
D. Decontamination location and procedure for equipment that comes into contact with the material.
E. Disposal procedures.
F. Include a Material Safety Data Sheet (MSDS) for each potentially hazardous material.

5. 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.

6. Spill Prevention and Response Training
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.

7. Spill Prevention
Describe the following items:
A. Spill response kit contents and location(s).
B. Security measures for potential spill sources.
C. Secondary containment practices and structures for all containers to handle the maximum volume of potential spill of hazardous materials.
D. Methods used to prevent stormwater from contacting hazardous materials.
E. Site inspection procedures and frequency.
F. Equipment and structure maintenance practices.
G. Daily inspection and cleanup procedures that ensure all equipment used below the ordinary high water line is free of all external petroleum-based products.
H. Refueling procedures for equipment that cannot be moved from below the ordinary high water line.

8. 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.

9. Project Site Map

Provide a map showing the following items:

A. Site location and boundaries.
B. Site access roads.
C. Drainage pathways from the site.
D. Nearby waterways and sensitive areas.
E. Hazardous materials, equipment, and decontamination areas identified in 4, above.
F. Pre-existing contamination or contaminant sources described in 5, above.
G. Spill prevention and response equipment described in 7 and 8, above.

10. 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:

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

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

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

5. 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
(March 7, 2017 Tacoma GSP)
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:
If the Contractor plans to excavate or trench within ten (10) feet of any utility pole or other electric or water utility structure owned by the City of Tacoma, the Contractor shall contact the City of Tacoma, Department of Public Utilities, Field Coordinator, telephone number 502-8044, and arrange for an inspection before proceeding. The Contractor shall perform, at the Contractor's expense, such additional work as is required to protect the pole or structure from subsidence. The Contractor may be directed to suspend work at the site of any such excavation until such utility structures are adequately protected.

Garbage, recycling, and yard waste pick up within the project limits is on Thursday.

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.

1-07.23(1) Construction under Traffic (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:

South 56th Street*, Tacoma Mall Boulevard*, Alaska Street*, South 54th Street*, and Interstate 5^ on- and off-ramps shall remain fully open to vehicular and pedestrian traffic at all times.

No work is permitted to occur within the City’s various business districts (which includes the Tacoma Mall area and the limits of this project) and downtown areas during the period from November 25, 2021 through January 2, 2022 nor from November 24, 2022 through January 2, 2023.

EXCEPTION:

1. Non-arterial classified roadways (those without “*” in the list above) are permitted to be closed to on-street parking, or closed completely (except for pedestrian traffic), in the vicinity of the work site to extent needed to conduct the work and/or to facilitate temporary traffic control.

2. Project work areas adjacent to or encroaching into arterial streets (as identified with an “*” in the list above) shall not hinder the safety or traffic operations of the arterial street such that two-way vehicular traffic cannot be maintained at all times and shall also endeavor to maintain the operation of the current number of travel lanes if possible. If the work encroaching into arterial street and cannot practicably be completed while maintaining the current lane configuration/number of lanes, then a lane may be closed for the duration of active work hours and returned to regular operation (minimum 10-ft clear lane width) during non-working hours if at all practical/safe. If the lane(s) cannot be returned to acceptable operation during non-working conditions, then the encroachment/closure and associated temporary traffic controls shall be used continuously for a period of time minimized through work efforts, means, and methods and subject to City (and WSDOT) review and pre-approval. For traffic movements/routing, occurring at any time, that would no longer be possible due to a closed lane and/or temporary traffic control set-up, a detour plan must be established using an alternate arterial route to be submitted at least fifteen (15) working days in advance for review and approval by the City.

3. Work areas and their associated traffic control provisions that affect the I-5 on- and off-ramps within the project limits are further restricted per WSDOT requirements. These include, but are not limited to, maintaining the unhindered operation of the on- and off-ramps at all times although the associated lane width may be reduced to no less than 11-feet (clear width). If the scope of work cannot be practicably carried out, after discussing the issue with the City and WSDOT, then any proposed on- and/or off-ramp closures must be coordinated with WSDOT at least 21 calendar days in
advance and include the associated detour provisions, notices to the public, and any associated WSDOT permitting (including fees). Once/if approved, the work affecting the on-/off-ramp(s) may only be carried out during the hours from 10 PM to 5 AM and shall not occur on WSDOT-recognized holidays nor from noon of the day before a holiday weekend until noon of the day after a holiday weekend.

4. As is generally the case, at a given intersection/location/work site, only one corner (including one or two pedestrian ramps—see Traffic Control Plans provided in the bid documents for more specific restrictions) may be closed/under construction at a given time nor can certain corners of adjacent intersections be closed for construction concurrently if the corner is needed to accommodate an alternate pedestrian route. If the closed corner/pedestrian ramps hinder a prescribed walking route, such as a school walking route, or forces pedestrians following a pedestrian detour route to cross a roadway with lesser control provisions that usual, then additional provisions in the form of flaggers (during working hours) and/or temporary crosswalk-related provisions (during working/non-working hours) are required to assist pedestrians (particularly students) around or through the work zone.

Sidewalks closed in between intersections require proper closure barricading and advance notice to pedestrians at locations where a legal crossing of the associated roadway is possible and advisable.

4. For the identified arterial roadways (see #3 above for conditions relating to the I-5 on-/off-ramps), the weekday working hours for travel lane encroachments/closures are from 8:30 AM until 3:00 PM. Potential weekend working hours (without needing a noise variance) would be from 9:00 AM until 9:00 PM (with night time/low-light conditions requiring the commensurate additional temporary traffic control elements). Any associated shoulder areas (unless also affecting I-5 on-/off-ramps, in which case, working hours are limited to between 9:00 AM and 3:00 PM) may be used during active working hours (only) so long as properly identified, controlled, and buffered from the travel way while not creating hindered visibility for potentially conflicting traffic flows. During non-working hours, the work zone shall be removed or condensed (as feasible) to allow affected lanes to be fully in effect—i.e., 10-foot minimum clear width (except for on-/off-ramps which would be 11-foot minimum clear width).

During active working days/times, on- and off-ramps’ lanes to/from Interstate 5 may be reduced in width to 11 feet clear when adjacent to temporary traffic control devices and/or the corresponding work zone. During non-working hours, the clear width of the on- and off-ramps’ lanes shall be increased to the maximum possible given work site/work progress limitations. In no case shall on- or off-ramp traffic be permitted to queue to the extent that it interferes with the mainline traffic flow on Interstate 5 and/or the South 56th Street or Tacoma Mall Boulevard travel lanes for through traffic.

Work that impacts pedestrian access shall be confined to one side of South 56th Street at a given time, with the remaining side of South 56th Street being maintained as a safe pedestrian access through the area. This same requirement shall also apply to Tacoma Mall Boulevard and any overlapping of temporary traffic control provisions of the two corridors. Due to the work site locations on South 56th Street in between Tacoma Mall Boulevard and Alaska Street having no intermediate legal location for pedestrians to cross South 56th Street, all work sites impacting pedestrian access along either the north or south side of South 56th Street may be closed concurrently in association with active
work so long as pedestrian control elements are in place at the work sites and at the
appropriate upstream locations per the approved traffic control plan. While work is being
performed at South 56th Street/Interstate 5 interchange, no concurrent work may take
place along the sidewalks or intersections upstream/downstream along South 56th Street
unless the other work sites/provisions are shown to be complementary to the overall
temporary traffic control plan, including the resulting pedestrian routing.

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.

All lane closures shall be coordinated with the adjacent businesses, other contractors
working within the project vicinity, local transit agencies and the City.

Where, in the opinion of the Engineer, parking is a hazard to through traffic or to the
construction work, parking may be restricted either entirely or during the time when it
creates a hazard. Signs for restricting parking shall be approved by the City and placed
by the Contractor. The Contractor shall be responsible for and shall maintain all such
signs. The replacement of signs restricting parking shall be as approved by the
Engineer.

The Contractor shall notify all property owners and tenants of detours, street and alley
closures, or other restrictions that may interfere with their access. Notification shall be at
least seventy-two (72) hours in advance for affected properties.

Emergency traffic, such as police, fire, and disaster units, shall be provided access at all
times. In addition, the Contractor shall coordinate Contractor activities with all disposal
firms and transit bus service that may be operating in the project area.

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
debri 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 five (5) working days in advance of 
implementation of any street closures/detours allowed under the Contract. Advance 
notice signing shall be placed a minimum of five (5) 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:

Tacoma Fire Dept. (253-591-5775)
Tacoma Police Dept. (253-591-5932)
LESA Communications Center (253-798-4721 - Opt.#3)
Tacoma Public Schools Transportation Office (253-571-1853)
Pierce Transit (253-581-8109)
Tacoma Environmental Services Solid Waste (253-591-5544)
Tacoma Public Works Engineering Division (253-591-5500)
Tacoma Public Works Streets and Grounds (253-591-5495)
Tacoma Traffic Shop – Signal/Lighting (253-591-5287)
WSDOT Transportation Office (360-900-9541)

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 72 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
Add the following new section:

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

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

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

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

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

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

Add the following new section:

1-08.0(2) Hours of Work
(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 - D/M/WBE Reporting (September 29, 2009 Tacoma GSP)

The eighth paragraph is revised to read:

On all projects funded with Contracting Agency funds only, the Contractor shall certify to the actual amounts paid Disadvantaged, Minority, or Women’s Business Enterprise firms that were used as subcontractors, lower tier subcontractors, manufacturers, regular dealers, or service providers on the contract. This certification shall be submitted to the Engineer, on the form provided by the Engineer, 20 calendar days after physical completion of the contract.

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)A  Type A Progress Schedule
(March 13, 2012 APWA GSP)
Revise this section to read:

The Contractor shall submit 6 copies of a Type A Progress Schedule no later than at the
preconstruction conference, or some other mutually agreed upon submittal time. The
schedule may be a critical path method (CPM) schedule, bar chart, or other standard
schedule format. Regardless of which format used, the schedule shall identify the critical
path. The Engineer will evaluate the Type A Progress Schedule and approve or return
the schedule for corrections within 15 calendar days of receiving the submittal.

1-08.4 Prosecution of Work
Delete this section and replace it with the following:

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

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

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

1-08.5 Time for Completion
(March 16, 2016 Tacoma GSP)
Revise the third and fourth paragraphs to read:

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

Revise the sixth paragraph to read:

The Engineer will give the Contractor written notice of the completion date of the contract after all the Contractor’s obligations under the contract have been performed by the Contractor. The following events must occur before the Completion Date can be established:
1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
   a. Certified Payrolls (per Section 1-07.9(5)).
   b. Material Acceptance Certification Documents
   c. 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:
(March 1, 2004 Tacoma GSP)

This project shall be physically completed within 50 working days.

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

Revise the fourth paragraph to read:

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

END OF SECTION
1-09 MEASUREMENT AND PAYMENT

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

Revise item 4 of the fifth paragraph to read:

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

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

Supplement this Section with the following:

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

(January 13, 2011 Tacoma GSP)

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

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.

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

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

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

The Contractor shall submit a breakdown of the cost of lump sum bid items at the
Preconstruction Conference, to enable the Project Engineer to determine the Work
performed on a monthly basis. A breakdown is not required for lump sum items that
include a basis for incremental payments as part of the respective Specification. Absent
a lump sum breakdown, the Project Engineer will make a determination based on
information available. The Project Engineer’s determination of the cost of work shall be
final.
Progress payments for completed work and material on hand will be based upon progress estimates prepared by the Engineer. A progress estimate cutoff date will be established at the preconstruction conference.

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

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

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

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

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

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

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:

6. A “General Release to the City of Tacoma” is on file with the Contracting Agency.
7. A release has been obtained from the City of Tacoma’s City Clerk’s Office.

1-09.13(3)A Administration of Arbitration
(November 30, 2018 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 are 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.

END OF SECTION
1-10 TEMPORARY TRAFFIC CONTROL

1-10.1(2) Description
(July 22, 2019 Tacoma GSP)
The first sentence of the fourth paragraph is revised to read:
The Contractor shall keep lanes, on-ramps, and off-ramps open to traffic at all times except when Work requires closure(s) that have been requested and approved in accordance with sections 1-07.23 and 1-10.2(2).
The third sentence of the fourth paragraph is revised to read:
Approved lane and ramp closures shall be for the minimum time required to complete the Work.
This section is supplemented with the following:
Only uniformed off-duty police officers shall be used to control traffic when it is necessary to override or provide traffic control at signalized intersections. Off-duty City of Tacoma Police Department officers are preferred within the jurisdiction of the Tacoma PD, and the Contractor shall grant the Tacoma PD the “first right of refusal” by contacting the Tacoma PD first as stated below.
The City will make all necessary temporary adjustments to existing traffic signals and traffic signal activators.
Existing signs shall not be removed until the Contractor has provided for temporary measures sufficient to safeguard and direct traffic after existing signs have been removed. Preservation of temporary traffic control and street name signs shall be the sole responsibility of the Contractor.
As the work progresses and permits, temporarily relocated and/or removed traffic signs shall be reset in their permanent location. Permanent signs and other traffic control devices damaged or lost by the Contractor shall be replaced or repaired at the Contractor’s expense.

Traffic Control Management
1-10.2(1) General
(January 3, 2017)
Section 1-10.2(1) is supplemented with the following:
Only training with WSDOT TCS card and WSDOT training curriculum is recognized in the State of Washington. The Traffic Control Supervisor shall be certified by one of the following:
The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035
A City and WSDOT approved traffic control plan is provided in the bid documents for the project work sites, which can be adopted as a general reference by the Contractor. Depending on contract means and methods, including desired overall work plan/schedule, alternative and/or more specific temporary traffic control plans will be needed which the Contractor can develop and submit for City (and WSDOT) review and approval. Additionally, and as referenced in the approved traffic control plan and as necessary for other work sites within the project, there are sample traffic/pedestrian control plans presented in the City of Tacoma’s Traffic Control Handbook (available upon request or via [http://www.govme.org/download/PDF/Traffic_Control_Handbook.pdf](http://www.govme.org/download/PDF/Traffic_Control_Handbook.pdf)).

All off-duty officers shall be commissioned within the State of Washington. Tacoma Police Department officers shall be the first choice for traffic control that overrides any traffic signal within the jurisdiction of the City of Tacoma PD. The Contractor shall first contact Tacoma Police Department, Special Events Sergeant, to schedule police officers for the specified traffic control duty.

The Contractor shall request officers at least 48 hours in advance for scheduling, unless an exception is approved by the Engineer.
The Contractor shall immediately notify the Engineer in writing if Tacoma PD cannot supply officers for the requested date(s). The Contractor shall include the written response from Tacoma PD and state the preference to either postpone the affected Work or request officers from other State of Washington jurisdictions. Using officers from other jurisdictions must be approved by the Engineer.

The Contractor will not be compensated for any off-duty officers from other jurisdictions performing traffic control without prior approval from the Engineer, and the Contracting Agency may stop work in accordance with Section 1-08.6, “Suspension of Work”.

1-10.3(3)A Construction Signs
(January 11, 2006 Tacoma GSP)
The fifth paragraph is revised to read:

Signs, posts, or supports that are lost, stolen, damaged, destroyed, or which the Engineer deems to be unacceptable while their use is required on the project shall be replaced by the Contractor at their expense.

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, as many as eight (8) anticipated for this project, 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 (including off-ramps with WSDOT concurrence) 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 Changeable Message Signs (PCMS), the contractor is required to change the default password and to take other appropriate measures of 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.

1-10.4(2) Item Bids with Lump Sum for Incidentals
(January 11, 2006 Tacoma GSP)
This section is supplemented with the following:

No unit of measure will apply to the position of traffic control manager and it will be considered included in other unit contract prices in the Bid Proposal.

“Uniformed Police Officer for Traffic Control” will be measured by the hour. Portions of an hour will be rounded up to a whole hour.
This section is supplemented with the following:

“Uniformed Police Officer for Traffic Control”, per hour. The unit contract price, when applied to the number of units measured for this item in accordance with Section 1-10.4(2), shall be full compensation for all cost incurred by the Contractor in performing the work in accordance with Section 1-10.3(2)F. When the Bid Proposal does not include “Uniform Police Officer for Traffic Control” as a pay item, all costs shall be included in the pay item “Project Temporary Traffic Control”.

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 project site which are necessary for completion of other project 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.

2-01.2 Disposal of Usable Material and Debris
The second paragraph is revised to read:
The Contractor shall dispose of all debris in accordance with Section 2-01.2(2).

2-01.3(1) Clearing
This section is revised to read:

1. Fell trees only within the area to be cleared.
2. Close-cut parallel to the slope of the ground all stumps to be left in the cleared area outside the slope stakes.
3. Close cut all stumps that will be buried by fills 5-feet or less in depth.
4. Follow these requirements for all stumps that will be buried by fills deeper than 5-feet from the top, side, or end surface of the embankment or any structure and are in a location that will not be terraced as described in Section 2-03.3(14):
   a. Close-cut stumps under 18-inches in diameter.
   b. Trim stumps that exceed 18-inches in diameter to no more than 12-inches above original ground level.
5. Leave standing any trees or native growth indicated by the Engineer.
6. Trim all trees to be left standing to the height specified by the Engineer, with a minimum height of eight (8) feet above sidewalk and fourteen (14) feet above the roadway surface. Neatly cut all limbs close to the tree trunk.
7. Thin clumps of native growth as the Engineer may direct.
8. Protect, by fencing if necessary, all trees or native growth from any damage caused by construction operations.

2-01.3(2) Grubbing
Item e is revised to read:
Upon which embankments will be placed, except stumps may be close-cut or trimmed as allowed in Section 2-01.3(1) item 4.

END OF SECTION
2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS
(December 9, 2005 Tacoma GSP)

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

This section is deleted.

END OF SECTION
2-03 ROADWAY EXCAVATION AND EMBANKMENT
(*****)

2-03.1 Description
The last sentence of the first paragraph is deleted.

2-03.3(5) Slope Treatment
This section is deleted.

2-03.3(19) Removal of Pavement, Sidewalks, Curbs, and Gutters
This section is deleted.

2-03.5 Payment
This section is revised to read:

Payment for all Work as described in section 2-03 shall be included in the unit price for other pay items in the proposal.

END OF SECTION
2-06.3 Construction Requirements

This section is supplemented with the following:

Subgrade Repair for Subgrade Not Constructed Under Same Contract

Upon removal of pavement, the Contractor and City Inspector shall walk the subgrade surface to determine and delineate any subgrade areas that need to be repaired. Any subgrade areas that require repair, from the initial walkthrough, shall be determined solely by the City Inspector. Any initial subgrade repairs shall be paid for according to Section 2-06.5(2). Subgrade repair shall be performed in accordance with Section 2-06 and immediately after it has been determined and delineated. In order to minimize damage to the subgrade, the Contractor is encouraged to minimize pavement removal during the work.

Subgrade Maintenance and Protection

Immediately after the contractor constructs the subgrade or completes initial subgrade repair to the City’s satisfaction, the contractor shall maintain and protect the subgrade. Any defects or damage of the subgrade thereafter shall be repaired or replaced according to Section 2-06, at the Contractor’s expense before placement of any succeeding courses or pavement. Maintenance and protection of the subgrade shall be the responsibility of the Contractor. The Contractor shall be required to take precautionary measures to prevent damage by heavy loads or equipment, as well as from inclement weather.

The Contractor and City Inspector should walk the exposed subgrade on a daily basis to determine if there is damage to the subgrade. Any Subgrade areas that require repair according to this section shall be determined solely by the City Inspector.

2-06.5 Measurement and Payment

This section is supplemented with the following:

Subgrade Maintenance and Protection shall be paid by lump sum and shall apply to all subgrade.

“Subgrade Maintenance and Protection”, per lump sum

The lump sum price for “Subgrade Maintenance and Protection” shall be full pay for all material, labor, and equipment for implementation of subgrade maintenance and protection, as determined by the City Inspector.

If the contractor fails to protect the subgrade so that additional subgrade repairs are required as determined by the City Inspector, then the city shall not owe payment for these additional subgrade repairs in accordance with Section 2-06.3.

2-06.5(2) Subgrade Not Constructed Under Same Contract

Item 5 under this section is deleted.

END OF SECTION
2-07 WATERING
(August 3, 2009 Tacoma GSP)

2-07.3 Construction Requirements
The last sentence of the first paragraph is revised to read:
The Engineer may direct that the Contractor apply water during non-working hours such
as evenings, weekends, or recognized holidays.

Section 2-07.3 is supplemented with the following:

2-07.3(1) Water Supplied from Hydrants

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.

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.

The Contractor shall obtain a Hydrant Permit prior to start of work by contacting the
Water Permit Counter at (253) 502-8247, 2nd floor, Tacoma Public Utilities,
Administrative Building, 3628 South 35th Street, Tacoma, WA 98409. A copy of the
approved Hydrant Permit shall be submitted to the Engineer.

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.

END OF SECTION
2-09 STRUCTURE EXCAVATION
(March 17, 2016 Tacoma GSP)

2-09.4 Measurement
This section is supplemented with the following:

Longitudinal Limits. For all storm and sanitary sewers the longitudinal measurement
will be from center of manhole to center of manhole or to the inside face of catch basins
and similar type structures.

The fourth paragraph is revised to read:

There will be no specific unit of measure for the excavation required for manholes, catch
basins, grate inlets, and drop inlets.

2-09.5 Payment
The pay item for “Structure Excavation Class B”, is revised to read:

“Structure Excavation Class B”, per cubic yard.

The unit Contract price for “Structure Excavation Class B” shall be full payment for all
excavation, removal of water; storing, protecting and re-handling of suitable backfill
material; backfilling of the trench, compaction of backfill, and all other work necessary for
the construction of the sewer trench.

END OF SECTION
2-13 VEGETATION REMOVAL

(* *****)

2-13.1 Description

This Work shall consist of the removal and disposal of vegetation identified on the Plans.

2-13.2 Definition of Vegetation

A “tree” is defined as any self-supporting, woody perennial plant having a main stem (trunk) and which normally attains a height of at least ten (10) feet at maturity, usually with one (1) main stem or trunk and many branches.

A “shrub” is defined as any woody perennial plant which normally attains a height of less than ten (10) feet at maturity and which can be construed to have some landscape value.

“Brush” is defined as any perennial vegetation which normally attains a height of ten (10) feet or less at maturity, which is not maintained as part of a landscape feature, which is “volunteer” growth or which exists in a naturalized state. Examples include but are not limited to stands of blackberries and scotch broom.

2-13.3 Construction Requirements

All stumps not identified for removal shall be close-cut parallel to the slope of the ground.

All stumps identified for stump grinding shall be ground to eight inches below final grade.

Disposal of all debris shall be in accordance with Section 2-01.2(2).

2-13.4 Measurement

Trees shall be classified by the measured circumference at a point four and one-half (4-1/2) feet above average ground level. Trees that have several stems at the four and one-half (4-1/2) foot height will be considered a tree clump. The largest diameter single stem will be measured and will dictate the class rating. Only the largest, single stem in the clump will be utilized for measurement and payment.

Stumps shall be classified by the measured circumference at the highest point of the stump above the average ground level or a point four and one-half (4-1/2) feet above the average ground level, which ever is less.

Trees and stumps will be classified as follows:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Measurement</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 12 inches</td>
<td></td>
<td>Class 0</td>
</tr>
<tr>
<td>12 inches up to but not including 36 inches</td>
<td></td>
<td>Class I</td>
</tr>
<tr>
<td>36 inches up to but not including 72 inches</td>
<td></td>
<td>Class II</td>
</tr>
<tr>
<td>72 inches up to but not including 127 inches</td>
<td></td>
<td>Class III</td>
</tr>
<tr>
<td>127 inches or more (Tree height greater than 30 feet)</td>
<td></td>
<td>Class IV</td>
</tr>
<tr>
<td>127 inches or more (Tree height of 30 feet or less)</td>
<td></td>
<td>Class V</td>
</tr>
</tbody>
</table>
No specific unit of measure shall apply to Work described in section 2-13.

2-13.5 Payment

Payment for all Work as described in section 2-13 shall be included in the unit contract price for Clearing and Grubbing per section 2-01.5.

END OF SECTION
2-14 PAVEMENT REMOVAL
(March 17, 2003 Tacoma GSP)

2-14.1 Description

The Work described in this section includes the removal and disposal of pavement surfaces identified on the Plans or as marked in the field.

2-14.2 Pavement Classification

Removal of pavement will be according to type and class based on composition and thickness, as defined below:

Type I
Pavement removal where all or portions of the existing pavement is being removed in conjunction with street construction or any other removal not described below for Type II or Type III.

Type II
Pavement removal required for the placing of utilities at greater and varying depths, such as sewers.

Type III
Pavement removal required for narrow and shallow utility cuts in order to install light cables, conduits and similar shallow utilities.

Class A2
Class A2 pavement removal shall apply to the removal of asphalt concrete, bituminous road surfacing, multiple lift bituminous surface treatments or any combination of these components having an average thickness of two inches or less.

Class A4
Class A4 pavement removal shall apply to the removal of asphalt concrete, bituminous road surfacing, multiple lift bituminous surface treatments or any combination of these components having an average thickness between two inches and four inches.

Class A8
Class A8 pavement removal shall apply to the removal of asphalt concrete, bituminous road surfacing, multiple lift bituminous surface treatments or any combination of these components having an average thickness between four inches and eight inches.

Class C6
Class C6 pavement removal shall apply to all non-reinforced cement concrete pavements or slabs having an average thickness of six inches or less. 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.

Class C12
Class C12 pavement removal shall apply to all non-reinforced cement concrete pavements or slabs having an average thickness of between 6 inches and 12 inches.
Class CA  Class CA pavement removal shall apply to all pavements that have a wearing surface of asphalt concrete upon a cement concrete pavement or, cement concrete base, and for which the total combined thickness of the pavement averages between six inches and twelve inches.

Class H  Class H pavement removal shall apply to early type pavement of a cement concrete base with a brick or cobblestone surface and potentially an additional layer of asphalt concrete pavement for which the total combined thickness of the pavement averages between ten inches and twenty inches.

2-14.3 Construction Requirements

All final meetlines shall be sawcut.

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.

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.

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.

2-14.4 Measurement

Pavement removal will be measured per square yard.

Type I pavement removal will be measured in its original position through the use of survey techniques.

2-14.5 Payment

Payment will be made in accordance with Section 1-04.1.

“Remove Existing Pavement, Type ___Class___”, per square yard

All costs associated with saw cutting meet lines shall be included in the unit Contract price for pavement removal.

END OF SECTION
2-15 CURB AND CURB AND GUTTER REMOVAL

(******)

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.

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

“Remove Curb”, per linear foot

The unit contract price per linear foot for “Remove Curb” shall include costs for removing all classifications of curb, and curb and gutter. All costs associated with saw cutting necessary for the removal of curb and/or curb and gutter shall be included in the unit Contract price for removal.

END OF SECTION
2-16 REMOVAL OF CATCH BASINS, MANHOLES, CURB INLETS, ETC.
(March 17, 2003 Tacoma GSP)

2-16.1 Description

The Work described in this section includes the complete removal and disposal of catch basins, manholes, and curb inlets as identified on the Plans.

2-16.2 Vacant

2-16.3 Construction Requirements

Where the structures are removed, the excavation shall be backfilled with native material if deemed suitable by the Engineer or imported backfill material.

Material determined by the Engineer to be unsuitable at the time of excavation shall be removed and replaced with imported backfill material. Payment will be made at the unit contract price of the item in the proposal, or as extra work under Section 1-04.4 if not included as an item in the proposal.

All pipe openings shall be plugged in accordance with 7-08.3(4).

The removal of the structures 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.

2-16.4 Measurement

The removal of catch basins, manholes, and curb inlets will be measured per each.

2-16.5 Payment

Payment will be made in accordance with Section 1-04.1.

“Remove Catch Basin”, per each

“Remove Manhole”, per each

“Remove Curb Inlet”, per each

All costs associated with the placement and compaction of the backfill material shall be included in the unit Contract price for removal.

END OF SECTION
3-04 ACCEPTANCE OF AGGREGATE
(April 1, 2012 Tacoma GSP)

3-04.1 Description
The first and third paragraphs are deleted.

The fourth paragraph is revised to read:

Nonstatistical evaluation will be used for the acceptance of aggregate materials.

3-04.3(1) General
The first sentence is revised to read:

For the purpose of acceptance sampling and testing, all test results obtained for a material type will be evaluated collectively.

3-04.3(4) Testing Results
This section is replaced with the following:

The results of all acceptance testing will be provided by the City’s Project Engineer within 3 working day of testing.

3-04.3(6) Statistical Evaluation
This section is deleted.

END OF SECTION
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:
- The Contracting Agency shall not be required to perform statistical analysis of any acceptance test results.
- 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.
- 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:
- Hamburg Wheel track Test and Section 9-03.8(2), or
- Tensile Strength Ratio (TSR) Test per AASHTO T 283, or
• Previous WSDOT Lab mix design verification test data and stripping evaluation, per the Engineer’s discretion and as stated below.

With the HMA mix design submittal the Contractor shall provide one of the following mix design verification certifications for Contracting Agency review:

- The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below.
- The proposed HMA mix design on WSDOT Form 350-042 with the seal and certification (stamp & signature) of a valid licensed Washington State Professional Engineer.**
- The Mix Design Report for the proposed HMA mix design developed by a qualified City or County laboratory that is within one year of the approval date.**

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

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

For the use of Commercial HMA, the Contractor shall select a class of HMA and design level of Equivalent Single Axle Loads (ESAL’s) appropriate for the required use. Commercial HMA can be accepted by a Contractor certificate of compliance letter stating the material meets the HMA requirements defined in the Contract.

5-04.2(2)B Using HMA Additives
(April 1, 2018 Tacoma GSP)

This section is revised to read:

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

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

• Before using additives, obtain the Engineer’s approval using WSDOT Form 350-076 to describe the proposed additive and process.

5-04.3 Construction Requirements
5-04.3(2) Paving Under Traffic
(April 1, 2018 Tacoma GSP)
The second paragraph is supplemented with the following:

No traffic shall be allowed on any newly placed pavement without the approval of the Engineer.

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:

None

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:


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
(April 1, 2018 Tacoma GSP)
The title of this Section is revised to read:

5-04.3(9)B Mixture Acceptance – Nonstatistical Evaluation

5-04.3(9)B1 Mixture Statistical Evaluation – Lots and Sublots
(April 1, 2018 Tacoma GSP)
The title of this Section is revised to read:

5-04.3(9)B1 Mixture Nonstatistical Evaluation – Lots and Sublots
This Section is revised to read:

For HMA in a structural application, sampling and testing for total project quantities less
than 400 tons is at the discretion of the engineer. For HMA used in a structural
application and with a total project quantity less than 800 tons but more than 400 tons, a
minimum of one acceptance test shall be performed:

i. If test results are found to be within specification requirements, additional
testing will be at the engineer's discretion.

ii. If test results are found not to be within specification requirements, additional
testing as needed to determine a CPF shall be performed.

iii. For a mixture lot in progress with a mixture CPF less than 0.75, a new
mixture lot will begin at the Contractor's request after the Engineer is satisfied
that material conforming to the Specifications can be produced. See also
Section 5-04.3(11)F.

iv. If, before completing a mixture lot, the Contractor requests a change to the
JMF which is approved by the Engineer, the mixture produced in that lot after
the approved change will be evaluated on the basis of the changed JMF, and
the mixture produced in that lot before the approved change will be evaluated
on the basis of the unchanged JMF; however, the mixture before and after
the change will be evaluated in the same lot. Acceptance of subsequent
mixture lots will be evaluated on the basis of the changed JMF.

5-04.3(9)E Mixture Acceptance – Notification of Acceptance Test Results
(Aug 1, 2020 Tacoma GSP)
This section is revised to read:

The Contracting Agency will endeavor to provide written notification (via email to the
Contractor's designee) of acceptance test results within 24 hours of the sample being
made available to the Contracting Agency. However, the Contractor agrees:
1. Quality control, defined as the system used by the Contractor to monitor, assess, and adjust its production processes to ensure that the final HMA mixture will meet the specified level of quality, is the sole responsibility of the Contractor.

2. The Contractor has no right to rely on any testing performed by the Contracting Agency, nor does the Contractor have any right to rely on timely notification by the Contracting Agency of the Contracting Agency’s test results (or statistical analysis thereof), for any part of quality control and/or for making changes or correction to any aspect of the HMA mixture.

3. The Contractor shall make no claim for untimely notification by the Contracting Agency of the Contracting Agency’s test results (or statistical analysis thereof).

5-04.3(10)B HMA Compaction - Cyclic Density
(April 1, 2018 Tacoma GSP)
This section is deleted.

5-04.3(10)C1 HMA Compaction Statistical Evaluation – Lots and Sublots
(April 1, 2018 Tacoma GSP)
This section is deleted.

5-04.3(10)C2 HMA Compaction Statistical Evaluation – Acceptance Testing
(April 1, 2018 Tacoma GSP)
The title of this section is revised to read:

5-04.3(10)C2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing

The second paragraph is revised to read:

Compaction tests will be performed at a minimum of 5 various locations, as determined by the Engineer, for each 400 tons placed. The locations will be determined by the stratified random sampling procedure conforming to WSDOT Test Method T 716. For an area in progress with a CPF less than 0.75, a new compaction sequence will begin at the Contractor’s request after the Project Engineer is satisfied that material conforming to the Specifications can be produced. The Compaction Test Procedures will be provided to the Contractor by the Contracting Agency at the Pre-Construction Conference or a Pre-Paving Meeting, prior to the placement of HMA material on site.

