



# *City of St. Helens* *Engineering Department*

## **COLUMBIA BOULEVARD SIDEWALK Project No. R-679A**

### **Bid Documents**



**BIDS DUE: December 15, 2022, 2:00 PM**  
City of St. Helens City Hall, 265 Strand Street, St. Helens, Oregon 97051

City of St. Helens  
265 Strand Street  
St. Helens, Oregon 97051  
(503) 397-6272

PROJECT RELEASE DATE: November 16, 2022

BID DOCUMENTS

FOR

COLUMBIA BOULEVARD SIDEWALK  
PROJECT NO. R-679A

CITY OF ST. HELENS  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
265 STRAND STREET  
ST. HELENS, OREGON, 97051  
(503) 397-6272

NOVEMBER 2022

## INTRODUCTION AND TABLE OF CONTENTS

Contract Documents are listed below. Documents are either attached or bound separately and available from the Project Manager. All documents bound separately are incorporated into the Contract Documents and have the same force and effect as though set forth in full herein.

NOTICE TO CONTRACTORS / INVITATION TO BID .....	6
FIRM OFFER (BID) AND SCHEDULE OF PRICES .....	9
FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM .....	15
FIRST TIER SUBCONTRACTORS .....	16
BID BOND SURETY .....	17
STANDARD PUBLIC IMPROVEMENT CONTRACT .....	19
1. Effective Date and Duration .....	19
2. Statement of Work .....	19
3. Consideration .....	19
CONTRACTOR DATA, CERTIFICATION, AND SIGNATURE .....	20
STANDARD TERMS AND CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS .....	21
1. Contractor is Independent Contractor .....	21
2. Subcontracts and Assignment .....	21
3. No Third Party Beneficiaries .....	21
4. Successors in Interest .....	21
5. Contract Documents .....	21
6. Contractor's Representations .....	22
7. Drug Testing .....	22
8. Notice to Proceed .....	22
9. Suspension of the Work .....	22
10. Early Termination .....	22
11. Payment on Early Termination .....	23
12. Remedies for Default .....	23
13. Access to Records .....	23
14. Ownership of Work Product .....	23
15. Compliance with Applicable Law .....	24
16. Licensing with Construction Contractor's Board .....	27
17. Prevailing Wages .....	27
18. Change Orders/Extra Work .....	27
19. Inspection and Acceptance .....	28
20. Liquidated Damages .....	28

21.	Liability, Indemnity and Hold Harmless .....	28
22.	Insurance.....	29
23.	Bonds / Notice of Bond Claims .....	29
24.	Two-Year Warranty.....	29
25.	Nondiscrimination in Labor .....	29
26.	Environmental Regulations.....	30
27.	Waiver .....	31
28.	Errors.....	32
29.	Governing Law.....	32
30.	Severability.....	32
31.	Attorney’s Fees .....	32
32.	Business License .....	32
33.	Notices/Bills/Payments.....	32
34.	Conflict of Interest.....	32
35.	Merger Clause.....	32

**EXHIBITS A – J**

EXHIBIT A	STATEMENT OF WORK, COMPENSATION, AND PAYMENT SCHEDULE
EXHIBIT B	PUBLIC IMPROVEMENT CONTRACT INSURANCE REQUIREMENTS
EXHIBIT C	CERTIFICATION STATEMENT FOR CORPORATION OR INDEPENDENT CONTRACTOR
EXHIBIT D	BONDS (PAYMENT AND PERFORMANCE)
EXHIBIT E	CERTIFICATE OF SUBSTANTIAL COMPLETION
EXHIBIT F	CERTIFICATE OF COMPLIANCE
EXHIBIT G	CONTRACTOR’S RELEASE OF LIENS AND CLAIMS
EXHIBIT H	CERTIFICATE OF FINAL COMPLETION
EXHIBIT I	INSTRUCTIONS TO BIDDERS
EXHIBIT J	OREGON PREVAILING WAGE RATES

**PART 3: 2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION**

..... Separately Bound

**PART 4: CITY OF ST. HELENS ENGINEERING STANDARDS MANUAL**

..... Separately Bound

In the event of a conflict, Supplementary Conditions control over all Standard Specifications and other Contract Documents. To the extent Standard Specifications and other Contract Documents conflict, the more restrictive requirement or provision shall control, except where otherwise noted in the Contract Documents, addenda, or amendment.

**PART 5: SPECIAL PROVISIONS & TECHNICAL SPECIFICATIONS**

.....See Technical Specifications Table of Contents

**PART 6: SUPPLEMENTARY INFORMATION**

- Bidder's Checklist
- Project Documentation Checklist
- Construction Notice Door Hanger

**PART 7: CONSTRUCTION DRAWINGS**

..... Separately Bound

**NOTICE TO CONTRACTORS / INVITATION TO BID  
CITY OF ST. HELENS ENGINEERING DEPARTMENT**

**COLUMBIA BOULEVARD SIDEWALK, PROJECT NO. R-679A**

Notice is hereby given that Sealed Bids for furnishing all materials, equipment, labor, and services for the **COLUMBIA BOULEVARD SIDEWALK, PROJECT NO. R-679A** for the City of St. Helens (City) will be accepted by the City Administrator at St. Helens City Hall, 265 Strand Street, St. Helens, Oregon until **2:00 pm December 15th, 2022**. All bids received on or before this date and time and in proper form will be publicly opened and read in the Columbia Room at the time set forth above as the deadline for receipt of bids, and thereafter bid documents, shall be made available for public inspection. Bids received after this date and time will not be considered. First-tier Subcontracting Disclosure forms, per the instructions to bidders, are due within two (2) working hours after the bid submission deadline.

Prequalification of Contractors and/or Subcontractors      is      is not required.

No Pre-Bid Conference is scheduled for this project.

**The General Character of the Work under this Contract includes** the construction of approximately 1260 feet of concrete curb & gutters, sidewalk, retaining walls, curb ramps, storm drainage and the installation of a rapid flashing beacon along Columbia Blvd. Work also includes the installation, maintenance, and removal of temporary traffic control and erosion control measures, rock excavation, and the removal and replacement of existing pavement.

The Solicitation Schedule and Deadlines are generally as follows:

**BID SUBMISSION DEADLINE/BID OPENING:** 2:00 pm, December 15th, 2022

Anticipated City Council Award: January 4, 2023

Anticipated Notice to Proceed: January 23, 2023

Project Final Completion: December 31, 2023

Contract Documents, including plans and specifications, may be examined after 2:00 pm November 16, 2022, at the following offices:

City of St. Helens City Hall	265 Strand Street, St. Helens, OR 97051	503-397-6272
Dodge Data & Analytics	3461 NW Yeon Ave., Portland, OR 97210	253-539-9335
Oregon Contractors Plan Center	5468 SE International Drive, Milwaukie, OR 97222	503-650-0148
Daily Journal of Commerce	www.djcoregon.com	503-274-0624
SW Washington Contractors Association	7017 NE Hwy. 99, Suite #214, Vancouver, WA 98665	360-694-7922
Premier Builders Exchange	1902 NE 4th Street, Bend, OR 97701	541-389-0123
Salem Contractors Exchange Plan Center	2256 Judson St. SE, P.O. Box 12065, Salem, OR 97309	503-362-7957
Seattle Daily Journal of Commerce	www.plancenter.com	206-219-6481

Copies of Contract Documents, including plans and specifications may be obtained on or after November 16, 2022 at St. Helens City Hall 265 Strand Street, St. Helens, Oregon for a nonrefundable fee of forty-five dollars (\$45.00) per set. If ordered by mail, add a ten-dollar (\$10.00) processing and mailing charge. Plans may also be downloaded at no cost on the City's website at <https://www.sthelensoregon.gov/rfps>.

**Bids shall only be considered valid if Bidder is listed on the City's Official Plan Holder List.** The purchase of project Plans and Specifications from the City will place the Bidder on the Official Plan Holder List. Bidders who acquire Plans and Specifications from a website or a plan center must contact the City at (503) 397-6272 and request to be placed on the City's Official Plan Holder List for a nonrefundable fee of ten dollars (\$10.00).

The City reserves the right to make changes to the Notice to Contractors/Invitation to Bid and the resulting contract by written addenda, prior to the bid submission deadline and date. The City will not mail notice of addenda but shall publish notice of any addenda on the City's website, <https://www.sthelensoregon.gov/rfps>, and post the notice of addenda at City Hall. The addenda may be downloaded or picked up at City Hall. Check website and City Hall bulletin board frequently until the bid submission deadline because City may, in its discretion, provide additional notices.

No bid will be received or considered unless the bid is submitted in writing and received on the prescribed City Offer form, mailed or delivered to the City Administrator, City Hall, City of St. Helens, 265 Strand Street St. Helens, Oregon 97051 in a sealed envelope plainly marked on the outside of the envelope "SEALED BID" and specifying the project name, **COLUMBIA BOULEVARD SIDEWALK, PROJECT NO. R-679A**, and bearing the name and address of the bidder, the bidder's telephone number and the bid opening date. All bids must be prepared and signed in ink by an authorized representative. Facsimile bids will not be accepted. No bid will be received or considered unless the bid contains a statement by the bidder, as part of their bid, that Contractor agrees to be bound by and will comply with the provisions of ORS 279C.838 or 279C.840 or 40 U.S.C. 3141 to 3148 (Davis- Bacon Act), as applicable. This project is for a public work and is subject to ORS 279C.800 to 279C.870, the Oregon Prevailing Wage Law.

No bid will be received or considered unless the bid contains a statement by the bidder, as part of their bid, identifying whether or not the bidder is a resident bidder as defined by ORS 279A.120.

Bidders  are  are not required to be licensed for asbestos removal under ORS 468A.720.

The successful bidder is required to obtain a City business license.

No bid will be received or considered unless the bidder is licensed by the Oregon Construction Contractor's Board or the State Landscape Contractors Board, whichever is applicable.

No bid will be received or considered unless the Offer is accompanied by a certified check, cashier's check, surety bond (bid bond), or irrevocable letter of credit issued by an insured institution as defined in ORS 706.008, in an amount equal to ten percent (10%) of the total amount bid. The successful bidder will be required to furnish a faithful performance bond and a labor and material payment bond each in the amount of one hundred percent (100%) of the amount of the Contract and show proof that the Contractor has filed a public works bond in the amount of \$30,000 with Bureau of Labor and Industries (BOLI). Contractor will also be required to furnish evidence of insurance, including workers' compensation insurance before the Work shall commence.

The City shall investigate and determine the qualifications of the apparent low responsive bidder prior to awarding the Contract. The City shall reject any bid by a nonqualified or disqualified bidder. The City reserves the right to reject any bid not in compliance with all prescribed public bidding procedures and requirements and may reject all bids for good cause upon a finding that it is in the public interest to do so. Evaluation of bids will be based on minimum requirements established by the specifications and compliance with conditions of the Notice to Contractors/Invitation to Bid and City's public contracting rules. Additional evaluation criteria are as follows: **None Required**

Pursuant to ORS 279A.120, awards shall be subject to preference for products produced or manufactured in Oregon, providing that price, fitness and quality are equal. In determining the lowest responsible bidder, City shall add a percent increase to each out-of-state bidder's bid price which is equal to the percent of preference given to local bidders in the bidder's home state, as set forth in the chart located at [www.oregon.gov/DAS/EGS/ps/Pages/RecipPref/detail\\_a\\_main\\_page.aspx](http://www.oregon.gov/DAS/EGS/ps/Pages/RecipPref/detail_a_main_page.aspx) The deadline to file a written protest or request, pursuant to Instruction to Bidders to change Contract terms, conditions or specifications is not less than ten (10) calendar days prior to the bid submission deadline. The bid submission deadline may be extended by the City to consider a protest or request.

Project Contacts: Sharon Darroux, Engineering Manager, (503) 366-8243 or [sdarroux@sthelensoregon.gov](mailto:sdarroux@sthelensoregon.gov); or Alexander Bird, P.E., Engineer II, (503) 366-8223 or [abird@sthelensoregon.gov](mailto:abird@sthelensoregon.gov)

The City of St. Helens requires all contractors to comply with the City's adopted Nondiscrimination and Equal Opportunity Policies, a copy of which can be obtained from the City Project Manager, supra. The City's programs, services, employment opportunities, volunteer positions and contracts are open to all persons without regard to race, color, religion, sex, sexual orientation, national origin, marital status or age if the individual is 18 years of age or older. Contractor shall comply with all federal, state, and local laws and ordinances applicable to the Work under this Contract, including, without limitation, ORS chapter 279A-C, and Title VI of the Civil Rights Act of 1964, Section V of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, ORS 659A.142, and all regulations and administrative rules established pursuant to those laws, and all other applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations. Contractor shall certify that the Contractor has not discriminated against minorities, women or emerging small businesses in obtaining any required subcontracts.