This Section is supplemented with the following:

Cores may be used as an addition to the nuclear density gauge tests. When cores are taken by the Engineer at the request of the Contractor, the request shall be made by noon of the first working day following placement of the mix. The Engineer shall be reimbursed for the coring expenses.

The Engineer will inform the Contractor of field compaction test results as work is being performed. Formal Test Report(s) will be provided to the Contractor within 3 Working Days.

HMA for preleveling shall be compacted to the satisfaction of the Engineer.
**5-04.4 Measurement**  
(April 1, 2018 Tacoma GSP)  
The first paragraph is revised to read:  

HMA Cl. __ PG ___, HMA for __ Cl. __ PG __, and Commercial HMA will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, blending sand, mineral filler, anti-stripping additive, or any other component of the mixture; and the measurement shall include asphalt wedge curbs and thickened edges in accordance with the Plans or as directed by the Engineer. If the Contractor elects to remove and replace mix as allowed in Section 5-04.3(11), the material removed will not be measured.

The second paragraph is revised to read:  

No specific unit of measure will apply to roadway cores, which shall be included in the measurements for the HMA items that are included in the Proposal.

This section is supplemented with the following:  

HMA for Approach Cl. __ PG 58H-22 shall be measured per square yard of finished driveway and approach.

No specific unit of measure will apply to anti-stripping additive, which shall be included in the measurements for the HMA items that are included in the Proposal.

**5-04.5 Payment**  
(April 1, 2018 Tacoma GSP)  
Pay items for “Job Mix Compliance Price Adjustment” and “Compaction Price Adjustment” are deleted.

The following pay items for HMA are revised to read:  

“HMA Cl. __ PG ___”, per ton.  
“HMA for __ Cl. __ PG ___”, per ton.

The unit Contract price per ton for “HMA Cl. __ PG ___” and “HMA for __ Cl. __ PG ___” shall be full payment for all costs incurred to carry out the requirements of Section 5-04, including coring and testing, and shall include anti-stripping additive, asphalt wedge curbs, thickened edges, curb drains, and connection to existing drains in accordance with the Contract. Any costs that are already included in other Bid items in the Proposal shall not be included in the unit Contract prices per ton for these HMA Bid items.

The pay item “HMA for Approach Cl. __ PG ___” is revised to read:  

“HMA for Approach Cl. __ PG 58H-22”, per square yard.

The unit Contract price per square yard for “HMA for Approach Cl. __ PG 58H-22” shall be full payment for all costs incurred to carry out the requirements of Section 5-04, including anti-stripping additive; and shall include asphalt wedge curbs, thickened edges, curb drains, and connection to existing drains in accordance with the Contract. Any costs that are already included in other Bid items in the Proposal shall not be included in
the unit Contract price per square yard for this HMA Bid item. The Contractor shall also
include all costs associated with excavating for driveways and approach, including haul
and disposal in the unit Contract price per square yard for “HMA for Approach Cl. ___ PG
58H-22”, regardless of the depth.

This section is supplemented with the following:

“HMA Cl. ___ PG ___ for Pavement Patch”, per ton.

The unit Contract price for pavement patch shall be full pay for all labor, equipment, and
materials required to complete the patching of the street, including joints, where
required, and removal of temporary base.

“Cold Plant Mix for Temporary Pavement Patch”, per ton.

The unit Contract price for “Cold Plant Mix for Temporary Pavement Patch” shall be full
pay for all labor, equipment, and materials required to furnish and install; maintain; and
remove and dispose of the temporary patch.

Temporary pavement patches placed between October 1st and March 31st shall be HMA
Cl. ½” PG 58H-22.

END OF SECTION
5-05 CEMENT CONCRETE PAVEMENT
(October 14, 2020 Tacoma GSP)

5-05.1 Description
This section is supplemented with the following:
All concrete pavement restoration shall be performed in accordance with the City of Tacoma’s Right-of-Way Restoration Policy found at www.govME.org.

5-05.3 Construction Requirements

5-05.3(1) Concrete Mix Design for Paving
The sixth paragraph is supplemented with the following:
The submittal for the concrete mix design shall provide the following: the date, the amount of materials (i.e. cement, sand, aggregates, water), the type and amount of each admixture, and the designated 28-day compressive strength specific to the mix design being submitted. The design compressive strength shall be a minimum of 4000 psi.

5-05.3(4)A Acceptance of Portland Cement Concrete Pavement
This section is supplemented with the following:
Acceptance of concrete will be on a non-statistical acceptance only.

The first, second, third and fourth paragraphs are deleted.

5-05.3(8) Joints
The second paragraph is revised to read:
The Contractor shall submit a concrete panel jointing plan in accordance with the Plans and these Specifications. When a concrete panel jointing plan is included in the Plans, the Contractor may adopt or submit a revised jointing plan in accordance with Standard Plans and the Specifications at the Contractor’s own expense. The Contractor’s jointing plan shall be approved in writing by the Engineer before the start of concrete paving.

When new pavement abuts existing pavement, the locations of the joints in the new pavement shall match with the joints in the existing pavement unless otherwise approved by the Engineer.

5-05.3(11) Finishing
The third paragraph is revised to read:
In advance of curing operations, the pavement shall receive an initial texturing followed by final finishing. Initial texturing shall be performed with a burlap drag or broom device, creating striations in the same orientation as the final finish. The concrete roadway surface shall be finished with a transverse tining. Where integral concrete curbs are constructed, the roadway surface finish shall end 12 inches from the flowline.
The fourth paragraph is revised to read:

Burlap drags, brooms and tine devices may be installed on self-propelled equipment having external alignment control. When texturing the pavement with burlap, the area of burlap in contact with the pavement shall be maintained constant at all times. Broom and tine devices shall be provided with positive elevation control. Downward pressure on pavement surface shall be maintained at all times during texturing so as to achieve uniform texturing without measurable variations in pavement profile. If self-propelled texturing machines are used, these shall be operated so that travel speed during texturing is maintained constant. Failure of the texturing equipment to perform according to this section shall constitute cause for stopping placement of concrete until the equipment deficiency or malfunction is corrected.

The fifth paragraph is revised to read:

The surface finish shall be as shown per Plans and in accordance with these Special Provisions. The Engineer may specify either transverse tining, or longitudinal tining, or a heavy broom finish for any part of the project. Transverse tining is the standard concrete finish.

The seventh paragraph is revised to read:

Test Panel:
At the start of concrete pavement construction, the Contractor shall first finish a textured concrete test panel and the Engineer shall give approval of the achieved finish according to this section prior to further concrete pavement construction. If the test panel is rejected by the Engineer, the Contractor shall remove and replace the test panel at no additional cost to the Contracting Agency. The Contractor can designate one of the project panels as a test panel or create a sacrificial test panel on site of at least four feet by eight feet. Project panels not meeting the characteristics of the test panel shall be removed and replaced at no additional cost to the Contracting Agency.

The eighth through tenth paragraphs are deleted.

5-05.3(12) Surface Smoothness

The section is revised to read:

The Contractor shall measure surface smoothness with a 10-foot straightedge as directed by the Engineer. The finished grade surface shall not vary more than 1/8 inch from the bottom edge of a 10-foot straightedge placed on the surface parallel to the centerline. Perpendicular to the centerline, the finished grade surface shall not vary more than ¼ inch from the bottom edge of a 10-foot straightedge laid across any lane. The completed surface shall be of uniform texture, smooth, shall conform to Plans as to crown and grade, and shall be free from defects of all kinds. Corrective work shall be as directed by the Engineer; and the Contractor shall complete corrective work at no additional expense, including traffic control, to the City of Tacoma.
The following additional requirements for placing concrete shall be in effect from 5-05.3(14) Cold Weather Work

This section is supplemented with the following:

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

- Engineer shall be notified at least 24 hours prior to placement of concrete.
- All concrete placement shall be completed no later than 2:00 p.m. each day.
- 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.

5-05.4 Measurement

This section is revised to read:

Measurement for cement concrete pavement and concrete base pavement shall be by the square yard for the pavement completed and accepted according to Section 5-05 and the Plans, including the area underneath curbs. No deduction will be made for castings in pavement.

Cement Concrete Pavement for Pavement Patches will be measured by the square yard.

Epoxy-Coated Tie Bars with Drill Hole that are drilled into existing cement concrete pavement will be measured per each tie bar installed according to the Plans and Section 5-05.

Dowel Bar Retrofit shall be measured per each retrofitted dowel bar installed into an existing concrete pavement edge according to the Plans and Section 5-05.

5-05.5 Payment

This section is revised to read:

Payment will be made in accordance with Section 1-04.1.

“Cement Conc. Pavement, ___-Inch Section”, per square yard.

The unit Contract price per square yard for “Cement Conc. Pavement, ___-Inch Section” shall be full payment for all costs incurred to carry out the requirements of Section 5-05 and the Plans, and shall include furnishing and installing epoxy coated dowel bars and tie bars except as specified for “Dowel Bar Retrofit” and “Epoxy-Coated Tie Bar with Drill Hole” in this section.

Tie bars that are drilled into existing cement concrete pavement that is not constructed under the Contract will be paid for under the item “Epoxy-Coated Tie Bar with Drill Hole” when included in the Proposal.

Dowel bars that are retrofitted into an existing concrete pavement that is not constructed under the Contract will be paid for under the Bid item “Dowel Bar Retrofit” when included in the Proposal.
“Epoxy-Coated Tie Bar with Drill Hole”, per each.

The unit Contract price per each for “Epoxy-Coated Tie Bar with Drill Hole” shall be full payment for all equipment, tools, materials, and labor to drill holes, furnish and install tie-bars, epoxy-bonding agent, grout according to Section 5-05 and the Plans.

“Dowel Bar Retrofit”, per each.

The unit Contract price per each for “Dowel Bar Retrofit” shall be full payment for all equipment, tools, materials, and labor to drill holes, furnish dowel bars, furnish and install parting compound, and to construct the dowel bar retrofits according to Section 5-05 and the Plans.

“Cement Conc. Base Pavement, ___-Inch Section”, per square yard.

The unit Contract price per square yard for “Cement Conc. Base Pavement, ___-Inch Section” shall be full payment for all costs incurred to carry out the requirements of Section 5-05 and the Plans, and shall include all costs associated with the furnishing and installing of all necessary dowel bars and tie bars except as specified for “Dowel Bar Retrofit” and “Epoxy-Coated Tie Bar with Drill Hole” in this section.

“Cement Conc. Pavement for Pavement Patch, ___-Inch Section”, per square yard.

The unit Contract price for “Cement Conc. Pavement for Pavement Patch, ___-Inch Section” shall be full payment for all costs incurred to carry out the requirements of Section 5-05 and the Plans, and shall include all costs associated with the furnishing and installing of all necessary dowel bars and tie bars except as specified for “Dowel Bar Retrofit” and “Epoxy-Coated Tie Bar with Drill Hole” in this section.

END OF SECTION
6-02.3(2)B Commercial Concrete

This section is supplemented with the following:

Where concrete Class 3000 is specified for driveways, the Contractor may use commercial concrete. If commercial concrete is used for driveways, it shall have a minimum cementitious material content of 564 pounds per cubic yard of concrete, shall be air-entrained, and the tolerances of Section 6-02.3(5)C shall apply.

END OF SECTION
This section is deleted. The requirements of Section 7-17 shall apply to storm sewers.

END OF SECTION
7-05 MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS
(March 23, 2010 Tacoma GSP)

7-05.1 Description
This section is supplemented with the following:

All references to sanitary sewers shall be construed to also mean storm sewers.

7-05.3 Construction Requirements
The first sentence of the eleventh paragraph is revised to read:

A flexible pipe-to-manhole connector shall be used in all connections of rigid and
thermoplastic pipes to new precast concrete manholes to provide a watertight joint
between the pipe and the manhole, unless otherwise directed by the Engineer. The
connector shall be “Kor-N-Seal” with “Wedge Korband” (Type I or II as required for pipe
diameter), manufactured by NPC, Inc., Milford, New Hampshire, or Engineer approved
equal. The connectors shall be installed in accordance with the manufacturer’s
recommendations.

7-05.3(1) Adjusting Manholes and Catch Basins to Grade
This section is revised to read:

7-05.3(1) Adjusting Utility Structures to Grade
Where shown in the Plans or where directed by the Engineer, utility structures shall be
adjusted to grade as staked or as otherwise designated by the Engineer.

The materials and methods of construction shall conform to the requirements specified
in Section 7-05.3 and Standard Plans No. SU-25, SU-37, and TS-08. The finished
structure shall conform to the requirements of the standard plan for the specific
structure.

7-05.3(3) Connections to Existing Manholes
The first sentence is revised to read:

The Contractor shall inspect the existing manholes in the field to verify invert elevations
and the scope of work necessary to make the connection(s) prior to construction.

7-05.4 Measurement
The sixth paragraph is revised to read:

Connections to existing structures will be measured per each.

This section is supplemented with the following:

Reconnecting existing sewer pipes to new manhole structures will be measured per
each.

Adjustment of utility structures will be measured per each.
The first paragraph is supplemented with the following:

The unit Contract price for “Manhole____” shall be full pay for all work required to furnish and install the new manhole to finished grade, including, but not limited to, excavating for, furnishing backfill, compaction of backfill, connection of new pipe(s), channeling, covers, frames, ladders, steps, and handholds, as applicable per Standard Plans.

The unit Contract price for “Catch Basin____” shall be full pay for all work required to furnish and install the new catch basin to finished grade, including, but not limited to, excavating for, furnishing backfill, compaction of backfill, connection of new pipe(s), frame, cover, as applicable per Standard Plans.

The pay item for “Drop Manhole Connection” is revised to read:

“Drop Manhole Connection, ___-Inch Diam.”, per each.

The pay item for “Connection to Drainage Structure” is revised to read:

“Connect New Sewer Pipe ___-In. Diam. to Existing Structure”, per each

This section is supplemented with the following:

“Reconnect Existing Sewer Pipe, ___-In. Diam., to New Structure”, per each.

The unit Contract price per each shall be full pay for all labor, equipment and materials necessary to reconnect the existing sewer pipe to the new structure as specified in Section 7-05.3.

"Adjust Existing Catch Basin, Furnish New Frame and Grate", per each

The unit Contract price per each for “Adjust Existing Catch Basin, Furnish New Frame and Grate” shall be full pay for all costs associated with adjusting the frame and grate to finished grade, including but not limited to, excavating, furnishing and place backfill, furnishing and installing the new frame and grate, compacting, surfacing, and restoration.

"Adjust Existing Manhole, Furnish New Frame and Cover", per each

The unit Contract price per each for “Adjust Existing Manhole, Furnish New Frame and Cover” shall be full pay for all costs associated with adjusting the frame and cover to finished grade, including but not limited to, excavating, furnish and place backfill, furnishing and installing the new frame and cover, compacting, surfacing, and restoration.

“Adjust Existing Valve Chamber to Grade”, per each

The unit Contract price per each for “Adjust Existing Valve Chamber to Grade” shall be full pay for all costs associated with the adjusting the valve chamber to finished grade,
including but not limited to, excavating, furnish and place backfill, compacting, surfacing, and restoration per SU-37.

"Adjust to Grade", per each

The unit contract price per each for “Adjust to Grade” shall be full pay for all costs associated with the adjusting utility structures to finished grade, including but not limited to, providing new junction boxes, removing, salvaging for reuse if required, excavating, furnish and place backfill, compacting, surfacing, and restoration per SU-25 and TS-08. This pay item shall not apply to utility structures included in other pay items.
7-07 CLEANING EXISTING DRAINAGE STRUCTURES
(March 23, 2010 Tacoma GSP)

7-07.3 Construction Requirements
*Item three of paragraph two is revised to read:*

3. If sediment and water from structures does not meet the conditions described in 1 or 2 above, the Contractor shall collect and dispose of all water used and all debris generated in cleaning operations. No cleaning water or debris shall be flushed downstream beyond the limits of the work.

END OF SECTION
7-08 GENERAL PIPE INSTALLATION REQUIREMENTS

7-08.3(1)A Trenches
The tenth paragraph of this section is deleted. All dewatering requirements are found in section 8-01.3(1)C.

7-08.3(1)C Bedding the Pipe
This section is supplemented with the following:
Pipe bedding for sanitary and storm sewers shall be in accordance with City of Tacoma Standard Plan No. SU-16.

7-08.3(2)F Plugs and Connections
This section is supplemented with the following:
Rigid Couplings, manufactured by Romac Industries, Inc., or Engineer approved equal, shall be used at any pipe joint in which bell and spigot or fused joints are not used. Flexible couplings are not permitted, except for side sewer installation.

7-08.3(2)G Jointing of Dissimilar Pipe
This section is revised to read:
Dissimilar pipe shall be joined by use of rigid couplings manufactured by Romac Industries, Inc., or Engineer approved equal, except for side sewer installation.

7-08.3(3) Backfilling
The second paragraph is revised to read:
Pipe zone bedding and trench backfill shall be in accordance with City of Tacoma Standard Plan No. SU-16. (Pipe zone backfill shall meet the requirements of Section 9-03.9(3) for Crushed Surfacing Top Course. Backfill above pipe zone and extra excavation area backfill material shall meet the requirements of Section 9-03.12(2), Gravel Backfill for Walls.) Recycled concrete shall not be used for pipe zone bedding, pipe zone backfill, backfill above pipe zone, and extra excavation area backfill.

The fourth paragraph is revised to read:
Backfill above the pipe zone shall be accomplished in such a manner that the pipe will not be shifted out of position nor damaged by impact or overloading. If pipe is being placed in a new embankment, backfill above the pipe zone shall be placed in accordance with Section 2-03.3(14)C. If pipe is being placed under existing paved areas, or roadways, backfill above the pipe zone shall be placed in horizontal layers no more than 12-inches thick and compacted to 95-percent maximum density. If pipe is being placed in non-traffic areas, backfill above the pipe zone shall be placed in horizontal layers no more than 12-inches thick and compacted to 85-percent maximum density. All compaction shall be in accordance with the Compaction Control Test of Section 2-03.3(14)D. Material excavated from the trench shall be used for backfill above the pipe zone, except that organic material, frozen lumps, wood, rocks, or pavement chunks larger than 6-inches in maximum dimension shall not be used. Material determined by the Engineer to be unsuitable for backfill at the time of excavation shall be
removed and replaced with imported backfill material meeting the requirements of
Section 9-03.12(2). Material determined to be suitable for backfill at the time of
excavation shall be stockpiled and used for backfill material. If the stockpiled material
becomes unsuitable, the Contractor shall furnish suitable material in an amount equal to
that, which became unsuitable, at no expense to the Contracting Agency.

END OF SECTION
7-17 SANITARY SEWERS
(March 4, 2014 Tacoma GSP)

7-17.1 Description
This section is supplemented with the following:

All references to sanitary sewer shall also mean storm sewers.

7-17.2 Materials
The first paragraph is revised to read:
Pipe materials used for storm and sanitary sewers shall be as shown on plans. All references to PVC shall mean Solid Wall PVC Sewer Pipe. Profile Wall PVC will not be permitted.

This section is supplemented with the following:

Polyvinyl Chloride (PVC) Pressure Pipe (4-inches and over) 9-30.1(5)A

7-17.3(2)A General
The first paragraph is revised to read:
Sewers and appurtenances shall be cleaned and tested after backfilling by either exfiltration or low-pressure air method at the option of the Contractor, except where the ground water table is such that the Engineer may require the infiltration test.

7-17.3(2)H Television Inspection
The first sentence is revised to read:
The Contracting Agency will video inspect all sanitary and storm sewers prior to paving where paving occurs over sewers, or prior to final acceptance.

7-17.4 Measurement
This section is supplemented with the following:
Removal and replacement of unsuitable, contaminated and non-contaminated, backfill material will be determined by the cubic yard in place, based on a neat line measurement per this Section and Section 2-09. Any removal and replacement of unsuitable material outside neat line measurement shall be incidental to the Bid item.

Horizontal Limits: The horizontal limits shall be as defined in Section 2-09.4.

Longitudinal Limits: The longitudinal limits shall be as defined in Section 2-09.4.

Lower Limits: The lower limits shall be the top of the pipe zone as shown on Standard Plan No. SU-16.

Upper Limits: The upper limits shall be the subgrade elevation of the proposed roadway section or pavement patch section.
All costs associated with the disposal of material located above the upper limits shall be included in the unit contract price for other items of work, unless a proposal item is included for this specific item of work.

Pipe zone limits are as defined in Standard Plan SU-16.

7-17.5 Payment
The first paragraph is supplemented with the following:

“PVC Storm Sewer Pipe ___In. Diam.”, per linear foot.

The second paragraph is revised to read:

The unit Contract price per linear foot for sewer pipe of the kind and size specified shall be full pay for the furnishing, hauling, and assembling in place the complete installation, including but not limited to, disposal of material excavated within the pipe zone, furnishing and installing pipe bedding and backfill material within the pipe zone, and all wyes, tees, special fitting, joint materials, and other appurtenances necessary for the completion of the installation to the required line and grade, unless proposal items are included for these specific items of work.

The pay item “Removal and Replacement of Unsuitable Material” is revised to read:

“Removal and Replacement of Unsuitable Material”, per cubic yard.

The unit Contract price per cubic yard for “Removal and Replacement of Unsuitable Material” shall be full pay for all work required to haul and dispose of the unsuitable material as specified in Section 7-08.3(1)A and the furnishing of suitable backfill material as specified in Section 7-08.3(3).

For the purpose of providing a common proposal for bidders, the proposal quantity for “Removal and Replacement of Unsuitable Material” is based on removal and replacement of all backfill material.

END OF SECTION
8-01 EROSION CONTROL AND WATER POLLUTION CONTROL

(******)

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(1)A Submittals

This section is revised to read:

The Contractor shall prepare and implement a project-specific Construction Stormwater Pollution Prevention Plan (SWPPP) in accordance with the City of Tacoma Stormwater Management Manual (SWMM), Volume 2. The SWPPP is a document that describes the potential for pollution problems on a construction site and explains and illustrates the measures to be taken on the construction site to control those problems.

The Construction SWPPP shall be prepared as a stand-alone document consisting of two sections: Section 1) Construction SWPPP Narrative and Section 2) Temporary Erosion and Sediment Control (TESC) Plans.

The Contracting Agency has prepared the Construction Stormwater Pollution Prevention Plan Checklist to aid the Contractor in development of the SWPPP. This checklist provides the Contractor with a tool to determine if all the major items are included in the Construction SWPPP and on the TESC Plans and can be found in Volume 2, Chapter 2 of the SWMM. Contractors are encouraged to complete and submit this checklist with the Construction SWPPP.

The Department of Ecology has prepared a SWPPP template that can be used for projects in the City of Tacoma. The template can be found on Ecology’s website at: http://www.ecy.wa.gov/programs/wq/stormwater/construction/resourcesguidance.html. The Contractor developing the SWPPP must ensure that all references are appropriate for the City of Tacoma.

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:

1. 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.
2. Performing monitoring as required by the NPDES Construction Stormwater General Permit.
3. 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:
   a. When, where, and how BMPs were installed, maintained, modified, and removed.
   b. Observations of BMP effectiveness and proper placement.
   c. Recommendations for improving future BMP performance with upgraded or replacement BMPs when inspections reveal SWPPP inadequacies.
   d. Approximate amount of precipitation since last inspection and when last inspection was performed.
4. Updating and maintaining a SWPPP file on site that includes, but is not limited to the following:
   a. SWPPP Inspection Reports or Forms.
   b. SWPPP narrative.
   c. National Pollutant Discharge Elimination System Construction Stormwater General Permit (Notice of Intent).
   d. All documentation and correspondence related to the NPDES Construction Stormwater General Permit.
   e. Other applicable permits.

Upon request, the file shall be provided to the Engineer for review.
8-01.3(2) Seeding, Fertilizing, and Mulching

8-01.3(2)A1 Seeding
The first paragraph is supplemented with the following:

The depth of cultivation shall be 3 inches.

8-01.3(2)B Seeding and Fertilizing
The first paragraph is supplemented with the following:

All seeding areas shall be seeded with the following mix:

<table>
<thead>
<tr>
<th>Type of Seed</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perennial Rye</td>
<td>70</td>
</tr>
<tr>
<td>Chewings and Red Fescue</td>
<td>30</td>
</tr>
</tbody>
</table>

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

Seeding fertilizer shall be per seed supplier’s recommendation for type of seed application used.

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(8) Street Cleaning
The third paragraph is revised to read:

Street washing with water shall not be permitted.

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

The third paragraph is revised to read:
Check dams will be measured by the linear foot along the ground line of the completed check dam. No additional measurement will be made for check dams that are required to be rehabilitated or replaced due to wear.

This section is supplemented with the following:

No specific unit of measurement shall apply to the lump sum item “Stormwater Pollution Prevention Plan (SWPPP)”.

No specific unit of measurement shall apply to the lump sum item “Dewatering Plan”.

Add the following new sections:

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

When the bid Proposal contains the item “Erosion/Water Pollution Control”, there will be no measurement of unit items for Work defined by Section 8-01.4 except as described in Section 8-01.4(2). Also, except as described in Section 8-01.4(2), all of Sections 8-01.4 and 8-01.5 are deleted.

8-01.4(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control

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

The bid proposal contains the item “Erosion/Water Pollution Control,” lump sum and the additional erosion control items listed below. The provisions of Section 8-01.4(1), Section 8-01.4(2), and Section 8-01.5(2) shall apply.

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:

Maintenance and removal of erosion control BMPs according to 8-01.3(15), 8-01.3(16), or according to these Specifications and the Plans, or as directed by the Engineer shall be included in the lump sum or unit cost for these respective BMPs.

Add the following new sections:

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

“Erosion/Water Pollution Control”, per lump sum
The lump sum contract price for “Erosion/Water Pollution Control” shall be full pay for all cost for labor, equipment, and materials to perform all Work associated with erosion control, except for costs compensated by Bid Proposal items inserted through Contract Provisions as described in Section 8-01.5(2). The Work shall include, but shall not be limited to, furnishing, purchase and delivery of required materials, installation, maintenance, and removal of temporary erosion and sediment control measures, and all costs incurred by the Contractor in performing the Contract Work defined in Section 8-01, except for unit bid items in Section 8-01 when these are included in the bid proposal. It is the Contractor’s responsibility to maintain, repair, and replace any and all erosion control measures as required to maintain compliance with Tacoma Municipal Code 12.08 for the entire duration of the Project.

**8-01.5(2) Reinstating Unit Items with Lump Sum Erosion/Water Pollution Control**

The Contract Provisions may establish the project as lump sum, in accordance with section 8-01.4(1) and also reinstate the measurement of one or more of the items described in section 8-01.4. When that occurs, the corresponding payment provision in Section 8-01.5 is not deleted and the Work under that item will be paid as specified.

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.

END OF SECTION
8-02 ROADSIDE RESTORATION

8-02.3 Construction Requirements

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 4. of this section is revised to read:

4. Topsoil shall be cultivated to a depth of 4 inches. Rake to a smooth even grade without low areas that trap water and compact with a 5-pound roller. 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) Soil Amendments

This section is supplemented with the following:

Recycled/compost material in accordance with Section 9-14.4(8) shall be blended with the specified topsoil at a ratio of 1/1 by volume.

8-02.3(6)B Fertilizers

This section is supplemented with the following:

Fertilizer shall be supplied and applied per supplier’s recommendations.

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 first paragraph is revised to read:

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

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

8-02.3(10)B Lawn Seeding and Sodding

This section is supplemented with the following:

Hydroseeding will be an allowed method for lawn installation. All permanent seeding areas shall be seeded with Turf Seed Mix:

<table>
<thead>
<tr>
<th>Type of Seed</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perennial Rye</td>
<td>70</td>
</tr>
<tr>
<td>Chewings and Red Fescue</td>
<td>30</td>
</tr>
</tbody>
</table>

The rate of application shall be 120 lbs per acre.

Seeding fertilizer shall be per manufacturer’s recommendation for the type of application used.

For Sodded Lawns: 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) Bark or Wood Chip Mulch
8-02.3(11)B Bark or Wood Chip Mulch

The third paragraph is revised to read:

Bark or wood chip mulch in accordance with Section 9-14.4(3) shall be applied to a depth of 4 inches at the locations indicated on the Plans or as directed by the Engineer. 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.

8-02.3(14) Plant Replacement

This section is supplemented with the following:

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. Thus, plant establishment shall be included in the Contract price per each for the duration of the warranty and the Contract, whichever is the longer duration.

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.

Add the following new section:

8-02.3(17) Site Restoration

During the construction of the roadway or HMA overlay, curb ramp construction, curb and gutter construction, and sidewalk construction; the Contractor shall replace in kind, including but not limited to: any lawn, 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. In areas abutting the roadway, or where it is common for pedestrians to walk, lawn restoration shall either be protected from any kind of traffic until the end of the establishment period or left in a manner that is firm when subjected to foot traffic. Restoration of grass areas by placement of seed shall be done through hydro-seeding. Hand seeding will not be allowed, except in small areas as allowed by the Engineer. In addition landscaping items not included in the Proposal shall be included under “Site Restoration”, lump sum.

All excess materials shall be removed from the site.
8-02.4 Measurement
The first paragraph is revised to read:

Topsoil, mulch and soil amendments will be measured by the cubic yard in the haul conveyance at the point of delivery.

The third paragraph is revised to read:
Compost will be measured by the cubic yard in the haul conveyance at the point of delivery.

This section is supplemented with the following:
Irrigation water used to establish vegetation will be considered included in the cost of plants.

8-02.5 Payment
The pay item for “PSIPE___” is revised to read

“PSIPE __”, per each.

Payment for “PSIPE ___” shall be full pay for all materials, labor, tools, equipment and supplies necessary for weed control within planting areas, planting area preparation, fine grading, planting, cultivating, watering, and clean-up for the particular items called for in the Plans and Specifications for the duration of the Contract. A one (1) year plant warranty shall be included in the unit contract price. Thus, plant establishment shall be included in the Contract price per each for the duration of the warranty and the Contract, whichever is the longer duration.

Paragraphs 7 through 18, pertaining to partial payment, are deleted.

The pay unit of square yards will be used in lieu of acres.

The following pay items are revised to read:
“Topsoil Type__”, per cubic yard

The unit contract price per cubic yard for “Topsoil Type ___” shall be full pay for providing the source of material for Topsoil, for pre-excavation weed control, excavating, loading, hauling, intermediate windrowin, stockpiling, weed control on stockpiles or windrows, and removal, placing, spreading, processing, cultivating, and compacting topsoil.

“Fine Compost”, per cubic yard

“Medium Compost”, per cubic yard

“Coarse Compost”, per cubic yard

The unit contract price per cubic yard for “___ Compost” shall be full pay for furnishing and spreading the compost onto the existing soil.

“Soil Amendment”, per cubic yard
The unit contract price per cubic yard for “Soil Amendment” shall be full pay for furnishing and incorporating the soil amendment into the top soil.

“Wood Chip Mulch”, per cubic yard

The unit contract price per cubic yard for “Wood Chip Mulch” shall be full pay for furnishing and spreading the mulch onto the existing soil.

“Site Restoration”, per lump sum.

The lump sum payment for “Site Restoration” shall be full pay for all materials, labor, tools, equipment, and supplies necessary for restoration of the job site and any landscape items according to the Plans and Specifications, including but not limited to replacement of irrigation appurtenances, grass sod/seed, planting area preparation, soil amendment, grading, cultivating, planting, mulching, cleanup, and water necessary to complete the site restoration, as specified.

END OF SECTION
8-04  CURBS, GUTTERS, AND SPILLWAYS
(April 1, 2018 Tacoma GSP)

8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways
The first paragraph is revised to read:

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.

Section 8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways is supplemented with the following:

8-04.3(1C) Integral Cement Concrete Curb

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.

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.

Section 8-04.3 Construction Requirements is supplemented with the following:

8-04.3(6) Cold Weather Work

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

• The Engineer shall be notified at least 24 hours prior to placement of concrete.
• All concrete placement shall be completed no later than 2:00 p.m. each day.
• 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.

8-04.5 Payment
This section is supplemented with the following:

“Integral Cement Conc. Traffic Curb”, per linear foot
“Extruded Curb Type _________”, per linear foot.

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 shall be of the type specified in the Plans. The detectable warning pattern shall have the truncated dome shape shown in the Standard Plans.

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(20) Cold Weather Work

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

• The Engineer shall be notified at least 24 hours prior to placement of concrete.
• All concrete placement shall be completed no later that 2:00 p.m. each day.
• 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.

8-14.3(21) Thickened Edge for Sidewalk

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

8-14.5 Payment
The pay item “Cement Conc. Sidewalk” is supplemented with the following:

All additional costs related to the construction of thickened edges shall be included in the unit contract cost for “Cement Conc. Sidewalk”.

This section is supplemented with the following:

“Cement Conc. Curb Ramp”, per each

The unit Contract price per each for “Cement Conc. Curb Ramp” shall be full pay for installing the complete curb ramps in accordance with Plans and Specifications, and as directed by the Engineer, including ramps, landings, flares, wings, pedestrian curbs, and detectable warning surfaces. This bid item shall include all curb ramp types and combinations.

END OF SECTION
8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL
(July 1, 2020 Tacoma GSP)

8-20.1(3) Permitting and Inspections
The third paragraph is revised to read:

All new services require a Tacoma Public Utilities Permit and inspection by Tacoma Power. All work on the load side of the service will be inspected by the Signal and Streetlight Shop Inspector.

8-20.2 Materials
This section is supplemented with the following:

The Contractor shall warranty all electrical and mechanical equipment described in this section for satisfactory in service operation for one year following project acceptance. Warranty shall include troubleshooting, labor, materials and all other costs to bring the equipment to a satisfactory level of service. Normal maintenance is not included in the warranty.

8-20.2(1) Equipment List and Drawings
This section is revised to read:

Within 20 days following execution of the Contract, the Contractor shall submit to the Engineer a completed "Request for Approval of Material" that describes the material proposed for use to fulfill the Plans and Specifications.

The Contractor shall submit Type 2 Working Drawings consisting of supplemental data, sample articles, or both, of the material proposed for use. Supplemental data includes such items as catalog cuts, product Specifications, shop drawings, wiring diagrams, etc.

The Contractor shall submit Type 2 Working Drawings consisting of the following information for each different type of luminaire required on the Contract:

1. Isocandela diagrams showing vertical light distribution, vertical control limits, and lateral light distribution classification.
2. Details showing the lamp socket positions with respect to lamp and refractor for each light distribution type. This requires that the Contracting Agency know what the light pattern available are and the light distribution.

Additional submittals for proposed alternate LED Roadway Luminaires shall be in conformance with section 9-29.10.

The Contractor shall submit for approval Type 3E Working Drawings in accordance with Section 1-05.3 for each type of light standard and each type of signal standard called for on this project.

The Engineer’s acceptance of any submitted documentation shall in no way relieve the Contractor from compliance with the safety and performance requirements as specified herein.
Submittals required shall include but not be limited to the following:

1. A Type 2 Working Drawing consisting of a material staging plan, should the Contractor propose Contracting Agency-owned property for staging areas.
2. A Type 2 Working Drawing consisting of a cable vault installation plan showing the exact proposed installation location by Roadway station, offset and the scheduled sequence for each cable vault installation.
3. A Type 2E Working Drawing consisting of a pit plan, for each boring pit, depicting the protection of traffic and pedestrians, pit dimensions, shoring, bracing, struts, walers, sheet piles, conduit skids, and means of attachment, casing type, and casing size.
4. A Type 2E Working Drawing consisting of a boring plan depicting the boring system and entire support system.

8-20.3 Construction Requirements

8-20.3(1) General

This section is supplemented with the following:

The Contractor shall call 24 hours prior for inspection before covering any underground conduit, prior to installing any detection loops, or placing concrete for foundations. For inspections, notify Traffic Signal/Streetlighting at (253) 591-5287.

Work shall be sequenced such that after the new signal is placed in operation, the Contractor shall remove any equipment not required for the operation of the new signal. The Contractor shall remove the old vehicle and pedestrian signal heads immediately after the new system is operational.

For new signals, the contractor shall provide a Portable Message Change Sign in each direction and operate the PMCS for one week before, and one week after activating the new signal. This work shall be paid for in accordance with Section 1-10.

Uniformed police officers shall be provided by the Contractor to direct traffic at any time the signal is not in normal operation. This work shall be paid for in accordance with Section 1-10.

The following existing and temporary equipment shall be deconstructed/removed by the Contractor and delivered to the City of Tacoma Signal/Streetlight Shop located at 3401A South Orchard Street. Care shall be exercised in removing and salvaging the equipment. Any equipment damaged during removal, hauling, and stockpiling shall be repaired or replaced by the Contractor at no expense to the City.

- All signal heads and mounting hardware
- Flashing beacons, and flasher control panel
- Steel poles, mast arms, and hardware
- Aluminum poles, mast arms, and hardware
- Controller cabinets and all internal hardware and wiring
- Vehicle detection systems, including video, microwave, and infrared systems, and associated hardware
- All Opticom equipment or other preemption and priority equipment.
- LED luminaries, LED retrofit kits, and LED lamps
• Ornamental/Decorative fixtures and poles/posts
• Pedestrian signals, poles, and pushbuttons.
• Signs, brackets, and hardware
• Locking junction box security lids, security bolts, and all other wire theft deterrent security hardware

All other equipment shall be removed of and disposed of by the Contractor, including but not limited to the following:
• Wood poles
• All wiring outside of the controller cabinet
• Loops
• Non-LED cobra-head fixtures

8-20.3(1)A Temporary Lighting

The Contractor shall schedule the work to minimize the outage between any existing lights and new lights. The temporary lighting shall be installed and operational before the existing lighting is removed from service. Temporary lighting shall be provided by the Contractor. City Signal/Streetlight Maintenance Crews will hot splice the final connection or connections. The Contractor shall provide 72 hours notice to schedule the City crews for the hot splicing.

8-20.3(4) Foundations

This section is supplemented with the following:

Breakaway Base Connection brackets for pedestrian pushbutton poles (Type PPB) shall be installed with the flanges parallel to the traveled way, as shown on WSDOT standard plan J-20.15-03.

Anchor bolts for streetlight standards and for strain poles shall extend a minimum of two threads and a maximum of six threads above the top heavy-hex-nut. A minimum of three threads shall remain between bottom of the leveling hex-nut and the top of the foundation.

Foundations shall be excavated using an auger and poured against undisturbed material unless otherwise approved by the Engineer. Vacuum excavation should be used where there is a possibility of conflict with utilities or other facilities.

Forming the foundation with galvanized culvert pipe or similar forming methods will only be allowed when soil conditions or other factors make this method of construction necessary and is approved by the Engineer. Biodegradable forming tubes shall be fully removed from the cured concrete prior to backfilling. When using culvert or tubes, the following backfill requirements will apply. The area between the form and undisturbed material shall be filled with CDF. For lightly loaded installations and only with the approval of the Engineer, Crushed Surfacing Top Course meeting the requirements of Section 9-03.9(3) may be used. Placement shall be in accordance with Section 2-09.3(1)E and shall be backfilled and compacted in the presence of the Engineer.

8-20.3(5) Conduit
8-20.3(5)A General

This section is supplemented with the following:

Unless otherwise specified in the plans and specifications, standard conduit sizes shall be as follows:

- Underground Streetlight Conduit: 2 inch diameter
- Pole Riser Service Installations: 1-1/2 inch diameter
- Traffic Signal Conduit: 3 inch diameter
- Traffic Signal Communication: 3 inch diameter
- All other conduit: 2 inch diameter, unless otherwise specified.

As soon as the mandrel has been pulled through, both ends of the conduit shall be sealed in an approved manner. Location wire, in conformance with 9-29.3(2)A4 and Pull Tape, in conformance with 9-29.1(10), shall be installed in all empty conduits. At least three (3) feet of the location wire and pull tape shall be neatly coiled and secured to the conduit in the same manner as is shown in Washington State Department of Transportation Standard Plan J-28.70-01, Details A and B.

8-20.3(5)B Conduit Type

This section is supplemented with the following:

Conduit under driveways and other vehicular access ways shall be Schedule 80 high-density polyethylene (HDPE), Schedule 80 PVC, or rigid metal conduit (RMC)

Conduit installed in a joint trench, with power, and that is installed a minimum of 36-inches from finished grade shall utilize Schedule 80 PVC.

Pole riser conduit material types shall be in accordance with applicable City of Tacoma standard plans.

8-20.3(5)D Conduit Placement

This Section is supplemented with the following:

Conduit terminating in pole foundations shall extend to 3 inches below the handhole.

Conduit terminating in controller foundations shall terminate 1 inch above the foundation.

8-20.3(5)E1 Open Trenching

Subsection 5 is revised to read:

5. Trenches located within the paved roadway shall be backfilled with 3 inches of sand over the conduit, followed by material meeting the requirements of Section 9-03.12(3). Compaction shall be in conformance with Section 2-09.3(1)E. All street cuts shall be repaired in accordance with the standard plans.

This section is supplemented with the following new Subsections:

7. Where multiple conduit are installed in the same trench, the trench shall be of sufficient width to accommodate all conduit, with a minimum 3-inch separation between each conduit, and a minimum clearance of 1-inch on the sides of the
When conduit is laid horizontal to one another, the conduit shall be laid at the same elevation, parallel with one another. When conduit is laid vertically in the same trench, conduit spacers shall be used to maintain the 3-inch separation. Spacers shall be installed in accordance with the manufacturer’s recommendations for conduit of that size and type. Additional spacers shall be required where the supported conduit is sagging more than 20% of the nominal diameter of the conduit.

8. In all conduit trenches, metallic, detectible, utility warning tape shall be placed at twelve (12) inches below final grade.

8-20.3(6) Junction Boxes, Cable Vaults, and Pull boxes

This section is supplemented with the following:

Unless otherwise specified in the plans, or as otherwise directed by the engineer, all junction boxes exposed to vehicular traffic shall be Heavy-Duty. Field adjustment of junction boxes, which cause junction boxes to be installed within an intersection radius and within four feet of the curb face may be required to be Heavy-Duty. Final placement and type of all junction boxes within an intersection shall be as directed by the Engineer.

Adjacent junction boxes shall be separated by a minimum of three-inches.

Concrete meeting the requirements of 6-02.3(2)B shall be placed surrounding all junction boxes except as otherwise provided for below. Concrete shall be flush with the top of the junction box and the adjacent improvements. Concrete shall be cast in place. Junction boxes shall be secured with the concrete border as follows:

1. When the junction box is located within a concrete or asphalt section and is located a minimum of 12-inches from the edge of the section, a concrete border will not be required.

2. Where junction boxes are located within 12-inches from the edge of the concrete or asphalt section, the junction box shall secured on all sides with a minimum 12-inch wide, 6-inch deep concrete section. Concrete shall be finished in the same manner as the adjacent concrete where applicable.

3. Where junction boxes are located within a planter strip, a landscaped area, or other non-hardened surface, the junction box shall be bordered on all sides with a minimum 6-inch wide, 12-inch deep concrete section flush with the top of the junction box.

When setting a new junction box on an existing streetlight circuit where no equipment ground is present, a non-conductive junction box and lid shall be utilized.

8-20.3(7) Messenger Cable, Fittings

The second paragraph of this section is deleted.

This section is supplemented with the following:

Cable ties shall be used to neatly secure the signal cable to the span wire at 10-inch centers and shall be tightened at top. Excess tie material shall be completely cut off. The signal control cable shall be below the span wire and shall be straight with no twisting or spiraling.
A minimum 5% sag shall be provided in the span wire when fully loaded with all vehicular signal heads, unless otherwise directed by the Engineer.

8-20.3(8) Wiring

The third paragraph is revised to read:

All splices in underground illumination circuits, induction loop circuits, and magnetometer circuits shall be installed at junction boxes. The only splice allowed in an induction loop circuit shall be the shielded cable to loop wire splice. The only splice allowed in a magnetometer circuit shall be the probe lead-in cable to the magnetometer cable splice.

Induction loop splices and magnetometer splices shall be heat shrink type with moisture blocking material, sized for the conductors. Magnetometer and induction loop splices shall be soldered. The end of the sheathing shall be sealed with a heat shrink insulator.

The fourth paragraph is revised to read:

Signal wiring shall be in conformance with the following:

1. All termination for traffic signal control systems shall be in accordance with City of Tacoma Standard Plan TS-15.
2. All signal wiring shall be 14 gauge 5-conductor or 12 gauge 2-conductor stranded copper wire unless otherwise shown in the plans.
3. For 5-section heads, 2-5c-14 gauge conductors shall be utilized.
4. 5c wire shall not be split between high voltage and low voltage. Where a pedestrian head and a pedestrian push button share a common pole, a separate 2c shall be pulled in for the push button.
5. A single 5c may be split between two pedestrian heads on a common pole with a jumper across the neutral.
6. Opticom and detection wiring shall be per manufacturer’s recommendations.

Field wiring of the cabinet shall be done by City of Tacoma Signal Electricians after all wiring has been pulled into the cabinet and properly labeled with a temporary label consisting of white electricians tape with permanent marker. The Contractor shall provide a detailed description/key of all temporary labeling. The cabinet and labeling shall be inspected by the Signal/Streetlight inspector prior to cabinet wiring. The Contractor shall allow five working days for City Electricians to field wire the cabinet after the inspection is complete. Improper or incorrect labeling requiring additional effort by the City may result in additional time required by City forces to wire the cabinet.

The fifth paragraph is revised to read:

Splices and taps on underground and overhead circuits shall be made with solderless crimp connectors, installed with an approved tool designed for the purpose, to securely join the wires both mechanically and electrically. Splices and taps will be sealed in accordance with this section.

The seventh paragraph is revised to read:
Aerial illumination splices shall be taped with thermoplastic electrical insulating tape equivalent to the original wire insulation rating and thickness. It shall be well lapped over the original insulation.

The eighth paragraph is revised to read:

All splices in junction boxes and handholes shall be taped and sealed with an electrical coating. Tape splice insulation shall consist of thermoplastic electrical insulating tape equivalent to the original wire insulation rating and thickness. It shall be well lapped over the original insulation and moisture resistant electrical coating shall be applied and allowed to dry. Two layers of thermoplastic tape will then be applied, followed by a second layer of moisture resistant electrical coating.

The ninth paragraph is revised to read:

Illumination cable in light standards shall be #10 AWG USE or “Pole and Bracket” cable, as specified in Section 9-29.3(2)D of the Standard Specifications.

The tenth paragraph is revised to read:

Fifteen (15) feet of slack cable shall be provided at the controller end of all cables terminating in the controller cabinet. A minimum of three (3) feet of slack cable shall be left at all strain poles and junction boxes.

8-20.3(10) Service, Transformer, and Intelligent Transportation System (ITS) Cabinets

The second, third, and fifth paragraphs are deleted.

8-20.3(13) Illumination Systems

8-20.3(13)A Light Standards

The sixth, seventh, and eighth paragraphs (regarding pole identification numbers) are deleted.

This section is supplemented with the following:

Conventional Base installation shall conform to the following:

The light standards shall be assembled and mounted complete on foundations perfectly straight and in good alignment. Proper leveling of the standards shall be accomplished by means of four leveling nuts that are to be employed with the anchor bolts. Standards shall be plumb within 1/50-inch per foot.

Luminaires shall be securely attached to the mast arm in a straight and level position. The luminaires shall be installed at a specified number of degrees from level if directed by the Engineer. After the poles are plumbed, grout shall be neatly placed between the pole base and the concrete. The Contractor shall form a 1/2-inch diameter weep hole in the grout. The nuts and bolts required for this foundation shall be furnished by the Contractor.
All above grade signal and streetlight infrastructure, including streetlight standards, traffic signal poles, push-button poles, cabinets, and enclosures, shall not be installed closer than three (3) feet from face of curb to the nearest part of the pole or structure and no closer than five (5) feet from fire hydrants and utility poles.

**8-20.3(13)C Luminaires**

*This section is supplemented with the following:*

All luminaires supplied by the project shall be identified with a green “H-1” label on the bottom of the luminaire. H-1 labels can be obtained at the Signal and Streetlight shop or through the Signal and Streetlight Inspector.

**8-20.3(14) Signal Systems**

**8-20.3(14)A Signal Controllers**

*This section is revised to read:*

The fully wired control cabinet, the controller, the MMU, and detection hardware for the cabinet shall be delivered to the City of Tacoma Traffic Signal Shop for configuration, programming, testing, and certification prior to installation. At the Contractor’s request, the City will off load the equipment. The Contractor shall notify the City 24 hours in advance of the equipment delivery.

A minimum of two weeks shall be required for the City to configure and test the cabinet and controller for each intersection. If multiple cabinets and controllers are delivered, the Contractor shall identify the sequence for configuration and allow one additional week for each additional cabinet and controller delivered.

The Contractor shall be responsible for transporting the controller cabinet from the Signal/Streetlight Shop site to the jobsite, and for installation of the cabinet and all field wiring. Field wiring shall be performed in accordance with 8-20.3(8) and as directed by City of Tacoma Signal and Streetlight personnel in the field.

**8-20.3(14)B Signal Heads**

*This section is supplemented with the following:*

For span wire installation, the red indications shall be leveled to within 1 inch for each direction as approved by the City. The height to the bottom of the lowest head shall be 17 feet, plus or minus 3 inches. Height to the bottom of the lowest four-section or five-section head shall be a minimum of 16 feet-3 inches, plus or minus 3 inches.

For span wire installation, the signal stem (drop pipe) shall be 1 to 3 feet long unless otherwise approved by the Engineer.

**8-20.3(14)C Induction Loop Vehicle Detectors**

Subsections 2, 4, 9, and 10 are deleted.
8-20.3(14)E Signal Standards

This section is supplemented with the following:

Unless otherwise shown in the plans, a terminal cabinet shall be installed on all new traffic signal strain poles and traffic signal mast arm standards. Where modifications to existing signal systems include replacement, addition, or modifications to existing signal head wiring, a terminal cabinet shall be added to the existing strain pole or mast arm standard.

For strain poles and mast arm poles supporting signal indications for one leg of the intersection, an 8” deep, 16” high, and 12” wide terminal cabinet shall be installed. For strain poles and mast arm poles supporting signal indications for two or more legs of the intersection an 8” deep, 24” high, and 18” wide terminal cabinet shall be installed.

Terminal cabinets shall be in conformance with 9-29.25.

Section 8-20.3(14) is supplemented with the following new section:

8-20.3(14)F Thermal, Microwave, Fish-Eye, and LED Optical Vehicle Detection

A representative from the City of Tacoma Signal and Streetlight operations shop shall be on site during all work within the signal cabinet. The Contractor shall notify the Engineer two working days in advance of work within the cabinet.

The Contractor shall install and test the detection system in accordance with the manufacturer’s recommendations and these special provisions. Detection units shall be mounted and all cabling shall be in accordance with the manufacture’s recommendations. The installation shall include all field equipment as well as all equipment required in the controller cabinet.

Detection unit locations as shown on the plans are approximate. Detection units shall be mounted at a sufficient height to prevent occlusion from cross traffic. Detection units shall be field adjusted as directed by the Engineer and equipment manufacturer for maximum coverage. A factory-certified representative of the equipment manufacturer shall inspect and provide a written verification that the installation has been performed in accordance with the manufacturers requirements.

The factory-certified representative of the equipment manufacturer shall supervise all testing of the equipment and shall provide written documentation showing acceptance of the testing and verification that the system is a complete, fully functional system.

All equipment shall be warranted against manufacturing defects in materials and workmanship for a period of 3 years from the date of signal turn-on.

8-20.3(17)B “As Built” Plans

This section is supplemented with the following:

These drawings shall show the routing of all underground conduits. The locations of the conduit shall be dimensioned with a precision and accuracy of 1 foot.
8-20.4 Measurement

This section is revised to read:

When a bid item is shown as a Traffic Signal Modification, lump sum in the proposal, no specific unit of measurement will apply, but measurement will be for the sum total of all items for a complete system to be furnished and installed in accordance with approved methods, the Plans, the Special Provisions, and these Specifications.

Sawcutting and replacement of existing pavement required shall be incidental to lump sum items and no separate measurement will be made.

Conduit zone bedding shall be incidental to the lump sum items and no separate measurement will be made.

Removal, relocation, and salvage of existing traffic signal equipment and signs where required shall be incidental to the lump sum items and no separate measurement will be made.

Temporary surface restoration items required for resuming pedestrian and vehicular traffic prior to final surfacing, including crushed rock with cold mix asphalt shall be incidental to the lump sum items and no separate measurement will be made. All pavement removal, replacement, and restoration shall be in accordance with the City’s standard Plans and City of Tacoma Right-of-Way Restoration Policy. All cost for this work shall be incidental to the lump sum items.

8-20.5 Payment

This section is supplemented with the following:

“Traffic Signal Modification, Tacoma Mall Boulevard & S 56th St”, lump sum.

“Traffic Signal Modification, Tacoma Mall Boulevard & I5 Off ramp (S 55th St)”, lump sum.

The lump sum Contract price for “Traffic Signal Modification, ____” shall be full pay for the construction of the complete modification or replacement to the signals, pedestrian signals, accessible pushbuttons, traffic signal cabinet and controller equipment, video detection, emergency pre-emption, poles, posts, junction boxes and associated equipment, including wiring, signage, as described above and shown in the Plans, and herein specified, including excavation, backfilling, concrete foundation, conduit, wiring, signage, restoring facilities destroyed or damaged during construction, salvaging existing materials, and for making all required tests. All additional materials and labor, not shown in the plans or called for herein and which are required to complete the electrical system, shall be included in the lump sum Contract price.

END OF SECTION
8-22 PAVEMENT MARKING
(April 1, 2018 Tacoma GSP)

8-22.2 Materials
This section is supplemented with the following:

All legends and arrows including “Plastic Arrow”, “Plastic Sharrow Symbol”, and “Plastic Letter” markings shall be a Preformed retro-reflective thermoplastic pavement marking material incorporating a pre-applied bead coating that can be adhered to asphalt, concrete and Portland Cement Concrete pavements by means of heat fusion. All “Plastic Chevron”, “Plastic Crosswalk Line”, and “Plastic Stop Line” shall be hot applied thermoplastic. The applied markings shall be very durable, oil and grease impervious, and provide immediate and continuing retro-reflectivity meeting the requirements of Section 9-34.3(2).

“Green Durable Product” materials shall meet the requirements of section 9-34.3(4) for MMA.

Materials used for curb paint shall be the same as for pavement marking paint per Section 9-34.2.

8-22.3 Construction Requirements
(*******)
Temporary pavement markings (in accordance with Standard Specification 8-23.1) reflecting the permanent channelization plan will be required and incidental to the paving stage of the project to ensure safe and efficient traffic (including pedestrians) operations while awaiting the opportunity to install the permanent channelization.

8-22.3(3)E Installation
This section is supplemented with the following for applying Type B material:

Effective Performance Life: When properly applied, in accordance with manufacturer’s instructions, the preformed marking materials shall be neat and durable. The markings shall remain skid resistant and show no lifting, shrinkage, tearing, roll back, or other signs of poor adhesion.

Packaging: The flexible preformed marking material, for use as transverse or bike symbols as well as legends, shall be available in flat form material up to a maximum of 2 foot width by 4 foot length. The material shall be packed in suitable cartons clearly labeled for ease of identifying the contents. Packaging shall not use plastic liners within to separate material from itself. Product packaging shall identify part number and mil thickness.

Material Replacement Provisions: Any properly applied preformed marking materials that shall smear or soften independent of pavement movement or condition within a period of one year from date of application shall be replaced by the supplier.

Installation: The preformed marking materials shall be applied in accordance with the manufacturer’s recommendations on clean and dry surfaces. New Portland concrete cement surfaces must be sandblasted to entirely remove curing compound. Marking
configuration shall be in accordance with the “Manual on Uniform Traffic Control Devices,” where applicable.

New Surfaces: Preformed marking materials specified for newly paved asphalt road surfaces shall be capable of being applied as the original permanent marking on the day the surface is paved.

Fusion: The preformed marking materials shall be fusible to the pavement by means of a propane torch recommended by the manufacturer.

Technical Services: The supplier shall provide technical services as may be required.

8-22.3(4) Tolerances for Lines
The allowable tolerance for “Length of Line” is revised to read:

Length of Line: The longitudinal accumulative error within a 32-foot length of skip stripe shall not exceed plus or minus 1 inch.

8-22.4 Measurement
The last sentence of the sixth paragraph is revised to read:

Crosswalk lines will be measured by the linear foot of marking installed.

This section is supplemented with the following:

Painted curb will be measured by the linear foot of curb line as “Painted Curb.”

8-22.5 Payment
This section is supplemented with the following:

“Painted Crosswalk Line”, per linear foot.

“Plastic Crosswalk Line”, per linear foot.

“Painted Curb”, per linear foot.

“Remove Paint Line”, per linear foot.

“Remove Traffic Marking,” per each.

END OF SECTION
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:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>100</td>
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<tr>
<td>½&quot;</td>
<td>56-100</td>
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<tr>
<td>No. 200</td>
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All percentages are by weight.

9-03.6(3) Test Requirements

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:

% of Theoretical Maximum Specific Gravity (GMM) (approximate) 93@
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.

9-03.8 Aggregates for Hot Mix Asphalt
(March 9, 2016 APWA GSP)
Supplement section 9-03.8 with the following:

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

General Requirements

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

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

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>¾&quot; square</td>
<td>100</td>
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<tr>
<td>½&quot; square</td>
<td>900 - 100</td>
</tr>
<tr>
<td>⅜&quot; square</td>
<td>55 - 90</td>
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<tr>
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</tbody>
</table>

* All percentages are by weight.

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 accordance with the field operating procedures for AASHTO T 335.

9-03.12 Gravel Backfill

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

<table>
<thead>
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</table>

Sand Equivalent 35 Minimum

* All percentages are by weight
9-03.21 Recycled Material

9-03.21(1) General Requirements
(Jun 16, 2016 Tacoma GSP)

This section is supplemented with the following:

Recycled materials will only be permitted upon approval of the Engineer. Recycled concrete shall not be permitted for use as pipe zone backfill, backfill above pipe zone, and extra excavation area backfill material.

END OF SECTION
9-28 SIGNING MATERIALS AND FABRICATION
(April 1, 2012 Tacoma GSP)

9-28.1 General
The second sentence of the first paragraph is hereby revised to read:
Permanent signs which measure 36 inches or less on a side and are to be mounted on a single post shall be constructed of single 0.080-inch aluminum panels.
The third sentence of the first paragraph is hereby revised to read:
Sign overlay panels shall be 0.050-inch aluminum panels.

9-28.9 Fiberglass Reinforced Plastic Signs
This section is deleted in its entirety.

END OF SECTION
9-29 ILLUMINATION, SIGNALS, ELECTRICAL
(July 22, 2020 Tacoma GSP)

9-29.1(6) Detectable Underground Warning Tape
This section is supplemented with the following:

For electrical circuits detectable underground warning tape shall be high visibility red,
with continuous legend of “Caution Electric Line Buried Below” or equal. The warning
tape shall be polyethylene with a metallic backing. The polyethylene shall be a minimum
3 inches wide, 4 mils thick.

9-29.2 Junction Boxes, Cable Vaults and Pull Boxes

Unless otherwise specified, all junction boxes containing illumination and signal control
cable shall be Type 1, Standard Duty with alternate 2 locking lid per state standard plan
J-40.10-04.

Unless otherwise specified, all junction boxes containing interconnect cabling shall be
Type 2, Standard Duty with alternate 2 locking lid per state standard plan J-40.10-04.

9-29.2(4) Cover Markings
The second paragraph of this section is revised to read:

Covers shall be marked or embossed with “LT” for boxes containing illumination circuits.
Covers shall be marked or embossed with “TS” for boxes containing traffic signal circuits

9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable
This section is supplemented with the following:

Where not otherwise specified, all wiring shall meet standard of the industry for the
application employed. Wiring shall be consistent with manufacturers’ recommendations
and meet all applicable codes.

9-29.3(1) Fiber Optic Cable
This section is supplemented with the following:

Unless otherwise specified, all fiber optic trunk communication lines (lines between
intersections) shall be 24 count singlemode fiber optic cable. Fiber Optic cables
connecting the Fiber Optic Termination Panel in the signal cabinet to the Fiber Optic
Splice Closure in the signal communications junction box shall be 6 count singlemode
fiber optic cable.

This section is supplemented with the following New Sections:

9-29.3(1)C Fiber Optic Splice Closures

Unless otherwise specified, all fiber optic splice closures located in junction boxes shall
be AFL LightGuard 150 Sealed Fiber Optic Splice Closures. One AFL LL-2450 Splice
Tray shall be provided with each splice closure.
9-29.3(1)D Fiber Optic Termination Box

Unless otherwise specified, all fiber optic termination boxes located in signal cabinets shall be Fibertronics FOTB-6-12.

One coupler/adapter shall be provided and installed in the fiber optic termination box. Coupler shall be a female LC duplex to female LC duplex coupler designed for installation in a standard 12.8mm x 9.3mm adaptor port. Coupler color shall be blue, consistent with singlemode OS2 installations. Coupler shall be installed in the last (right most) adaptor port of the termination box and secured with 2 M2x6mm Philips head screws.

Two pre-terminated patch cables shall be provided, one 1-foot (0.3m) in length, and one 6 feet (2m) in length. Patch cables shall be LC duplex singlemode OS2 9/125 fiber patch cables and rated for indoor/outdoor use. Patch cables shall have a yellow colored 3mm diameter jacket, and blue LC duplex connectors, consistent with singlemode OS2 installations.

9-29.3(2)A Single Conductor

9-29.3(2)A1 Single Conductor Current Carrying

This section is supplementing with the following:

Service connections shall be stranded copper size AWG #6 USE unless otherwise shown in the plans. Black conductor insulation shall be used for the service and the neutral conductor shall be white. Color tape marking shall not be acceptable for the neutral conductor.

9-29.3(2)A2 Grounding Electrode Conductor

This section is supplemented with the following:

Grounding electrode conductor shall be minimum #8 AWG unless otherwise shown in the plans. When the ground is pulled through a conduit, the wire shall be insulated. Color tape marking shall not be acceptable for marking the ground.

9-29.3(2)A3 Equipment Grounding and Bonding Conductors

This section is supplemented with the following:

Equipment grounding shall be minimum #8 AWG unless otherwise shown in the plans. When the ground is pulled through a conduit, the wire shall be insulated. Color tape marking shall not be acceptable for marking the ground.

9-29.3(2)B Multi-Conductor Cable

This section is supplemented with the following:

Two-conductor through 10-conductor unshielded signal control cable, shall have stranded copper conductors, size AWG 14, and shall conform to International Municipal Signal Association (IMSA) signal cable 20-1.
9-29.3(2)F Detector Loop Wire
This section is revised to read:

The loop wire shall be IMSA 51-7, #14 AWG, encased in an orange colored HDPE jacket. Shielded loop lead-in wire shall be #18 stranded tinned-copper, twisted pair, 2 conductor cable with polyethylene insulation, conductors cabled, and shall have aluminum-polyester foil-shield furnished in 100% coverage, stranded tinned-copper drain wire and an overall chrome-vinyl jacket.

9-29.3(2)I Twisted Pair Communication Cable
This section is revised to read:

The cable for interconnect for underground installation shall be IMSA 40-2 #19 AWG 6 twisted pair, shielded, PE outer jacket or IMSA 40-4 #19 AWG 6 twisted pair, figure 8, shielded, PE outer jacket for overhead installation.

9-29.4 Messenger Cable, Fittings
This section is supplemented with the following:

Messenger cable shall be 5/16-inch, seven-wire strand messenger cables conforming to ASTM A 475, extra-high strength grade, 11,200 lbs. min. breaking strength, Class B galvanized.

All guy eye anchor rods shall be double-hub type.

Weatherheads shall be clamp-on type PVC. Where used for signal or flashing beacon conductors, the center of the wire entrance shall be cut or machined out to a large diameter to accommodate entry of multi-conductors. All edges shall be smoothed to avoid chaffing.

All miscellaneous nuts, bolts, washers and fittings shall be stainless steel or brass unless otherwise noted.

All metal line hardware shall be hot-dipped galvanized in conformance with the requirements of ASTM Designation A-153. All eyebolts shall be thimble eye design cast or welded to form a solid eye.

5-strand, class B galvanized steel, pretwisted guy strand dead ends, high strength cable conforming to ASTM Designation A-475, shall be utilized at all span wire terminations. 1/2" rope wire thimbles shall be required where span wire connects to all poles or bull rings, except where thimble eye bolts are used. Span wire shall normally be installed directly pole to pole, unless otherwise directed or specified.

Strain insulators shall be installed where connecting to wood poles. Where span wire is connected to a steel or concrete pole, insulators shall not be installed. Strain insulators shall be wet process, porcelain, conforming to EEI-NEMA Class 54-2 standards for 12,000-pound ultimate strength and shall be installed 9 feet from the pole.
9-29.6 Light and Signal Standards
This section is supplemented with the following:

All light and signal standards shall be fixed base.

The head of the handhold security bolt shall be flush with the face of plate. The face plate of the handhole shall be flush with pole.

9-29.6(3) Timber Light Standards, Timber Strain Poles, Timber Service Supports
This section is supplemented with the following:

All timber poles shall be Class II unless otherwise specified.

Mast arms for wood poles shall be “tapered elliptical” or “tapered truss” style, of a size sufficient to be used with a luminaire weight of 48 pounds with an EPA of 1.1 square feet. Arms shall have 2-3/8 inches O.D. x 8-inch long slip fitter for mounting luminaire.

9-29.6(5) Foundation Hardware
This section is supplemented with the following:

All pedestrian pushbutton poles (Type PPB) shall be installed utilizing a Breakaway Base Connection system in conformance with WSDOT standard plan J-20.15-03. Bracket shall be sized to accommodate a standard push button pole with an outside diameter of 3.5-inches. Anchor bolt receivers shall be installed at 2-3/4-inch by 7-15/16 inch on center.

Section 9-29.6 is supplemented with the following new section:

9-29.6(6) City of Tacoma Universal Pole

Unless otherwise specified, light standards and strain poles shall be in conformance with the following City of Tacoma standard design.

Strength
Each pole and mast arm shall have adequate strength for the designated luminaire with 1.8 safety factor for maximum combined stresses using 90 mph isotach (117 mph gusts) per AASHTO specifications for structure supports for highway luminaires. Design shall be based on total loading of 50 pounds and EPA of 2.0 square feet.

Standard Bolt Spacing
30 Foot poles -- Baseplate shall accommodate 1 inch anchor bolts. The bolt circle shall be between 11 inches and 13 inches.
40 Foot Poles -- Baseplate shall accommodate 1 inch anchor bolts. The bolt circle shall be between 12.5 inches and 14.5 inches.

9-29.6(6)A Steel Strain Poles

Each pole shall be of tapered round or octagonal construction.