Part 1

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# **Bid Documents**



**COLUMBIA BOULEVARD SIDEWALK,  
PROJECT NO. R-679A  
FIRM OFFER (BID) AND SCHEDULE OF PRICES**

TO FURNISH ALL PERMITS, LABOR, TOOLS, MACHINERY, MATERIALS, TRANSPORTATION, EQUIPMENT AND SERVICES OF ALL KINDS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT FOR THE CITY OF ST. HELENS, COLUMBIA COUNTY, OREGON, AS STATED IN THE COMPLETED SCHEDULE OF PRICES, ALL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PLANS, SPECIFICATIONS, AND DRAWINGS WHICH ARE ON FILE AT THE CITY OF ST. HELENS, CITY HALL, 265 STRAND STREET, ST. HELENS, OREGON 97051.

<b>NAME OF BIDDER:</b> _____
<b>CONTACT:</b> _____
<b>ADDRESS:</b> _____
<b>CITY</b> _____ <b>STATE</b> _____ <b>ZIP</b> _____
<b>TELEPHONE NO.:</b> _____
<b>FAX NO.:</b> _____
<b>EMAIL ADDRESS:</b> _____

To the Honorable Mayor and City Council  
City Hall  
City of St. Helens  
265 Strand Street  
St. Helens, Oregon 97051

In response to competitive bidding, this FIRM OFFER is submitted as an offer by the undersigned to enter into a contract with the City of St. Helens for furnishing all permits, labor, tools, machinery, materials, transportation, equipment and services of all kinds required for, necessary for, or reasonable incidental to, the construction of this Project for the City of St. Helens, Oregon, as shown in the Contract Documents on file at City Hall, 265 Strand Street, St. Helens, Oregon, and which are a condition of this Offer as though they were attached. This offer is subject to the following declarations as to the acts, intentions and understandings of the undersigned and the agreement of the City of St. Helens to the terms and prices herein submitted.

1. The undersigned has familiarized themselves with the nature and extent of the Contract Documents, project Work, site, locality, general nature of Work to be performed by City or others at the site that relates to the project Work required by the Contract Documents, local conditions, and federal state, and local Laws and Regulations that in any manner may affect cost, progress, performance, or furnishing of the project Work.
2. The undersigned has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) examinations, investigation, exploration, tests, and studies which pertain to the conditions (subsurface or physical) at or contiguous to the site or otherwise and which may affect the cost, progress, performance, or furnishing of the project Work as Contractor deems necessary for the performance and furnishing of the project Work at the Contract Price, within the Contract Time, and in accordance with the other terms and conditions of the Contract Documents; and no additional or supplementary examinations, investigations, explorations, tests, reports, or similar information or data are or will be required by Contractor for such purposes.
3. All of the Contract Documents, including all plans, specifications, and drawings have been examined and an examination of the site of the proposed Work, together with such investigations as are necessary to determine the conditions to be encountered have been made by the undersigned and the terms and conditions of the Contract and solicitation documents are hereby accepted, and that if this Offer is accepted, the undersigned will contract with the City of St. Helens, Oregon, using the form attached and agrees to be bound to the terms and conditions of said Contract and solicitation documents.
4. It is understood that the contract drawings may be supplemented by additional drawings and specifications in explanation and elaboration thereof and, if they are not in conflict with those referred to in paragraph 1 above, they

shall have the same force and effect as though they were attached and they shall be accepted as part of the Contract when issued.

5. The undersigned agrees that upon written acceptance of this bid s/he/it will, within ten working days, of receipt of such notice, execute a formal contract agreement with the City. The undersigned further agrees that s/he/it will provide the following in order to execute the Contract:

- Performance Bond and Payment Bond, both in the amount equal to 100% of the awarded Contract;
- Proof of filing of a Public Works Bond in the required statutory amount with BOLI
- Certificates of Insurance for all required insurance coverages;
- Certificates of Coverage for Workman Compensation and unemployment insurance; and
- All other bonds, permits, licenses, etc. as required in the Contract Documents.

6. The quantities stated in the Schedule of Prices are approximate only and payment will be made at the unit prices stated for the actual quantities incorporated in the completed Work. If there is an increase in the total payment for an item covered by a lump sum price, it shall be computed on the basis of extra work for which an increase in payment will have been earned; and if there is a decrease in a lump sum payment for any such items, it shall be made only as the result of negotiation between the undersigned and the City.

**BID SCHEDULE  
COLUMBIA BOULEVARD SIDEWALK, PROJECT NO. R-679A**

Item No	Description	Unit	Estimated Quantity	Unit Price	Estimated Total Price
0210-0100000A	MOBILIZATION, BONDS, INSURANCE, AND DEMOBILIZATION	LS	1		
0221-0101000A	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS	1		
0280-0100000A	EROSION CONTROL	LS	1		
0305-0100000A	CONSTRUCTION SURVEY WORK	LS	1		
0310-0106000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1		
0310-0119000F	ASPHALT PAVEMENT SAW CUTTING	FOOT	1,300		
0320-0100000A	CLEARING AND GRUBBING	LS	1		
0330-0123000K	EMBANKMENT IN PLACE	CUYD	1,560		
0350-0104000J	RIPRAP GEOTEXTILE, TYPE 2	SQYD	170		
0350-0105000J	SUBGRADE GEOTEXTILE	SQYD	1,250		
0390-0139000E	RIPRAP BASINS	EACH	3		
0445-035012AF	12 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	301		
0445-010030BF	30 INCH CULVERT PIPE, 10 FT DEPTH	FOOT	62		

0445-0700120E	SLOPED END SECTIONS, 12 INCH	EACH	2		
0445-0700300E	SLOPED END SECTIONS, 30 INCH	EACH	1		
470	CONCRETE INLETS, TYPE ST. HELENS	EACH	3		
0490-0100000E	ADJUSTING BOXES	EACH	1		
0490-0105000E	ADJUSTING INLETS	EACH	2		
0490-0120000E	MINOR ADJUSTMENT OF MANHOLES	EACH	1		
0596-B002000A	RETAINING WALL, PREFABRICATED MODULAR GRAVITY, WALL 1	LS	1		
0596-B002000A	RETAINING WALL, PREFABRICATED MODULAR GRAVITY, WALL 2	LS	1		
0640-0100000M	AGGREGATE BASE	TON	750		
0740-0100000M	COMMERCIAL ASPHALT CONCRETE PAVEMENT	TON	5		
0744-0202000M	LEVEL 2, 1/2 INCH ACP MIXTURE	TON	250		
0759-0103000F	CONCRETE CURBS, CURB AND GUTTER	FOOT	1,260		
0759-0110000F	CONCRETE CURBS, STANDARD CURB	FOOT	50		
0759-0126000J	CONCRETE DRIVEWAYS	SQFT	250		
0759-0128000J	CONCRETE WALKS	SQFT	6,500		
0759-0510000J	TRUNCATED DOMES ON NEW SURFACES	SQFT	62		
0759-0154100E	EXTRA FOR NEW CURB RAMPS	EACH	2		
0860-0200000F	LONGITUDINAL PAVEMENT MARKINGS - PAINT	FOOT	3,700		
0867-0145100J	PAVEMENT BAR, TYPE B-HS	SQFT	20		
0867-0131000E	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE STENCIL	EACH	1		
0905-0101000A	REMOVE AND REINSTALL EXISTING SIGNS	LS	1		
0990-0106000A	FLASHING BEACON INSTALLATION, AT MCBRIDE ELEMENTARY SCHOOL CROSSING	LS	1		

1030-0108000R	PERMANENT SEEDING	ACRE	0.25		
1040-0101000K	TOPSOIL	CUYD	160		
1040-0107000K	SOIL CONDITIONER	CUYD	75		
1040-0132000E	DECIDUOUS TREES, 2.5 INCH CALIPER	EACH	17		
1040-0193000K	WOOD CHIP MULCH	CUYD	10		
1040-0206000F	ROOT BARRIER	FOOT	340		
1050-0135000F	CL4R CHAIN LINK FENCE	FOOT	202		
<b>TOTAL PRICE</b>			<b>\$</b>		

*\*Abbreviations:*    *LS: Lump sum*    *FOOT: Linear Feet*    *EACH: Each*    *CUYD: Cubic Yard*    *SQFT: Square Foot*

The following base bid of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) is proposed for the project as described in the Contract Documents.

7. All items in the Schedule of Prices have been completed in full by showing a unit or lump sum price or prices for each and every item thereof. The price per item shall be clearly shown in the space provided. The pricing shall be extended to show the total when required.
8. The undersigned submits the unit prices as those at which he will perform the Work involved. The extensions of the column headed "ITEM TOTAL" are made for the sole purpose of facilitating bid comparisons and if there are any discrepancies between the unit prices and the total amount shown, the unit prices shall govern.
9. The undersigned agrees to furnish labor, tools, machinery, materials, transportations, equipment and services of all kinds required for, necessary for, or reasonably incidental to, construction of this Project with all appurtenant Work as required by the plans and specifications of this Offer for the unit or lump sum prices in the "SCHEDULE OF PRICES".
10. In stating prices, it is understood that the prices include all materials and Work required to complete the Contract in accordance with the plans and specifications. If any material, item or service required by the plans and specifications has not been mentioned specifically in the "SCHEDULE OF PRICES", the same shall be furnished and placed with the understanding that the full cost to the City has been merged with the several prices stated in the "SCHEDULE OF PRICES".
11. The undersigned shall furnish bonds required by the specifications and comply with the laws of the State of Oregon which are pertinent to construction contracts of this nature even though such laws may not have been quoted or referred to in the specifications.
12. Accompanying this Offer is a certified check, cashier's check or a bid bond, in the sum of \$ \_\_\_\_\_, payable to the City of St. Helens, Oregon, this being an amount for ten percent (10%) of the total bid based upon the estimate of quantities at the above price according to the conditions of the advertisement. If this Offer is accepted by the City and the undersigned fails to execute a satisfactory contract and bonds as stated in the Advertisement within ten (10) working days from the date of notification, then the City may, at its option, determine that the undersigned has abandoned the contract and there upon this Offer shall be considered null and void, and the bid security accompanying this Offer shall be forfeited to and become the property of the City of St. Helens. If bid is not accepted, bid security accompanying this Offer shall be returned to the undersigned.
13. The undersigned agrees to be bound by and will comply with the provisions of ORS 279C.838 or 279C.840 or 40 U.S.C. 3141 to 3148, the Oregon Prevailing Wage law or the Federal Davis Bacon Act, as applicable.
14. The undersigned certifies that the undersigned Contractor is not ineligible to receive a contract for a public work pursuant to ORS 279C.860. Bidder further agrees, if awarded a contract, that every subcontractor will be eligible to receive a contract for a public work pursuant to ORS 279C.860.

15. The undersigned certifies that he undersigned Contractor has not discriminated against minority, women or emerging small businesses enterprises in obtaining any required subcontracts. The bidder understands and acknowledges that it may be disqualified from bidding on this public improvement project as set forth in OAR 137-049-0370, including but not limited to City discovery a misrepresentation or sham regarding a subcontract or that the Bidder has violated any requirement of ORS 279A.110 or the administrative rules implementing the Statute.
16. The undersigned agrees that the time of completion shall be defined in the specifications, and further, the undersigned agrees to initiate and complete this Project by the date stated below.

The Work shall be commenced within five working days after receipt of the written Notice to Proceed.  
The Work shall be completed in all respects within 342 calendar days following issuance of the Notice to Proceed and shall be completed no later than December 31<sup>st</sup>, 2023.
17. The undersigned bidder is licensed by the Oregon Construction Contractors Board, the registration is current and valid, and the bidder's registration number is stated below.
18. If applicable, the undersigned bidder is licensed by the State Landscape Contractors Board, the license is current and valid, and the bidder's registration number is stated below.
19. The undersigned acknowledges that, in determining the lowest responsible bidder, City shall, for the purpose of awarding the Contract, add a percent increase to each out-of-state bidder's bid price which is equal to the percent of preference given to local bidders in the bidder's home state, as set forth in the chart located at [www.oregon.gov/DAS/EGS/ps/Pages/RecipPref/detail\\_a\\_main\\_page.aspx](http://www.oregon.gov/DAS/EGS/ps/Pages/RecipPref/detail_a_main_page.aspx). "Resident bidder" of Oregon means a bidder that has paid unemployment taxes or income taxes in this state during the 12 calendar months immediately preceding submission of the bid, has a business address in this state and has stated in the bid that the bidder is a "resident bidder" of the State of Oregon. The undersigned represents him/her/it in this bid to be either a Resident or a Nonresident bidder by completing the appropriate blank below.
20. The undersigned hereby represents that no Commissioner, officer, agency or employee of the City of St. Helens is personally interested directly or indirectly in this Contract or the compensation to be paid hereunder and that no representation, statement or statements, oral or in writing, of the City, its Councilors, officers, agents or employees had induced him/her to enter into this Contract, and the documents made a part of its terms.
21. The undersigned has not directly or indirectly induced or solicited any person to submit a false or sham bid or refrain from bidding. The undersigned certifies that this bid has been arrived at independently and submitted without connection with any person, firm or corporation making a bid for the same project and is, in all respects, fair and without collusion or fraud.
22. The undersigned confirms that this firm has a Qualified Drug Testing Program for employees in place and will demonstrate this prior to award of Contract.
23. The undersigned confirms that if this Contract involves asbestos abatement or removal, the bidder is licensed under ORS 468A.710 for asbestos removal. Asbestos abatement is not implicated in this Contract.
24. The City of St. Helens may waive minor informalities, reject any bid not in compliance with all prescribed public bidding procedures and requirements, and may reject for good cause any or all bids upon a finding that it is in the public interest to do so.
25. The undersigned confirms that this offer is not contingent upon City's acceptance of any terms and conditions other than those contained in the Solicitation and Contract Documents.
26. The bidder acknowledges that the Addendum(s) listed below have been reviewed online or a copy obtained and considered as part of the submittal of this Offer and Schedule of Prices. **ADDENDA NUMBERED [REDACTED] THROUGH [REDACTED] HAVE BEEN REVIEWED.**

27. Bidder information and signature.

---

**NAME OF BIDDER**

**BIDDER IS A RESIDENT OF THE STATE OF** \_\_\_\_\_  
(See ORS 279A.120)

**CONSTRUCTION CONTRACTORS BOARD LICENSE NO** \_\_\_\_\_

---

**SIGNATURE OF BIDDER'S AUTHORIZED REPRESENTATIVE**

---

OFFICIAL TITLE OF BIDDER'S AUTHORIZED REPRESENTATIVE

---

**DATE BID IS SIGNED**

**FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM**

**COLUMBIA BOULEVARD SIDEWALK**

Project No. R-679A

**City of St. Helens, Oregon**

Person designated to receive form: John Walsh, City Administrator Phone #: 503-397-6272

**BID SUBMISSION DEADLINE** Date: December 15, 2022 Time: 2:00pm AM PM

If the bid is more than \$100,000 this form must be submitted at the location specified in the Invitation to Bid on the advertised bid submission deadline and within two (2) working hours after the advertised bid submission deadline.