CLASS 1 POLE: Design for dead load tensions up to 1500 pounds
CLASS 2 POLE: Design for dead load tensions up to 2600 pounds
Class 1 poles shall have a minimum base diameter of 12-inches for octagonal poles and 12-1/4-inches for round poles. Poles shall have a minimum wall thickness of 0.3125-inches. Anchor bolts shall be 1-1/2-inch by 60-inches and shall have a spacing of 11-5/16-inches on center, on the square. It is the responsibility of the pole manufacturer to maintain proper clearance between the pole shaft and nuts for the anchor bolts.

Class 2 poles shall have a minimum base diameter of 13-1/2-inches for octagonal poles and 14-inches for round poles. Poles shall have a minimum wall thickness of 0.375-inches. Anchor bolts shall be 2-inch by 66-inches and shall have a spacing of 12-3/4-inches on center, on the square. It is the responsibility of the pole manufacturer to maintain proper clearance between the pole shaft and nuts for the anchor bolts.

Poles shall be of single-ply construction. Multiple-ply poles shall not be allowed.

Each pole shall be of tapered round or octagonal construction. Pole taper shall be in the range of 0.13 to 0.14 in/ft.

A base plate and top casting shall be securely attached to each pole. The attachment of the base plate to the pole shall be a welded connection sufficient to develop the full strength of the pole. The base plate shall have four (4) holes which will sufficiently accommodate the specified anchor bolts for the pole class.

Pole shall be of sufficient strength to allow for the span wire to be installed to sag an amount equal to 5% of the span length.

The maximum acceptable deflection, at 30 feet above the base, is 5 inches. The specified deflection shall be at a loading condition of 1,500 pounds horizontal pull at 30 feet above the base for Class 1 Poles. For Class 2 Poles, the loading condition shall be 2,600 pounds horizontal pull at 30 feet above the base.

Structural material shall be zinc-coated by a “hot-dip” process in accordance with ASTM A123 and the final coating shall measure 0.0039 inch or more in thickness as determined by a magnetic thickness gauge. All tapped holes shall be chased after galvanizing. Hardware shall be coated in accordance with ASTM A307.

The finished pole shall be reasonably straight and free from injurious defects. If galvanizing is damaged, the maximum area to be repaired is defined in accordance with ASTM A123 Section 4.6. The maximum area to be repaired in the field shall be determined in advance by the Engineer. Repair areas damaged during construction, handling, transport or installation by one of the approved methods in accordance with ASTM A780 whenever damage exceeds 3/16 inches in width. Minimum thickness for repair shall measure 0.0039 inches.

The company shall furnish the purchaser with template prints showing spacing and size of holes in base for the anchor rods.

The material shall carry the manufacturer’s standard guarantee against any defect in material or workmanship for a minimum period of one year following the date of installation. The Contractor shall submit mil test reports for all steel used in the manufacturing of strain poles and pedestals.
The Contractor shall submit a Certificate of Compliance with ASTM Standards and Specifications for galvanizing. The certificate, signed by the galvanizer, shall detail the galvanizing process and testing procedure to determine that galvanizing meets minimum thickness specified.

The contractor shall submit welder certification. Welders must be certified to AWS standards.

Each pole shall include the following:

1. One (1) rain-tight pole cap.
2. One (1) 4-inch by 6-1/2-inch handhole at base end with cover plate opposite to mast arm.
3. Anchor bolts shall be hot dipped galvanized steel with two (2) galvanized nuts and two (2) washers for each bolt. Only 12-inches of threaded end of the bolts must be galvanized. 1-1/2-inch diameter bolts shall have 8-inches of top thread and 2-inch diameter bolts shall have 10-inches of top thread.
4. Anchor bolts shall have threaded bottom ends to receive an anchor plate and nut. The nut shall be tack-welded to the anchor plate. Anchor plates for 1-1/2-inch diameter anchor bolts shall be 4-inch square by 1-inch thick. Anchor plates for 2-inch diameter anchor bolts shall be 6-inch square by 1-inch thick.
5. One (1) adjustable strain clamp to be mountable between 26 to 28 feet above the base. Clamp shall provide facility to attach span wire at four-quarter points.
6. Provisions for mounting a mast arm of specified length. All poles shall be supplied with one mast arm mounting flange. The centerline of the flange shall be approximately 6 inches below the top of 38-foot poles and 24 inches below the top of 30-foot poles. The flanges shall conform with the detail drawing included in the Special Provisions. Poles ordered without mast arms but with provisions for a later addition of a mast arm shall be provided with a metal cover and gasket to protect the opening being provided. The cover shall be bolted to the pole using the holes provided for fastening the mast arm.
7. One (1) two-inch coupling to receive clamp-on type aluminum weatherhead positioned at 27 feet, and no more than 45° from the location of the mast arm, unless otherwise specified.
8. One (1) 1-1/4-inch coupling for wire inlet located directly opposite the mast arm.
9. One (1) grounding lug-hole in lip of handhole for 1/2-NC brass bolt.

9-29.6(6)B Luminaire Mast Arms

Each mast arm shall have sufficient strength with a 1.8 safety factor to support a 70-pound luminaire on an 18-foot mast arm per the latest AASHTO Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

Material and workmanship shall conform to the best commercial standards of the industry.

The mast arm and its fastening shall be constructed of steel conforming to Section 9-29.6.
Each mast arm shall support a ballast-in-head luminaire and shall provide a luminaire mounting height of approximately two (2) feet above the strain pole mounting flange.

The mast arm shall provide a horizontal extension from the center of the pole to the center of the luminaire as shown in the Plans.

The mast arm shall be of tapered construction. The luminaire end of the mast arm shall not exceed 2.375 inches O.D. for a minimum distance of 8 inches. The outside arm diameter at the pole flange shall not exceed 5.88 inches.

The mast arm shall be capable of being fastened to the mast arm mounting flange dimensioned in the detail drawing. All mounting bolt heads shall clear the weld.

9-29.10 Luminaires

This section is supplemented with the following:

Unless otherwise shown in the plans all new luminaires shall be Light Emitting Diode (LED) fixtures conforming to these specifications.

Cobra-head style luminaires and other overhead fixtures, such as shoebox style fixtures, shall be provided with utility labels. Ornamental post top fixtures shall not have utility labels. Utility labels for LED fixtures shall be green and show actual total system wattage.

9-29.10(1) Conventional Roadway Luminaires

This section is replaced in its entirety with the following:

All Conventional Roadway Luminaires shall be LED meeting the following requirements:

1. Applicable Standards:
   a. American National Standards Institute (ANSI) C78 and C136
   b. Electrical and Electronics Engineers (IEEE) C62
   c. Illuminating Engineering Society of North America (IESNA or IES)
   d. Underwriters Laboratories (UL)

2. General:
   a. Luminaire shall be UL Listed
   b. Luminaire shall be listed as a Qualified Product on one of the following lists:
      i. Energy Star
      ii. Design Lights Consortium
      iii. Lighting Design Lab
   c. LED light source and driver shall be compliant with the requirements of the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive.
   d. Luminaire shall have an external label per ANSI C136.15.
   e. Luminaire shall have an internal label per ANSI C136.22.

3. Luminaire Performance:
   a. Operating Temperature Range: -4 F to +122 F
   b. Correlated Color Temperature: (CCT)
      i. Residential- 3000K Nominal
      ii. Arterials - 4000K Nominal

129
4. Power Supply and Driver Performance:
   a. Input Voltage: Auto-sensing 120 to 277 VAC 50/60HZ
   b. Power factor: >0.90
   c. Drive current maximum of 1.0A
   d. Total harmonics distortion at full power at specified voltage: <20%
   e. Surge Suppression Protection 10kV Minimum (IEEE/ANSI C62.41.2)
   f. Replaceable surge module
   g. Interference FCC 47 CFR part 15/18, Class A
   h. Driver life >100,000 hours
   i. Dimming: 0-10V DC

5. Lighting and Dimming Controls:
   a. The luminaire shall be provided with a 7-pin terminal locking type
      photoelectric control mounting receptacle in accordance with ANSI
      C136.10 and ANSI C136.41.
   b. Photocell receptacle dimming contacts shall be factory connected to
      driver dimming leads (violet and gray) per ANSI C136.41.

6. Luminaire Housing and Door:
   a. The luminaire housing shall be cast or extruded aluminum. All
      hardware shall be stainless steel.
   b. Cast housing components shall have a light gray polyester powder
      coat finish. Extruded components shall be anodized. Finish shall
      meet the requirements of ANSI C57.31, latest revision.
   c. The power-door shall be fabricated from either aluminum or a UV
      resistant polymer.
   d. The door shall be easily removable and shall allow for tool-less entry.

7. Slipfitter and Vibration Resistance:
   a. Slipfitter shall be capable of accepting a 1-1/4" through 2" IP pipe
      tenon (1-5/8" to 2-3/8" OD) with maximum allowable insertion lengths
      of 7-1/2" and 10" respectively in accordance with Table 2 of ANSI
      C136.3, latest revision.
   b. The Slipfitter shall have provisions for clamping the luminaire securely
      to the tenon and for leveling ± 5° with respect to horizontal.
   c. Luminaire shall be certified to ANSI C136.31 3G bridge and overpass
      vibration standards with 4-bolt configurations.

8. Ingress Protection:
   a. The luminaire components shall have minimum moisture rating as
      specified in IEC 60529, with the ability to shed water from inside the
      housing(weep holes), and designed to minimize water collection and
      icing.
   b. Internal Components: IP66
   c. Enclosure: IP65

9. Terminal and Grounding Block:
   a. Components shall be pre-wired to the terminal board requiring only
      supply power connections to clearly identified terminals.
b. The terminal board shall be located so that there is adequate tool-less access to accommodate user wearing electrical gloves to connect the supply leads.

10. Manufacturer Warranty:
a. 10 Year Minimum including power driver and LED chips.

9-29.10(1)A Luminaire Classifications
The City of Tacoma has established five (5) classes of LED Conventional Roadway with specific design criteria to ensure long-term lighting continuity. Luminaires are divided into classes based on function, typical use and historical High Intensity Discharge (HID) equivalents. Current classes are 100WEQ, 200WEQ, 250WEQ, 400WEQ, and RES-45. Each conventional luminaire installed shall meet the design criteria of one of these five luminaires.

Design assumptions and criteria listed for each luminaire classification may not reflect the actual conditions on the project. The design assumptions and criteria identified are only to be utilized to determine luminaire equivalency, such that another luminaire meeting the same criteria can be used to replace a failed unit without a complete redesign of the entire system.

Equivalence will be determined as follows:
1. The City of Tacoma will use Lighting Analysts AGi32 lighting software program for determination of equivalence using the design assumptions and criteria identified for each class of luminaire.
2. The roadway optimizer will be used to evaluate the performance criteria in all cases, except for the Res-45 class luminaire, where model view will be utilized to calculate the photometrics.
3. Proposed fixtures may not be tilted, rolled, or spun to meet the criteria.
4. All calculations shall be to the 100th. Rounding will not be permitted.
5. A copy of the published IES photometric file and BUG (Backlight, Uplight, and Glare) Rating shall be provided as a part of product submittal.
6. It is recognized that there are an infinite number of design variables and it is not practical to create a published IES photometric file and BUG rating for each combination. In those cases where the wattage is reduced to meet the design criteria, the base IES photometric file for the higher wattage configuration shall be used as follows:
   a. Where no IES photometric file exists for the specific configuration, all information required to allow the City to duplicate the results and assure that the fixture meets the criteria must be provided.
   b. When reducing the system wattage, the BUG rating of the base IES photometric file must be utilized, but may be scaled based on IES LM-79.
   c. For modified fixtures, the City may require that a representative fixture be provided prior to acceptance. The City reserves the right to have an independent NVLAP approved lab perform an IES LM-79 report for verification of the output for the submitted fixture. A 10 percent margin of error will be allowed in the analysis and comparison of the actual test results. Failure to meet the photometrics within the allowance may be cause for rejection.
Full design assumptions and design criteria for each of the five luminaire classes can be found at the end of this section. Excessive glare or light trespass onto private property is not acceptable. Typical usage for luminaire classes:

- **100WEQ Luminaires** are typically installed along residential roadways at a height of 25 to 30 feet. 100WEQ Luminaires have a long and narrow light distribution to fit a typical residential road.

- **200WEQ Luminaires** are typically installed along local classified arterial roadways and along arterials with lower pedestrian conflicts. 200WEQ Luminaires are typically installed at a height of 30 feet and will have a slightly wider distribution to cover the additional width.

- **250WEQ Luminaires** are typically installed along collector to minor classified arterial roadways. 250WEQ Luminaires can be installed at a height of 30 feet or 40 feet depending on pedestrian conflict level, road width, and lighting levels required.

- **400WEQ Luminaires** are typically installed along principal classified arterial roadways or areas where a higher pedestrian conflict exists. 400WEQ Luminaires are typically installed at a height of 40 feet, often installed on both sides of the roadway, in a staggered pattern to adequately light the full roadway width.

- **RES-45 Luminaires** are typically installed at residential street intersections or for cul-de-sacs. For residential intersections, these lights are typically installed on one corner of the intersection at a 45 degree angle to the traveled ways. The light distribution is designed to provide illumination for the intersection, but not create unacceptable light trespass on adjacent properties.

### 9-29.11 Control Equipment

#### 9-29.11(2) Photoelectric Controls

This section is revised to read:

The photoelectric control shall be the twistlock type and the light sensitive element shall be a solid state photo diode. The control shall be designed to turn on at 2.6 foot-candles (+/- 20%) and turn off at 2.6 foot-candles (+/- 20%). The lighting control shall not drift by more than 1 per cent over a 10-year period.

The output control relay shall be electro-mechanical. The time delay for both turn on and turn off shall be a minimum of one second and maximum of 5 seconds. The output relay shall be rated 1000 watts incandescent or 15 amps inductive load. The contacts shall be normally closed.

The lighting control shall have a built in metal oxide varistor (MOV) rated a minimum of 160 joules for lightning and transient protection. The control shall also have secondary zener diode and transient filter. The relay shall be suitable for operation on 240 volt, 60 hertz electrical circuits.

Dimensions shall conform to ANSI specifications for twistlock photocells.
9-29.12 Electrical Splice Materials

9-29.12(1) Illumination Circuit Splices

This section is revised to read:

Splices and taps shall be made with solderless crimp connectors on underground and overhead circuits to securely join the wires both mechanically and electrically.
Splices shall be sealed in accordance with 8-20.3(8).

Thermoplastic Electrical Insulating Tape

Electrical tape shall be made by the same manufacturer and compatible with the electrical coating utilized to form a complete system that both insulates and protects the splice. Electrical tape shall be based on polyvinyl chloride (PVC) and/or its copolymers and have a rubber–based, pressure–sensitive adhesive. The tape shall have a voltage rating of 600V (UL510). The tape shall be 7 mils thick, and be UL Listed and marked per UL Standard 510 as “Flame Retardant, Cold and Weather Resistant.” The tape shall be resistant to abrasion, moisture, alkalies, acids, corrosion, and varying weather conditions, including ultraviolet exposure. The tape must be applicable at temperatures ranging from 0°F through 100°F (–18°C through 38°C) without loss of physical properties. The tape shall have an operating temperature up to 220°F (105°C). The tape shall be classified for use in outdoor environments. The tape shall be compatible with synthetic cable insulations, jackets and splicing compounds. The tape will remain stable and will not telescope more than 0.1 inches when maintained at temperatures below 120°F (50°C).

Moisture Resistant Electrical Coating

Electrical Coating shall be made by the same manufacturer and compatible with the vinyl electrical tape utilized to form a complete system that both insulates and protects the splice. Electrical Coating shall seal and bond the tape and be suitable for direct burial, direct water immersion, and above ground applications. Electrical coating shall be flexible when dry. Electrical coating shall consist of the solvents Acetone, Methyl Ethyl Ketone and Toluene and shall contain synthetic rubber and resin solids.

9-29.12(2) Traffic Signal Splice Material

This section is revised to read:

Induction loop splices and magnetometer splices shall include an uninsulated barrel-type crimped connector capable of being soldered. The insulating material shall be a heat shrink type meeting requirements of 9-29.

9-29.13 Control Cabinet Assemblies

This section is revised to read:

The Traffic Controller Cabinet Assembly shall be completely wired and tested to Section 5 Terminals and Facilities of the NEMA TS2 Specification, unless modified by these specifications.
Cabinets shall be compatible with both Siemens M50 and M60 series controllers.
The following submittals will be required for the review and approval by the City prior to fabrication and wiring:
1. Proposed cabinet layout diagram including shelving/rack locations. In addition, detailed diagrams shall be provided for the left side, right side, and back panels. Drawings shall be clearly labeled and dimensioned.

2. Proposed cabinet wiring diagram shall be submitted for the review and approval by the City. Wiring of cabinets shall not commence prior to City approval of the cabinet wiring plan. All submittal comments shall be incorporated into a final set of prints and each cabinet shall be furnished to three (3) complete sets of cabinet prints. All cabinet wiring, and layout shall come on (1) E1 size sheet, multiple pages shall not be allowed. Upon request (1) CDROM or USB flash drive with AutoCAD v2018 cabinet drawing for the cabinet wiring.

9-29.13(1) Traffic Control Cabinets
Each Traffic Controller Cabinet shall meet the following general operating requirements:

1. The wired cabinet facility shall use the latest technology applicable meeting the requirements identified by these specifications.

2. The cabinet shall be designed for 16 channel operation using dual load switches. Load switches 1-4 shall be vehicle phases 1-8; load switches 5-6 shall be pedestrian phases 2, 4, 6, 8; load switches 7-8 shall be overlaps A, B, C, & D. All load switches shall be routed through a transfer relay.

3. The cabinet shall be wired for (32) channels of detection and (4) channels of Opticom™ preemption.

4. The use of PC boards shall not be allowed except in detector racks and SDLC interface panels. With the exception of detection racks, the use of plug and play modules shall not be allowed.

5. All cabinet 120VAC wires shall be 18AWG or greater, including controller “A” and MMU “A & B” cables.

6. All welds shall be free from burrs, cracks, blowholes or other irregularities.

7. The cabinet shall be UL listed.

9-29.13(1)A Cabinet Enclosures
All Cabinet enclosures shall meet the following requirements:

1. Controller cabinets that are not designated in the project plans and specifications as UPS Controller Cabinets shall be sized in accordance with NEMA P44 Controller Cabinet standards.

2. The cabinet shall meet NEMA 3R rating for enclosures.

3. The cabinet shall be fabricated from 0.125” minimum thickness 5052 H32 ASTM B209 aluminum alloy and be of clean cut design and appearance. The Cabinet shall be supplied with a natural mill finish inside and out, unless otherwise specified.

4. All exterior seams shall be manufactured with a neatly formed continuous weld construction.
5. All external fasteners shall be stainless steel. Interior cabinet welds shall be continuous for all lap and butt welds. Intermittent welds or silicone adhesive shall not be accepted in place of a weld for weather-tight penetrations. Pop rivets shall not be allowed on any external surface.

6. The cabinet shall be designed for mounting on a concrete pad with anchor bolts and typical flanges inside the cabinet. The cabinet base shall have continuously welded interior mounting reinforcement plates with the same anchor bolt-hole pattern as the footprint dimensions.

7. Unless otherwise approved by the Engineer, there shall be a minimum ten (10) inch vertical clearance above the front half portion of the base area to provide a clearance for conduit and cable entering the cabinet.

8. The cabinet shall be double-flanged where it contacts cabinet doors.

9. The top of the cabinet shall be sloped down 1" towards the rear to facilitate water runoff. The roof shall be sloped at a 90° angle at the front of the cabinet. Lesser slope angles are not allowed.

10. The cabinet shall be equipped with “C” channel rails welded to the interior of the cabinet such that panels may be mounted to the interior of the cabinet without drilling through the outer cabinet. The “C” channel rails shall be sufficient in strength to accommodate planned and reasonably anticipated future equipment needs. At a minimum, the cabinet shall have (2) welded on the back wall, and (4) welded on each side wall with (2) pairs on 8-inch centers. The side and back wall C channel rails shall run the entire usable height of the cabinet walls. Adjustable rails are not allowed.

11. The cabinet shall come with lifting ears affixed to the upper exterior of the cabinet. The lifting ears shall utilize only one bolt such that the ears can be reoriented.

9-29.13(1)A1 Cabinet Enclosures for UPS Systems

Controller cabinets that are designated in the project plans and specifications as UPS Controller Cabinets shall be 70" high x 44" width x 25.5" depth (nominal dimensions) and meet the footprint dimensions as specified in Section 7.3, table 7-1 of NEMA TS2 standards for a Type P cabinet.

UPS Controller Cabinet enclosures shall meet all applicable requirements of Section 9-29.13(1)A and shall meet the following additional requirements:

1. The controller cabinet shall have (2) separate compartments. A Main compartment and a Battery Backup System (BBS) compartment.

2. The main compartment shall be accessible from the front door and shall house the cabinet load facilities and electronics. The Battery Backup System (BBS) compartment shall be accessible from the side door and shall contain the UPS system batteries.

3. The cabinet shall be designed such that when the UPS system inverter and ATS assembly are mounted in the BBS compartment, they shall be fully accessible when the front door is open.
9-29.13(1)B Cabinet Doors and Locks

Cabinet Doors and Locks shall conform to the following:

1. A hinged door shall be provided on the front of the cabinet permitting complete access to the cabinet and the equipment to be contained therein.

2. Cabinet doors shall be mounted with single continuous stainless steel piano hinges that run the length of the door. The hinges shall be attached via stainless steel tamper resistant bolts.

3. Closed-cell, neoprene gaskets shall be bonded to the inside of cabinet doors. The gaskets shall cover all areas where the doors contact the double flanged cabinet housing exterior and be thick enough to provide a watertight seal.

4. Bearing rollers shall be applied to ends of door latches to discourage metal-on-metal surfaces from rubbing.

5. All lock assemblies shall be positioned such that the door handle does not cause interference with the key when opening the door.

6. A complete set of keys shall be supplied providing access to all doors, including the front cabinet door, the cabinet side door (where applicable), the police door and the generator receptacle door.

The front cabinet door shall meet the following additional requirements:

1. The front door of the cabinet shall be equipped with a universal lock bracket. The lock core shall be a green construction core as noted in section 9-29.25.

2. A stiffener plate shall be welded to the inside of the front door to prevent flexing.

3. The front door shall have a two-position, three-point door stop that accommodates open-angles at 90°, 125°, and 150°.

4. The front door handle shall be ¾” round stock stainless steel bar. Door handle mechanisms shall be interchangeable and field replaceable.

A side door on UPS Controller Cabinets shall be provided for accessing the BBS compartment. The cabinet side door shall meet the following additional requirements:

1. The side door shall be one piece construction without any recessed compartments.

2. The side door shall have a three-position, two-point door stop that accommodates open-angles at roughly 80°, 100°, and 120°.

3. The side door shall use a recessed hexagonal socket in lieu of a door handle.

9-29.13(1)C Recessed Compartments

The front door shall contain (2) flush mount locking recessed compartments. The upper compartment shall house a police door and the lower compartment shall house a generator bypass receptacle.

1. The welds for the police compartment and the generator receptacle compartment shall be done on the outside of the front door.

2. The police door compartment shall come with a conventional police lock.
3. The generator bypass receptacle compartment shall have an integrated door slide mechanism that allows the door to be closed and locked after a generator has been connected to the internal receptacle.

4. The generator bypass receptacle compartment shall be equipped with a universal lock bracket. The lock core shall be a Green construction core as noted in section 9-29.25.

5. The locking generator bypass compartment will be used to connect a generator for operating the cabinet during loss of service line power. The generator compartment shall be capable of being closed and locked while a generator is connected. The mechanism for allowing generator cable access, while the compartment is closed, shall be an integral part of the generator bypass door, via a sliding panel that will normally be in the closed position.

9-29.13(1)D Cabinet Ventilation
Cabinet ventilation shall be provided as follows:

1. A louvered air entrance shall be located at the bottom of the front cabinet door.
2. For UPS Cabinets, a louvered air entrance shall also be provided at the bottom of the side cabinet door.
3. Louvered air entrances shall satisfy NEMA rod entry test requirements for 3R ventilated enclosures. The baffle panel that holds the fan assemblies shall be sealed on the interior of the cabinet.
4. The cabinet shall come with (2) three-stage, multi-ply progressive density polyester, disposable air filter; and the filter performance shall conform to listed UL 900 Class 2 and shall conform to ASHRAE Standard 52.1. The filter shall be secured to entrance on main door by two (2) horizontally-mounted restraints.
5. The cabinet shall be provided with two (2) finger safe fans mounted on the right and left sides of the cabinet plenum, and shall be thermostatically controlled. Fans shall have a rating of 100 CFM and the thermostat setting to allow variable turn-on between 90 degrees and 140 degrees Fahrenheit. The fan motor shall use ball-bearings. This unit shall be fitted with an electrical noise suppressor. The safe touch thermostat and power terminal block(s) shall be din rail mounted on the cabinet plenum.

9-29.13(1)E Cabinet Shelving
Cabinet Shelving shall be provided as follows:

1. The cabinet shall have two (2) aluminum 0.75-inch shelves that span the width of the cabinet. Shelves shall be double beveled 10” deep and reinforced with welded V channel, fabricated from 5052-H32 0.125-inch thick aluminum with double flanged edges rolled front to back. Slotted holes shall be inserted every 7” for the purpose of tying off wire bundles.
2. A slide-out computer shelf 16” length by 12” width by 2” depth shall be installed underneath the bottom equipment shelf. The shelf shall be mounted just left of center so that controller cables will not interfere with the operation of the shelf when equipment is installed. The computer shelf shall have a hinged cover that opens from the front and shall be powder-coated black. The computer shelf shall be fully retractable under the bottom equipment shelf. When fully extended, the
computer shelf shall hold a minimum of 50lbs and shall automatically secure in place, mechanically, with a tool-less release mechanism.

3. For UPS Controller Cabinets, the BBS compartment shall come with (1) 14.25” x 7.75” flanged shelf designed to hold the batteries. In the UPS configuration, the main cabinet shall come with a third shelf that runs the entire width of the cabinet above the BBS compartment.

4. The cabinet shall have one (1) aluminum 0.75 inch shelf measuring 20.90 inches wide by 10.75 inches deep next to the load bay and mounted 9.25 inches from the bottom of the cabinet. Shelf shall be double beveled and reinforced with welded V channel, fabricated from 5052-H32 0.125-thick aluminum with double flanged edges rolled from front to back.

9-29.13(2) Wiring
All wiring within the cabinet shall be neat and firm. All cabinet wire shall be amply rated for the function intended and shall include the use of terminal and suitable identification labels.

Connectors and harnesses shall be provided as defined in the latest NEMA TS 2 standard. Connector A & B shall be supplied for the monitor unit. In addition, the cabinet shall be wired with a standard 55-pin NEMA TS 1 Connector A.

Wire for harnesses shall conform to MIL-W-16878E Type B, and shall be rated to 600 volt, 105 degree Celsius. Wire shall be 22 gage, 19 strand. Wires shall be connected to the heads in the form of crimp-pinned connections. Solder lugs shall not be allowed. Connectors shall conform to MIL-C-26482 Series 1. Cables shall be covered with nylon expandable sleeving. Spiral wrap shall not be used. Termination points of the harnesses shall be accessible to the technician without requiring the back panel to be dropped. Unused harness wires shall be tied to the furthest location on the front of the back panel and shall be capped off.

Wires other than harnesses for the monitor and controller shall be THHN, rated at 600 volt, 105 degree Celsius, and shall be a minimum of 22 AWG.

Non insulated connectors shall be utilized for all connections to the Detector Input Terminal Strip.

9-29.13(3) Electrical Design

9-29.13(3)A Load Bay
The design of the load-bay shall conform to NEMA TS2 Section 5, Terminals and Facilities, unless modified herein. The load bay shall be the termination point for the controller unit (CU) CU 55-pin TS1 MSA cable, the (MMU) MSA & B cables, bus interface units (BIU) 1 and 2, and field terminal facilities. The terminal facilities layout shall be arranged in a manner that allows all equipment in the cabinet and all screw terminals to be readily accessible by maintenance personnel.

The load bay shall be fully wired and meet the following requirements:

1. The load bay assembly shall be constructed of smooth finished aluminum, with a minimum nominal thickness of 0.125 inches (1/8 inch). The dimensions shall not exceed a maximum height of 16 inches and a maximum width of 18
inches including wiring bundles. The load bay assembly shall be mounted
between 7-inches and 9-inches above the bottom of the cabinet.

2. The load bay assembly (panel) shall be hinged and capable of folding down
to allow full access to all back-panel wiring. All solder terminals shall be
accessible when the load bay is rolled down. The assembly shall be able to
roll down without requiring other components, cables, or switches to be
removed. The panel shall be constructed, and wiring shall have sufficient
slack, such that folding down the back panel shall not interfere with the
operation of the traffic signal while in service.

   (1) All wire shall enter the lower edge of the panel to facilitate folding
down back panel. The controller (CU) and malfunction management
(MMU) cables shall be routed through the back of the load-bay so that
they will not be subject to damage during load-bay roll down.

   (2) The load bay shall be designed so that all other cabinet screw
terminals are accessible without removing cabinet electronics.

   (3) The panel shall be able to be fully secured when in its upright position.

   (4) The top of the load-bay panel shall attach directly to “C” channel and
detach without the use of tools or hardware for roll down purposes.

   (5) The load bay shall be balanced such that it will not roll down when the
top of the load bay is detached from the “C” channel, even when fully
loaded with BIU’s, load switches, flasher, and flash transfer relays.

3. The load-bay facility shall be wired for 16 channels.

   (1) Load switch(s) 1-4 shall be vehicle phases 1-8

   (2) Load switch(s) 5 & 6 shall be pedestrian phases 2, 4, 6, & 8

   (3) Load switches 7 & 8 shall be overlaps A, B, C & D

   (4) Load switches 1-4 & 7-8 shall be routed through a flash transfer relay.

4. The following sockets will be provided:

   (1) Minimum eight (8) dual load switch sockets spaced 1.25 inches on
center.

   (2) Eight (8) flash transfer relay sockets designed to utilize high density
flash transfer relays.

   (3) One (1) dual flasher socket.

5. Load Resistors shall be provided on a back right side panel. See section 9-
29.13(3)B for more information.

6. All load switches and flasher shall be supported by a bracket extending at
least ½ the length of the load switch.

7. Controller Unit (CU) Wiring: Wiring the 55-pin TS1 MSA cable shall be
soldered to backside of a load bay screw-type terminal strip. All controller
pins functions shall be terminated.

8. Wiring for one (1) Type-16 MMU shall be soldered to backside of a screw
type terminal strip. Any used MMU functions shall be accessible from a
screw terminal.
9. Two (2) bus interface rack slots for BIU’s 1 and 2 shall be part of the main panel. The main panel BIU rack shall be located in the top left corner of the load-bay placed horizontally and shall accommodate half width BIU’s.

10. BIU wire connections to the PCB shall be via two (2) 34 pin connectors. These connections shall have locking latches. BIU wires shall be soldered to the backside of a screw terminal. The load-bay shall have one (1) 120VAC relay socket.

11. The load bay shall have one (1) relay that drops the +24VDC to load switches when the cabinet is in flash.

12. The load-bay shall be silkscreened on both sides. Silkscreen shall be numbers and functions on the front side, and numbers only on the back side. The back side shall have label oriented so that labels are upright when the load bay is rolled down.

13. The field terminals shall be as follows:
   - Red:  1R, 2R, 3R, 4R, 5R, 6R, 7R, 8R, 2DW, 4DW, 6DW, 8DW, AR, BR, CR, DR
   - Yellow: 1Y, 2Y, 3Y, 4Y, 5Y, 6Y, 7Y, 8Y, 2CL, 4CL, 6CL, 8CL, AY, BY, CY, DY

14. Field wiring terminations shall be per channel across the bottom of the load-bay. Each channel shall have 3 terminations corresponding to the appropriate phase Green/walk, Yellow/Ped clearance and Red/Don’t Walk. Default wiring shall be left to right vehicle phases 1-8, pedestrian phases 2, 4, 6, 8 and overlap channels A, B, C, and D following the order of the load switches. Field terminals shall be #10 screw terminal and be rated for 600V.

15. The cabinet shall be wired to flash for all channels. Flashing operation shall alternate between the flasher circuits 1 and 3 (channels 1, 3, 5, 7, 9, 11, 13, & 15) and circuits 2 and 4 (channels 2, 4, 6, 8, 10, 12, 14, & 16). Changing a channel from one circuit from one channel to another shall be possible through the front of the load bay without tools.

16. Flash programming shall be either red, yellow, or no flash by changing the programmed connector on the front of the load bay. The cabinet shall be supplied with overlaps phases programmed to red flash and pedestrian phases programmed to no flash.

17. The intersection shall be capable of being placed in flashing operation by the conflict monitor, remote input, internal controller time clock and door switch. Remote and internal controller time clock flash shall be in accordance with MUTCD flash. Conflict flash shall be all-red.

18. All spare circuits shall be wired and terminated on a terminal strip and shown on the wiring diagram.

19. All cable wires shall be terminated. No tie-off of unused terminals will be allowed.

All wiring shall conform to NEMA TS2 Section 5.2.5 Table 5-1. Conductors shall conform to military specification MIL-W-16878E, electrical insulated high heat wire, type B. Conductors #14 or larger shall be permitted to be UL type THHN. Main Panel wiring shall conform to the following colors and minimum wire sizes:

   Vehicle green load switch output  16 gauge brown
Vehicle yellow load switch output  16 gauge yellow
Vehicle red load switch output  16 gauge red
Pedestrian Clearance load switch  16 gauge yellow

Vehicle green load switch input  22 gauge brown
Vehicle yellow load switch input  22 gauge yellow
Vehicle red load switch input  22 gauge red
Pedestrian Clearance input  22 gauge yellow

Logic Ground  18 gauge white with red tracer
+24V DC  18 gauge red with white tracer
+12V DC  18 gauge pink
AC+ Line  14 gauge black
AC- Line  14 gauge white
Earth Ground  16 gauge green
AC line (load bay)  16 gauge black
AC neutral (load bay)  16 gauge white

Controller A Cables – AC+  18 gauge black
Controller A Cables – AC-  18 gauge white
Controller A Cables – Earth Ground  18 gauge green
Controller A Cables – All other cables  22 gauge blue

MMU A & B Cables – AC+  18 gauge black
MMU A & B Cables – AC-  18 gauge white
MMU A & B Cables – Earth Ground  18 gauge green
MMU A & B Cables – Start Delay Relay
   Common  18 gauge black
   Normally Open  18 gauge black
   Normally Closed  18 gauge black
MMU A & B Cables – All other cables  22 gauge orange

Two (2) conductors will supply alternating current (AC) power to the load switch sockets.
The load switch sockets shall be supplied 1-4 and 5-8 by each conductor.

The field terminal blocks shall have a screw Type No. 10 post capable of accepting no less than 3 No. 12 AWG wires fitted with spade connectors. Four (4) 12-position terminal blocks shall be provided in a single row across the bottom of the main panel. Spade lugs from internal cabinet wiring are not allowed on field terminal screws.

There shall be a plug-in bridge with (16) 3 position panel mount sockets and (16) two position plugs with screw terminals located below the flash transfer relays. These connections shall operate the flash programing between flash circuit 1 & 3 or 2 & 4. It shall be changeable from the front of the load-bay.

All load switches, flasher, and flash transfer relay sockets shall be marked and mounted with screws. Rivets and clip-mounting is unacceptable.

The power terminal blocks shall have a screw Type No. 10 post capable of accepting no less than 3 No. 12 AWG wires fitted with spade connectors. One (1) 12-position terminal
blocks shall be provided vertically on the right side of the load bay. The placement of the
power terminal block on any other panel shall not be allowed.

Wire size 16 AWG or smaller at solder joints shall be hooked or looped around the
eyelet or terminal block post prior to soldering to ensure circuit integrity. All wires shall
have lugs or terminal fittings when not soldered. Lap joint/tack on soldering is not
acceptable. All soldered connections shall be made with 60/40 solder and non-corrosive,
non-conductive flux. All wiring shall be run neatly and shall use mechanical clamps and
conductors shall not be spliced between terminations. Cables shall be sleeved in
braided nylon mesh and wires shall not be exposed.

All wires terminated behind the main panel or on the back side of other panels shall be
SOLDERED. No pressure or solder-less connectors shall be used. Printed circuit boards
shall not be allowed.

9-29.13(3)B Side Panels
Side panels shall be mounted on “C” channels as specified herein. All panels shall be
smooth finished aluminum sufficient in size and thickness for the intended purpose and
anticipated equipment required. Side panels shall be no smaller than 16 gauge and no
larger than 12 gauge. Side panels shall be mounted no closer than 13” from the rear of
the cabinet and no closer than 2” from bottom of cabinet.

The Back Left (BKL T) side panel(s) shall contain the following:
1. BKL T/PSIP – Power Supply Interface Panel
   a. 12-position, double row, high barrier block with #8/32 slotted brass
      screws
   b. See Section 9-29.13(3)B1 for additional requirements
2. BKL T/SDLC – SDLC Interface Panel
   a. 12-port SDLC terminal
   b. See Section 9-29.13(3)B2 for additional requirements
3. Additional blank panels are not required for vacant space in the back left of
   the cabinet.

The Front Left (FRLT) side panel(s) shall contain the following:
1. FRLT/VDIP – Video Detection Interface Panel
   a. See Section 9-29.13(3)B3 for requirements
2. FRLT/DP – Detection Panel
   a. Vehicle Detection: 64-position, double row, din mounted, screw type
      terminal block.
   b. Emergency Vehicle Preemption: 12-position, double row, din
      mounted, screw type terminal block
   c. Pedestrian Detection: 8-position, double row, high barrier block with
      #8/32 slotted brass screws
   d. Pedestrian Returns: Two (2) 8-position, single row, high barrier block,
      with #8/32 slotted brass screws
   e. Isolated Neutral Buss: 24-position, standard copper grounding buss
      bar suitable for #14 through #4 cu.
   f. Ground Buss: 16-position (minimum), standard copper grounding
      buss bar suitable for #14 through #4 cu.
   g. See Section 9-29.13(3)B4 for additional requirements
3. Blank aluminum spare panels shall be installed in the available space on the front left side of the cabinet.

The Back Right (BKRT) side panel(s) shall contain the following:
1. BKRT/PS - Power strip convenience outlets as identified by these specifications. Reference 9-29.13(3)C and 9-29.13(3)B5.
2. BKRT/SLP – Supplemental Load Panel
   a. Din-Mounted thirty-two (32) position disconnect screw type terminal block.
   b. Thirty-two (32) 2k-OHM, 12 watt resistors wired to back panel.
   c. See section 9-29.13(3)B8 for more information.
3. Additional blank panels are not required for vacant space in the back right side of the cabinet.

The Front Right (FRRT) side panel(s) shall contain the following:
1. FRRT/PP - Power Panel
   a. See Section 9-29.13(3)B5 for additional requirements
2. FRRT/CIP - Communication Interface Panel
   a. See Section 9-29.13(3)B6 for additional requirements
3. FRRT/Generator Panel
   a. See section 9-29.13(3)B7
4. Blank aluminum spare panels shall be installed in the available space on the front right side of the cabinet.

9-29.13(3)B1 Power Supply Interface Panel
The power supply interface panel shall be mounted on the upper back left wall of the cabinet above the top shelf. The power supply interface panel shall include terminations for all the cabinet power supply inputs and outputs. It shall have a protective plastic cover.

9-29.13(3)B2 SDLC Interface Panel
All SDLC cables shall be terminated on both ends, securely terminated to the SDLC interface panel with screw type connection and professionally routed in the cabinet interior to easily reach the controller, malfunction management unit, BIUs. All SDLC connectors shall be fully populated with 15 pins each. SDLC cables shall be tie wrapped in a neat and orderly way.

9-29.13(3)B3 Video Detection Interface Panel
The video detection interface panel shall be the single point interface for video power and coax cabling. The panel shall have (6) individual 1 amp circuit breakers so that individual cameras can be replaced in the field without disrupting the entire video detection system, a (10) position terminal block with #8/32 screws to provide termination for 120VAC and camera 120AC line and 8-position copper neutral and ground buss bars with raised slotted & torque style screws. The AC terminal block shall be covered with a Plexiglas cover.

A coax surge arrestor shall be installed for each coax based video detection camera identified in the project plans and specifications. The coax surge arrestor shall meet or exceed the manufacturer’s recommendations for the cameras installed. Surge arrestors are not required to be installed in the cabinet when a coax based detection system is not identified in the plans and specifications.
9-29.13(3)B4 Detection Panel
The detection panel shall be mounted on the left side of the main cabinet compartment below the bottom shelf. The detection panel shall support (32) channels of vehicle detection, (4) channels of emergency vehicle preemption, (4) channels or pedestrian detection with (2) terminal screws per channel and (8) pedestrian returns on a single panel. The pedestrian call terminal block shall be (2) single row terminals. They shall be connected by removable buss bars. The loop wires shall be a 22AWG twisted pair. One of the twisted pair wires of all colors shall have a white tracer and land on the second position terminal of each loop. The emergency preempt wires shall be color coded as follows. +24VDC orange, preempt inputs yellow and ground blue. The auxiliary vehicle preemption shall be white with a yellow tracer. All wiring for the detection panel shall enter the terminal block from the left and provide sufficient room to close the cabinet door.

The panel shall also include a (24) position solid copper neutral buss bar with with raised slotted & torque style screws and a (16) position minimum solid copper ground buss bar with raised slotted & torque style screws. They shall be mounted vertically at the bottom of the panel.

9-29.13(3)B5 Power Panel
The power panel shall handle all the power distribution and protection for the cabinet and shall be mounted in the bottom right side of the cabinet. All equipment shall be mounted on an appropriately sized silkscreened aluminum panel and include at a minimum the following equipment:

1. A 30-amp main breaker shall be supplied. This breaker shall supply power to the load bay, load switches, controller, MMU, power supply, detector racks, power strip and auxiliary panels. Breaker shall be din rail mounted.
2. A 15-amp auxiliary breaker shall supply power to the fan, cabinet lights and GFI. Breaker shall be din rail mounted.
3. The surge protection device (SPD) shall consist of a modular surge protector for the AC line, another modular surge protector for the AC neutral and ground. There shall also be a radio interference suppressor (RIS). All units shall meet the following requirements.
   a. Devices shall be Open Type 1 UL Listed 1449 4th Edition.
   b. The surge components are all Din-Rail mountable.
   c. If a failure is to occur the components are hot swappable
   d. An indicator flag will show that the component has failed. No more guessing or testing.
   e. The Surge component has a contact closure that can notify you if a failure occurs on the unit.
   f. No bolts or wires to remove to replace the unit.
   g. The unit is Safe Touch. No need for a plastic protective cover.
4. A normally open, solid state relay rated for 50-amp minimum for the load switch power. (No Mercury Contactors shall be allowed.)
5. One see-through Plexiglas cover to protect maintenance personnel from AC line voltages.
6. One (1) 19-position standard solid copper neutral buss bars with raised slotted & torque style screw heads suitable for #14 through #4 cu.
7. Two (2) 19-position, standard solid copper ground buss bars with raised slotted & torque style screw heads suitable for #14 through #4 cu.
8. Line side AC Power Terminal, 3-position, double row. Power Terminal shall be a dead-front type rated at a minimum of 300V, 50 amp and suitable for #6 cu.
9. The neutral buss bar, the ground buss bars, and the line side power terminal shall be installed at the bottom of the power panel. The buss bars shall be installed horizontally and the terminal shall be installed with the same orientation such that the wires coming into the cabinet can be easily connected from the bottom of the cabinet. The power terminal shall be installed to the right of the ground and neutral bus bars.

All circuit breakers shall be Square D, Siemens, GE, Eaton/Cutler Hammer, or Engineer approved equal.

9-29.13(3)B6 Communication Interface Panel
There shall be (2) 12-position, double row, high barrier terminal blocks, with #6/32 slotted brass screws on the left bottom side of the spare panel on the right side wall of the cabinet. The Communication Interface Panel height shall be from the top of the Power Panel to the top of the “C” Channel.

9-29.13(3)B7 Generator Panel
There shall be a Line side AC Power Terminal, 3-position, double row. Power Terminal shall be a dead-front type rated at a minimum of 300V, 50 amp and suitable for #6 cu. The AC power terminal shall be covered with a see-through Plexiglas cover to protect maintenance personnel from AC line voltages. The Generator Panel shall be mounted directly below the Power Panel.

9-29.13(3)B8 Supplemental Load Panel
There shall be a supplemental load panel with din mounted disconnect screw type terminal block and resistors. The disconnect terminal shall be wired to the green and yellow outputs for each phase and allow current through the resistor when the circuit is completed.

9-29.13(3)B9 Fiber Optic Termination Box
The cabinet shall come with a wall mounted fiber optic termination box as defined by section 9-29.3(1)D of these provisions.

9-29.13(3)C Convenience Outlets
The cabinet shall be wired with (1) 120 VAC convenience outlet with a ground fault interrupter (GFI) and (1) 120 VAC power strip without ground fault interrupters. The ground fault outlet (GFI) shall be mounted on the right side of the main compartment on or near the power panel. The power strip shall be near the top shelf of the main compartment in the upper left corner of the cabinet and the wiring shall be neatly secured. No outlets shall be mounted on the door. The non-GFI power strip shall be on a separate circuit from the GFI outlet, and provide a minimum of six (6) outlets. The power strip shall be fed through the transient voltage suppressor located on the cabinet power panel.
9-29.13(3)D Cabinet Illumination
Two LED light strips shall be provided for cabinet illumination. One shall be mounted to
the top front of the cabinet interior, and shall be rated at a minimum of 475 lumens. A
second LED light to illuminate the load bay area and shall be mounted below the rollout
drawer (computer shelf), and shall be rated at a minimum of 240 lumens. The light shall
be attached so that it remains stationary when the drawer is extended. A door switch
shall be wired so as to allow both lights to operate only when the door is open.

9-29.13(3)E Generator Bypass Compartment and Cable
Inside the generator compartment there shall be a silkscreened panel housing:
1. 30A / 125V flanged inlet receptacle capable of accepting a standard 30 amp
generator plug. The receptacle shall be appropriate for an extra heavy duty
industrial application meeting the following requirements:
a. Backwired terminations for ease of installation
b. NEMA L5-30P
c. Listed to UL 498
d. Fed Spec: W-C-596
e. Certified to CSA C22.2 No. 42
f. Housing/Flange: Nylon
g. Terminal Retainer: Clear Polycarbonate
h. Blades: Brass
i. Terminal Screws: #10-32 Brass (Phillips / Slotted / Robertson)
j. Terminal Clamp: Cold Rolled Steel – nickel plated
k. Assembly Screws: Steel - nickel plated
l. Mounting Screw: Nickel plated brass
m. Electrical: Current Interrupting Certified for current interrupting at full
rated current
n. Dielectric Voltage: Withstands 2,000V minimum
o. Mechanical: Cord Grip Accommodation #16 AWG - #8 AWG solid or
stranded copper wire only.
p. Terminal Identification: In accordance with UL 498
q. Flammability: HB or better per UL94/CSA 22.2 No.0.17
r. Moisture Resistance: IP20 Suitability
s. Operating Temperatures: Maximum Continuous 75°C. Minimum -
40°C (w/o impact)
2. A 50A, 2 pole, 4 contact cam switch with split 120VAC line and neutral feeds.
The switch shall be a break before make type.
3. (2) LED lamps with sockets. One LED shall be illuminated when the cabinet
has service line power available and the other when the cabinet has
generator power available. All LED’s shall be field replaceable without putting
the intersection in flash and shall carry a 5 year manufacturer warranty.
All wiring to the generator bypass compartment shall be contained in a single cable
bundle. The cable shall connect to the backside of the electrical components and shall
only be accessible from the inside of the cabinet front door. All electrical components on
the inside of the front door that carry AC voltage shall be covered by a see-through plexi-
glass cover. The generator bypass cable shall terminate at the same power panel
location as service line voltage.
9-29.13(3)F Police Panel

Behind the police panel door there shall be switches for use by emergency personnel. The wiring for these switches shall be accessible when the auxiliary panel is open.

The following switches shall be included:

1. **Flash Switch:** There shall be a switch for the police that puts the cabinet into flashing operations. The switch shall have two positions, “Auto” (up) and “Flash” (down). The “Auto” position shall allow normal signal operation. The “Flash” position shall immediately cause all signal displays to flash as programmed for emergency flash and apply stop time to the controller. When the police flash switch is returned to “Auto”, the controller shall restart except when the MMU has commanded flash operation. The effect shall be to disable the police panel switch when the MMU has detected a malfunction and all controller and MMU indications shall be available to the technician regardless of the position of the police flash switch. The switch shall be a general-purpose bat style toggle switch with 0.688-inch long bat.

2. **Signals On/Off Switch:** There shall be a switch that renders the field signal displays electrically dead while maintaining controller operation for purpose of monitoring controller operations. The switch shall be a general-purpose bat style toggle switch with 0.688-inch long bat.

9-29.13(3)G Auxiliary Switch Panel

The cabinet shall include an auxiliary switch panel mounted to the interior side of the police panel compartment on the cabinet front door. The panel shall be secured to the police panel compartment by (2) Philips head screws and shall be hinged at the bottom to allow access to the soldered side of the switches. Both sides of the panel shall be silkscreened. All of the switches shall be protected by a hinged see-through Plexiglas cover.

The following switches shall be included:

1. **Controller ON/OFF Switch:** There shall be a switch that renders the controller and load-switching devices electrically dead while maintaining flashing operations for purpose of changing the controller or load-switching devices. The switch shall be a general-purpose bat style toggle switch with 0.688-inch long bat.

2. **Signals ON/OFF Switch:** There shall be a switch that renders the field signal displays electrically dead while maintaining controller operation for purpose of monitoring controller operations. The switch shall be a general-purpose bat style toggle switch with 0.688-inch long bat.

3. **Stop Time Switch:** There shall be a 3-position switch labeled “Normal” (up), “Off” (center), and “On” (down). With the switch in the “Normal” position, a stop timing command shall be applied to the controller by the police flash switch or the MMU (Malfunction Management Unit). When the switch is in its “Off” position, stop timing commands shall be removed from the controller. The “On” position shall cause the controller to stop time. The switch shall be a general-purpose bat style toggle switch with 0.688-inch long bat.

4. **Technician Flash Switch:** There shall be a switch that places the field signal displays in flashing operation while the controller continues to operate. This flash
shall have no effect on the operation of the controller or MMU. The switch shall be a general-purpose bat style toggle switch with 0.688-inch long bat.

5. **Light Switch**: There shall be a switch that turns cabinet lighting off with the main door open. The switch shall be a general-purpose bat style toggle switch with 0.688-inch long bat.

**9-29.13(4) Auxiliary Equipment**

**9-29.13(4)A Traffic Signal Controller**
Traffic Signal Controller shall be a Siemens Controller, EPAC M62 with an ATC Communications Module. The CPU operating system shall be Linux. The Contractor shall contact the City of Tacoma Traffic Signal Shop at 253-491-5287 to obtain the current firmware version to be utilized.

**9-29.13(4)B Malfunction Management Unit (MMU)**
The cabinet shall come with a Malfunction Management Unit (MMU). The cabinet shall come with a (MMU) that meets all the requirements of NEMA TS2-2003 while remaining downward compatible with NEMA TS1. It shall have (2) high contrast LCD displays and an internal diagnostic wizard. It shall come with a 10/100 Ethernet port. It shall come with software to run flashing yellow arrow operation. The MMU shall be an Eberle Design, Inc. (EDI) model MMU2-16LEip. Contractor shall provide a compatible TS2 program card onboard memory.

**9-29.13(4)C Dual Channel Load Switches**
The cabinet shall be provided with eight (8) dual channel load switches. All load switches shall be solid state circuit board type with a 2-piece aluminum case. Separate LED indications shall be provided for the input and output side of the loads for each channel. The load switches shall be Western Systems model SSS-216.

**9-29.13(4)D Dual Channel Flasher**
The Cabinet shall come with one (1) dual channel flasher. The flasher shall be solid state circuit board type with a two-piece aluminum case. LED indications shall be provided for both channels. The flasher shall be Western Systems model SSF-216.

**9-29.13(4)E High Density Flash Transfer Relay**
The High Density Flash Transfer Relay (HDFTR) shall have a hermetically sealed cover and shall be moisture proof. The HDFTR shall be filled with dry nitrogen to protect contacts from corrosion and to prevent condensation. The HDFTR shall have a shock/impact resistant metal can cover with solid and bend proof pins. The HDFTR contacts shall be rated at 120VAC @ 10 Amp. The coil of the HDFTR shall be rated at 120VAC. The HDFTR shall have an LED indicator to display contact transfer position.

**9-29.13(4)F Loop Detector Card Rack**
Two (2) fully wired 8-position card racks, shall be installed. Detector racks shall be capable of using both two channel and four channel detection devices. One of the card racks shall also have the additional capacity and be fully wired for an Opticom Model 760 Card. Racks shall be secured to the detector shelf as far to the right as possible within the cabinet in such a manner as to afford easy access for maintenance, without interfering with access to any of the ports. The racks shall accommodate 4.5 inch high, 6.875 inch long, 1.12 inch wide two channel, two output per channel detector modules.
Connectors shall be 44 contacts (22 each side) spaced on 0.156" centers. Each rack shall be provided with a bus interface unit (BIU). These shall meet all the requirements of NEMA TS-2 1988 standards. In addition, all BIUs shall provide separate front panel indicator LED’s for DC power status and SDLC Port 1 transmit and receive status.

The (BIU)’s shall be Eberle Design, Inc. model BIU-700H, Econolite model BIU-64, Reno A&E model BIU/2, or Engineer approved equal.

The loop cabling shall be connected via a 37 pin DB connector using spring clips. The Opticom cable shall be connected via a 24 pin connector using locking latches. The power cable shall be a 6 pin connector. All power wires shall be 18AWG. The addressing of detector racks shall be accomplished via dipswitches mounted to the PCB. There shall be the capability to turn off the TS2 status to the BIU for the uses of TS1 detector equipment via dipswitches mounted to the PCB. There shall be a 34 pin connector using locking latches that breaks the output from the detector to the input of the BIU, there shall also be +24VDC and logic ground on this connector. All racks shall have space at the bottom front for labeling. All racks shall be designed for horizontal stacking. Separate racks for detection and preemption are not allowed.

9-29.13(4)G Detector Power Supply
The cabinet shall come with a shelf mounted cabinet power supply meeting at minimum NEMA TS 2-2003 (R2008) standards. It shall be a heavy duty device that provides +12VDC at 5 Amps / +24VDC at 3 Amps / 12VAC at 0.25 Amp, and line frequency reference at 50 mA. The power supply shall provide a separate front panel indicator LED for each of the four outputs. Front panel banana jack test points for 12VDC, 24VDC, and logic ground shall also be provided. The power supply shall provide 5A of power and be able to cover the load of four (4) complete detector racks.

9-29.13(4)H Ethernet Switch
Ethernet switch shall be EtherWAN ED3575-622 Hardened Managed Switch with 2 VDSL2 Ethernet Extender ports. 6 10/100TX, + Gigabit SFP Combo + 2 Copper Pair VDSL2 Ports. (Etherwan P/N ED3575-622). A 30 watt, 24VDC output power supply unit shall be provided by the same manufacturer as the switch. A DSL-Octal Cable 2xRJ45, and a minimum 6’ Ethernet patch cable shall be provided with each. Two (2) SFP Optics 100Base-FX SM, 1310NM, 15KM, LC fiber optic units shall be provided with each switch.

9-29.13(4)J Preemption/Priority Equipment
The cabinet shall come with (1) 4-channel rack mounted Opticom™ phase selector. This device shall be capable of receiving encoded signals from Opticom series 700 emitters and detectors. The Opticom™ phase selectors shall be Global Traffic Technologies model 764 or equivalent.

9-29.13(4)K BUS Interface Unit (BIU)
The cabinet shall come with four (4) BIU’s. They shall meet all requirements of NEMA TS2-1998 standards. In addition, all BIU’s shall provide separate front panel indicator LED’s for DC power status and SDLC Port 1 transmit and receive status. Each BIU’s shall utilize only 1 rack position.
The (BIU)'s shall be Eberle Design, Inc. model BIU-700H, Econolite model BIU-64, Reno A&E model BIU/2, or Engineer approved equal.

9-29.13(5) Manufacturer Testing and Certification
The complete cabinet assembly with electronics shall undergo complete input/output function testing by the manufacturer before being released to the City of Tacoma. Testing shall be done via service feed to the 120VAC field terminal. Service power shall be routed through the generator bypass switch, UPS inverter before being connected to the power panel so that all service load circuits are tested.

If the cabinet specified comes with a UPS system (BBS) and batteries; the entire controller cabinet assembly shall undergo a BBS field test procedure where the cabinet is run off battery power for a minimum of one hour.

9-29.16 Vehicular Signal Heads, Displays, and Housing

9-29.16(2)B Signal Housing
The second paragraph is supplemented with the following:

The door shall open a minimum of 160 degrees.

The third paragraph is supplemented with the following:

The sections shall be held firmly together by corrosion-resistant hardware in such a manner that additional sections may be added easily.

The fourth paragraph is supplemented with the following:

The terminal strip for a standard three-section head shall be a minimum five-position, ten-terminal, barrier-type strip with No. 8 screw-type fasteners. To one side of each terminal shall be attached the white, red, yellow and green signal section leads, leaving the opposite terminal for field wires. Multi-section heads shall be provided with a terminal strip located in the yellow (center) section. Lead shall be No. 18 AWG type with 1/32-inch wall, 105-1/4 centigrade thermoplastic insulation.

9-29.16(3) Polycarbonate Traffic Signal Heads
This section is deleted.

9-29.17 Signal Head Mounting Brackets and Fittings
This section is revised to read:

Vehicle and pedestrian signal heads shall be as detailed in the standard plans.

Span wire vehicle signal hanger hardware shall consist of span wire clamp, balance adjuster, wire entrance fitting and vehicle head locking device.

A. Construction
   1. Bronze hangers are required.
   2. The minimum size of pins shall be 5/8-inch diameter. Pins shall be stainless steel.
3. The minimum size of the ‘J’ or ‘U’ cable clamps is 1/2-inch diameter. Cable clamp bolts shall be stainless steel. Clamping insert shall be used.

4. The cable saddle shall be at least 9 inches long.

5. All cotter pins shall be brass and washers shall be stainless steel.

6. All hardware shall be of stainless steel, bronze or brass materials.

7. Signal stem shall be locked with a square headed set screw 1/4-inch minimum in diameter.

8. Wire entrance shall be a minimum of 1-1/4-inch diameter and shall have a female threaded base for nipple.

9. The balance adjuster directional lock shall be of the clamping type with 1/2-inch through bolt for locking. No set screw or lock nut acceptable.

10. All stems shall be secured to signal head with proper lock fitting.

Vehicle signal heads attached to a mast arm shall use a type M mounting bracket as detailed in the standard plans and in accordance with Section 8-20.3(14)B and Section 9-29.17.

9-29.18 Vehicle Detector

This section is supplemented with the following:

Unless otherwise specified in the contract plans, the vehicle detection system provided shall be a Gridsmart detection system with the performance plus module.

9-29.18(3) Gridsmart Detection System

The Gridsmart system provided shall provide all necessary components required in order to fully install, setup, test, operate and maintain a fully functional detection system, including, but not limited to, the following components:

1. Gridsmart Power over Ethernet Bell Camera(s)
2. GS2 Gridsmart Processor with the Performance Plus Module
3. Mounting Hardware
4. Connection Cables

Unless otherwise identified in the project plans, one Bell Camera is required for each intersection. Additional cameras may be required, and will be identified in the project plans when two or more major arterials intersect, or where sight lines require additional cameras. Changes to the intersection layout, or camera locations may require additional cameras for proper functionality. Field adjustments to the camera location shall not be permitted without approval from the Engineer.

All mounting hardware and cabling shall meet the manufacturer’s recommendations, unless otherwise specified herein.

9-29.19 Pedestrian Push Buttons

This section is supplemented with the following:

Pushbutton systems shall be fully compliant with Accessible Pedestrian System requirements as defined by the American with Disabilities Act. Pushbutton systems shall be two wire systems (four wire systems shall not be permitted).
Unless otherwise specified, the pedestrian push button central control unit shall be Polara shelf mount control unit capable of communication through a SDLC cable (Polara Model iCCU-S2).

Push buttons stations shall be Polara - iNS2 series with the following options:
1. 9x12 Front Plate Adapter
2. 9x12 Faceplate compliant with MUTCD R10-3b
3. No braille on Face Plate
4. Custom Messages
5. Black Button Cover

Extenders may be required for locations where the APS buttons are not within ADA compliant reach. Extenders or adapters may be required to accommodate the size of the faceplates for locations where two pushbuttons are mounted to the same pole.

9-29.20 Pedestrian Signals
This section is supplemented with the following:

All pedestrian signals housings shall be die-cast aluminum.

The Vacant Section 9-29.22 is replaced with the following:

9-29.22 Preemption Hardware
Preemption Hardware shall be Opticom TM Model 721 unless otherwise specified.

9-29.24 Service Cabinets
This section is supplemented with the following:

Service cabinets shall be pole mounted, exterior NEMA 3R Rated with a bolt on HUB for top entry. Cabinet shall be a maximum 10 inches wide, 14 inches high, and 5 inches deep.

Load Center shall have between 100 and 150 Amps, with capacity for 6 spaces and 12 circuits, or 8 spaces and 16 circuits as required by Code.

Service panels shall be Square D – QO Series

9-29.24(2) Electrical Circuit Breakers and Contactors
The first paragraph is supplemented with the following:

Mercury relays shall not be accepted. Contactors shall be one of the following brands:
1. Square D
2. Siemens
3. Eaton/Cutler Hammer
4. Engineer Approved Equal

The second paragraph is deleted.

The third sentence of the third paragraph is deleted.
The third paragraph is supplemented with the following:

All service panel breakers shall be one of the following brands/series
1. Square D – QO Series
2. Siemens – Type BL
3. Eaton/Cutler Hammer – Quick Lag Type BA
4. Engineer approved Equal

All surface mount breakers shall be one of the following Brands/Series:
1. Square D (Type QOU)
2. Siemens
3. Eaton/Cutler Hammer
4. General Electric
5. Engineer approved Equal

9-29.25 Amplifier, Transformer, and Terminal Cabinets
This section is supplemented with the following:

Terminal compartments may be incorporated into the signal standard as an alternative to providing a separate terminal cabinet attached to the pole. Terminal compartment should offer similar physical and electrical capacity as specified. Contractor shall provide submittals in accordance with the contract documents and obtain approval from the engineer for the alternate design prior to proceeding. Signal standards and terminal compartments shall meet all other structural, mechanical, electrical, and finish requirements as specified, and be suitable for the intended purpose.