List below the Name, Dollar Value and Category of Work of each subcontractor that will be furnishing labor or labor and materials and that is required to be disclosed, the dollar value of the subcontract and the category of work that the subcontractor will be performing. Enter "NONE" if there are no subcontractors that need to be disclosed. (ATTACH ADDITIONAL SHEETS IF NEEDED).

SUBCONTRACTOR NAME	DOLLAR VALUE	CATEGORY OF WORK

The above listed first-tier subcontractor(s) are providing labor or labor and materials with a Dollar Value equal to or greater than:

- a) 5% of the total Contract Price, or \$15,000 whichever is greater (including all alternates). If the Dollar Value is less than \$15,000 do not list the subcontractor above; or
- b) \$350,000 regardless of the percentage of the total Contract Price.

Failure to submit this form by the disclosure deadline will result in a non-responsive bid. A non-responsive bid will not be considered for award. THIS DOCUMENT SHALL NOT BE FAXED. IT IS THE RESPONSIBILITY OF BIDDERS TO SUBMIT THIS DISCLOSURE FORM AND ANY ADDITIONAL SHEETS BY THE DEADLINE. SEE INSTRUCTIONS TO BIDDERS.

Deliver form to: City Administrator  
City Hall, City of St. Helens  
265 Strand Street  
St. Helens, OR 97051

Form Submitted by (Bidder Name): \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

## FIRST TIER SUBCONTRACTORS

Each first-tier subcontractor must disclose the following information before the Notice To Proceed shall be issued:

(Make additional copies as needed for each subcontractor)

**Subcontractor/Address:** \_\_\_\_\_

For: \_\_\_\_\_

\$ \_\_\_\_\_

Builders Board No. \_\_\_\_\_ Expires \_\_\_\_\_

Worker's Comp. Verified:       Yes       No

Insurance Company \_\_\_\_\_ Policy No. \_\_\_\_\_ Expires \_\_\_\_\_

City of St Helens Business License \_\_\_\_\_



**CITY OF ST. HELENS  
STANDARD PUBLIC IMPROVEMENT CONTRACT  
BID BOND SURETY**

We, \_\_\_\_\_, a corporation or partnership duly organized under the laws of the State of \_\_\_\_\_, and authorized to transact business in the State of Oregon, as "PRINCIPAL", and,

We, \_\_\_\_\_, a corporation or partnership duly organized under the laws of the State of \_\_\_\_\_, and authorized to transact business in the State of Oregon, as "SURETY",

hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto the City of St. Helens, Oregon, (OBLIGEE) the sum of:  
(\$ \_\_\_\_\_)

\_\_\_\_\_ Dollars.

The condition of the obligation of this bond, is that the PRINCIPAL herein has in response to City's *Notice to Contractors and Invitation to Bid*, submitted its Offer for the **COLUMBIA BOULEVARD SIDEWALK**, which Offer is incorporated herein and made a part hereof by this reference, and Principal is required to furnish bid security in an amount equal to ten (10%) percent of the total amount of the bid pursuant to ORS 279C.365 and the City's public contracting rules and contract documents.

NOW THEREFORE, if the Offer, submitted by PRINCIPAL, is accepted, and if the Contract pursuant to the Offer is awarded to the PRINCIPAL, and if the PRINCIPAL executes such Contract and furnishes such good and sufficient Performance and Payment Bonds as required by the Bidding and Contract Documents within the time specified and fixed by the Documents, then this obligation shall be void; otherwise it shall remain in full force and effect. If the PRINCIPAL shall fail to execute the proposed Contract and to furnish the Performance and Payment Bonds, the SURETY hereby agrees to pay the OBLIGEE the surety bond sum as liquidated damages within ten (10) days of such failure.

IN WITNESS WHEREOF, we have caused this instrument to be executed and sealed by our duly authorized legal representatives this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Surety

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

By: \_\_\_\_\_  
[A certified copy of the Agent's Power of Attorney must be attached hereto.]

By: \_\_\_\_\_ Attorney-in-Fact

## Part 2

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# Contract Documents



**CITY OF ST. HELENS, OREGON  
STANDARD PUBLIC IMPROVEMENT  
CONTRACT**

**COLUMBIA BOULEVARD SIDEWALK**

**Project No. R-679A**

This Contract is between the CITY OF ST. HELENS, a municipal corporation of the State of Oregon (City) and [REDACTED] (Contractor). The City's Project Manager for this Contract is Alexander Bird.

**1. Effective Date and Duration**

This Contract is effective on [REDACTED], 20[REDACTED], or on the date at which every party has signed this Contract, whichever is later. The Work under this Contract shall, unless otherwise terminated or extended, be completed on or before December 31, 2023.

**2. Statement of Work**

General description of the Work and quantities:

The General Character of the Work under this Contract includes the construction of approximately 1260 feet of concrete curb & gutters, sidewalk, retaining walls, curb ramps, storm drainage and the installation of a rapid flashing beacon along Columbia Blvd. Work also includes the installation, maintenance, and removal of temporary traffic control and erosion control measures, rock excavation, and the removal and replacement of existing pavement.

The Work is fully described in the Contract Documents, which are hereby incorporated herein and made a part hereof by this reference. The statement of work, including the delivery schedule for the Work, is contained in **Exhibit A**. Contractor shall, at its own risk and expense, perform the Work described in the Contract Documents and furnish all permits, labor, tools, machinery, materials, transportation, equipment and services of all kinds required for, necessary for, or reasonable incidental to, performance of the Work, that is, the construction of this Project for the City of St. Helens, Oregon, as shown in the Contract Documents. Contractor shall secure all Municipal, County, State, or Federal Permits or licenses including but not limited to payment of permit fees, license fees and royalties necessary or incident to performance of the Work on this Contract. The risk of loss for such Work shall not shift to the City until written acceptance of the Work by the City.

**3. Consideration**

a. City agrees to pay Contractor, at the times and in the manner provided in the Contract Documents, the sum of \_\_\_\_\_ (\$ \_\_\_\_\_) for accomplishing all the Work required by this Contract and the Contract Documents.

b. Any progress payments to Contractor shall be made only in accordance with the schedule and requirements in **Exhibit A**, if applicable, and Section 21 of the Standard Terms and Conditions for Public Improvement Contracts.

c. City certifies that sufficient funds have been appropriated to make payments required by this Contract during the current fiscal year. Payment for Work performed after June 30 of any given year is subject to funds being appropriated by the St. Helens City Council. If funds are not appropriated, the City may terminate this Contract for convenience by notice to the Contractor.



**CITY OF ST. HELENS**  
**STANDARD TERMS AND CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS**

**1. Contractor is Independent Contractor**

- a. Contractor shall perform the Work required by this Contract as an independent contractor. Although the City reserves the right (i) to specify the desired results; (ii) to determine (and modify) the delivery schedule for the Work to be performed; and (iii) to evaluate the quality of the completed performance, the City cannot and will not control the means, methods or manner of the Contractor's performance. The Contractor is responsible for determining the appropriate means, methods and manner of performing the Work.
- b. The Contractor represents and warrants that Contractor (i) is not currently an employee of the federal government or the State of Oregon, and (ii) meets the specific independent contractor standards of ORS 670.600, as certified on the Independent Contractor Certification Statement attached as Exhibit C.
- c. Contractor will be responsible for any federal, state or local taxes applicable to any compensation or payment paid to Contractor under this Contract.
- d. Contractor is not eligible for any federal Social Security, unemployment insurance, state Public Employees' Retirement System, or workers' compensation benefits from compensation or payments to Contractor under this Contract.

**2. Subcontracts and Assignment**

Contractor shall not subcontract any of the Work required by this contract, or assign, sell, dispose of, or transfer any of its interest in this contract, nor delegate duties under the contract, either in whole or in part, without the prior written consent of the City. Such consent, if provided, shall not relieve the Contractor of any of the obligations under the contract. Any assignee or transferee shall be considered the agent of the Contractor and be bound to abide by all provisions of the Contract. Contractor agrees that if subcontractors are employed in the performance of this contract, the Contractor and its subcontractors are subject to the requirements and sanction of ORS Chapter 656, Workers' Compensation.

Use of Subcontractors, material suppliers or equipment suppliers shall in no way release Contractor from any obligations of the Contract with City. Contractor will provide in all subcontract agreements that the Subcontractor, material supplier and equipment supplier will be bound by the terms and conditions of this Contract to the extent that they relate to the Subcontractor's work, material or equipment. All subcontracts are assignable to the City at City's option, in the event this agreement is terminated for default of Contractor.

**3. No Third Party Beneficiaries**

City and Contractor are the only parties to this Contract and are the only parties entitled to enforce its terms. Nothing in this contract gives or provides any benefit or right, whether directly, indirectly, or otherwise, to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of this Contract.

**4. Successors in Interest**

The provisions of this Contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective successors and approved assigns, if any.

**5. Contract Documents**

The Contract Documents, which comprise the entire Contract between the City and Contractor, include all sections or parts of the bid package however denominated, including all documents and plans attached or referenced therein, the Notice to Contractors - Invitation to Bid, Offer, First-Tier Subcontractors Disclosure Form, Surety Bid Bond, Public Improvement Contract, Contract Standard Terms and Conditions and Exhibits thereto, Performance Bond, Payment Bond, Special Provisions, Plans entitled **COLUMBIA BOULEVARD SIDEWALK, PROJECT R-679A**, Construction Drawings, Standard Drawings, and Contract Addendums, all attached hereto, and incorporated herein by this reference, together with the Prevailing Wage (BOLI) if applicable AND any other separately bound reference, 2021 Oregon Standard Specifications for Construction, the City of St. Helens Engineering Department Public Facilities Construction

Standards Manual Appendix to St. Helens Community Development Code, incorporated herein by this reference. All exhibits, schedules and lists attached to the Contract Documents, or delivered pursuant to the Contract Documents, shall be deemed a part of the Contract Documents and incorporated herein, where applicable, as if fully set forth herein.

#### **6. Contractor's Representations**

By executing this Contract, the Contractor hereby certifies that the representations made by the Contractor in the Contract Documents, including specifically the Offer, are true and correct and are incorporated herein by this reference. Contractor further certifies that Contractor has given the City written notice of conflicts, errors, ambiguities, or discrepancies that it has discovered in the Contract Documents, and the written resolution thereof by the City is acceptable to the Contractor, and the Contract Documents are generally sufficient to indicate and convey understanding of terms and conditions for performing and furnishing the Project Work.

#### **7. Drug Testing**

Contractor shall demonstrate to the City that it has a drug-testing program in place.

#### **8. Notice to Proceed**

Written Notice to Proceed will be given by the City after the Contract has been executed and the performance bond, payment bond, public works bond and all required insurance documents approved, and a pre-construction meeting has been held with the Contractor's and City's key personnel. Notice to proceed shall not be unreasonably delayed and shall generally occur within thirty (30) days of the Contract Date. Reasonable delay may be occasioned by the need to obtain necessary permits or easements or utility relocation. The Contractor shall commence the project Work within five (5) days of the date of the written Notice to Proceed. Contractor is not to commence Work under the Contract prior to such written notice.