END OF SECTION
Standard Luminaire Design Criteria
100WEQ Luminaire – Residential

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Design Assumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road Width:</td>
<td>32 feet</td>
</tr>
<tr>
<td>Luminaire Height:</td>
<td>30 feet</td>
</tr>
<tr>
<td>Mast Arm Length:</td>
<td>8 feet</td>
</tr>
<tr>
<td>Setback from FC:</td>
<td>3 feet</td>
</tr>
<tr>
<td>Luminaire Spacing:</td>
<td>165 feet</td>
</tr>
<tr>
<td>Luminaire LLF (Total):</td>
<td>0.9</td>
</tr>
<tr>
<td>Luminaire Pattern:</td>
<td>One Row Near Side</td>
</tr>
<tr>
<td>Road Model:</td>
<td>IES RP8 – 2 Lanes in Direction of Travel</td>
</tr>
<tr>
<td>Road Type:</td>
<td>Local</td>
</tr>
<tr>
<td>Ped Conflict</td>
<td>Low/Residential</td>
</tr>
<tr>
<td>Road Surface</td>
<td>R3</td>
</tr>
</tbody>
</table>

Design Attribute | Criteria
--- | ---
Minimum Average Illuminance | 0.35 fc
Maximum Illuminance Uniformity (Ave/Min) | 6:1
Minimum Average Luminance | 0.3 cd/m²
Maximum Luminance Uniformity (Ave/Min) | 6:1
Maximum Luminance Uniformity (Max/Min) | 10:1
Maximum Veiling Luminance Ratio (Lvmax/Lavg) | 0.4:1
IES Distribution | Type II or Best Fit
Color Temperature | 3000K
Maximum Fixture BUG Rating | B1-U0-G1

Design Criteria Based on Roadway Lighting Design Guide, AASHTO Publication GL-6, 2018
Standard Luminaire Design Criteria
200WEQ Luminaire – Arterial

<table>
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<td>8 feet</td>
</tr>
<tr>
<td>Setback from FC:</td>
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</tr>
<tr>
<td>Luminaire Spacing:</td>
<td>150 feet</td>
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<tr>
<td>Luminaire LLF (Total):</td>
<td>0.9</td>
</tr>
<tr>
<td>Luminaire Pattern:</td>
<td>One Row Near Side</td>
</tr>
<tr>
<td>Road Model:</td>
<td>IES RP8 – 2 Lanes in Direction of Travel</td>
</tr>
<tr>
<td>Road Type:</td>
<td>Collector</td>
</tr>
<tr>
<td>Ped Conflict</td>
<td>Medium/Intermediate</td>
</tr>
<tr>
<td>Road Surface</td>
<td>R3</td>
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<th>Criteria</th>
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<tr>
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<td>4:1</td>
</tr>
<tr>
<td>Minimum Average Luminance</td>
<td>0.6 cd/m²</td>
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<tr>
<td>Maximum Luminance Uniformity (Ave/Min)</td>
<td>3.5:1</td>
</tr>
<tr>
<td>Maximum Luminance Uniformity (Max/Min)</td>
<td>6:1</td>
</tr>
<tr>
<td>Maximum Veiling Luminance Ratio (Lvmax/Lavg)</td>
<td>0.4:1</td>
</tr>
<tr>
<td>IES Distribution</td>
<td>Type II or Best Fit</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>3700K to 4300K</td>
</tr>
<tr>
<td>Maximum Fixture BUG Rating</td>
<td>B2-U0-G2</td>
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Design Criteria Based on Roadway Lighting Design Guide, AASHTO Publication GL-6, 2018
Standard Luminaire Design Criteria
250WEQ Luminaire – Arterial

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<td>Road Width:</td>
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<tr>
<td>Luminaire Height:</td>
<td>40 feet</td>
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<tr>
<td>Mast Arm Length:</td>
<td>8 feet</td>
</tr>
<tr>
<td>Setback from FC:</td>
<td>3 feet</td>
</tr>
<tr>
<td>Luminaire Spacing:</td>
<td>150 feet</td>
</tr>
<tr>
<td>Luminaire LLF (Total):</td>
<td>0.9</td>
</tr>
<tr>
<td>Luminaire Pattern:</td>
<td>One Row Near Side</td>
</tr>
<tr>
<td>Road Model:</td>
<td>IES RP8 – 2 Lanes in Direction of Travel</td>
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<tr>
<td>Road Type:</td>
<td>Collector</td>
</tr>
<tr>
<td>Ped Conflict</td>
<td>Medium/Intermediate</td>
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<tr>
<td>Road Surface</td>
<td>R3</td>
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<table>
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<td>Maximum Illuminance Uniformity (Ave/Min)</td>
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<tr>
<td>Minimum Average Luminance</td>
<td>0.6 cd/m²</td>
</tr>
<tr>
<td>Maximum Luminance Uniformity (Ave/Min)</td>
<td>3.5:1</td>
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<td>Maximum Luminance Uniformity (Max/Min)</td>
<td>6:1</td>
</tr>
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<td>Maximum Veiling Luminance Ratio (Lmax/Lavg)</td>
<td>0.4:1</td>
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<td>IES Distribution</td>
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<td>Color Temperature</td>
<td>3700K to 4300K</td>
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<tr>
<td>Maximum Fixture BUG Rating</td>
<td>B2-U0-G2</td>
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Design Criteria Based on Roadway Lighting Design Guide, AASHTO Publication GL-6, 2018
# Standard Luminaire Design Criteria

## 400WEQ Luminaire – Arterial

<table>
<thead>
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<th>Attribute</th>
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<tbody>
<tr>
<td>Road Width:</td>
<td>56 feet</td>
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<tr>
<td>Luminaire Height:</td>
<td>40 feet</td>
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<tr>
<td>Mast Arm Length:</td>
<td>8 feet</td>
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<tr>
<td>Setback from FC:</td>
<td>3 feet</td>
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<td>Luminaire Spacing:</td>
<td>300 feet/side - 150 feet staggered</td>
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<td>Luminaire LLF (Total):</td>
<td>0.9</td>
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<tr>
<td>Luminaire Pattern:</td>
<td>Two Rows - Staggered</td>
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<tr>
<td>Road Model:</td>
<td>IES RP8 – 4 Lanes in Direction of Travel</td>
</tr>
<tr>
<td>Road Type:</td>
<td>Major Arterial/Other Principal Arterials</td>
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<tr>
<td>Ped Conflict</td>
<td>Medium/Intermediate</td>
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<td>Road Surface</td>
<td>R3</td>
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<table>
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<td>Minimum Average Illuminance</td>
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<td>Minimum Average Luminance</td>
<td>0.9 cd/m²</td>
</tr>
<tr>
<td>Maximum Luminance Uniformity (Ave/Min)</td>
<td>3:1</td>
</tr>
<tr>
<td>Maximum Luminance Uniformity (Max/Min)</td>
<td>5:1</td>
</tr>
<tr>
<td>Maximum Veiling Luminance Ratio (L vmax/Lavg)</td>
<td>0.3:1</td>
</tr>
<tr>
<td>IES Distribution</td>
<td>Type III or Best Fit</td>
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<tr>
<td>Color Temperature</td>
<td>3700K to 4300K</td>
</tr>
<tr>
<td>Maximum Fixture BUG Rating</td>
<td>B3-U0-G3</td>
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</tbody>
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Design Criteria Based on Roadway Lighting Design Guide, AASHTO Publication GL-6, 2018
Standard Luminaire Design Criteria

Res-45 Luminaire - Residential
Residential Intersection at 45° Angle

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Design Assumption</th>
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</thead>
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<tr>
<td>Road/Luminaire Layout:</td>
<td>See Below</td>
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<tr>
<td>Luminaire Height:</td>
<td>30 feet</td>
</tr>
<tr>
<td>Mast Arm Length:</td>
<td>8 feet at 45° Angle</td>
</tr>
<tr>
<td>Setback from FC:</td>
<td>3 feet, 15 feet</td>
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<tr>
<td>Luminaire LLF (Total):</td>
<td>0.9</td>
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<td>Road Type:</td>
<td>Local</td>
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<tr>
<td>Ped Conflict</td>
<td>Low/Residential</td>
</tr>
<tr>
<td>Road Surface</td>
<td>R3</td>
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</table>

<table>
<thead>
<tr>
<th>Design Attribute</th>
<th>Criteria</th>
</tr>
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<tbody>
<tr>
<td>Minimum Average Illuminance</td>
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<tr>
<td>Maximum Illuminance Uniformity (Ave/Min)</td>
<td>6:1</td>
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<tr>
<td>IES Distribution</td>
<td>Type IV, V, or Best Fit</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>3000K</td>
</tr>
<tr>
<td>Maximum Fixture BUG Rating</td>
<td>B3-U0-G1</td>
</tr>
</tbody>
</table>

Fixture should be best fit for illuminating the focus area while allowing minimal light trespass onto private property as described below:

Light trespass onto private property above 0.2 fc is acceptable only in shaded areas.

Light trespass onto private property beyond shaded area shall not exceed 0.2 fc.
APPENDIX A

CITY OF TACOMA

AND

WSDOT STANDARD PLANS
NOTES:

1. The contractor will provide necessary control points required during preliminary spotting for striping, stop lines, legends, crosswalks, traffic arrows, and signs. Crosswalk bars typically align with lane lines and mid-lane, placed to avoid wheel path. Crosswalk bars shall be parallel to the lanes’ direction of travel.

2. Partial length crosswalk bars are not allowed. A single bar, as opposed to the double bar pattern may be used when space is limited adjacent to gutter, curb or intersecting crosswalk.

3. Typical stop line width is 12".

4. Stop line placement may require adjustment to account for signal detection equipment.
NOTES:

1. The Contractor will provide necessary control points for striping, stop lines, legends, crosswalks, traffic arrows, and signs. City inspection required before striping or associated sign installation begins.

2. Use of RPMs as shown correspond with paint striping. If striping consists of thermoplastic (or similar) then Type 1Y/W-RPMs are omitted.

3. RPMs shall not be placed over longitudinal or transverse joints of the pavement surface.

---

DOUBLE YELLOW CENTER LINE (4" X 2)

YELLOW TWO WAY LEFT TURN LINE (4" X 2)

WHITE GORE LINE (8")

WHITE LANE LINE (4")

WHITE GORE SKIP LINE (8")
NOTE:
1. The Contractor will provide necessary control points for striping, stop lines, legends, crosswalks, traffic arrows, and signs. City inspection required before striping or associated sign installation begins.

DOTTED EXTENSION LINE (4" - 8")

VARIES

8' REPEATING INTERVAL

EXAMPLE APPLICATIONS OF DOTTED EXTENSION LINE

BIKE LANE SKIP LINE (6")

BIKE LANE LINE (6")

EDGE LINE (4") (WHEN ADJACENT TO PARKING)

(WHEN BUS STOP IS PRESENT, STRIPING TO BE EXTENDED TO 80' FROM BUS STOP SIGN)

DIRECTION OF TRAVEL

PUBLIC WORKS

ENVIRONMENTAL SERVICES

TACOMA POWER

TACOMA WATER

APPROVED FOR PUBLICATION

CITY OF TACOMA

LONGITUDINAL PAVEMENT MARKINGS

STANDARD PLAN NO. CH-03B

REVIEWED BY

APPROVED FOR PUBLICATION

CITY OF TACOMA

LONGITUDINAL PAVEMENT MARKINGS

STANDARD PLAN NO. CH-03B
NOTES:
1. Contractor will provide necessary control points to assist in preliminary spotting for striping, stop line, legends, crosswalks, traffic arrows, and associated signs.
2. If storage length is 100 feet or greater, then a second arrow, (without "only"), to be placed at 22 feet from stop line to near edge of the arrow.
3. Use of RPMs as shown correspond with paint striping. If striping consists of thermoplastic (or similar) then type 1Y/W-RPMs are omitted.
NOTES:
1. Contractor will provide necessary control points to assist in preliminary spotting for stripe, stop line, legends, crosswalks, traffic arrows, and associated signs.
2. Typical letter width is 11\(\frac{1}{2}\)".
3. Typical letter spacing is 8".
4. Letter stroke is 3\(\frac{1}{2}\)".
5. Refer to WSDOT M24.40-02 for more specific traffic arrow dimensions.
6. Arrows shown may be mirrored about their centerline as applicable to design.
EXPLoded VIEW

BREAKAWAY BASE CONNECTOR
(SEE NOTE 1)

NOTES
1. See Standard Specification 9-06.16 for Breakaway Base Connection details. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The Breakaway Base Connection details are only shown on this plan to illustrate how parts are assembled.
4. Where shown in the plans, install plaque (R10-32P) “PUSH BUTTON FOR 2 SECONDS FOR EXTRA CROSSING TIME” above the Accessible Pedestrian Signal (APS) assembly. Add 14” (in) to post height to accommodate plaque and leave a 2” (in) space between signs.
5. Mounting distances vary between manufacturers. See manufacturer’s recommendations for mounting information.
6. Junction Box serving the Standard shall preferably be located 5’ - 0” (10’ - 0” Max.) from the Standard.

FOUNDATION DETAIL

ACCESSIBLE BREAKAWAY PEDESTRIAN PUSHBUTTON (PPB) POST

STANDARD PLAN J-20.15-03

APPROVED FOR PUBLICATION

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
NOTES


2. Steel shaft shall be tapered either round or dodecagon (12-sided), 11 gage, 4 1/2" (in) O.D. at slipfitter weld. Taper shall be 0.14" (in) per foot.

3. Welding of structures shall be in accordance with the latest edition of the AWS D1.1 Structural Welding Code - Steel. All butt welds shall be ground flush with base metal.


6. Hand holes shall include a removable, rain-tight cover and gasket, fastened with two stainless steel screws (ASTM 593).

7. Supplemental grounding conductor shall be non-insulated #4 AWG stranded copper and shall be clamped to vertical rebar with a connector suitable for use embedded in concrete. Provide 3 - 0" min. slack. Attach to pole grounding stud with a full circle crimp-on connector (crimped with a manufacturer recommended crimper).

8. The junction box serving the standard shall preferably be located 5" - 0" (10" - 0" max.) from the standard.

9. Where shown in the plans, install plaque (R10 - 32P) "PUSH BUTTON FOR 2 SECONDS FOR EXTRA CROSSING TIME" two inches above the Accessible Pedestrian Signal (APS) Assembly.

Washington State Department of Transportation
1. Each wire shall be physically separated by at least 1/4" (in) so that sealing material can fill in between the wires; where heat shrink tubing is used for the outer splice enclosure, it shall meet one of the following requirements:
   a. Have separate ports for each conductor ("WYE" or "X" shaped tubing) — or —
   b. Have rubber electrical mastic tape wrapped around each conductor to ensure a weatherproof seal. See Rubber Electrical Mastic Tape Installation Detail, Standard Plan J-60.05.

2. Heat shrink tubing shall extend a minimum of one inch onto the original wire insulation of each wire in the splice. Rigid splice enclosures shall be centered over the cramped connection.

3. Electrical tape used in splicing applications shall be 3/4" (in) wide, be UL listed under UL 510, and be CSA Certified under C22.2 NO. 197-M1983.

4. Crimp splices shall be installed with an approved crimping tool for the type and size of crimp splice used. Pliers and similar multi-purpose tools may not be used.
NOTES

1. Each wire shall be physically separated by at least 1/4" (in) so that sealing material can fill in between the wires; where heat shrink tubing is used for the outer splice enclosure, it shall meet one of the following requirements:
   a. Have separate ports for each conductor ("WYE" or "X" shaped tubing) ~ or ~
   b. Have rubber electrical mastic tape wrapped around each conductor to ensure a weather-proof seal. See Rubber Electrical Mastic Tape Installation Detail, Standard Plan J-50.05.

2. Heat shrink tubing shall extend a minimum of one inch onto the original wire insulation of each wire in the splice. Rigid splice enclosures shall be centered over the crimped connection.

3. Electrical tape used in splicing applications shall be 3/4" (in) wide, be UL listed under UL 510, and be CSA Certified under C22.2 No. 197-M1983.

4. Crimp splices shall be installed with an approved crimping tool for the type and size of crimp splice used. Pliers and similar multi-purpose tools may not be used.

CONNECTOR AND INTERNAL SEALING DETAILS

STEEL LIGHT STANDARD WIRING DETAILS

STANDARD PLAN J-28.70-03

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DRAWN BY: FERN LIDDELL
STUDYING DETAIL ALTERNATIVE SURFACE OR BOLT DOWN SUPPORT

- 3/8" (IN) DIAM. HOLE WITH COUNT STUDS EVENLY FINISHED
- 1/4" (IN) GROUND

JUNCTION BOX DIMENSION TABLE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>BOX TYPE</th>
<th>TYPE 1</th>
<th>TYPE 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A OUTSIDE LENGTH OF JUNCTION BOX</td>
<td>22&quot;</td>
<td>33&quot;</td>
<td></td>
</tr>
<tr>
<td>B OUTSIDE WIDTH OF JUNCTION BOX</td>
<td>17&quot;</td>
<td>22 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>C INSIDE LENGTH OF JUNCTION BOX</td>
<td>18&quot; - 19&quot;</td>
<td>28&quot; - 29&quot;</td>
<td></td>
</tr>
<tr>
<td>D INSIDE WIDTH OF JUNCTION BOX</td>
<td>13&quot; - 14&quot;</td>
<td>17&quot; - 18&quot;</td>
<td></td>
</tr>
<tr>
<td>E LID LENGTH</td>
<td>17 5/8&quot;</td>
<td>28 5/8&quot;</td>
<td></td>
</tr>
<tr>
<td>F LID WIDTH</td>
<td>12 5/8&quot;</td>
<td>18 1/8&quot;</td>
<td></td>
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</tbody>
</table>

CAPACITY - CONDUIT DIAMETER: 6" - 12"

NOTES

1. All box dimensions are approximate. Exact configurations vary among manufacturers.
2. Minimum lid thickness shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate, and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" in thickness formed with a mild steel weld bead and shall be placed prior to hot-dip galvanizing.
3. Lid support members shall be 3/16" (in) minimum thick steel C, L, or T shape, welded to the frame. A 1/4-20 NC x 3/4" (in) stainless steel ground stud shall be welded to the bottom of the lid, include (2) stainless steel nuts and (2) stainless steel flat washers.
4. Bolts and nuts shall be liberally coated with anti-seize compound.
5. Equipment Bonding Jumper shall be #8 AWG min. x 4" (TYP.) of tinned braided copper.
6. When required in the Contract, provide a 10" (in) x 27 1/2" (in), 10 gage divider plate, complete, with fasteners, in each Type 2 Junction Box where specified.
8. When required in the Contract, provide a 1/2" (in) deep extension for each Type 2 Junction Box where specified.
9. See the Standard Specifications for alternative reinforcement and class of concrete.
10. Headed Anchor Shear Studs must be welded to the Steel Cover Lip Plate and wire tied in two places to the vertical Welded Wire Fabric when in contact with each other. Wire tie all other Headed Anchor Shear Studs to the horizontal Welded Wire Fabric.
11. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangement; actual configurations of assembly will vary among manufacturers. See approved manufacturers' shop drawings for specifics.
12. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults, and Pull Boxes shall not be placed within the sidewalks, walkways, shared-use paths, traveled ways or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved shoulders shall be Heavy-Duty.
13. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (in) min. to 8" (in) max. for final grade of new construction only. See Standard Specification 8-20.3(6). Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (in) min. to 10" (in) max. See Standard Specification 8-20.3(6).

LOCKING LID STANDARD DUTY JUNCTION BOX TYPES 1 & 2

LOCKING LID STANDARD DUTY JUNCTION BOX

CONDUITS NOT SHOWN

SECTION A

SECTION B

GROUND STUD (SEE NOTE 4)

COUPLING NUT FOR ALTERNATIVE 2 - SEE DETAIL "E" ALTERNATIVE 2

LID SUPPORT (TY) - L SHAPE SHOWN (SEE NOTE 3)

3/8" (IN) X 3" (IN) HEADED ANCHOR SHEAR STUD (TYP.)

WELDED WIRE FABRIC (TYP.) (WWF) AND / OR WWF2.9 (6 GAGE) (SEE NOTE 10)

WELDED WIRE HOOP (TYP.) (V0.9 6 GAGE) (SEE NOTE 10)

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

JESSIE LORD ENGINEER

WASHINGTON STATE, DEPARTMENT OF TRANSPORTATION

APPROVED FOR PUBLICATION
1. All box dimensions are approximate. Exact configurations vary among manufacturers.

2. Minimum lid thicknesses are shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" (in) line thickness formed with a mild steel weld bead and shall be placed prior to hot-dip galvanizing.

3. Lid support members shall be 3/16" (in) min. thick steel C, L, or T shape, welded to the frame. Exact configurations vary among manufacturers.

4. A 1/4-20 NC x 3/4" (in) S. S. ground stud shall be welded to the bottom of each lid; include (2) S. S. nuts and (2) S. S. flat washers.

5. The hinges shall allow the lids to open 180°.

6. Bolts and nuts shall be liberally coated with anti-seize compound.

7. Connect Equipment Bonding Jumper to ground stud on lid. As an alternative to the ground stud connection, the Equipment Bonding Jumper shall be attached to the front face of the hinge pocket with a 5/16-20 NC x 3/4" (in) S. S. bolt, (2) each S. S. nuts, and (2) each S. S. flat washers. Equipment Bonding Jumper shall be #8 AWG min. x 4 ft. of tinned bared copper.


9. See the Standard Specifications for alternative reinforcement and class of concrete.


11. Capacity - conduit diameter = 24" (in)

12. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangement; actual configurations of assembly will vary among manufacturers. See approved manufacturers shop drawing for specifications.

13. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults and Pull Boxes shall not be placed within the sidewalk, walkway, shared use path, traveled way or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved shoulders shall be Heavy-Duty.

14. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 8" (in) min. to 8" (in) max. for final grade of new construction only. See Standard Specification 8-20.3(6). Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (in) min. to 10" (in) max. See Standard Specification 8-20.3(6).
1. See Contract for head type, mounting height, and orientation.
2. All nipples, fittings, and center pipes shall be 1 1/2" (in) diameter.
3. Install neoprene gasket inside head when flanged elbows are supplied.
4. Extend wire sheath a minimum of 1" (in) inside all signal and sign housings and terminal compartments.
5. Apply bead of silicone to the serrated ring and around the perimeter of all top openings prior to installation of fittings.
6. See Standard Specification 9-29.16 for backplate requirements. Where required, prismatic sheeting shall be applied in accordance with the manufacturer's recommendations. The application surface of the backplate shall be cleaned, degreased with isopropyl alcohol, and dried prior to application of the sheeting.
7. Drill a 1/4" (in) drain hole in the bottom of each signal display assembly, and one in the bottom of each pedestrian head. When signal display assembly is mounted horizontally, drill a 1/4" (in) drain hole at the lowest point of each section of the signal assembly.

SIGNAL HEAD MOUNTING DETAILS - POLE AND POST TOP MOUNTINGS

TOP MOUNT TYPE C - PEDESTRIAN TYPE F - VEHICLE

SIDE MOUNT TYPE B - PEDESTRIAN TYPE K - VEHICLE

TOP MOUNT TYPE E - COUNTDOWN LED PEDESTRIAN HEAD

ELEVATION TYPE E MOUNTING DETAILS

PEDESTRIAN HEAD SIDE MOUNT (LEFT SIDE SHOWN) TYPE B - PEDESTRIAN TYPE K - VEHICLE

SIGNAL HEAD MOUNTING DETAILS - POLE AND POST

STANDARD PLAN J-75.10-02

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

Washington State Department of Transportation
NOTES:

1. Concrete base shall be poured in place. Hand mixed concrete is prohibited. Concrete base need not be formed.

2. Notice to surveyors: any monument set in the City of Tacoma must bear the land surveyor number of the surveyor setting the monument. Monuments set as part of an approved plat are exempt.

3. The surveyor is to supply the City of Tacoma with a copy of the calculations used to determine all monument positions before the monuments are set.

4. Brass marker for City of Tacoma funded projects will be supplied by the City, all other brass markers to be supplied by the contractor.

5. Monument must be magnetically locatable.

6. Prior to removing or destroying a monument, the surveyor or engineer shall apply for a permit from the Department of Natural Resources in accordance with WAC 332-120.
NOTES:

A. 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 curb shall be 6", unless otherwise shown on plans.

B. Flush with gutter pan at curb ramp entrance or 3/8" vertical lip at driveway entrance.

NOTES:

1. For trench crossings, curb and gutter shall be removed to a minimum 2' cut back over undisturbed soil.
2. 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.
3. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed.
4. Concrete finish shall match existing.
5. 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. Foundations shall be fully compacted prior to form placement.
7. Unsuitable foundation shall be replaced with 3/8" crushed surfacing top course.
NOTES:
1. Sidewalks shall be designed and constructed in accordance with 2010 ADA Standards, 28 CFR, Part 35 and as supplemented by the Public Right of Way Accessibility Guidelines (PROWAG). City of Tacoma prefers sidewalk cross slopes to be designed to a maximum of 1.5% and a minimum of 1.0%.
2. When placing walk adjacent to existing curb and gutter, curb and gutter will be repaired as necessary before placing concrete forms for walk.
3. Staking is required where no curb is present.
4. Thickened edge shall be constructed using cement concrete on all radii. All other locations shall be backfilled and compacted.
5. Combination walk shall be 7" min. on all commercial sites and arterial streets. Combination walk shall be a minimum of 5" on non arterial streets. Dimensions are from back of curb to back of walk. See contract plans for width and placement of sidewalk.
6. All expansion joints shall be full depth with 3/8" premolded joint filler.
7. All joints shall be cleaned and edged. External edges shall be 1/2" radius. Internal joints shall be 3/8" radius.
8. All soft and yielding foundation material shall be removed and replaced with crushed surfacing top course (CSTC) per Section 9-03.93(3) of the WSDOT Standard Specifications.
9. All sidewalk shall be replaced to the nearest expansion or contraction joint. All joints shall be saw cut full depth prior to restoration and 3/8" expansion joint installed. Cutting wheel run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-05.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.
10. For sidewalks within the North Slope Historical District area use Standard Plan HD-NS03. See Standard Plan HD-NS01 for North Slope Historic District site map.

TOP SURFACE SHALL BE BROOMED IN THE SAME DIRECTION AS THE EXPANSION JOINT

4" SHINER AROUND 15" PANEL 3/8" EXPANSION JOINT

CITY OF TACOMA
CEMENT CONCRETE SIDEWALK
STANDARD PLAN NO. SU-04
GENERAL NOTES:
1. Provide a separate directional curb ramp for each marked or unmarked crosswalk. Directional curb ramps are preferred over 45 degree ramps. Curb ramp location shall be placed within the width of the associated crosswalk, or as shown on the Contract Plans. The curb ramp centerline shall be parallel to the direction of the crossing. Forty-five (45) degree curb ramps shall be installed only after approval by the City's ADA Coordinator or the Street Operations Division Manager.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush and perpendicular to the direction of travel. There shall be no vertical discontinuity between the base of curb ramp and gutter line.
3. 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.
5. A thickened edge shall be constructed to full depth of adjacent curb along entire curb radius.
6. 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.
7. 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.
8. Curb ramp, turning space and flares shall receive a broom finish, see WSDOT Standard Specifications 8-14.
9. 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.
10. 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 Engineer's note on the stamped drawings. Rationale supporting the design variance shall be provided by the Engineer and shall include a description of the scope of work, the site-specific factors affecting compliance, and the measures implemented to improve compliance.
11. 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.
12. Consult the City's Curb Ramp Installation Matrix and the Right Of Way Restoration Policy for additional requirements.
13. Conduit for APS equipment shall be installed during curb ramp construction at all signalized intersections and at intersections where signalization is anticipated within the next 6 years. Coordinate with Public Works - Engineering, Traffic Section.
14. A Pedestrian Accessibility Control Plan shall be developed in conjunction with each project-specific Temporary Traffic Control Plan for all work in the ROW.
15. Pedestrian traffic shall NOT be directed behind the stop bar.
16. Curb ramp alignment should be consistent with crosswalk alignment
17. Curb ramp shall be 5' minimum in width.
18. Catch basins shall be located upstream of curb ramps outside of flare/wing for new construction or when performing storm sewer upgrades.
19. For constructability purposes, the City recommends designing to less than the maximum allowable slopes.
NOTES:
See Standard Plan SU-05 for referenced notes

LEGEND
SLOPE IN EITHER DIRECTION

SECTION DETAIL A-A

CITY OF TACOMA

PERPENDICULAR CURB RAMP TYPE 'A'

STANDARD PLAN NO. SU-05A
CURB RAMP/TURNING SPACE WIDTH 5'-0" MIN.
- SEE CONTRACT PLANS

GRADE BREAKS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL

3/8" EXPANSION JOINT (TYP.)
CURB AND GUTTER

FOR SIDEWALK WIDTHS, SEE STANDARD PLAN SU-04 AND CONTRACT PLANS, OR MATCH EXISTING (TYP.)
TAPER CURB (TYP.)

DETECTABLE WARNING SURFACE,
SEE STANDARD PLANS SU-5G
TURNING SPACE FLUSH WITH GUTTER

PLAN VIEW

CROSSWALK

SECTION DETAIL A-A

CEMENT CONCRETE PEDESTRIAN CURB, SEE NOTE 4

5'-0" MIN.
SEE CONTRACT PLANS OR MATCH NEAREST JOINT

2.0% MAX.
TURNING SPACE

4" (TYP.)
CURB & GUTTER, SEE NOTE 4
18" THICKENED EDGE, SEE NOTE 5

3/8" EXPANSION JOINT (TYP.)

SECTION DETAIL B-B

DETECTABLE WARNING SURFACE,
SEE STANDARD PLAN SU-05G
GRADE BREAK
COUNTER SLOPE 5.0% MAX.
GRADE BREAK
TOP OF ROADWAY

15'-0" MAX., SEE NOTE 7
GRADE BREAK
8.3% MAX.
RAMP
TURNING SPACE

15'-0" MAX., SEE NOTE 7
GRADE BREAK
8.3% MAX.
RAMP
SIDEWALK

NOTES:
See Standard Plan SU-05 for referenced notes

LEGEND
SLOPE IN EITHER DIRECTION

ISOMETRIC VIEW

CITY OF TACOMA
PARALLEL CURB RAMP
TYPE 'A'
STANDARD PLAN NO. SU-05D

REVIEWED BY
GMS
PUBLIC WORKS
ENVIRONMENTAL SERVICES
TACOMA POWER
TACOMA WATER

APPROVED FOR PUBLICATION

CITY ENGINEER
DATE

8/16/16
**NOTES**

1. The Detectable Warning Surface shall extend the full width of the curb ramp (exclusive of flares).
2. The rows of truncated domes in a Detectable Warning Surface shall be parallel with the direction of wheelchair travel.
4. If a curb is not present, place the Detectable Warning Surface at the edge of the pavement.
5. Detectable Warning Surfaces shall be either cast-in-place from Armor Tile, ADA Solutions, or an approved equal or surface applied from Vanguard or an approved equal. No detectable warning fasteners such as glue, bolts, or screws are allowed. Surface applied detectable warning surfaces may be used only when the curb ramp has associated features to deter vehicles from driving over the ramp area. Examples of such features include pedestrian curbing, utility/signal/streetlight poles, and fire hydrants.
6. Detectable warning surface shall be yellow and shall match SAE AMS Standard 595, Color 33538.

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**TRUNCATED DOME SPACING**

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**SECTION DETAIL A-A**

**TRUNCATED DOME DETAILS**

**CURB RAMP, TURNING SPACE**

**PASS-THROUGH OR WALKWAY**

**MATCH TO WIDTH OF CURB RAMP, TURNING SPACE, PASS-THROUGH OR WALKWAY**

**PLACE AT BACK OF CURB LINE, UNLESS OTHERWISE NOTED**

**DETECTABLE WARNING SURFACE DETAIL**

**DIRECTION OF TRAVEL**

**2'-0" MIN. ALL APPLICATIONS**

**RAMP OR TURNING SPACE FLUSH WITH GUTTER**

**SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. THIS CONCRETE BORDER SHALL NOT EXCEED 2 INCHES.**

---

**REVIEWED BY**

PUBLIC WORKS

ENVIRONMENTAL SERVICES

TACOMA POWER

TACOMA WATER

**APPROVED FOR PUBLICATION**

**CITY OF TACOMA**

**DETECTABLE WARNING SURFACE DETAILS**

**STANDARD PLAN NO.** SU-05G
USE LOCATION A IF DISTANCE FROM BACK OF CURB TO GRADE BREAK IS LESS THAN OR EQUAL TO 5 FT.

USE LOCATION B IF DISTANCE FROM BACK OF CURB TO GRADE BREAK IS GREATER THAN 5 FT.

WIDTH OF PASS-THROUGH (TYP.)
2'-0" MIN.

MEDIAN PASS-THROUGH
WIDTH OF PASS-THROUGH (TYP.)
6'-0" MIN.

PEDESTRIAN RAILROAD CROSSING
WIDTH OF PASS-THROUGH (TYP.)
2'-0" MIN.

ISLAND PASS-THROUGH
BACK OF CURB

NOTES
1. The Detectable Warning Surface shall extend the full width of the curb ramp (exclusive of flares).
2. The edge of the Detectable Warning Surface shall be placed along the back of the curb line unless otherwise noted.
3. The Detectable Warning Surface shall be within 2" (max.) of the edge of the ramp.
4. The rows of truncated domes in the Detectable Warning Surface shall be parallel with the direction of travel.
6. If a curb is not present, place the Detectable Warning Surface at the edge of the pavement.
7. See Standard Plan SU-05G for Detectable Warning Surface Details.

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PUBLIC WORKS
TACOMA POWER

ENVIRONMENTAL SERVICES
TACOMA WATER

APPROVED FOR PUBLICATION
CITY ENGINEER
04/19/2021

CITY OF TACOMA
DETECTABLE WARNING SURFACE PLACEMENT GUIDELINES
STANDARD PLAN NO. SU-05H
FOR INFORMATIONAL PURPOSES ONLY
DO NOT INCLUDE IN CONTRACT SPECIFICATIONS

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

PROWAG GUIDELINES
TYPICAL PARALLEL CURB RAMP
DESIGN STANDARDS

STANDARD PLAN NO. SU-05J

R303.2.2 PARALLEL CURB RAMPS

R303.2.2.1 RUNNING SLOPE
THE RUNNING SLOPE SHALL BE 3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15.0 FEET.

R303.2.2.2 CROSS SLOPE
THE CROSS SLOPE SHALL BE 2% MAXIMUM.

R303.3 WIDTH
THE CLEAR WIDTH OF LANDINGS, BLENDED TRANSITIONS, AND CURB RAMPS, EXCLUDING FLARES, SHALL BE 4.0 FEET MINIMUM.

R303.3.1 SURFACES
SURFACES OF CURB RAMPS, BLENDED TRANSITIONS, AND LANDINGS SHALL COMPLY WITH R301. GRATING, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON CURB RAMPS, LANDINGS, BLENDED TRANSITIONS AND GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.

R303.3.2 DETECTABLE WARNING
DETECTABLE WARNING SURFACES COMPLYING WITH R304 SHALL BE PROVIDED, WHERE A CURB RAMP, LANDING, OR BLENDED TRANSITION CONNECTS TO A STREET.

R303.3.4.1 SIZE
DETECTABLE WARNING SURFACES SHALL EXTEND 24 IN. MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES), THE LANDING OR THE BLENDED TRANSITION.

R303.3.5 ALIGNMENT
THE ROWS OF TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP, LANDING, OR BLENDED TRANSITION AND THE STREET.

R303.3.6 GRADE BREAKS
GRADE BREAKS AT THE TOP AND BOTTOM OF PERPENDICULAR CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN. AT LEAST ONE END OF THE BOTTOM GRADE BREAK SHALL BE AT THE BACK OF CURB. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF CURB RAMPS, BLENDED TRANSITIONS, LANDINGS, AND GUTTER AREAS WITHIN THE PEDESTRIAN ACCESS ROUTE. SURFACE SLOPES THAT MEET THE GRADE BREAKS SHALL BE FLUSH.

CROSSWALK

R303.3.8.1 CROSS SLOPE
THE CROSS SLOPE AT INTERSECTIONS SHALL BE 2% MAXIMUM. THE CROSS SLOPE AT MID-BLOCK CROSSINGS SHALL BE PERMITTED TO BE WARPED TO MEET STREET GRADE.

TRANSITION PANEL FROM RAMP TO EXISTING SIDEWALK (WHERE REQUIRED TO MATCH EXISTING SIDEWALK CROSS SLOPE). MAXIMUM GRADES ARE NOT SPECIFIED BY PROWAG. ADJUST LENGTH AS NEEDED TO PROVIDE SMOOTH TRANSITION. IF PROPOSED MATCH LINE LOCATION DOES NOT FALL ON AN EXISTING JOINT IN THE SECTION OF SIDEWALK TO REMAIN, THE EXISTING VALA SHALL BE REMOVED BACK TO THE NEXT JOINT (MINIMUM 2 FEET).

TAPER CURB

EXISTING SIDEWALK
1. All pavement restoration work shall also meet the requirements of the City of Tacoma's Right of Way Restoration Policy. See Standard Plan SU-15B for any streets exempt from this policy.

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

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

4. Where existing pavement defects are in close proximity to the new cut, the inspector may require additional pavement removal to eliminate the pavement defect.

5. The final cut edge of paved surfaces shall be smooth and straight, consistent with grinding or saw cutting devices. No jagged, broken or undermined edges are allowed. Cutting wheels run-out beyond the limits of the opening shall be filled in accordance with WSDOT Standard Specification 5-06.3(8)B for cement concrete surfaces and 5-04.3(5)C for asphalt concrete surfaces.

6. Final compaction of HMA shall be 91% of maximum density.
   - Isolated patches: Minimum 1 test per patch up to 150 square feet, and 1 test required every additional 300 square feet, thereafter.
   - Trench patches: 1 test every 150 linear feet of trench with a minimum of 2 tests per trench.

   Testing shall be performed by a certified independent testing laboratory or certified tester, as approved by the City's Construction Division. Tests shall be completed and reports identifying the project number submitted to the City Construction Division within 48 hours of test.

7. All joints between the new and original asphalt pavement shall be sealed with hot asphalt or asphalt emulsion and covered with dry paving sand before the asphalt solidifies. Existing surfaces shall be prepared in accordance with WSDOT Standard Specification 5-04.3(5)A prior to placing any new pavement surfaces.

8. Longitudinal construction joints shall only be located at the center or edge of affected lanes. Streets and courts 20 feet or less in width and all alleys are considered one-lane streets. Non-arterial streets and courts greater than 20 feet in width with no traffic channelization are considered two-lane streets with one-lane either side of the centerline of the street.

   Non-arterial streets greater than 32 feet in width with no traffic channelization may be considered three lane streets upon prior approval from the City Engineer.

9. Transverse construction joints terminate at the edge of the 2' cut back.

10. HMA pavement shall not be placed over CDF until approved by the City.

---

**TABLE 1**

**PAVEMENT REPLACEMENT DEPTH IN CUT BACK ZONE**

<table>
<thead>
<tr>
<th>MIN.</th>
<th>MAX.</th>
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<tr>
<td>ARTERIALS, INDUSTRIAL AREAS &amp; ROADS WITH BUS TRAFFIC</td>
<td>MATCH EXISTING +1&quot;, OR 4&quot;, WHICHEVER IS GREATER</td>
</tr>
<tr>
<td>RESIDENTIALS AND ALLEYS</td>
<td>MATCH EXISTING +1&quot;, OR 3&quot;, WHICHEVER IS GREATER</td>
</tr>
</tbody>
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**CUT BACK ZONE**

**CONSTRUCTION JOINT, SEE NOTES 8 & 9**

**EXISTING ASPHALT OR OIL MAT PAVEMENT**

**CRUSHED SURFACING TOP COURSE (CSTC), MATCH EXISTING THICKNESS, 8" MIN**

**HMA PAVEMENT CL. 1/2" PG 64-22, SEE TABLE 1**

**2' MIN. CUT BACK OVER UNDISTURBED SOIL**

---

**CITY OF TACOMA**

**DEPARTMENT OF PUBLIC WORKS**

**APPROVED FOR PUBLICATION**

**TYPICAL PAVEMENT RESTORATION FOR ASPHALT CONCRETE/OIL MAT PAVEMENT**

**STANDARD PLAN NO.** SU-15A
NOTES:
1. Provide uniform support under barrel and provide pockets in bedding for pipe bells.
2. Hand tamp under haunches.
3. Trench width shall be as specified in Section 2-09.4 of the WSDOT Standard Specifications.
4. Pipe zone backfill and backfill above pipe zone shall meet the material requirements of WSDOT Standard Specification Section 9-03.12(2) for gravel backfill for walls.
5. All trenches shall be compacted in accordance with SU-28.
6. Pipe zone bedding shall meet the material requirements of WSDOT Standard Specification Section 9-03.9(3) for crushed surfacing top course.
PROGRESSION OF WORK

PRIOR TO EXCAVATING OR RESURFACING:
Contractor shall:
Remove frame and risers to a depth 8-inches below subgrade.
Install steel protective plate in accordance with Detail A.
Reference the location of the utility structure.

CONSTRUCTION OF SURFACING:
Gravel surfacing:
Install base materials and gravel over protective steel plate.
Asphalt surfacing:
Install base materials and asphalt over protective steel plate.
Concrete surfacing:
Adjust frame and grate to final grade prior to placing concrete surfacing.

UPON COMPLETION OF SURFACING:
The asphalt concrete pavement or gravel surfacing shall be removed in a neat circle in accordance with Detail B.
The location of the asphalt or gravel removal shall be based upon the reference location established by the Contractor.
Crushed surfacing and base materials shall be removed and disposed of to allow the removal of the steel protective plate.
The structure shall be adjusted to finish grade utilizing the same methods of construction as specified for new construction in Section 7-05.
For hot mix asphalt, the area shall then be backfilled with Class 3000 cement concrete to an elevation of 3 to 4 inches below the finished pavement surface. 24-hours after placing the concrete, HMA pavement Cl. 3/8" PG 64-22 shall be placed in accordance with Standard Plan No. SU-15.
For non-paved surfaces, the area shall be backfilled with Class 3000 cement concrete to an elevation of 3 to 4 inches below the top of the casting and then backfilled with crushed surfacing top course and compacted.

NOTE:
All general provisions, construction and warranty requirements of the Right of Way Restoration Policy will be followed.
NOTES:
1. Surface mounting of sign posts, especially within traffic islands or medians, is only allowable with special authorization from the city's traffic engineering group. (Exception: Surface mounting of flexible post object markers within islands or medians is permitted).
2. If finished ground line is a hard surface, then compacted native backfill material shall be concrete with the top of foundation being smooth, dense, and uniform to finished ground line.
NOTES:
Class 3000 cement concrete shall be placed, 1 1/2" min, below the finished pavement surface.

24-hours after placing the cement collar, HMA Class 3/4 PG 64-22 shall be placed in accordance with Standard Plan SU-15.

If the valve chamber being adjusted belongs to Tacoma Water, the Contractor shall contact Tacoma Water, Operations, at 253-502-6742 for final inspection.
NOTES:

1. Junction boxes shall be concrete and in conformance with WSDOT's Type 1 and 2 Locking Lid Standard Duty Junction Box. Box and lid will be load rated for traffic and shall have a nonskid surface. The lid shall be marked "TS", "LT", or other designation as called for on the proposal.

2. All junction boxes containing interconnect cable will be Type 2 or larger.

3. Boxes shall be set on a base of 6 inch crushed surfacing top course for drainage.

4. Metal lids will be grounded. Ground conductor shall be a minimum 24 inches long.

5. Care shall be taken to place junction boxes outside of areas heavily used by pedestrians, especially near crosswalks and corners.

6. Junction boxes shall not be placed in curb ramps or areas subject to vehicular traffic.

7. Adjacent junction boxes will be separated by a minimum of 3 inches.

8. Install pulling bells or bushings on conduit ends.

CONCRETE BORDER APPLICATION AND DIMENSION:

1. For junction boxes bordered by less than 12 inches wide of concrete or asphalt section, a concrete border is required.

2. Junction boxes located in asphalt will be secured on all sides with a minimum 12 inch wide by 6 inch deep concrete section.

3. Junction boxes located in concrete will be secured on all sides with a minimum 12 inch wide concrete section. The depth of the concrete shall meet the depth of the adjacent concrete. The concrete will be finished in the same manner as the adjacent concrete, where applicable.

4. Junction boxes located in a planter strip, landscaped area, or other non-hardened surface will be secured on all sides with a minimum 6 inch wide by 12 inch deep concrete section flush with the top of the junction box.
PEDESTRAIN SIGNAL WIRING

RED    N/S - DW
GREEN  N/S - WK
ORANGE E/W - DW
BLACK  E/W - WK
WHITE  NEUTRAL

PEDESTRAIN PUSH BUTTON WIRING

RED    N/S
GREEN  SPARE
ORANGE SPARE
*BLACK E/W
WHITE  COMM BETWEEN PUSH BUTTONS

*BLACK USED WHEN ONLY ONE PUSH BUTTON
IS USED FOR CROSSING EITHER STREET.
PART III

CITY OF TACOMA

EQUITY IN CONTRACTING PROGRAM
CHAPTER 1.07
EQUITY IN CONTRACTING

Sections:
1.07.010 Policy and purpose.
1.07.020 Definitions.
1.07.030 Discrimination prohibited.
1.07.040 Program administration.
1.07.050 Certification.
1.07.060 Program requirements.
1.07.070 Evaluation of submittals.
1.07.080 Contract compliance.
1.07.090 Program monitoring.
1.07.100 Enforcement.
1.07.110 Remedies.
1.07.120 Unlawful acts.
1.07.130 Severability.
1.07.140 Review of program.

1.07.010 Policy and purpose.

It is the policy of the City of Tacoma that citizens be afforded an opportunity for full participation in our free enterprise system and that historically underutilized business enterprises shall have an equitable opportunity to participate in the performance of City contracts. The City finds that in its contracting for supplies, services and public works, there has been historical underutilization of small and minority-owned businesses located in certain geographically and economically disfavored locations and that this underutilization has had a deleterious impact on the economic well-being of the City. The purpose of this chapter is to remedy the effects of such underutilization through use of narrowly tailored contracting requirements to increase opportunities for historically underutilized businesses to participate in City contracts. It is the goal of this chapter to facilitate a substantial procurement, education, and mentorship program designed to promote equitable participation by historically underutilized businesses in the provision of supplies, services, and public works to the City. It is not the purpose of this chapter to provide any person or entity with any right, privilege, or claim, not shared by the public, generally, and this chapter shall not be construed to do so. This chapter is adopted in accordance with Chapter 35.22 RCW and RCW 49.60.400.

(Ord. 28625 Ex. A; passed Nov. 5, 2019: Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.020 Definitions.

Terms used in this chapter shall have the following meanings unless defined elsewhere in the Tacoma Municipal Code (“TMC”), or unless the context in which they are used clearly indicates a different meaning.

A. “Bid” means an offer submitted by a Respondent to furnish Supplies, Services, and/or Public Works in conformity with the Specifications and any other written terms and conditions included in a City request for such offer.

B. “Bidder” means an entity or individual who submits a Bid, Proposal or Quote. See also “Respondent.”

C. “City” means all Departments, Divisions and agencies of the City of Tacoma.

D. “Contract” means any type of legally binding agreement regardless of form or title that governs the terms and conditions for procurement of Public Works and Improvements and/or Non-Public Works and Improvements Supplies and Services. Contracts include the terms and conditions found in Specifications, Bidder or Respondent Submittals, and purchase orders issued by the City. A “Contract” as used in this chapter shall include an agreement between the City and a non-profit entity to perform construction-related services for Public Works. A “Contract” does not include: (1) awards made by the City with federal/state grant or City general funds monies to a non-profit entity where the City offers assistance, guidance, or supervision on a project or program, and the recipient of the grant awards uses the grant moneys to provide services to the community; (2) sales transactions where the City sells its personal or real property; (3) a loan transaction where the City is acting as a debtor or a creditor; (4) lease, franchise; (5) agreements to use City real property (such as Licenses, Permits and Easements) and, (6) banking and other financial or investment services.

E. “Contractor” means any Person that presents a Submittal to the City, enters into a Contract with the City, and/or performs all or any part of a Contract awarded by the City, for the provision of Public Works, or Non-Public Works and Improvements, Supplies or Services.
F. “Goals” means the annual level of participation by MWBEs and SBEs in City Contracts as established in this chapter, the Program Regulations, or as necessary to comply with applicable federal and state nondiscrimination laws and regulations. Goals for individual Contracts may be adjusted as provided for in this chapter and shall not be construed as a minimum for any particular Contract or for any particular geographical area.

G. “MWBE Certified business” (or “MWBEs”) means a business that meets the criteria set forth in Section 1.07.050 of this chapter and has been certified as meeting that criteria by the Community and Economic Development Department Program Manager.

H. “SBE Certified Business” (or “SBEs”) means a business that meets the criteria set forth in Section 1.07.050 of this chapter and has been certified as meeting that criteria by the Community and Economic Development Department-SBE Program Manager.

I. “SBE Program Manager” means the individual appointed, from time to time, by the City’s Community and Economic Development Director to administer the Program Regulations.

J. “Program Regulations” shall mean the written regulations and procedures adopted pursuant to this chapter for procurement of Supplies, Services and Public Works.

K. “Non-Public Works and Improvements” means all competitively solicited procurement of Supplies and/or Services by the City not solicited as Public Works.

L. “Person” means individuals, companies, corporations, partnerships, associations, cooperatives, any other legally recognized business entity, legal representative, trustee, or receivers.

M. “Proposal” means a written offer to furnish Supplies or Services in response to a Request for Proposals. This term may be further defined in the Purchasing Policy Manual and/or in competitive solicitations issued by the City.

N. “Public Works (or “Public Works and Improvements)’’ means all work, construction, alteration, repair, or improvement other than ordinary maintenance, executed at the cost of the City, or that is by law a lien or charge on any property therein. This term includes all Supplies, materials, tools, and equipment to be furnished in accordance with the Contract for such work, construction, alteration, repair, or improvement.

O. “Quote” means a competitively solicited written offer to furnish Supplies or Services by a method of procurement that is less formalized than a Bid or a Proposal. This term may be further defined in the Purchasing Policy Manual.

P. “Respondent” means any entity or Person, other than a City employee, that provides a Submittal in response to a request for Bids, Request for Proposals, Request for Qualifications, request for quotes or other request for information, as such terms are defined in Section 1.06.251 TMC. This term includes any such entity or Person whether designated as a supplier, seller, vendor, proposer, Bidder, Contractor, consultant, merchant, or service provider that: (1) assumes a contractual responsibility to the City for provision of Supplies, Services, and/or Public Works; (2) is recognized by its industry as a provider of such Supplies, Services, and/or Public Works; (3) has facilities similar to those commonly used by Persons engaged in the same or similar business; and/or (4) distributes, delivers, sells, or services a product or performs a Commercially Useful Function.

Q. “Services” means non-Public Works and Improvements services and includes professional services, personal services, and purchased services, as such terms are defined in Section 1.06.251 TMC and/or the City’s Purchasing Policy Manual.

R. “Submittal” means Bids, Proposals, Quotes, qualifications or other information submitted in response to requests for Bids, Requests for Proposals, Requests for Qualifications, requests for Quotations, or other City requests for information, as such terms are defined in Section 1.06.251 TMC.

S. “Supplies” means materials, Supplies, and other products that are procured by the City through a competitive process for either Public Works procurement or Non-Public Works and Improvements procurement unless an approved waiver has been granted by the appropriate authority.

T. “Tacoma Public Utilities Service Area” means any ZIP code in which Tacoma Public Utilities maintains infrastructure or provides retail services.


1.07.030 Discrimination prohibited.

A. No person that is engaged in the construction of public works for the City, engaged in the furnishing of laborers or craftspeople for public works of the City, or is engaged for compensation in the provision of non-public works and improvements supplies and/or services to the City, shall discriminate against any other person on the basis of race, religion, color, national origin or ancestry, sex, gender identity, sexual orientation, age, marital status, familial status, or the presence of
any sensory, mental or physical disability in employment. Such discrimination includes the unfair treatment or denial of normal privileges to a person as manifested in employment upgrades, demotions, transfers, layoffs, termination, rates of pay, recruitment of employees, or advertisement for employment.

B. The violation of the terms of RCW 49.60 or Chapter 1.29 TMC by any person that is engaged in the construction of public works for the City, is engaged in the furnishing of laborers or craftspeople for public works of the City, or is engaged for compensation in the provision of non-public works and improvements supplies and/or services shall result in the rebuttable presumption that the terms of this chapter have also been violated. Such violation may result in termination of any City contract the violator may have with the City and/or the violator’s ineligibility for further City Contracts.

(Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.040 Program administration.

A. The Community and Economic Development Director, or their designated Program Manager, shall be responsible for administering this chapter and obtaining compliance with respect to contracts entered into by the City and/or its contractors. It shall be the duty of the Director to pursue the objectives of this chapter by conference, conciliation, persuasion, investigation, or enforcement action, as may be necessary under the circumstances. The Director is authorized to implement an administrative and compliance program to meet these responsibilities and objectives.

B. The Director is hereby authorized to adopt and to amend administrative rules and regulations known as the Program Regulations, to properly implement and administer the provisions of this chapter. The Program Regulations shall be in conformance with City of Tacoma policies and state and federal laws and be designed to encourage achievement of the MWBE and SBE goals set forth herein. The Program Regulations shall become effective following public notice and an opportunity to comment by the public.

C. The Program Regulations adopted pursuant to this section are for the administrative and procedural guidance of the officers and employees of the City and are further expressions of the public policy of the City. The Program Regulations, when adopted, shall not confer an independent cause of action or claim for relief cognizable in the courts of the state of Washington or the United States of America to any third parties, and such provisions shall not be used as the basis for a lawsuit in any court of competent jurisdiction challenging the award of any contract by the City.


1.07.050 Certification.

A. The Program Manager shall approve a business as a Certified Business if all of the following criteria are satisfied:

1. The business is certified as a SBE, MBE, WBE, or MWBE through the state of Washington’s Office of Minority & Women Business Enterprises; and

2. The company can demonstrate that it also meets at least one of the following additional requirements:

a. The personal residence of the owner is located within the City of Tacoma or Tacoma Public Utilities Service Area, or

b. The company’s business offices are located in any county of the Tacoma Public Utilities Service Area or any county adjacent to Pierce County, or

C. When the work is performed outside of Pierce County, the company’s business offices may be located in an adjacent county in which the work is performed, or

d. Such additional information as the Program Manager or designee may require.

When another governmental entity has an equivalent business classification process, the City may enter into an interlocal cooperative agreement for mutual recognition of certifications.

B. Appeals. The applicant may appeal any certification determination by the Program Manager under this chapter to the Director. The appeal must be made in writing and must set forth the specific reasons for the appeal. The Director shall make a decision on the appeal request within a reasonable time, which decision shall be final unless further appeal is made to the Hearing Examiner. In that event, the Hearing Examiner Rules of Procedure for Hearings, Chapter 1.23 TMC, shall be applicable to that appeal proceeding.

1.07.060 Program requirements.

A. The program shall meet the following requirements:

1. Establishment of Annual Goals. The Program Regulations adopted pursuant to this chapter shall state reasonably achievable cumulative annual goals for utilization of MWBEs and SBEs in the provision of supplies, services, and public works procured by the City. Cumulative annual goals for the participation of MWBEs and SBEs in City contracts shall be based on the number of qualified MWBEs and SBEs operating within the Tacoma Public Utilities Service Area. The dollar value of all contracts awarded by the City to MWBEs and SBEs in the procurement of supplies, services, and public works shall be counted toward the accomplishment of the applicable goal.

2. Application of Annual Goals to Contracts. The Program Manager shall consult with City departments/divisions to establish department/division specific goals for competitively solicited contracts in accordance with this chapter and the Program Regulations.

B. Waivers. City departments/divisions or the Program Manager may request to waive one or more of the requirements of this chapter as they apply to a particular contract or contracts. Waivers may be granted in any one or more of the following circumstances:

1. Emergency: The supplies, services and/or public works must be provided with such immediacy that neither the City nor the contractor can comply with the requirements herein. Such emergency and waiver must be documented by the department/division awarding the contract.

2. Not Practicable: Compliance with the requirements of this chapter would impose an unwarranted economic burden or risk to the City after consideration of existing budgetary approvals.

3. Sole source: The supplies, services, and/or public works are available from only one source, and subcontracting possibilities do not reasonably exist as determined by the finance purchasing manager.

4. Government purchasing. The City is a party to or included in a federal, state or inter-local government purchasing agreement as approved by the finance purchasing manager.

5. Lack of certified contractors: An insufficient number of qualified contractors exist to create utilization opportunities.

6. Best interests of the City: Waiver of goals is in the best interests of the City due to unforeseen circumstances, provided that said circumstances are set forth in writing by the requestor.

C. Review of Waivers. A waiver determination by the finance purchasing manager may be reviewed by the Board of Contracts and Awards (C&A Board). The C&A Board may also review a request to reduce or waive the utilization requirements based on Not Practicable or Best Interests of the City circumstances. The C&A Board shall determine whether compliance with such requirements would impose unwarranted economic burden on, or risk to, the City of Tacoma as compared with the degree to which the purposes and policies of this chapter would be furthered by requiring compliance. If the determination of the C&A Board does not resolve the matter, a final determination shall be made by the City Council or Public Utility Board, as the case may be.


1.07.070 Evaluation of submittals.

A. All submittals for a supplies, services, or public works and improvements contracts shall be evaluated for attainment of the MWBE and SBE requirements established for that contract in accordance with this chapter and the Program Regulations.

B. The determination of MWBE and SBE usage and the calculation of MWBE or SBE requirements per this section shall include the following considerations:

1. General. The dollar value of the contract awarded by the City to a MWBE or SBE in the procurement of supplies, services, or public works shall be counted toward achievement of the respective goal.

2. Supplies. A public works and improvements contractor may receive credit toward attainment of the MWBE and/or SBE requirement(s) for expenditures for supplies obtained from an MWBE or SBE; provided such MWBE or SBE assumes the actual and contractual responsibility for delivering the supplies with its resources. The contractor may also receive credit toward attainment of the MWBE or SBE goal for the amount of the commission paid to a MWBE or SBE resulting from a supplies contract with the City; provided the MWBE or SBE performs a commercially useful function in the process.

3. Services and Public Works subcontracts. Any bid by a certified MWBE and/or SBE or a bidder that utilizes a certified MWBE and/or SBE shall receive credit toward requirement attainment based on the percentage of MWBE and/or SBE usage demonstrated in the bid. A contractor that utilizes an MWBE and/or SBE subcontractor to provide services or public works
shall receive a credit toward the contractor’s attainment of the respective requirement based on the value of the subcontract with that firm.

4. Brokers, Fronts, or Similar Pass-Through Arrangements. MWBEs and/or SBEs acting as brokers, fronts, or similar pass-through arrangements (as such terms are defined in the Program Regulations) shall not count toward the requirement attainment unless the activity reflects normal industry practices and the broker performs a commercially useful function.

C. Evaluation of competitively solicited submittals for public works and improvements and for services when a requirement has been established for the contract to be awarded shall be as follows:

1. When contract award is based on price. The lowest priced bid submitted by a responsive and responsible bidder will be reviewed to determine if it meets the requirement. An MWBE and/or SBE firm may self-count utilization on such bids if they will perform the work for the scope the requirement is based upon.
   a. If the low bidder meets the requirements, the bid shall be presumed the lowest and best responsible bid for contract award.
   b. any bidder that does not meet the MWBE and/or SBE requirements shall be considered a non-responsible bidder unless the bidder receives a waiver from the Program Manager or C&A Board.

2. When contract award is based on qualifications or other performance criteria in addition to price. Solicitations shall use a scoring system that promotes participation by certified contractors. The Program Regulations may establish further requirements and procedures for final selection and contract award, including:
   a. Evaluation of solicitations for Architectural and Engineering (A&E) services;
   b. Evaluation and selection of submittals in response to requests for proposals; and
   c. Selection of contractors from pre-qualified roster(s).

(Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.080 Contract compliance.

A. The contractor awarded a contract based on MWBE or SBE participation shall, during the term of the contract, comply with the requirements established in said contract. To ensure compliance with this requirement following contract award, the following provisions apply:

1. Any substitutions for or failure to utilize MWBEs or SBEs projected to be used must be approved in advance by the Program Manager. Substitution of one MWBE or SBE with another shall be allowed where there has been a refusal to execute necessary agreements by the original MWBE or SBE, a default on agreements previously made or other reasonable excuse; provided that the substitution does not increase the dollar amount of the bid.

2. Where it is shown that no other MWBE or SBE is available as a substitute and that failure to secure participation by the MWBE or SBE identified in the solicitation is not the fault of the respondent, substitution with a non-MWBE or non-SBE shall be allowed; provided, that, the substitution does not increase the dollar amount of the bid.

3. If the Program Manager determines that the contractor has not reasonably and actively pursued the use of replacement MWBEs or SBEs, such contractor shall be deemed to be in non-compliance.

B. Record Keeping. All contracts shall require contractors to maintain relevant records and information necessary to document compliance with this chapter and the contractor's utilization of MWBEs or SBEs, and shall include the right of the City to inspect such records.

(Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.090 Program monitoring.

A. An Advisory Committee shall monitor compliance with all provisions of this chapter and the related Regulations. The Program Manager shall establish procedures to collect data and monitor the effect of the provisions of this chapter to assure, insofar as is practical, that the remedies set forth herein do not disproportionately favor one or more racial, gender, ethnic, or other protected groups, and that the remedies do not remain in effect beyond the point that they are required to eliminate the effects of under utilization in City contracting, unless such provisions are supported by a Disparity Study. The Program Manager shall have the authority to obtain from City departments/divisions, respondents, and contractors such relevant records, documents, and other information as is reasonably necessary to determine compliance.

B. The Program Manager shall submit an annual report to the Community and Economic Development Director, Director of Utilities, and the City Manager detailing performance of the program. The report shall document MWBE and SBE utilization
levels, waivers, proposed modifications to the program, and such other matters as may be specified in the Program Regulations.


1.07.100 Enforcement.

The Director, or designee, may investigate the employment practices of contractors to determine whether or not the requirements of this chapter have been violated. Such investigation shall be conducted in accordance with the procedures established in the Program Regulations.


1.07.110 Remedies.

A. Upon receipt of a determination of contractor violation by the Program Manager, the City Manager or Director of Utilities, as appropriate, may take the following actions, singly or together, as appropriate:
1. Forfeit the contractor’s bid bond and/or performance bond;
2. Publish notice of the contractor’s noncompliance;
3. Cancel, terminate, or suspend the contractor’s contract, or portion thereof;
4. Withhold funds due contractor until compliance is achieved; and/or
5. Recommend appropriate action including, but not limited to, disqualification of eligibility for future contract awards by the City (debarment) per Section 1.06.279 TMC;

B. Prior to exercise of any of the foregoing remedies, the City shall provide written notice to the contractor specifying the violation and the City’s intent to exercise such remedy or remedies. The notice shall provide that each specified remedy becomes effective within ten business days of receipt unless the contractor appeals said action to the Hearing Examiner pursuant to Chapter 1.23 TMC.

C. When non-compliance with this chapter or the Program Regulations has occurred, the Program Manager and the department/division responsible for enforcement of the contract may allow continuation of the contract upon the contractor’s development of a plan for compliance acceptable to the Director.


1.07.120 Unlawful acts.

It shall be unlawful for any Person to willfully prevent or attempt to prevent, by intimidation, threats, coercion, or otherwise, any Person from complying with the provisions of this chapter.

(Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.130 Severability.

If any section of this chapter or its application to any Person or circumstance is held invalid by a court of competent jurisdiction, then the remaining sections of this chapter, or the application of the provisions to other Persons or circumstances, shall not be affected.

(Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.140 Review of program.

This chapter shall be in effect through and until December 31, 2024, unless the City Council shall determine at an earlier date that the requirements of this chapter are no longer necessary. If this chapter has not been repealed by July 1, 2024, the City Council shall determine by the end of that year whether substantial effects or lack of opportunity of MWBEs and/or SBEs remain true in the relevant market and whether, and for how long, some or all of the requirements of this chapter should remain in effect.

EIC REQUIREMENT FORM

EQUITY IN CONTRACTING REQUIREMENTS & PROCEDURES:

All bidders must complete and submit with their bid the following solicitation form contained in the bid submittal package:

City of Tacoma – EIC Utilization Form

IMPORTANT NOTE:

It is the bidder’s responsibility to insure that the EIC-eligible subcontractor(s) listed on the EIC Utilization Form are currently certified by the State of Washington’s Office of Minority and Women Business Enterprises (OMWBE) at the time of bid opening. This may be verified by contacting the EIC Office at 253-591-5075 between 8 AM and 4:30 PM, Monday through Friday or the OMWBE Office. Please refer to the City of Tacoma EIC Provisions included elsewhere in these Special Provisions.

Equity in Contracting Requirements

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A list of EIC-eligible companies is available on the following web site addresses:

www.omwbe.diversitycompliance.com*

MATERIAL MISSTATEMENTS CONCERNING COMPLETED ACTIONS BY THE BIDDER IN ANY SWORN STATEMENT OR FAILURE TO MEET COMMITMENTS AS INDICATED ON THE EIC UTILIZATION FORM MAY RENDER THE BIDDER IN DEFAULT OF CITY ORDINANCE 1.07

CCD/SBE: PWK-01018-01
Date of Record: 07/01/2021

*For the OMWBE list, be sure to look for businesses in Pierce, King, Lewis, Mason, Grays Harbor, Thurston, or any counties adjacent to the county in which the work is performed per 1.07.050(2)(b-c). Contact the EIC Office if you have any questions.
EQUITY IN CONTRACTING UTILIZATION FORM

This form is to document only the EIC contractors or material suppliers that will be awarded a contract. This information will be used in calculating the EVALUATED BID. Additional forms may be used if needed.

- Prime contractors are encouraged to solicit bids from EIC approved firms.
- Be sure to include this form with your bid submittal in order to receive EIC credit.
- It is the prime contractor’s responsibility to check the certification status of EIC contractors prior to the submittal deadline.

Bidder’s Name: ___________________________________________
Address: ___________________________________________ City/State/Zip: __________________________

Spec. No. _________________ Base Bid $ __________________________

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<tr>
<th>Company Name and Telephone Number</th>
<th>MBE, WBE, or SBE (Write all that apply)</th>
<th>NAICS code(s)</th>
<th>Contractor Bid Amount (100%)</th>
<th>Material Supplier Bid Amount (20%)</th>
<th>Estimated MBE Usage Dollar Amount</th>
<th>Estimated WBE Usage Dollar Amount</th>
<th>Estimated SBE Usage Dollar Amount</th>
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Complete company names and phone numbers are required to verify your EIC usage.

i. MBE Utilization % 

j. WBE Utilization %

k. SBE Utilization %

By signing and submitting this form the bidder certifies that the EIC firms listed will be used on this project including all applicable change orders.

Type or Print Name of Responsible Officer / Title ___________________________ Signature of Responsible Officer ___________________________ Date ___________________________

CCD/SBE/FORMS revised July 2020
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 EIC companies 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 all 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 all 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” – The percent of actual SBE utilization calculated on the Base Bid only. (Divide the sum of Estimated SBE Usage Dollar Amount (Column “h”) by your Base Bid (*) then multiply by 100 to get a percentage: $ amounts from column “h” divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

It is the prime contractor’s responsibility to check the status of EIC contractors prior to bid opening. Call the EIC Office at 253- 591-5075 for additional information.
Equity in Contracting (EIC) forms and attachments must be fully and accurately completed and returned at the time of Bids. Failure to do so may result in the proposal being considered nonresponsive. These forms will be used to determine if the firm complies with Tacoma Municipal Code Chapter 1.07 and State Law.

Vendors for public works and improvement-type projects are required to be inclusive of Minority Owned Business Enterprises, Women-Owned Business Enterprises, and Small Business Enterprises. The criteria for determining whether inclusion has been made are set forth in the City’s EIC regulations. Vendors are also subject to the City’s EIC ordinance and regulations pertaining to having an Equal Employment Opportunity policy prohibiting discrimination. Bids will be evaluated on an individual basis to determine compliance with this section. The EIC Utilization Form, when required, should accompany your submittal. Contact the EIC Office at (253) 591-5075 if there are questions about this requirement.

Either the firm submitting the bid or the firms they plan to subcontract with, if qualified, may meet the percent requirements listed on the EIC Requirement Form.

Bidders unable to meet the percent requirements shall submit the Equity in Contracting Utilization Form, and any required attachments with the Bid in accordance with the Equity in Contracting Regulations.

FAILURE TO COMPLETE AND SUBMIT EIC FORMS WITH THE BID SUBMITTAL PACKAGE WILL RESULT IN THE BID BEING DECLARED NON-RESPONSIVE AND REJECTED.
It is the bidder's responsibility to insure that their firm (if EIC-eligible) and/or eligible subcontractor(s) listed on the EIC Utilization Form are currently certified by the the State of Washington's Office of Minority and Women Business Enterprises at the time of bid opening. This may be verified by contacting the EIC Office at 253-591-5075 between 8 AM and 4:30 PM, Monday through Friday.

All SBE goals may be met by using DBEs or SBEs from the OMWBE list or the City of Tacoma SBE list.

A list of EIC-certified companies is available on the following web site addresses:
www.omwbe.diversitycompliance.com – From this list, be sure check for certified MBE, WBE, MWBE, and SBE companies located in Pierce, King, Lewis, Mason, and Grays Harbor counties.

*After December 31, 2020, the list of EIC eligible firms may only be accessed at www.omwbe.diversitycompliance.com
City of Tacoma

Equity In Contracting Program Regulations
Introduction
This document serves as the administrative manual for the Equity in Contracting policy that is described in Tacoma Municipal Code (TMC) Chapter 1.07.040(B). The manual will explain how compliance, monitoring, oversight, requirement-making, bid incentives, and enforcement actions will be administered. The document will be regularly updated. For any questions related to this document, please contact the Equity in Contracting (EIC) office at (253)591-5075 or SBEOffice@cityoftacoma.org.

Goals/Requirements on Contracts
A. Requirements
1. Public Work
   a. Minority Business Enterprise (MBE), Women Business Enterprise (WBE), and Small Business Enterprise (SBE) requirements are placed on all Public Work projects.
      i. MBE, WBE, and SBE requirements are mandatory. As such, any bidder that does not meet any requirement shall be considered non-responsive by the Equity in Contracting office.

Contractors are also subject to the City’s ordinances and regulations pertaining to having an affirmative action program and prohibiting discrimination. If needed, please contact the Equity in Contracting Office at 253-591-5075 for assistance. The list of MBE, WBE, and SBE certified firms from the Washington State Office of Minority and Women Owned Business Enterprises (OMWBE) can be found at: https://omwbe.diversitycompliance.com/

All SBE goals may be met by using DBE’s or SBE’s from the OMWBE list or the City of Tacoma SBE list. Please contact the Equity in Contracting Office for questions or to verify a firms status.