#### **9. Suspension of the Work**

The City, and its authorized representatives, may suspend portions or all of the project Work due to causes including, but not limited to:

- a. Failure of the Contractor to correct unsafe conditions;
- b. Failure of the Contractor to carry out any provision of the Contract;
- c. Failure of the Contractor to carry out orders;
- d. Conditions, in the opinion of the City, which are unsuitable for performing the project Work;
- e. Allowance of time required to investigate differing site conditions;
- f. Any reason considered to be in the public interest.

The Contract Time will not be extended, nor will the Contractor be entitled to any additional compensation, if the Work is suspended pursuant to subsections (a), (b) or (c). If the Project Work is suspended pursuant to subsection (f), the Contractor is entitled to a reasonable extension of the contract time and reasonable compensation for all verified costs resulting from the suspension plus a reasonable allowance for overhead with respect to such costs. Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such suspension. The foregoing provision concerning compensation in the event of a suspension of Work of this Contract shall not apply if such suspension occurs as a result of the Contractor's violation of any Federal, State, or Local statutes, ordinances, rules or regulations, or as a result of any violation by the Contractor of the terms of this Contract, including a determination by the City that the Contractor has not progressed satisfactorily with the Work in accordance with specifications.

#### **10. Early Termination**

The City and the Contractor, by mutual written agreement, may terminate this Contract at any time.

The City may terminate this Contract, in whole or in part, at any time for any reason considered by the City, in the exercise of its sole discretion, to be in the public interest. The City will provide the Contractor, and the Contractor's surety, seven (7) days prior written notice of a termination for convenience.

The City may terminate this Contract in the event of a material breach of the Contract by the Contractor. Prior to such default termination, however, the City shall give to the Contractor written notice of the breach and the intent to terminate for default. If the Party has not cured the breach within 15 days of the date of the notice (or if the breach cannot be cured in 15 days, Contractor has provided a cure plan that has been accepted by City and is making substantial progress in curing), then the City may terminate the Contract for default by giving a written notice of termination for default.

Any termination for default that is found to be improper for any reason shall be converted to a termination for convenience and Contractor's remedies shall be limited as if the termination had been one for convenience at inception.

#### **11. Payment on Early Termination**

- a. If this Contract is terminated by mutual agreement, the City shall pay the Contractor for Work performed in accordance with the Contract prior to the termination date in an amount agreed to by the parties as part of the termination agreement. Contractor shall not be entitled to any amount for overhead or profit on uncompleted Work.
- b. If this Contract is terminated by the City for convenience, City shall pay the Contractor for Work properly completed before the termination for convenience, along with costs incurred by Contractor due to the termination. Contractor shall not be entitled to any amount for overhead or profit on uncompleted Work. Contractor shall remain liable for Work performed prior to the termination for convenience.
- c. If this Contract is terminated by the City for default due to a material, uncured breach by the Contractor, then the City shall pay the Contractor, if applicable, as provided Section 12, Remedies for Default. Contractor shall remain liable for Work performed prior to the termination for default.

#### **12. Remedies for Default**

In the event of a termination for default by City due to a material, uncured breach by the Contractor, payment to Contractor will be immediately suspended. The City may proceed to complete the Work either itself, by agreement with another contractor, or by a combination thereof. In the event the cost of completing the Work exceeds the remaining unpaid balance of the total compensation provided under this Contract, then the Contractor shall pay to the City the amount of the excess procurement costs within 14 days of written demand. To the extent that the procurement costs are lower than the remaining unpaid balance under this Contract, the City shall pay such difference to Contractor. After notice of termination for default, the Contractor and the Contractor's surety shall provide the City with immediate and peaceful possession of the Project site and premises, and materials located on and off the Project site and premises for which the Contractor received progress payment.

The remedies provided to the City under this Contract for a material, uncured breach by the Contractor shall not be exclusive. The City also shall be entitled to any other contractual, equitable or legal remedies that are available.

#### **13. Access to Records**

Contractor shall maintain and the City and its authorized representatives shall have access to all books, documents, papers and records of Contractor which relate to this Contract for the purpose of making audit, examination, excerpts, and transcripts for a period of ten years after final payment. Contractor shall follow generally accepted accounting principles. Copies of applicable records shall be made available upon request at no charge to City. Failure to keep records for the required period shall be deemed a spoliation of evidence.

#### **14. Ownership of Work Product**

All work products of the Contractor that result from this Contract, including but not limited to background data, documentation and staff work that is preliminary to final reports, are the property of City. Draft documents and preliminary work submitted to the City for review and comment shall not be considered as owned, used or retained by the City until the final document is submitted.

The City shall own all proprietary rights, including but not limited to copyrights, trade secrets, patents and all other intellectual or other property rights in and to such work products. Preexisting trade secrets of the Contractor shall be noted as such and shall not be considered as a work product of this Contract. All such work products shall be considered "works made for hire" under the provisions of the United States Copyright Act and all other equivalent laws.

Use of any work product of the Contractor by the City for any purpose other than the use intended by this contract is at the risk of the City. Use of any work product by Contractor for other than this Project is prohibited without the written consent of the City.

**15. Compliance with Applicable Law**

Contractor shall comply and require all Subcontractors to comply with all federal, state, and local laws and ordinances, and City contracting rules applicable to the work under this contract, including without limitation ORS Chapter 279A-C and specifically ORS 279A.110, 279A.120, 279A.125, 279C.365, 279C.370, 279C.375, 279C.380, 279C.505, 279C.510, 279C.515, 279C.520, 279C.525, 279C.527, 279C.528, 279C.530, 279C.540, 279C.545, 279C.555, 279C.560, 279C.565, 279C.570, 279C.580, 279C.585, 279C.600 to 279C.625, 279C.650 to 279C.670, and ORS 279C.800 to 279C.870, if applicable.

- a. Contractor shall:
  - 1) Make payment promptly, as due, to all persons supplying to the Contractor labor or material for the performance of the Work provided for in the Contract;
  - 2) Pay all contributions or amounts due the Industrial Accident Fund from the Contractor or subcontractor incurred in the performance of the Contract;
  - 3) Not permit any lien or claim to be filed or prosecuted against the state or a county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished;
  - 4) Pay to the Department of Revenue all sums withheld from employees under ORS 316.167;
  - 5) Demonstrate that an employee drug testing program is in place;
  - 6) To the extent the Work includes demolition, salvage or recycle construction and demolition debris, if feasible and cost-effective;
  - 7) To the extent the Work includes lawn and landscape maintenance, compost or mulch yard waste material at an approved site, if feasible and cost-effective.
  
- b. If the Contractor fails, neglects or refuses to pay promptly a person's claim for labor or services that the person provides to the contractor or a subcontractor in connection with the Contract as the claim becomes due, City may pay the amount of the claim to the person that provides the labor or services and charge the amount of the payment against funds due or to become due the Contractor by reason of the Contract.
  
- c. If the Contractor or its subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the Contract within 30 days after receiving payment from City, Contractor or its subcontractor owes the person the amount due plus interest charges that begin at the end of the 10-day period within which payment is due under ORS 279C.580 (4) and that end upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest on the amount due is nine percent per annum. The amount of interest may not be waived.
  
- d. If Contractor or its subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the public improvement contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580.
  
- e. Paying a claim in the manner authorized (b) through (d) above does not relieve the Contractor or the Contractor's surety from obligation with respect to an unpaid claim .
  
- f. No person may not be employed for more than 10 hours in any one day, or 40 hours in any one week, except in cases of necessity, emergency or when the public policy absolutely requires it, and in such cases the employee shall be paid at least time and a half pay:
  - 1)
    - i. For all overtime in excess of eight hours in any one day or 40 hours in any one week when the work week is five consecutive days, Monday through Friday; or
    - ii. For all overtime in excess of 10 hours in any one day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and
  - 2) For all work performed on Saturday and on any legal holiday specified in ORS 279C.540.



- g. Contractor shall give notice in writing to employees who work on Work covered by the Contract, either at the time of hire or before commencement of work on the Contract, or by posting a notice in a location frequented by employees, of the number of hours per day and days per week that the employees may be required to work.
- h. Contractor shall promptly, as due, make payment to any person, copartnership, association or corporation furnishing medical, surgical and hospital care services or other needed care and attention, incident to sickness or injury, to the employees of the Contractor, of all sums that the Contractor agrees to pay for the services and all moneys and sums that the Contractor collected or deducted from the wages of employees under any law, contract or agreement for the purpose of providing or paying for the services.
- i. Contractor shall comply with ORS 656.017 unless exempt under ORS 656.126.
- j. The withholding of retainage by Contractor and its subcontractors shall be in accordance with ORS 701.420.
- k. In accordance with ORS 279C.560, unless City finds in writing that accepting a bond, security or other instrument poses an extraordinary risk that is not typically associated with the bond, security or other instrument, City will approve the Contractor's written request to deposit bonds, securities or other instruments with the City or in a custodial account or other account satisfactory to City with an approved bank or trust company, to be held instead of cash retainage for the benefit of City. In such event, City will reduce the cash retainage by an amount equal to the value of the bonds, securities and other instruments. Interest or earnings on the bonds, securities and other instruments shall accrue to the Contractor. Bonds, securities and other instruments deposited instead of cash retainage shall be assigned to or made payable to City and shall be of a kind approved by the Director of the Oregon Department of Administrative Services, including but not limited to: Bills, certificates, notes or bonds of the United States; Other obligations of the United States or agencies of the United States; Obligations of a corporation wholly owned by the federal government; Indebtedness of the Federal National Mortgage Association; General obligation bonds of the State of Oregon or a political subdivision of the State of Oregon; or Irrevocable letters of credit issued by an insured institution, as defined in ORS 706.008. The Contractor shall execute and provide such documentation and instructions respecting the bonds, securities and other instruments as City may require to protect its interests. When City determines that all requirements for the protection of City's interest have been fulfilled, the bonds and securities deposited instead of cash retainage will be released to the Contractor. If City accepts a surety bond from Contractor in lieu of retainage, Contractor shall accept like bonds from its subcontractors or suppliers from which Contractor has retainage. Contractor shall then reduce the moneys Contractor holds as retainage in an amount equal to the value of the bond and pay the amount of the reduction to the subcontractor or supplier.
- l. City shall make progress payments on the Contract monthly as work progresses. Payments shall be based upon estimates of work completed that are approved by City. A progress payment is not considered acceptance or approval of any work or waiver of any defects therein. City shall pay to Contractor interest on the progress payment, not including retainage, due the Contractor. The interest shall commence 30 days after receipt of the invoice from the Contractor or 15 days after the payment is approved by City, whichever is the earlier date. The rate of interest charged to City on the amount due shall equal three times the discount rate on 90-day commercial paper in effect at the Federal Reserve Bank in the Federal Reserve district that includes Oregon on the date that is 30 days after receipt of the invoice from Contractor or 15 days after the payment is approved by City, whichever is the earlier date, but the rate of interest may not exceed 30 percent. Interest shall be paid automatically when payments become overdue. City shall document, calculate and pay any interest due when payment is made on the principal. Interest payments shall accompany payment of net due on the Contract. City will not require Contractor to petition, invoice, bill or wait additional days to receive interest due. When an invoice is filled out incorrectly, when there is any defect or impropriety in any submitted invoice or when there is a good faith dispute, City shall so notify Contractor within 15 days stating the reason or reasons the invoice is defective or improper or the reasons for the dispute. A defective or improper invoice, if corrected by Contractor within seven days of being notified by City, may not cause a payment to be made later than specified in this section unless interest is also paid. If requested in writing by a subcontractor, Contractor, within 10 days after receiving the request, shall send to the subcontractor a copy of that portion of any invoice, request for payment

submitted to City or pay document provided by City to Contractor specifically related to any labor or materials supplied by the subcontractor. Payment of interest may be postponed when payment on the principal is delayed because of disagreement between City and Contractor.