Contract Compliance
A. Benefits
The City of Tacoma must monitor compliance for all contracts that have requirements related to Equity in Contracting policies. Adequate monitoring allows the City to audit ongoing contracts for compliance, make necessary changes to the Equity in Contracting Regulations Manual based on real data, and to proactively monitor any possible discrimination on City of Tacoma-funded contracts.

B. Requirements
1. All contracts that have requirements related to the Equity in Contracting policy must utilize two cloud-based software solutions:
   b. “LCP Tracker” for certified payroll compliance.
2. To access both systems, please use the following link: https://cityoftacoma.sbecompliance.com/?TN=cityoftacoma
3. For support using these software solutions, please contact the Equity in Contracting office at (253)591-5075.

C. Key Performance Indicators
1. B2GNow
   a. Ethnicity and Gender Summary
Waivers

B. Waivers. City departments/divisions or the Program Manager may request to waive one or more of the requirements of this chapter as they apply to a particular contract or contracts. Waivers may be granted in any one or more of the following circumstances:

1. Emergency: The supplies, services and/or public works must be provided with such immediacy that neither the City nor the contractor can comply with the requirements herein. Such emergency and waiver must be documented by the department/division awarding the contract.

2. Not Practicable: Compliance with the requirements of this chapter would impose an unwarranted economic burden or risk to the City after consideration of existing budgetary approvals.

3. Sole source: The supplies, services, and/or public works are available from only one source, and subcontracting possibilities do not reasonably exist as determined by the finance purchasing manager.

4. Government purchasing. The City is a party to or included in a federal, state or inter-local government purchasing agreement as approved by the finance purchasing manager.

5. Lack of certified contractors: An insufficient number of qualified contractors exist to create utilization opportunities.

6. Best interests of the City: Waiver of goals is in the best interests of the City due to unforeseen circumstances, provided that said circumstances are set forth in writing by the requestor.

C. Review of Waivers. A waiver determination by the finance purchasing manager may be reviewed by the Board of Contracts and Awards (C&A Board). The C&A Board may also review a request to reduce or waive the utilization requirements based on Not Practicable or Best Interests of the City circumstances. The C&A Board shall determine whether compliance with such requirements would impose unwarranted economic burden on, or risk to, the City of Tacoma as compared with the degree to which the purposes and policies of this chapter would be furthered by requiring compliance. If the determination of the C&A Board does not resolve the matter, a final determination shall be made by the City Council or Public Utility Board, as the case may be.

(Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 27867 Ex. A; passed Dec. 15, 2009)

D. Key Performance Indicators

1. Total quantity of Waivers
   a. By type number
   b. Type 5 will also need to document the NAICS code referenced.
Version History
The version history is marked by day.month.year.version nomenclature. A higher version number denotes a more recent version. For example, a 1.1.2020.1 version would denote the first version made in January 1st of 2020. A 1.1.2020.3 version would denote the third version made on January 1st of 2020. When referencing a specific contract, be sure to note that the version of the administrative manual matches that which was in the bid specifications.

Current Version
7.01.2021.1

Previous Version(s)
2.21.2020.1, 3.11.2020.1
PART IV

LOCAL EMPLOYMENT
AND
APPRENTICESHIP
TRAINING PROGRAM (LEAP)
REGULATIONS
FOR
PUBLIC WORKS CONTRACTS
Chapter 1.90
LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM

Sections:
1.90.010 Purpose.
1.90.020 Scope.
1.90.030 Definitions.
1.90.040 LEAP goals.
1.90.050 Repealed.
1.90.060 Effect of program on prime contractor/subcontractor relationship.
1.90.070 Apprentice utilization requirements – Bidding and contractual documents.
1.90.080 Enforcement.
1.90.090 Compliance with applicable law.
1.90.100 Review and reporting.
1.90.105 Authority
1.90.110 Interpretation.

1.90.010 Purpose.
The purpose of this Chapter is to establish a means of providing for the development of a trained and capable workforce possessing the skills necessary to fully participate in the construction trades.

(Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.020 Scope.
The provisions of this Chapter shall apply to all Public Works or Improvements funded in whole or in part with City funds or funds which the City expends or administers in accordance with the terms of a grant.

(Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.030 Definitions.
As used in this chapter, the following terms shall have the following meanings:
A. “Apprentice” shall mean a person enrolled in a course of training specific to a particular construction trade or craft, which training shall be approved by the Washington State Apprenticeship and Training Council established pursuant to RCW 49.04.010.
B. “Building Projects” shall mean all Public Works or Improvements having an Estimated Cost greater than $750,000.00, and for which a building permit must be issued pursuant to Chapter 1 of the current edition of the state building code (Uniform Building Code).
C. “City” shall mean all divisions and departments of the City of Tacoma, and all affiliated agencies, provided, however, that the Tacoma Community Redevelopment Authority shall not be included within this definition.
D. “Civil Projects” shall mean all Public Works or Improvements that are not defined as a “Building Project,” provided that those projects having an Estimated Cost of less than $250,000.00 shall not be included in this definition.
E. “Contractor or Service Provider” means a person, corporation, partnership, or joint venture entering into a contract with the City to construct a Public Work or Improvement.
F. “Director” shall mean the Director of Community and Economic Development, or the Director’s Designee.
G. “Economically Distressed ZIP Codes” shall mean ZIP codes in the Tacoma Public Utilities Service Area that meet two out of three (2/3) of the thresholds of:
   1. High concentrations of residents living under 200% of the federal poverty line in terms of persons per acre (69th percentile)
   2. High concentrations of unemployed people in terms of persons per acre (45th percentile)
3. High concentrations of people 25 years or older without a college degree in terms of persons per acre (75th percentile)

Said thresholds shall be updated within 30 days following any Prevailing Wage updates issued by the Washington State Labor and Industry. All updates are to be published on the first business day in August and in February of each calendar year.

H. “Electrical Utility” and “Water Utility” shall mean, respectively, the Light Division of the Department of Public Utilities of the City of Tacoma, and shall include the electrical and telecommunications services of that Division, and the Water Division of the Department of Public Utilities of the City of Tacoma.

I. “Estimated Cost” shall mean the anticipated cost of a Public Work or Improvement, as determined by the City, based upon the expected costs of materials, supplies, equipment, and labor, but excluding taxes and contingency funds.

J. “Estimated Labor Hours” shall mean the anticipated number of Labor Hours determined by the City to be necessary to construct a Public Work or Improvement and set forth in the specifications for the project, or as may be subsequently revised due to contract or project adjustment, or pursuant to an agreed upon change order.

K. “Existing Employee” shall mean an employee whom the Contractor or Service Provider can demonstrate was actively employed by the Contractor or Service Provider for at least 1000 hours in the calendar year prior to bid opening plus one month following bid opening, and who was performing work in the construction trades.

L. “Labor Hours” shall mean the actual number of hours worked by workers receiving an hourly wage who are employed on the site of a Public Work or Improvement, and who are subject to state or federal prevailing wage requirements. The term “Labor Hours” shall include hours performed by workers employed by the Contractor or Service Provider and all Subcontractors, and shall include additional hours worked as a result of a contract or project adjustment or pursuant to an agreed upon change order. The term “Labor Hours” shall not include hours worked by workers who are not subject to the prevailing wage requirements set forth in either RCW 39.12 or the Davis-Bacon Act - 40 U.S.C. 276 (a).

M. “LEAP Coordinator” shall mean the City of Tacoma staff member who administers LEAP.

N. “LEAP Program” or “Program” shall mean the City of Tacoma’s Local Employment and Apprenticeship Training Program, as described in this chapter.

O. “LEAP Regulations” or “Regulations” shall mean the rules and practices established in this document.

P. “LEAP Utilization Plan” shall mean the document submitted by the Contractor to the LEAP Coordinator which outlines how the associated goals will be met on the project.

Q. “Priority Hire Resident” shall mean any resident within the Economically Distressed ZIP Codes.

R. “Project Engineer” shall mean the City employee who directly supervises the engineering or administration of a particular construction project subject to this chapter.

S. “Public Work or Improvement” shall have the same meaning as provided in Section 39.04.010 RCW, as that Section may now exist or hereafter be amended.

T. “Resident of Tacoma” shall mean any person, not defined as a Resident of the Economically Distressed ZIP Codes within the Tacoma Public Utilities Service Area, who continues to occupy a dwelling within the boundaries of the City of Tacoma, has a present intent to continue residency within the boundaries of the City, and who demonstrates the genuineness of that intent by producing evidence that the person’s presence is more than merely transitory in nature.

U. “Service Area - Electrical” or “Electrical Service Area” shall mean that area served with retail sales by the Electrical Utility of the City of Tacoma at the time a bid is published by the Electrical Utility for a Public Work or Improvement to be performed primarily for the Electrical Utility.

V. “Service Area - Water” or “Water Service Area” shall mean that area served with retail sales by the Water Utility of the City of Tacoma at the time a bid is published by the water utility for a Public Work or Improvement to be performed primarily for the Water Utility.
W. “Service Contract” shall mean all City contracts relating to a Public Work or Improvement which utilize labor at a City site and which are not within the exceptions to nor defined as “Building Projects” or “Civil Projects.”

X. “Subcontractor” means a person, corporation, partnership, or joint venture that has contracted with the Contractor or Service Provider to perform all or part of the work to construct a Public Work or Improvement by a Contractor.

Y. “Tacoma Public Utilities Service Area” shall mean every ZIP code listed by Tacoma Public Utilities as an area that either receives services or maintains infrastructure to provide services.

Z. Washington State Labor and Industry Prevailing Wage shall mean the hourly wage, usual benefits and overtime, paid in the largest city in each county, to the majority of workers, laborers, and mechanics. Prevailing wages are established, by the Department of Labor & Industries, for each trade and occupation employed in the performance of public work. They are established separately for each county, and are reflective of local wage conditions.

AA. “Tacoma Public Utilities” means the City of Tacoma, Department of Public Utilities.

1.90.040 LEAP goals.

A. Utilization Goals.

1. All Contractors constructing Civil Projects or Building Projects, and all Service Providers involved with the construction of a Public Work or Improvement, shall ensure that at least 15 percent of the total Labor Hours actually worked on the Project are performed by persons having their residence within the boundaries of the City of Tacoma or Economically Distressed ZIP Codes, whether or not any such person is an Apprentice.

a. The thresholds for this section shall be $250,000.00 for Civil Projects and $750,000.00 for Building Projects.

2. Fifteen percent (15%) of the Total Labor Hours on contracts above one-million dollars ($1,000,000.00) shall have work performed by Apprentices who are residents of the Tacoma Public Utilities Service Area consistent with RCW 39.04.320(1)(a), subject to waiver based on exceptions as specified in RCW 39.04.320(2)(a), (b), and (c).

3. Labor Hours performed by non-residents of the State of Washington will be deducted from a project’s total Labor Hours for purposes of determining compliance with the requirements of this chapter.

4. All Contractors and Service Providers shall submit a LEAP Utilization Plan as provided for in the regulations adopted under this chapter, and shall meet with the LEAP Coordinator to review said Plan prior to being issued a Notice to Proceed. Failure to submit a LEAP Utilization Plan may be grounds for the City to withhold remittance of a progress payment until such Plan is received from the responsible Contractor or Provider. A meeting with the LEAP Coordinator prior to issuance of a Notice to Proceed shall be excused only when the LEAP Coordinator is unavailable to meet prior to the scheduled date for issuance of the Notice to Proceed and the Contractor and the LEAP Coordinator have otherwise scheduled a meeting for the coordinator to review the Contractor’s or Provider’s plan.

The Contractor or Service Provider shall be responsible for meeting the LEAP utilization goal requirements of the contract, including all amendments and change orders thereto, and shall be responsible for overall compliance for all hours worked by Subcontractors. To the extent possible, the Contractor or Service Provider shall recruit Apprentices from multiple trades or crafts.

B. Failure to Meet Utilization Goal.

1. Contracts for the construction of Building projects or Civil Projects and Service Contracts shall provide that Contractors or Service Providers failing to meet the LEAP utilization goals shall be assessed an amount for each hour that is not achieved. The amount per hour shall be based on the extent the Contractor or Service Provider met its goal. The amount per hour that shall be assessed shall be as follows:
<table>
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<tr>
<th>Percent of Goal Met</th>
<th>Assessment per unmet hour</th>
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<tbody>
<tr>
<td>100%</td>
<td>$ 0.00</td>
</tr>
<tr>
<td>90% - 99%</td>
<td>$ 2.00</td>
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<tr>
<td>75% to 89%</td>
<td>$ 3.50</td>
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<tr>
<td>50% to 74%</td>
<td>$ 5.00</td>
</tr>
<tr>
<td>1% to 49%</td>
<td>$ 7.50</td>
</tr>
<tr>
<td>0%</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

When determining the percent of goal that is met, all rounding shall be down to the nearest whole percent. No penalty shall be waived by the City unless it is determined by the Director to be in the best interests of the City, which determination shall be made after consultation with the LEAP Coordinator.

2. Deposit of Assessments. All assessments imposed pursuant to this section shall be deposited into a separate account and utilized to support the City’s pre-apprenticeship and training program. The policies and regulations adopted by the City Manager and Director of Utilities pursuant to this chapter shall address issues pertaining to a Contractor’s existing workforce. Contributions need not be made for Labor Hours that have been adjusted in accordance with Section 1.90.040(E).

C. LEAP Reports. Notwithstanding the provisions of TMC 1.90.100, the Director shall, not less than annually, publish a LEAP report setting forth Contractor compliance with this chapter. Said report shall include information on all contracts and all Contractors to which this chapter applies, and shall detail the level and nature of LEAP participation by contract and by Contractor, The Director’s LEAP report may include such other information as may be helpful to assuring fair and accurate representation of the contracts, Contractors or projects covered in the report. The Director’s LEAP reports may be considered by the Board of Contracts and Awards in its determinations as to bidder responsibility.

D. LEAP Goal Adjustments.

1. LEAP utilization goals may be adjusted prior to bid opening and/or as a result of a contract amendment or change order on a Building Project, Civil Project, or Service Contract.

   a. If LEAP utilization goals are adjusted prior to bid opening, they shall be set forth in the bid or Request For Proposal advertisement and specification documents or in an addendum timely provided to prospective bidders, provided that such adjustment shall be based upon a finding by the Project Engineer that the reasonable and necessary requirements of the contract render LEAP utilization unfeasible at the required levels. The Director shall concur with the Project Engineer’s finding, provided that should the Project Engineer and the Director fail to reach agreement on the Project Engineer’s finding, then in that circumstance the matter shall be referred to the City Manager or the Director of Utilities, as appropriate, for ultimate resolution. Notwithstanding any other provision of this chapter to the contrary, the decision of the City Manager or the Director of Utilities with regard to LEAP goal adjustment may not be appealed.

   b. If LEAP utilization goals are adjusted due to contract amendment or change order, the amount of adjustment shall be consistent with the utilization goals set forth in this chapter and shall be determined pursuant to regulations adopted pursuant to this chapter for administration of LEAP utilization goal adjustments.

2. The methodology of determining the appropriate adjustments to LEAP utilization goals shall be determined in consultation with the LEAP Advisory Committee, established pursuant to this ordinance for so long as the LEAP Advisory Committee remains in existence.

3. LEAP utilization goals shall not apply to those portions of a project that are funded by sources other than (a) City funds, or (b) funds which the City expends or administers in accordance with the terms of a grant to the City, provided that the Project Engineer shall notify the Director of such non-application prior to bid advertisement. For the purposes of this paragraph, credits extended by another entity for the purpose of providing project funding shall not be considered to be City funds.

E. Utilization - Electrical Projects Outside Electrical Service Area. Civil Projects or Building Projects that are constructed primarily for the benefit or use by the City’s Electrical Utility, which are wholly situated outside the
Electrical Service Area, and for which the estimated cost is less than $1,000,000.00, are exempt from the requirements of this chapter.

F. Utilization - Water Projects Outside Water Service Area. Civil Projects or Building Projects that are constructed primarily for the benefit or use by the City’s Water Utility, which are wholly situated outside the Water Service Area, and for which the estimated cost is less than $1,000,000.00 are exempt from the requirements of this chapter.

G. Utilization – Projects Outside Tacoma Public Utilities Service Area. Civil Projects or Building Projects that are constructed primarily for the benefit or use by Tacoma Public Utilities, which are wholly situated outside the retail service area of the Tacoma Public Utilities Service Area, and for which the estimated cost is less than $1,000,000.00, shall be exempt from 15% utilization goal specified in subsection A1. of this section. Projects wholly situated outside the Tacoma Public Utilities Service Area, and for which the estimated cost is more than $1,000,000.00, shall be exempt from the requirements of this chapter. Projects wholly situated outside the Tacoma Public Utilities Service Area, and for which the estimated cost is more than $1,000,000.00, shall be exempt from 15% utilization goal specified in subsection A1. of this section. The 15% utilization goal specified in subsection A2. of this section may be met if project work is performed by Apprentices who are enrolled in a course of training specific to a particular construction trade or craft, provided such training has been approved by the Washington State Apprenticeship and Training Council in accordance with Chapter 49.04, RCW.

H. Emergency. This chapter shall not apply in the event of an Emergency. For the purposes of this section, an “Emergency” means unforeseen circumstances beyond the control of the City that either: (a) present a real, immediate threat to the proper performance of essential functions; or (b) will likely result in material loss or damage to property, bodily injury, or loss of life if immediate action is not taken.

I. Conflict with State or Federal Requirements. If any part of this chapter is found to be in conflict with federal or state requirements which are a prescribed condition to the allocation of federal or state funds to the City, then the conflicting part of this chapter is inoperative solely to the extent of the conflict and with respect to the City departments directly affected. This provision does not affect the operation of the remainder of this chapter. Administrative rules or regulations adopted under this chapter shall meet federal and state requirements which are a necessary condition to the receipt of federal or state funds by the City.


1.90.050 Good faith efforts. Repealed by Ord. 27368.

(Ord. 27368 § 3; passed Jun. 21, 2005: Ord. 26698 § 3; passed Sept. 12, 2000: Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.060 Effect of program on prime contractor/service provider - subcontractor relationship.
The LEAP Program shall not be construed so as to modify or interfere with any relationship between any Contractor or Service Provider and Subcontractor. The LEAP Program shall not grant the City any authority to control the manner or method of accomplishing any construction work that is additional to any authority retained by the City in a Public Works or Improvement contract.

(Ord. 26698 § 4; passed Sept. 12, 2000: Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.070 Apprentice utilization requirements – Bidding and contractual documents.
All packages of bid documents for every Building Project and every Civil Project shall incorporate provisions satisfactory to the City Attorney so as to allow enforcement of the provisions contained in this Chapter. Such contractual provisions may include liquidated damages, calculated to reimburse the City for the Contractor’s breach of these performance requirements, which shall be published with the City’s call for bids.

(Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.080 Enforcement.
A. The Director shall review the Contractor’s or Service Provider’s and all Subcontractor’s employment practices during the performance of the work for compliance with LEAP Program requirements. On-site visits may be conducted as necessary to verify compliance with the requirements of the LEAP Program. The Contractor, Service Provider, or Subcontractors shall not deny to the City the right to interview its employees, provided that the Director shall make reasonable efforts to coordinate employee interviews with employers.
B. Any knowing failure or refusal to cooperate in compliance monitoring may disqualify the defaulting Contractor, Service Provider, or Subcontractor from eligibility for other City contracts.

C. The making of any material misrepresentation may disqualify the defaulting Contractor, Service Provider, or Subcontractor from eligibility for other City contracts.

D. Any action by the City, its officers and employees, under the provisions of this Chapter may be reviewed by the Board of Contracts and Awards, upon written application of the party so affected. Application shall be made within twenty (20) days of the date of the action upon which the appeal is based, and provided to the City by certified mail or by personal service. Any action taken by the Board of Contracts and Awards may be appealed to the City Council or Public Utility Board, as appropriate, and thereafter if desired, to the Superior Court of Pierce County, Washington, within fifteen (15) days of the previous decision.

(Ord. 26698 § 5; passed Sept. 12, 2000; Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.090 Compliance with applicable law.

Nothing in this Chapter shall excuse a Prime Contractor, Service Provider, or Subcontractor from complying with all relevant federal, state, and local laws.

(Ord. 26698 § 6; passed Sept. 12, 2000; Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.100 Review and reporting.

The City Manager and Director of Utilities shall review the Program on or before January 1, 2000, and every two (2) years thereafter, and shall report to the City Council and Public Utility Board the Manager’s and Director’s findings, conclusions, and recommendations as to the continued need for the Program, and any revisions thereto that should be considered by the Council and Board.

(Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.105 Authority.

The City Manager and the Director of Utilities shall have authority to jointly adopt policies and regulations consistent with this chapter to implement the LEAP program.

(Ord. 26698 § 7; passed Sept. 12, 2000; Ord. 26301 § 1; passed Oct. 6, 1998)

1.90.110 Interpretation.

This Chapter shall not be interpreted or construed so as to conflict with any state or federal law, nor shall this Chapter be enforced such that enforcement results in the violation of any applicable judicial order.

(Ord. 26301 § 1; passed Oct. 6, 1998)
LEAP

Document Submittal Schedule

In the attached packet, you will find the LEAP forms that are required to be submitted by the Prime and Sub Contractors.

- **LEAP Instructions and Goal Form**: brief overview of LEAP Program requirements
- **Prime Contractor LEAP Utilization Plan**: to be submitted at or by the Pre-Construction Meeting *(Required by Prime Contractor Only)*
- **LEAP Apprentice Verification Form**: to be submitted on an ongoing basis for each qualified Apprentice employee via LCP Tracker
- **Tacoma Public Utilities Service Area List, Economically Distressed ZIP Codes List**: for your reference on LEAP-qualified zoning areas

In addition, the LEAP Office will also require from the Prime Contractor and all its Subcontractors:

- **Weekly Certified Payrolls**: to be submitted weekly, biweekly or monthly via LCP Tracker
- **Document Verification**: provide required information when requested from LEAP Office

Please submit above documents as instructed by the Project Manager.

If you have any questions or request further information, please feel free to contact the City of Tacoma’s LEAP Program at (253) 591-5826, Fax (253) 591-5232, or email carmstrong@cityoftacoma.org.
LEAP APPRENTICE VERIFICATION FORM

Contractor/Sub: __________________________ Specification Number: __________________________

Project Description: ________________________________________________________________

Employee Name: ___________________________ Craft: ______________________________________

Ethnic Group (optional):    ☐ Asian/Pac Isl. ☐ Black ☐ Hispanic ☐ Native American ☐ White ☐ Other

Gender (optional): ☐ MALE      ☐ FEMALE

Complete Physical Address (No PO Boxes): ______________________________________________

City:_________ State:_______ Zip:________ Telephone:_________ Date of Hire:__________

Apprenticeship County:_________ Apprentice Registration I.D. (if applicable):_______________

Age:________ Copy of DD-214:_______

******Please fill out entire form for tracking LEAP performance******

LEAP qualified Apprentice categories: (check all that apply and provide evidence for each check)

_____ a. WA State Approved Apprentice living in Tacoma Public Utilities Service Area

_____ b. WA State Approved Apprentice *(Only valid for contracts where 100% of work is performed outside of Pierce County)

Signature of Employee: ___________________________ Date: __________________________

Contractor Representative: ___________________________ Date: __________________________
LEAP APPRENTICE VERIFICATION FORM

To be Completed by Contractor or Subcontractor

Please attach a legible copy of the following document(s) showing the address of residence as proof of local (Tacoma) and/or Pierce County residency and apprentice status, youth status, or veteran status.

________________________________________________________________________________________________________________________

For Youth - Copy of Birth Certificate or WA State ID or WA Driver's License (projects advertised after 05-20-13)

For Veterans – Copy of DD-214(Projects advertised after 05-20-13)

Driver's License with current address

Utility Bill/Phone Bill/Cell Bill/Cable Bill with current address

Copy of current tax form W-4

Rental Agreement/Lease (residential)

Computer Printout From Other Government Agencies

Property Tax Records

Apprentice Registration I.D.

Food Stamp Award Letter

Housing Authority Verification

Insurance Policy (Residence/Auto)

*Any of the above must have a complete physical address verified by the www.govme.org website.

No PO Boxes

Contractor Representative: ________________________________ Date: ________________

Title: ________________________________________________________________
LOCAL EMPLOYMENT AND APPRENTICESHIP TRAINING PROGRAM (LEAP)
INSTRUCTIONS AND GOAL FORM

LEAP REQUIREMENTS & PROCEDURES:

The LEAP office enforces post-award mandatory requirements. Bidders do not have to submit any information in the bid submittal package to be in compliance with LEAP.

Post-award Submittals:

- **Prime Contractor LEAP Utilization Plan** - This form is to be completed and presented at the Pre-Construction Meeting.
- **LEAP Apprentice Verification Form** - This form is to be completed for every qualifying Apprentice employee.

The forms above, LEAP Program Requirements, and all related LEAP documents can be accessed on the City of Tacoma LEAP website by navigating to LEAP Forms at the following link: http://cityoftacoma.org/leap.

The City of Tacoma’s LEAP office enforces two mandatory goals on City projects above certain monetary thresholds.

The Local Employment Utilization Goal requires the Prime Contractor performing a qualifying public works project to ensure that 15 percent of the total labor hours worked on the project are performed by residents of the City of Tacoma or Economically Distressed Areas of the Tacoma Public Utilities Service Area.

The Apprentice Utilization Goal requires the Prime Contractor performing a qualifying public works project to ensure that 15 percent of the total labor hours worked on the project are performed by Apprentices who are residents of the City of Tacoma or Tacoma Public Utilities Service Area. The accompanying LEAP Regulations, forms, and maps are included in these specifications.

*Exceptions: If the project is located outside of the retail service area of the Tacoma Public Utilities Service Area, then Apprentices may come from the county in which the work is performed.

This project is above $1 million and is thusly subject to the:

1. 15% Local Employment Utilization Goal
2. 15% Apprentice Utilization Goal

LEAP staff can assist contractors in the recruitment, screening and selection of qualified City of Tacoma residents, Economically Distressed Area residents, and Apprentices. Contractors may obtain further information by contacting the City’s LEAP Office at (253) 591-5826. The LEAP Office is located in the Tacoma Municipal Building, 747 Market Street, Room 808, Tacoma, WA 98402.

05/2020
No Work Performed (NWP) Report

Prime/Sub Contractor: ___________________________________________________________

Specification Number: ___________________________________________________________

Project Description: _____________________________________________________________

Payroll Week Ending Date: __________________________           Payroll Number: __________

NO WORK PERFORMED

I, the undersigned, do hereby certify under penalty of perjury, that the information contained herein is true and correct.

_________________________         ______________________       __________
Signature of Responsible Officer     Title              Date
PRIME CONTRACTOR
LEAP UTILIZATION PLAN

Failure to submit this plan at the Pre-Construction Meeting may result in Progress Payments being withheld.

Part A

<table>
<thead>
<tr>
<th>Contractor:</th>
<th>Date:</th>
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<tbody>
<tr>
<td>Specification Number:</td>
<td>Contract/Work Order Number(s):</td>
</tr>
<tr>
<td>Project Description:</td>
<td>Notes:</td>
</tr>
</tbody>
</table>

Part B

<table>
<thead>
<tr>
<th>Trade or Craft</th>
<th>City of Tacoma Resident</th>
<th>Economic Distressed Area Resident</th>
<th>Tacoma Public Utilities Service Area Apprentice Resident</th>
<th>WA State Apprentice <em>(Contracts outside of TPU Service Area Only)</em></th>
</tr>
</thead>
<tbody>
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Rejected

|                  | hrs. | hrs. | hrs. | hrs. |

Date

|                  | hrs. | hrs. | hrs. | hrs. |

Date

Totals

TOTAL hrs.

Part C

Provide a description of how the Contractor plans to ensure that the LEAP Utilization Goals on the project will be met.  (Use additional sheets if necessary)
General Instructions for completing Prime Contractor LEAP Utilization Plan

Part A
Contractor/Contract Information Section: The Prime Contractor is responsible for completing this section. Failure to submit this plan at the Pre-Construction Meeting may result in Progress Payments being withheld.

Part B
Planned LEAP Hours Section: This section should be completed by the Prime Contractor. The information required in Part B is described below.

Trade or Craft: Indicate the Trade or Craft being used.

LEAP Employee Categories: Indicate the number of hours that will be utilized by the Prime Contractor and all Sub Contractors for each craft and broken down by City of Tacoma Resident, Economically Distressed Area Resident, Tacoma Public Utilities Service Area Apprentice Resident, WA State Apprentice *(Contracts outside of TPU Service Area Only).

Totals: Total the number of hours in each of the five (5) columns.

Part C
Description of how the Contractor plans to ensure fulfillment of the LEAP Utilization Goal: This section is to be completed by the Prime Contractor. Please describe how you plan to satisfy the LEAP Utilization Goal on this project. Provide a summary of your outreach and recruitment procedures to hire LEAP Qualified Employees to work on this project.
Economically Distressed ZIP Codes

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<th>Area</th>
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“200% Pov” = People at or below 200% of the federal poverty line. (69th percentile)
“Unemployed” = Unemployment rate (45th percentile)
“25+ College” = People at or above 25 years old without a college degree. (75th percentile)
Apprentices may come from any of the ZIP codes listed under this page. If an apprentice lives in an Economically Distressed ZIP code, they may count towards those labor hours as well. Journeyman must be from the Economically Distressed ZIP codes.
PART V

STATE PREVAILING WAGE RATES AND GENERAL REQUIREMENTS AND COVID–19 VACCINE DECLARATION
PREVAILING WAGE RATES

This project requires prevailing wages under 39.12 RCW. 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 39.12 RCW 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, https://www.lni.wa.gov/ 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:

4.2 A per project aggregate policy limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

4.3 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.

4.4 **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.

4.5 **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.

4.6 **Excess or Umbrella Liability Insurance**
Contractor shall provide Excess or Umbrella Liability Insurance with limits not less than Three Million Dollars ($3,000,000) per occurrence and in the aggregate. This coverage shall apply, at a minimum, in excess of primary underlying Commercial General Liability, Employer’s Liability, Pollution Liability, Marine General Liability, Protection and Indemnity, and Automobile Liability if required herein.

4.7 **Other Insurance**
Other insurance may be deemed appropriate to cover risks and exposures related to the scope of work or changes to the scope of work required by City of Tacoma. The costs of such necessary and appropriate Insurance coverage shall be borne by Contractor.

4.8 **Other Conditions**
Contractor will be responsible to comply with all specific insurance requirements associated with any highway or rail crossings, e.g., Washington State Department of Transportation (WSDOT), Burlington Northern Santa Fe Railway (BNSF), and Union Pacific Railroad (UPRR).
Proclamation 21-14 - COVID-19 Vaccination Declaration

To reduce the spread of COVID-19, Washington state Governor Jay Inslee, pursuant to emergency powers authorized in RCW 43.06.220, issued Proclamation 21-14 – COVID-19 Vaccination Requirement (dated August 9, 2021), as amended by Proclamation 21-14.1 – COVID-19 Vaccination Requirement (dated August 20, 2021) and as may be amended thereafter. The Proclamation requires contractors who have goods, services, or public works contracts with a Washington state agency to ensure that their personnel (including subcontractors) who perform contract activities on-site comply with the COVID-19 vaccination requirements, unless exempted as prescribed by the Proclamation.

WSDOT Procurement Number/ Contract Number: __________________________________________

I hereby certify, on behalf of the firm identified below, as follows (check one):

CONSULTANT/CONTRACTOR HAS A COVID-19 CONTRACTOR VACCINATION VERIFICATION PLAN THAT COMPLIES WITH THE VACCINATION PROCLAMATION.

Consultant/Contractor: ________________________________________________________________

1. Has reviewed and understands Consultant/Contractor’s obligations as set forth in Proclamation 21-14 – COVID-19 Vaccination Requirement (dated August 9, 2021), as amended by Proclamation 21-14.1 – COVID-19 Vaccination Requirement (dated August 20, 2021);

2. Has developed a COVID-19 Vaccination Verification Plan for Consultant/Contractor’s personnel (including subcontractors) that complies with the above-referenced Proclamation;

3. Has obtained a copy or visually observed proof of full vaccination against COVID-19 for Consultant/Contractor personnel (including subcontractors) who are subject to the vaccination requirement in the above-referenced Proclamation;

4. Complies with the requirements for granting disability and religious accommodations for Consultant/Contractor personnel (including subcontractors) who are subject to the vaccination requirement in the above-referenced Proclamation;

5. Has operational procedures in place to ensure that any contract activities that occur in person and on-site at Agency premises (other than only for a short period of time during a given day and where any moments of close proximity to others on-site will be fleeting – e.g., a few minutes for deliveries) that are performed by Consultant/Contractor personnel (including subcontractors) will be performed by personnel who are fully vaccinated or properly exempted as required by the above-referenced Proclamation;

6. Has operational procedures in place to enable Consultant/Contractor personnel (including subcontractors) who perform contract activities on-site and at Agency premises to provide compliance documentation that such personnel are in compliance with the above-referenced Proclamation;
7. Will provide to Agency, upon request, Consultant/Contractor’s COVID-19 Vaccination Verification Plan and related records, except as prohibited by law, and will cooperate with any investigation or inquiry pertaining to the same.

I hereby certify, under penalty of perjury under the laws of the State of Washington, that the certifications herein are true and correct and that I am authorized to make these certifications on behalf of the firm listed herein.

Firm Name: _______________________________________________________________________

(Name of Consultant/Contractor – Print full legal entity name of firm)

By: ______________________________________

(Signature of authorized person)

__________________________________________

(Print Name of person making certifications for firm)

Title: _____________________________________

Title of person signing certificate

Date: _____________________________

Place: _____________________________

(Print city and state where signed)

Return signed declaration to WSDOT Contract Manager