- m. City will reserve as retainage from all progress payment five percent (5%) of the payment. As work progresses, City may (but is not required) reduce the amount of the retainage and City may (but is not required) eliminate retainage on any remaining monthly contract payments after 50 percent of the Work under the Contract is completed if, in City's opinion, such work is progressing satisfactorily. Elimination or reduction of retainage shall be allowed only upon written application by Contractor, and the application shall include written approval of Contractor's surety. However, when the contract work is 97.5 percent completed, City may, at the City's sole discretion and without application by Contractor, reduce the retained amount to 100 percent of the value of the Work remaining to be done. Upon receipt of a written application by Contractor, the City shall respond in writing within a reasonable time. The retainage held by City shall be included in and paid to Contractor as part of the final payment of the Contract Price. City shall pay to Contractor interest at the rate of 1.5 percent per month on the final payment due Contractor, interest to commence 30 days after the work under the Agreement has been completed and accepted and to run until the date when the final payment is tendered to Contractor. Contractor shall notify City in writing when the contractor considers the work complete and Owner shall, within 15 days after receiving the written notice, either accept the work or notify Contractor of work yet to be performed on the Contract. If City does not, within the time allowed, notify Contractor of work yet to be performed to fulfill contractual obligations, the interest provided by this subsection shall commence to run 30 days after the end of the 15-day period.
- n. Contractor shall include in each subcontract for property or services the Contractor enters into with a subcontractor, including a material supplier, for the purpose of performing this Contract:
  - 1) A payment clause that obligates Contractor to pay subcontractor for satisfactory performance under the subcontract within 10 days out of amounts the City pays to Contractor under the Contract.
  - 2) A clause that requires Contractor to provide subcontractor with a standard form that the subcontractor may use as an application for payment or as another method by which the subcontractor may claim a payment due from Contractor.
  - 3) A clause that requires Contractor, except as otherwise provided in this paragraph, to use the same form and regular administrative procedures for processing payments during the entire term of the subcontract. Contractor may change the form or the regular administrative procedures Contractor uses for processing payments if Contractor: (i) Notifies the subcontractor in writing at least 45 days before the date on which the contractor makes the change; and (ii) Includes with the written notice a copy of the new or changed form or a description of the new or changed procedure.
  - 4) An interest penalty clause that obligates Contractor, if the Contractor does not pay the subcontractor within 30 days after receiving payment from City, to pay subcontractor an interest penalty on amounts due in each payment Contractor does not make in accordance with the payment clause included in the subcontract under paragraph 1) of this subsection. Contractor or subcontractor is not obligated to pay an interest penalty if the only reason that Contractor or subcontractor did not make payment when payment was due is that Contractor or subcontractor did not receive payment from City or Contractor when payment was due. The interest penalty: (i) Applies to the period that begins on the day after the required payment date and that ends on the date on which the amount due is paid; and (ii) Is computed at the rate specified in ORS 279C.515 (2).
- o. Contractor shall, in each of the Contractor's subcontracts, require the first-tier subcontractor to include a payment clause and an interest penalty clause that conforms to the standards of subsection (n) of this section in each of the first-tier subcontractor's subcontracts and to require each of the first-tier subcontractor's subcontractors to include such clauses in the first-tier subcontractors' subcontracts with each lower-tier subcontractor or supplier.

The requirements applicable to contractors set forth in these sections are all incorporated into this contract by this reference as though set forth herein in their entirety. Contractor also expressly agrees to comply with: (i) Title VI of the Civil Rights Act of 1964; (ii) Section V of the Rehabilitation Act of 1973; (iii) the Americans with Disabilities Act of 1990,

as amended (iv) ORS 659A.142, (v) all regulations and administrative rules established pursuant to those laws; and (vi) all other applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations. In addition, Contractor expressly agrees to comply with all federal and state tax laws. A condition or clause required by law to be in this contract shall be considered included and incorporated into the Contract and made a part as if set forth herein in its entirety.

#### **16. Licensing with Construction Contractor's Board**

The Contractor hereby certifies that the Contractor is licensed with the Construction Contractors Board in accordance with ORS 701.021 to 701.042 and, further, that all subcontractors performing work under this contract, unless exempt, shall also be licensed with the Construction Contractors Board before the subcontractors commence work under the contract.

#### **17. Prevailing Wages**

Contractor expressly agrees to be bound by and comply with prevailing rate of wage laws applicable to Contractor's Work in accordance with ORS 279C.800 et seq. The prevailing wage rates in effect when this Project was first advertised are hereby expressly incorporated into this Agreement by reference. Information on BOLI Prevailing Wage Rates may be obtained at the following site: [www.oregon.gov/BOLI/WHD/PWR/pwr\\_state.shtml](http://www.oregon.gov/BOLI/WHD/PWR/pwr_state.shtml). A copy of these rates may be requested by calling the Bureau of Labor and Industries directly (Bureau of Labor and Industries – (971) 673-0838). Information on the Federal Davis-Bacon Act rates may be obtained at the following site: [www.oregon.gov/ODOT/HWY/SPECS/wages.shtml](http://www.oregon.gov/ODOT/HWY/SPECS/wages.shtml). Contractor's workers must be paid not less than the specified minimum hourly rate of wage in accordance with ORS 279C.838 and 279C.840.

Contractor shall have a public works bond filed with the Construction Contractors Board and shall provide Owner with a copy of such bond before starting work unless Contractor is exempt under ORS 279C.836(4), (7), (8) or (9). Contractor shall include a similar provision in any subcontract.

Contractor shall keep the prevailing rates of wage for Project posted in a conspicuous and accessible place in or about the Project and, if it provides a health and welfare plan or pension plan or both, shall post a notice describing the plan, including information on how and where to make claims and where to obtain further information, in a conspicuous and accessible place in or about the Project.

Contractor shall furnish to City a weekly affidavit with supporting detailed exhibits in a form that complies with the certified statement requirements of ORS 279C.845, certifying wages paid and to whom during each proceeding weekly payroll period, for itself and all subcontractor who are required to submit such certified statements under ORS 279C.845. If Contractor has failed to timely submit a required certified statement, City, pursuant to ORS 279C.845(8), shall withhold twenty-five percent (25%) from any amount owed to Contractor until Contractor provides the required certified statement.

#### **18. Change Orders/Extra Work**

The Contractor agrees to complete this Contract in accordance with the attached specifications and requirements, including any change orders. A change order submitted by the City must be agreed upon by the Contractor and the City, and in the event of failure to so agree, the City may then proceed with any additional work in any manner the City may choose. A decision by the City to proceed to have work done by another party shall in no way relieve either the Contractor or City of this Contract and neither will such action be cause for collection of damages by either party to the contract, one from the other. Only the City Council or designated Contracting Officer with delegated contracting authority can authorize extra (and/or changed) work and compensation. Such authorization must be in writing. The parties expressly recognize that City personnel are not authorized to order extra (and/or) changed work or to waive contract requirements or authorize additional compensation. Failure of the Contractor to secure City authorization for extra work shall constitute a waiver of any and all claims or rights to adjustment in the Contract Price or Contract Time due to such unauthorized extra work and thereafter Contractor shall be entitled to no compensation whatsoever for the performance of such work. Contractor further expressly waives any and all right or remedy by way of restitution and quantum meruit for any and all extra work performed by Contractor without express and prior authorization of the City.

If Contractor proposes an alternative material, process or system to City, or supplies City with specifications or plans for use in the Project, Contractor warrants to City that such alternative material, process or system is adequate, accurate,

complete, fit for its intended purpose, and, if accepted by City, that an acceptable result will be achieved. Contractor, at its own cost, will remedy, any Work that violates this warranty until an acceptable result is achieved.

#### **19. Inspection and Acceptance**

Inspection and acceptance of all work required under this contract shall be performed by the City. The Contractor shall be advised of the acceptance or of any deficiencies in the deliverable items.

#### **20. Liquidated Damages**

City and Contractor recognize that time is of the essence of this Contract and that City will suffer substantial financial loss if the project work is not completed within the timeframe specified in Section (1) of the Public Improvement Contract. City and Contractor also recognize the difficulties involved in proving in a legal or other dispute resolution preceding the actual loss suffered by City if the project work is not completed on time. Accordingly, instead of requiring any such proof, City and Contractor agree that as liquidated damages for delay (but not as a penalty) the Contractor shall pay the City one hundred fifty dollars per day (\$150/day) for each and every day that elapses in excess of the Contract Time. This amount is a genuine pre-estimation of the damages expected because of a delay in the completion of this project.

Any sums due as liquidated damages shall be deducted from any money due or which may become due to the Contractor under this Contract. Payment of liquidated damages shall not release the Contractor from obligations in respect to the fulfillment of the entire contract, nor shall the payment of such liquidated damages constitute a waiver of the City's right to collect any additional damages which may be sustained by failure of the Contractor to complete the work on time. Permitting the Contractor to continue and finish the project work or any part thereof after the Contract Time has expired shall in no way operate as a waiver on the part of the City or any of its rights under this Contract. The City may in its discretion grant the Contractor an extension of time upon a showing made by the Contractor that the work has been unavoidably delayed by conditions beyond the control of Contractor.

#### **21. Liability, Indemnity and Hold Harmless**

Contractor warrants that all its work will be performed in accordance with the Contract Documents, in accordance with generally accepted practices and standards, as well as in accordance with the requirements of applicable federal, state, and local laws. Acceptance of Contractor's work by City shall not operate as a waiver or release.

The Contractor shall hold harmless, indemnify, and defend City, its officers, agents, and employees from any and all liability, actions, claims, losses, damages or other costs of whatsoever nature, including attorney's fees and witness costs (at both trial and appeal level, whether or not a trial or appeal ever takes place) that may be asserted by any person or entity arising from, during or in connection with the performance of the Work, actions or failure to perform actions, and other activities of Contractor or its officers, employees, subcontractors or agents, under this Contract, including the negligent professional acts, errors, or omissions of Contractor or its officers, employees, subcontractors, or agents. Such indemnification shall also cover claims brought against City under state or federal workers compensation laws. This indemnity provision excludes liability arising out of the sole negligence of the City and its employees.

The Contractor shall assume all responsibility for the work and shall bear all losses and damages directly or indirectly resulting to the Contractor, to the City, to the Engineer, and to their officers, agents, and employees on account of (a) the character or performance of the work, (b) unforeseen difficulties, (c) accidents, or (d) any other cause whatsoever. The Contractor shall assume this responsibility even if (a) fault is the basis of the claim, and (b) any act, omission or conduct of the City connected with the Contract is a condition or contributory cause of the claim, loss, damage or injury.

Contractor waives any and all statutory or common law rights of defense and indemnification by the City.

Contractor shall also defend and indemnify City from all loss or damage that may result from Contractor's wrongful or unauthorized use of any patented article or process.

If any aspect of the above indemnities shall be found to be illegal or invalid for any reason whatsoever, such illegality or invalidity shall be stricken to the extent illegal or invalid, with the remaining terms continuing to be valid, and such shall not affect the validity of the remainder of this indemnification.

Any specific duty or liability imposed or assumed by the Contractor as may be otherwise set forth in the Contract documents shall not be construed as a limitation or restriction of the general liability or duty imposed upon the Contractor by this section.

In the event any such action or claim is brought against the City, the Contractor shall, if the City so elects and upon tender by the City, defend the same at the Contractor's sole cost and expense, promptly satisfy any judgment adverse to the City or to the City and the Contractor jointly, and reimburse the City for any loss, cost, damage, or expense, including attorney fees, suffered or incurred by the City.

## **22. Insurance**

The Contractor shall provide and maintain during the life of this Contract the insurance coverage as described in Exhibit B. All costs for such insurance shall be borne by the Contractor and shall be included in the Contract Price. In case of the breach of any provision of this section, the City may elect to take out and maintain at the expense of the Contractor such insurance as the City may deem proper. The City may deduct the cost of such insurance from any monies that may be due or become due the Contractor under this Contract. Failure to maintain insurance as provided is a material breach and cause for default termination of the Contract. Contractor shall furnish City certificates of insurance acceptable to City prior to execution by the City and before Contractor or any subcontractor commences work under this Contract. The certificate shall show the name of the insurance carrier, coverage, type, amount (or limits), policy numbers, effective and expiration dates and a description of operations covered. The certificate will include the deductible or retention level and required endorsements. Insuring companies or entities are subject to City's acceptance. If requested, copies of insurance policies shall be provided to the City. Contractor shall be responsible for all deductibles, self-insured retention's, and/or self-insurance. Approval of the insurance shall not relieve or decrease the liability of the Contractor hereunder.

## **23. Bonds / Notice of Bond Claims**

At the time of execution of the Contract, the Contractor shall furnish Performance and Payment Bonds written by a corporate surety or other financial assurance in an amount equal to the amount of the Contract Price based upon the estimate of quantities or lump sum as set forth in the Contract. The bonds shall be continuous in effect and shall remain in full force and effect until compliance with and fulfillment of all terms and provisions of the Contract, including the warranty obligation of Section 24, all applicable laws and the prompt payment of all persons supplying labor and/or material for prosecution of the work. The bonds or other financial assurance is subject to approval by the City.

## **24. Two-Year Warranty**

- a. In addition to and not in lieu of any other warranties required under the Contract, Contractor shall make all necessary repairs and replacements to remedy, in a manner satisfactory to the City and at no cost to the City, any and all defects, breaks or failures of the Work occurring within two years following the date of final completion due to faulty or inadequate materials or workmanship. Contractor shall also repair any damage or disturbances to other improvements under, within, or adjacent to the Work, whether or not caused by settling, washing, or slipping, when such damage or disturbance is caused, in whole or in part, from activities of the Contractor in performing its duties and obligations under this Contract when such defects or damage occur within the warranty period. The two-year warranty period shall, with relation to such required repair, be extended two years from the date of completion of such repair.
- b. If Contractor, after written notice, fails within ten days to proceed to comply with the terms of this section, City may have the defects corrected, and the Contractor and Contractor's surety shall be liable for all expense incurred. If Contractor, after two attempts, fails to make all necessary repairs and replacements to remedy, in a manner satisfactory to the City, any identified defect, break or failure of the Work, Contractor will be deemed to be in breach of warranty and City may have the defects corrected, and the Contractor and Contractor's surety shall be liable for all expense incurred. In case of an emergency where, in the opinion of the City, delay would cause serious loss or damage, repairs may be made without notice being given to Contractor and Contractor or Surety shall pay the cost of repairs. Failure of the City to act in case of an emergency shall not relieve Contractor or Surety from liability and payment of all such costs.

## **25. Nondiscrimination in Labor**

Contractor shall comply with provisions of City's Equal Opportunity Policy and comply with ORS Chapter 659 and ORS Chapter 659A relating to unlawful employment practices and discrimination by employers against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, national origin, marital status or age if

the individual is 18 years of age or older, or because of the race, color, religion, sex, sexual orientation, national origin, marital status or age of any other person with whom the individual associates, or because of an individual's juvenile record that has been expunged pursuant to ORS 419A.260 and 419A.262 or to refuse to hire or employ or to bar or discharge from employment such individual or to discriminate against such individual in compensation or in terms, conditions or privileges of employment.

**26. Environmental Regulations**

- a. Pursuant to ORS 279C.525(1), the following is a list of federal, state and local agencies which have enacted ordinances or regulations dealing with the prevention of environmental pollution and the preservation of natural resources that may affect the performance of the Contract.

**Federal Agencies:**

- Agriculture, Department of Forest Service, Soil Conservation Service
- Defense, Department of Army Corps of Engineers Energy, Department of
- Federal Energy Regulatory Commission Environmental Protection Agency
- Health and Human Services, Department of
- Housing and Urban Development, Department of
- Solar Energy and Energy Conservation Bank
- Interior, Department of
- Bureau of Land Management, Bureau of Indian Affairs , Bureau of Mines , Bureau of Reclamation
- Geological Survey, Minerals Management Service
- U.S. Fish and Wildlife Service
- Labor, Department of Mine Safety and Health Administration Occupational Safety and Health Administration
- Transportation, Department of Coast Guard
- Federal Highway Administration
- Water Resources Council

**State Agencies:**

- Administrative Services, Department of
- Agriculture, Department of Columbia River Gorge
- Commission Consumer & Business Services, Department of
- Oregon Occupational Safety & Health Division
- Energy, Department of Environmental Quality, Department of Fish and Wildlife, Department of
- Forestry, Department of
- Geology and Mineral Industries, Department of
- Human Resources, Department of
- Land Conservation and Development Commission
- Parks and Recreation, Department of
- Soil and Water Conservation Commission
- State Engineer
- State Land Board (Lands, Division of State)
- Water Resources Department

**Local Agencies:**

- City of St. Helens City Council
- City Councils
  - County Courts
  - County Commissioners of Columbia County
  - Port Districts
  - County Service Districts
  - Sanitary Districts
  - Water Districts
  - Fire Protection Districts
  - Historical Preservation Commissions
  - Planning Commissions

If the Contractor awarded the project is delayed or must undertake additional Work by reason of the enactment of new statutes, ordinances, rules or regulations relating to the prevention of environmental pollution and the preservation of natural resources or the amendment of existing statutes, ordinances, rules or regulations relating to the prevention of

environmental pollution and the preservation of natural resources occurring after the submission of the successful bid, the City may:

- i. Terminate the contract;
  - ii. Complete the work itself;
  - iii. Use non-city forces already under contract with the City;
  - iv. Require that the underlying property owner be responsible for cleanup;
  - v. Solicit bids for a new contractor to provide the necessary services; or
  - vi. Issue the Contractor a change order setting forth the additional work that must be undertaken.
- b. The solicitation documents make specific reference to known conditions at the construction site that may require the Contractor to comply with the ordinances, rules or regulations identified above. If Contractor encounters a condition not referred to in the solicitation documents, not caused by the Contractor and not discoverable by a reasonable pre-bid visual site inspection, and the condition requires compliance with the ordinances, rules or regulations enacted by the governmental entities identified above, Contractor shall immediately give written notice of the condition to the City. Except in the case of an emergency and except as may otherwise be required by any environmental or natural resource ordinance, rule or regulation, the Contractor shall not commence work nor incur any additional job site costs in regard to the condition encountered and described in this section without written direction from City. Upon request by the City, the Contractor shall estimate the emergency or regulatory compliance costs as well as the anticipated delay and costs resulting from the encountered condition. This cost estimate shall be promptly delivered to the City for resolution. Within a reasonable period of time following delivery of an estimate of this section, the City may:
- i. Terminate the contract;
  - ii. Complete the work itself;
  - iii. Use non-city forces already under contract with the City;
  - iv. Require that the underlying property owner be responsible for cleanup;
  - v. Solicit bids for a new contractor to provide the necessary services; or
  - vi. Issue the Contractor a change order setting forth the additional work that must be undertaken.
- c. If the City chooses to terminate the contract under this section, the termination shall be treated as a termination for convenience with Contractor's remedies so limited. If the contracting agency causes work to be done by another contractor, Contractor may not be held liable for actions or omissions of the other contractor. If a change order is issued, the change order shall include an appropriate extension of Contract Time and compensate the Contractor for additional costs reasonably incurred as a result of complying with the applicable statutes, ordinances, rules or regulations. The City shall have access to the Contractor's bid documents when making the contracting agency's determination of any additional compensation due to the Contractor.

Notwithstanding the above, the City has allocated all or a portion of the known environmental and natural resource risks to a Contractor by listing such environmental and natural resource risks with specificity in the solicitation documents.

## **27. Waiver**

The failure of the City to enforce any provision of this contract shall not constitute a waiver by the City of that or any other provision. City shall not be precluded or estopped by any measurement, estimate or certificate made either before or after completion and acceptance of work or payment therefore, from showing the true amount and character of work performed and materials furnished by the Contractor, or from showing that any such measurement, estimate or certificate is untrue or incorrectly made, or that Work or materials do not conform in fact to the Contract Documents. City shall not be precluded or estopped, notwithstanding any such measurement, estimate or certificate, or payment in accordance therewith, from recovering from the Contractor and their Sureties such damages as it may sustain by reason of their failure to comply with terms of the Contract, or from enforcing compliance with the Contract. Neither acceptance by City, or by any representative or agent of the City, of the whole or any part of the work, nor any extension of time, nor any possession taken by City, nor any payment for all or any part of the project, shall operate as a waiver of any portion of the Contract or of any power herein reserved, or any right to damages herein provided. A waiver of any breach of the Contract shall not be held to be a waiver of any other breach. All waivers by City must be in writing and signed by City.

**28. Errors**

The Contractor shall perform such additional work as may be necessary to correct its errors in the Work without undue delays and without additional cost.

**29. Governing Law**

The provisions of this Contract shall be construed in accordance with the laws of the State of Oregon and ordinances of the City of St. Helens, Oregon. Any action or suits involving any question arising under this Contract must be brought in the appropriate court in Columbia County, Oregon. If the claim must be brought in a federal forum, then it shall be brought and conducted in the United States District Court for the District of Oregon (Portland).

**30. Severability**

If any term or provision of this Contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular term or provision held invalid.

**31. Attorney’s Fees**

If a suit or action is filed to enforce any of the terms of this Contract, the prevailing party shall be entitled to recover from the other party, in addition to costs and disbursements provided by statute, its reasonable attorney’s fees and expert expenses.

**32. Business License**

The Contractor shall obtain a City of St. Helens business license as required by City Ordinance prior to beginning work under this Contract. The Contractor shall provide a business license number in the space provided on page one herein.

**33. Notices/Bills/Payments**

All notices, bills, and payments shall be made in writing and may be given by personal delivery or by mail. Notices, bills, and payments sent by mail should be addressed as follows:

City: City Administrator  
City of St. Helens  
265 Strand Street  
St. Helens, OR 97051  
(503) 397-6272

Contractor:

And when so addressed, shall be deemed received three (3) days after deposit in the United States Mail, postage prepaid. In all other instances, notices, bills, and payments shall be deemed given at the time of actual delivery. Changes may be made in the names and addresses of the person to whom notices, bills, and payments are to be given by giving notice pursuant to this paragraph.

**34. Conflict of Interest**

Contractor covenants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services. The Contractor further covenants that in the performance of this Contract no person having any such interest shall be employed.

**35. Merger Clause**

THIS CONTRACT AND ATTACHED EXHIBITS CONSTITUTE THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE OF TERMS OF THIS CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE, IF MADE, SHALL BE EFFECTIVE ONLY IN THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO



UNDERSTANDINGS, AGREEMENTS, OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. BY ITS SIGNATURE, CONTRACTOR ACKNOWLEDGES IT HAS READ AND UNDERSTANDS THIS CONTRACT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.



**COLUMBIA BOULEVARD SIDEWALK  
PROJECT NO. R-679A**

**LIST OF EXHIBITS**

<b>EXHIBIT A</b>	STATEMENT OF WORK, COMPENSATION, AND PAYMENT SCHEDULE
<b>EXHIBIT B</b>	PUBLIC IMPROVEMENT CONTRACT INSURANCE REQUIREMENTS
<b>EXHIBIT C</b>	CERTIFICATION STATEMENT FOR CORPORATION OR INDEPENDENT CONTRACTOR
<b>EXHIBIT D</b>	BONDS (PAYMENT AND PERFORMANCE)
<b>EXHIBIT E</b>	CERTIFICATE OF SUBSTANTIAL COMPLETION
<b>EXHIBIT F</b>	CERTIFICATE OF COMPLIANCE
<b>EXHIBIT G</b>	CONTRACTOR'S RELEASE OF LIENS AND CLAIMS
<b>EXHIBIT H</b>	CERTIFICATE OF FINAL COMPLETION
<b>EXHIBIT I</b>	INSTRUCTIONS TO BIDDERS
<b>EXHIBIT J</b>	OREGON PREVAILING WAGE RATES

# **EXHIBIT A**

## **STATEMENT OF WORK, COMPENSATION and PAYMENT SCHEDULE**



**See Plans and Specifications titled**

**COLUMBIA BOULEVARD SIDEWALK  
PROJECT NO. R-679A**

# EXHIBIT B

## PUBLIC IMPROVEMENT CONTRACT INSURANCE REQUIREMENTS

To: Insurance Agent. Please provide Certificates of Insurance to the Project Manager. During the term of the Contract, please provide Certificates of Insurance prior to each renewal. Insurance shall be without prejudice to coverage otherwise existing. During the term of this Contract, Contractor shall maintain in force at its own expense all insurance noted below:

**Workers Compensation** insurance in compliance with ORS 656.017. All employers, including Contractor and any subcontractors, that employ subject workers who work under this Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its subcontractors complies with these requirements.

The Contractor shall defend, indemnify and hold harmless, the City and the City's officers, agents, and employees against any liability that may be imposed upon them by reason of the Contractor's or subcontractor's failure to provide workers' compensation and employers liability coverage.

**Commercial General Liability** insurance on an occurrence basis, with a combined single limit of not less than  \$1,000,000 or  \$3,000,000 for each occurrence of bodily injury, personal injury and property damage. It shall include coverage for broad form contractual liability; broad form property damage; personal and advertising injury; owners and contractor protective; premises/operations; and products/completed operations. Coverage shall not exclude excavation, collapse, underground, or explosion hazards. Aggregate limits shall apply on a per-project basis.

Required by City  Not required by City  
(Mayor signature required)

By: P.M. \_\_\_\_\_

Mayor \_\_\_\_\_

**Commercial Automobile Liability** insurance with a combined single limit, or the equivalent of not less than  \$1,000,000 or  \$3,000,000 for each accident for Bodily Injury and Property Damage, including coverage for owned, hired and non-owned vehicles. "Symbol One" coverage shall be designated.

Required by City  Not required by City  
(Mayor signature required)

By: P.M. \_\_\_\_\_

Mayor \_\_\_\_\_

Builders Risk (*Check here if required*) insurance during construction to the extent of 100 percent of the value of the Work for the benefit of the parties to the Contract as their interest may appear. Coverage shall also include: (1) formwork in place; (2) form lumber on site; (3) temporary structures; (4) equipment; and (5) supplies related to the work while at the site.

**Notice of Cancellation or Change.** There shall be no cancellation, material change, reduction of limits or intent not to renew the insurance coverage(s) without 30 days written notice from the Contractor or its insurer(s) to the City. This notice provision shall be by endorsement physically attached to the certificate of insurance.

**Additional Insured.** For general liability insurance and automobile liability insurance the City, and its agents, officers, and employees will be Additional Insureds, but only with respect to Contractor's services to be provided under this Contract. This coverage shall be by endorsement physically attached to the certificate of insurance.

**Certificates of Insurance.** Contractor shall furnish insurance certificates acceptable to City prior to commencing Work. The certificate will include the deductible or retention level and required endorsements. Insuring companies or entities are subject to City approval. If requested, copies of insurance policies shall be provided to the City. Contractor shall be responsible for all deductibles, self-insured retention's, and/or self-insurance.

# EXHIBIT C

## CERTIFICATION STATEMENT FOR CORPORATION OR INDEPENDENT CONTRACTOR

### A. CONTRACTOR IS A CORPORATION

**CORPORATION CERTIFICATION:** I am authorized to act on behalf of the entity named below, and certify under penalty of perjury that it is a corporation.

Entity

Signature

Date

### B. CONTRACTOR IS INDEPENDENT

**Independent Contractor Standards.** As used in various provisions of ORS Chapters including but not limited to 316, 656, 657, and 701, an individual or business entity that performs labor or services for remuneration shall be considered to perform the labor or services as an “independent contractor” if the standards of ORS 670.600 are met.

Contractor and Project Manager certify that the Contractor meets the following standards:

1. Contractor is free from direction and control over the means and manner of providing the labor or services, subject only to the specifications of the desired results.
2. Contractor is responsible for obtaining all assumed business registrations or professional occupation licenses required by state law or local ordinances.
3. Contractor furnishes the tools or equipment necessary for the contracted labor or services.
4. Contractor has the authority to hire and fire employees to perform the labor or services.
5. Payment to the Contractor is made upon completion of the performance or is made on the basis of a periodic retainer.
6. Contractor is licensed under ORS chapter 701, if the Contractor provides labor or services for which such license is required.
7. Contractor has filed federal and state income tax returns in the name of the business or a business Schedule C as part of the personal income tax return, for the previous year, for labor or services performed as an independent contractor in the previous year.
8. Contractor represents to the public that the labor or services are to be provided by an independently established business as four or more of the following circumstances exist.

(Check all of the following that apply (must be a minimum of four):)

- The labor or services are primarily carried out at a location that is separate from Contractors residence or is primarily carried out in a specific portion of Contractors residence, which is set aside as the location of the business.
- Commercial advertising or business cards are purchased for the business, or Contractor has a trade association membership.
- Telephone listing is used for the business that is separate from the personal residence listing.
- Labor or services are performed only pursuant to written contracts.
- Labor or services are performed for two or more different persons within a period of one year.

Contractor assumes financial responsibility for defective workmanship or for service not provided as evidenced by the ownership of performance bonds, warranties, errors and omissions insurance or liability insurance relating to the labor or services to be provided.

**If any action is taken by a person or enforcement agency relating to Contractor's independent contractor status in connection with this contract, Contractor shall defend, hold harmless and indemnify the City of St. Helens, its elected and appointed officials, employees, volunteers and agents from any such action, claim, judgment, fine, penalty, or order to pay. Contractor shall pay any additional costs incurred by the City in defending such action or incurred as a result of such action. This indemnification is in addition to any indemnification otherwise in this agreement.**

\_\_\_\_\_

Contractor Signature

Date

\_\_\_\_\_

Project Manager Signature

Date

# EXHIBIT D

## BONDS





**CITY OF ST. HELENS  
STANDARD PUBLIC IMPROVEMENT  
CONTRACT PAYMENT BOND**

Bond No.: \_\_\_\_\_  
Project Name COLUMBIA BOULEVARD SIDEWALK  
and No.: Project No. R-679A

\_\_\_\_\_ (Surety)      Bond Amount      \$ \_\_\_\_\_  
\_\_\_\_\_ (Surety)      Bond Amount      \$ \_\_\_\_\_

**Total Penal Sum of Bond**      \$ \_\_\_\_\_

We, \_\_\_\_\_, a corporation or partnership duly organized under the laws of the State of \_\_\_\_\_, and authorized to transact business in the State of Oregon, as **"PRINCIPAL,"** and,

We, \_\_\_\_\_, a corporation or partnership duly organized under the laws of the State of \_\_\_\_\_, and authorized to transact surety business in the State of Oregon, as **"SURETY,"** and,

We, the above named Principal and Surety(ies), hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto the City of St. Helens, Oregon, (**OBLIGEE**) the sum of (\$ \_\_\_\_\_) ( \_\_\_\_\_ ) dollars, lawful money of the United States. [Provided, we the Sureties bind ourselves in such sum "Jointly and Severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety above), and

WHEREAS, the Principal has entered into a Contract with the City of St. Helens, the specifications, terms and conditions of which are contained in the Contract Documents for the above identified Project; and

WHEREAS, the terms and conditions of the Contract Documents, as defined in the Contract, are made a part of this performance bond by reference, whether or not attached to the contract (all hereafter called "Contract"); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans, specifications, and schedule of contract prices which are set forth in the contract and any attachments, and all authorized modifications of the Contract which increase the amount of the work, or the cost of the Contract, or constitute authorized extensions of time for performance of the Contract, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things by it undertaken to be performed under said Contract and any duly authorized modifications that are made, upon the terms set forth therein, and within the time prescribed therein, or as extended therein as provided in the Contract, with or without notice to the



sureties, including the requirements of ORS Chapter 279A-C, including specifically the conditions in ORS 279C.500 to 279C.530, and shall indemnify and save harmless the City of St. Helens, Oregon, its officers, employees, agents and assigns, against any claim for direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Contractor or its subcontractors, and shall promptly pay all persons supplying labor, materials or both to the Principal or its subcontractors for prosecution of the Work provided in the Contract; and shall promptly pay all contributions due the State Industrial Accident Fund and the State Unemployment Compensation Fund from the Principal or its subcontractor in connection with the performance of the Contract; and shall pay over to the Oregon Department of Revenue all sums required to be deducted and retained from the wages of employees of the Principal and its subcontractors pursuant to ORS 316.167, and shall permit no lien nor claim to be filed or prosecuted against the City on account of any labor or materials furnished; and shall do all things required of the Contractor by the laws of this State, and the laws of the City of St. Helens, then this obligation shall be void; otherwise, it shall remain in full force and effect.

Nonpayment of the bond premium will not invalidate this bond nor shall the City of St. Helens be obligated for the payment of any premiums.

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES:

Dates this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

---

Surety

By: \_\_\_\_\_  
(Attorney-in-Fact) (Address) (Telephone)

---

Principal

By: \_\_\_\_\_  
(Address) (Telephone)



**CITY OF ST. HELENS  
STANDARD PUBLIC IMPROVEMENT  
CONTRACT PERFORMANCE BOND**

Bond No.: \_\_\_\_\_  
Project Name COLUMBIA BOULEVARD SIDEWALK  
and No.: Project No. R-679A

\_\_\_\_\_ (Surety)      Bond Amount      \$ \_\_\_\_\_  
\_\_\_\_\_ (Surety)      Bond Amount      \$ \_\_\_\_\_

**Total Bond Amount**      \$ \_\_\_\_\_

We, \_\_\_\_\_, a corporation or partnership duly organized under the laws of the State of \_\_\_\_\_, and authorized to transact business in the State of Oregon, as **"PRINCIPAL,"** and,

We, \_\_\_\_\_, a corporation or partnership duly organized under the laws of the State of \_\_\_\_\_, and authorized to transact surety business in the State of Oregon, as **"SURETY,"** and,

We, the above named Principal and Surety(ies), hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto the City of St. Helens, Oregon, (**OBLIGEE**) the sum of (\$ \_\_\_\_\_) ( \_\_\_\_\_ ) dollars, lawful money of the United States. [Provided, we the Sureties bind ourselves in such sum "Jointly and Severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety above), and

WHEREAS, the Principal has entered into a Contract with the City of St. Helens, the specifications, terms and conditions of which are contained in the Contract Documents for the above identified Project; and

WHEREAS, the terms and conditions of the Contract Documents, as defined in the Contract, are made a part of this performance bond by reference, whether or not attached to the contract (all hereafter called "Contract"); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans, specifications, and schedule of contract prices which are set forth in the contract and any attachments, and all authorized modifications of the Contract which increase the amount of the work, or the cost of the Contract, or constitute authorized extensions of time for performance of the Contract, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things by it undertaken to be performed under said Contract and any duly authorized modifications that are made, upon the terms set forth therein, and within the time prescribed therein, or as extended therein as provided in the Contract, with or without notice to the

sureties, including the requirements of ORS Chapter 279A-C, including specifically the conditions in ORS 279C.500 to 279C.530, and shall indemnify and save harmless the City of St. Helens, Oregon, its officers, employees, agents and assigns, against any claim for direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Contractor or its subcontractors, and shall in all respects perform said Contract, and shall permit no lien nor claim to be filed or prosecuted against the City on account of any labor or materials furnished; and shall do all things required of the Contractor by the laws of this State, and the laws of the City of St. Helens, then this obligation shall be void; otherwise, it shall remain in full force and effect.

Nonpayment of the bond premium will not invalidate this bond nor shall the City of St. Helens be obligated for the payment of any premiums.

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES:

Dates this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Surety

By: \_\_\_\_\_  
(Attorney-in-Fact) (Address) (Telephone)

\_\_\_\_\_  
Principal

By: \_\_\_\_\_  
(Address) (Telephone)



# EXHIBIT E

## CERTIFICATE OF SUBSTANTIAL COMPLETION

CITY'S Project No. R-679A ENGINEER'S Project No. N/A

COLUMBIA BOULEVARD SIDEWALK

CONTRACTOR: \_\_\_\_\_

Contract For: \_\_\_\_\_ Contract Date \_\_\_\_\_

This Certificate of Substantial Completion applies to:

- All Work under the Contract Documents, or
- To the following specified parts thereof:

The Work to which this Certificate applies has been inspected by authorized representatives of CITY, CONTRACTOR and ENGINEER, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on

\_\_\_\_\_ DATE OF SUBSTANTIAL COMPLETION

A tentative list of items to be completed or corrected is attached hereto. This list may not be all inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by CONTRACTOR within \_\_\_\_\_ Days of the above date of Substantial Completion.

The following documents are attached to and made a part of this Certificate:

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

Effective as of the last date set forth below, the responsibilities between CITY and CONTRACTOR shall be as follows:

- |             |  |  |
|-------------|--|--|
| Security    | <input type="checkbox"/> City            | <input checked="" type="checkbox"/> Contractor |
| Operation   | <input checked="" type="checkbox"/> City | <input type="checkbox"/> Contractor            |
| Safety      | <input type="checkbox"/> City            | <input checked="" type="checkbox"/> Contractor |
| Maintenance | <input checked="" type="checkbox"/> City | <input type="checkbox"/> Contractor            |
| Heat        | <input type="checkbox"/> City            | <input type="checkbox"/> Contractor            |
| Utilities   | <input type="checkbox"/> City            | <input type="checkbox"/> Contractor            |
| Insurance   | <input type="checkbox"/> City            | <input type="checkbox"/> Contractor            |
| Warranties  | <input type="checkbox"/> City            | <input checked="" type="checkbox"/> Contractor |

Other Responsibilities:

City		Contractor

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents, nor is it a release of CONTRACTOR'S obligation to complete the Work in accordance with the Contract Documents.

CONTRACTOR accepts this Certificate of Substantial Completion on \_\_\_\_\_, 20\_\_\_\_\_

By: \_\_\_\_\_

CITY accepts this Certificate of Substantial Completion on \_\_\_\_\_, 20\_\_\_\_\_

By: \_\_\_\_\_

File:



**EXHIBIT F**  
**CERTIFICATE OF COMPLIANCE**

**COLUMBIA BOULEVARD SIDEWALK**

---

CIP Number: Project No. R-679A

Contractor: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I, (We) hereby certify that all Work has been performed and materials supplied in accordance with the plans, specifications and Contract Documents for the above Project, and that:

1. Not less than the prevailing rates of wages have been paid to laborers, workmen and mechanics employed on this work.
2. There have been no unauthorized substitutions of materials; substitutions or assignment of subcontractors; nor have any subcontracts been entered into without the names of the subcontractors having been submitted to the City prior to the start of such subcontracted work.
3. All claims and indebtedness for material and labor and other service performed in connection with these specifications have been paid.
4. All moneys due the State Industrial Accident Fund, the State Unemployment Compensation Trust Fund, the State Department of Revenue (ORS 316.162 to 316.212) hospital associations and/or others (ORS 279C.530) have been paid.
5. All private property and easement areas have been satisfactorily restored in accordance with the Contract.
6. If Contractor is not domiciled in or registered to business in the State of Oregon, Contractor has reported to the Oregon Department of Revenue such information and in the manner as required by ORS 279A.120(3).

Contractor: \_\_\_\_\_

By: \_\_\_\_\_ Date \_\_\_\_\_

Title: \_\_\_\_\_





# EXHIBIT H

## CERTIFICATE OF FINAL COMPLETION

Project Number: R-679A

Project: COLUMBIA BOULEVARD SIDEWALK

Contractor: \_\_\_\_\_

Contract Signed: \_\_\_\_\_ Contract Expires: \_\_\_\_\_

Contract Completed: \_\_\_\_\_ Delinquent: \_\_\_\_\_

I hereby certify that I have completed my Contract, furnished the materials, and performed the Work as shown by the final estimate, according to the Contract Documents.

\_\_\_\_\_  
*Contractor* Title Date

The City has determined the Project is 100% complete in compliance with all Contract Documents.

\_\_\_\_\_  
*Inspector/Supervisor* Date

\_\_\_\_\_  
*Project Engineer* Date

\_\_\_\_\_  
*City of St. Helens* City Administrator Title Date

Unless otherwise provided as a Special Provision, when City accepts the Certificate of Final Completion, the date the Contractor signs the Certificate of Final Completion shall be the date the City accepts ownership of the work and the start date of the warranty period.





# EXHIBIT I

## INSTRUCTION TO BIDDERS

The provisions of Oregon Administrative Rules Chapter 137, Divisions 46 and 49, apply to all bids and contracts which incorporate the Public Works Standards of the City of St. Helens into the contract documents of a project. The OAR provisions control over any conflicting language in the Public Works Standards and the OAR provisions are incorporated herein by this reference.

### 1. SCOPE OF WORK

The work contemplated under this contract includes all permits, labor, tools, machinery, materials, transportation, equipment and services of all kinds required for, necessary for, or reasonable incidental to, the completion of all the work in connection with the project described in the contract documents, including the general conditions, all applicable special conditions, plans, specifications, or any supplemental documents.

### 2. EEO AFFIRMATIVE ACTION

Bidders must comply with the City of St. Helens Equal Opportunity Policy for Contractors. The policy is included in and made a part of these Contract Documents and is attached hereto and made a part hereof as Attachment A. Contractor shall not discriminate against minorities, women or emerging small business enterprises in the awarding of subcontracts.

### 3. BID PROVISIONS

- a. Each bid must contain a completed Bid including the following:
  - A. A Bid and Schedule of Prices.
  - B. Acknowledgement that the bidder has received and reviewed all Addenda for the bid.
  - C. A statement that all applicable provisions of ORS Chapters 279A-C, including ORS 279C.800 to 279C.870 (Contracting and Prevailing Wages) shall be complied with.
  - D. A statement by the bidder, as part of their bid, that the bidder agrees to be bound by and will comply with the provisions of ORS 279C.838 or 279C.840 or 40 U.S.C. 3141 to 3148, as applicable.
  - E. A statement as to whether the bidder is a resident bidder as defined in ORS 279A.120.
  - F. A statement as to whether or not the bidder is licensed under ORS 468A.720 for asbestos removal if applicable.
  - G. A statement that the bidder has a current and valid license with the Construction Contractor's Board and/or the State Landscape Contractors Board as required by ORS 671.530.
  - H. A statement confirming that the bidder has a Qualified Drug-testing Program for employees in place.
  - I. First Tier Subcontractor form for the project on the City form (physically received by City within 2 working hours of the bid submission deadline).
  - J. A Surety Bond, Cashier's check or Certified check in the amount of 10 percent of the submitted bid.
  - K. Certification: Non-discrimination
  - L. Certification: No Conflict of Interest
  - M. Certification: Not ineligible for Public Works Contracts
- b. The City will not mail notice of addenda but will publish notice of any addenda on City's website and post the notice of addenda at City Hall at <https://www.ci.st-helens.or.us/rfps>. The addenda may be downloaded or picked up at City Hall. Check the website and City Hall bulletin board frequently until the bid submission deadline.
- c. No bid will be received or considered by the City of St. Helens unless the bid contains a statement by the bidder as a part of its bid that the Contractor shall be bound by and will comply with the provisions of ORS 279C.838, 279C.840 or 40 U.S.C. 3141 to 3148. The statement shall be included in the Bid form. The existing prevailing rate of wage in the form of a BOLI document is included in the bid documents.

- d. Each Bidder must identify in the Bid whether the Bidder is a “resident bidder” as defined in ORS 279A.120.
- e. Unless specified in the ITB, and Contract Special Provisions, the bidder or subcontractor need not be licensed under ORS 468A.720 relating to asbestos abatement.
- f. No bid for a construction contract shall be received or considered by the City of St. Helens unless the bidder is licensed with the Construction Contractors Board or licensed by the State Landscape Contractors Board as required by ORS 671.530.
- g. Each Bidder must demonstrate that its firm has a Qualified Drug Testing Program for employees in place and demonstrate compliance prior to award.
- h. Instructions for First-Tier Subcontractors Disclosure. Bidders are required to disclose information about certain first-tier subcontractors when the contract value for a Public Improvement is greater than \$100,000.

Specifically, when the contact amount of a first-tier subcontractor furnishing labor or labor and materials would be greater than or equal to (i) 5% of the project bid, but at least \$15,000, or (ii) \$350,000 regardless of the percentage, the bidder must disclose the following information about that subcontract in its bid submission or within two (2) working hours after bid submission deadline:

- A. The subcontractor’s name,
- B. The dollar value of the subcontract, and
- C. The category of work that the subcontractor would be performing.

If the bidder will not be using any subcontractors that are subject to the above disclosure requirements, the bidder is required to indicate “NONE” on the accompanying form. Disclosure forms will be available for public inspection after the opening of the bids.

**THE CITY OF ST. HELENS MUST REJECT A BID AS NON-RESPONSIVE IF THE BIDDER FAILS TO SUBMIT THE DISCLOSURE FORM WITH THE REQUIRED INFORMATION BY THE STATED DEADLINE.**

- i. Bid Security. No bid will be received or considered unless the Bid is accompanied by a certified check, cashier's check, (payable to the City of St. Helens), surety bond (in approved form)(f/k/a/ bid bond), or irrevocable letter of credit issued by an insured institution (in an approved form) in an amount equal to ten percent (10%) of the total amount bid. The successful bidder will be required to furnish a faithful performance bond and a labor and material payment bond each in the amount of one hundred percent (100%) of the amount of the contract. Said security shall be irrevocable for 60 days, unless specified otherwise. The bid security shall be forfeited, at the City’s option, as fixed and liquidated damages, if the bidder fails or neglects to furnish the required performance bond, the insurance, or to execute the contract within 10 working days after receiving the contract from the City for execution. When a bond is used for bid security, the bond shall be executed by a surety company authorized to transact business in the State of Oregon. **THE BIDDER SHALL HAVE THE SURETY USE THE SURETY BOND FORM PROVIDED HEREIN. IF THIS FORM IS NOT USED, THE BID WILL BE DEEMED NON-RESPONSIVE AND SHALL BE REJECTED.**

All such certified checks or surety bonds will be returned to the respective bidders within 10 working days after the bids are opened, except those of the two low bidders. The bid security of the two low bidders will be held by the City until the selected bidder has accomplished the following:

- A. Executed a formal contract;
- B. Executed and delivered to the City a Performance Bond and Payment Bond, both in the amount equal to 100% of the Contract Price;
- C. Furnish proof of public works bond filed with BOLI; and
- D. Furnish the required Certificates of Insurance.

Upon the execution and delivery to the City of St. Helens of the Contract and Performance Bond and Payment Bond and furnishing proof of a public works bond filed with BOLI by the successful bidder, the bid security shall be returned to the bidder. The bidder who has been awarded a contract and who fails or neglects to promptly and properly execute the contract or bonds shall forfeit the bid security that accompanied the bid. It is hereby specially provided that a forfeiture of said bid security be declared by the Council if the contract and performance bond and payment bond are not executed and delivered to the City within ten (10) working days of the day of the receipt by the successful bidder of the prepared contract. The Council, at its option, may determine that the bidder has abandoned the submitted accepted bid, in which case the bid security shall become the sole property of the City and shall be considered as liquidated damages and not as a penalty for failure of the bidder to execute the contract and bond. The security of unsuccessful bidders shall be returned to them after the contract has been awarded and duly signed.

- j. A Bidder submitting a bid thereby certifies that no officer, agent, or employee of the City who has a pecuniary interest in this bid has participated in the contract negotiations on the part of the City, that the Bid is made in good faith without fraud, collusion, or connection of any kind with any other Bidder for the same call for bids, and that the Bidder is competing solely on its own behalf without connection with, or obligation to, any undisclosed person or firm.
- k. The Bidder, in submitting the bid, certifies that the Bidder has not been disqualified and is eligible to receive a contract for a public work pursuant to ORS 279C.860 as well as the disqualification provisions of ORS 279C.440 and OAR 137-049-0370. Bidder agrees, if awarded a contract, that every subcontractor will not be ineligible to receive a contract for a public work pursuant to ORS 279C.860 and will otherwise not be disqualified under ORS 279C.440 and OAR 137-049-0370.

**4. PREOFFER CONFERENCE AND PREQUALIFICATION OF BIDDERS**

If a pre-bid conference is scheduled, notice will be provided in accordance with OAR 137-049-0200(1)(a)(B). If prequalification will be required it will be specifically stated in the Notice to Contractors and Invitation to Bid, including the date prequalification applications must be filed under ORS 279C.430 and the class or classes of work for which bidders must be pre-qualified. For example, the requirement for ODOT Prequalification reads as follows:

Bidders must be pre-qualified with the Oregon Department of Transportation or General Service per ORS 279C.435 to perform the type and size of work contemplated herein and shall submit, to the City upon request. The City will investigate and determine the qualifications for the apparent low bidder prior to awarding the contract.

Applications submitted without being designated for a project advertised for bid by the City will be considered as a general prequalification application and processed pursuant to ORS 279C.430 to 279C.450, and notice of prequalification status will be given within thirty (30) days of the receipt of the application. A notice of disqualification can be given orally. An oral disqualification notice will be followed by written notice and bear the date of the oral notice. (NOTE: No person may engage in any business within the City without first obtaining a City Business License and paying the fee prescribed pursuant to City of St. Helens Ordinance 1392 as amended.)

**5. FORM OF BID**

- a. Bids shall be submitted in sealed envelopes to:  
City Administrator  
City of St. Helens  
265 Strand Street  
St. Helens, Oregon 97051  
Attention: John Walsh

The outside of the transmittal envelope shall bear the following information:

- Name of Bidder
- Address and telephone number of Bidder
- Title of Project
- Date of opening
- The words "Sealed Bid"

If the sealed bid is forwarded by mail or messenger service, the sealed envelope containing the bid, and marked as above, must be enclosed in another envelope addressed as noted above. Facsimile and Electronic Data Interchange bids

shall not be accepted unless otherwise specified in the Special Provisions. No bid will be received or considered by the City unless the bid contains all the Required Bid Documents and Certifications.

- b. All bids must be clearly and distinctly typed or written with ink or indelible pencil and be on the Bid form furnished by Owner. The bid must be signed by the Contractor or a duly authorized agent. If erasures or other changes appear on the form, they shall be initialed in ink by the person who signs the bid. The bidder shall not alter, modify or change the Bid forms except as directed by addendum. All applicable blanks giving general information must be completed, in addition to necessary unit price items and total prices in the column of totals to make a complete bid. The Bid is the bidder's offer to enter into a contract which, if the Bid is accepted for award, binds the bidder to a contract and the terms and conditions contained in the Bid, as well as the Solicitation Documents. A bidder shall not make the Bid contingent upon the City's acceptance of specifications or contract terms which conflict with or are in addition to those advertised in the Notice to Contractors and Invitation to Bid. Any statement accompanying and tending to qualify a bid may cause rejection of such bid, unless such statement is required in a bid embracing alternative bids.
- c. Unless otherwise specified, Bidders shall bid on all bid items included in the bid and the low Bidder shall be determined. Except as provided herein, bids which are incomplete, or fail to reply to all items required in the bid may be rejected.
- d. Bidders shall state whether business is being done as an individual, a co-partnership, a corporation, or a combination thereof, and if incorporated, in what state, and if a co-partnership, state names of all partners. The person signing on behalf of a corporation, a co-partnership or combination thereof shall state their position with the firm or corporation, and state whether the corporation is licensed to do business in the State of Oregon.

#### **6. LATE BIDS**

Bids received after the scheduled bid submission deadline set forth in the invitation for bids will be rejected. Bids will be time and date stamped by City Hall personnel upon receipt. Such time and date stamps will govern the determination of on-time submission of bids. Bids received after the time so fixed are late bids. Late bids will be time and date stamped at the time of receipt by City personnel, marked as "Rejected as Late Bid" and will be returned, unopened, to the submitted.

#### **7. INTERPRETATION OF CONTRACT AND ADDENDA**

If a bidder finds error, discrepancies in, or omissions from the plans, specifications or contract documents, or has doubt as to their interpretation or meaning, the bidder shall at once notify the City Contact Person. The City will investigate and determine if an addendum will be issued.

If it should appear to a Bidder that the work to be done or matters relative thereto are not sufficiently described or explained in the Contract Documents or that Contract Documents are not definite and clear, or the Bidder needs additional information or an interpretation of the contract, the Bidder may make written inquiry regarding same to the Engineer at least ten (10) days, unless otherwise specified, before the scheduled bid submission deadline for submission of bids.

If, in the opinion of the Engineer, additional information or interpretation is required, an addendum will be issued to all known specification holders.

Any addendum or addenda issued by the City which may include changes, corrections, additions, interpretations or information, and issued seventy-two (72) hours or more before the scheduled bid submission deadline for submission of bids, Saturday, Sunday and legal holidays not included, shall be binding upon the Bidder. City shall supply copies of such Addenda will not be mailed but will be posted on the website and available at City Hall; failure of the Contractor to receive or obtain such addenda shall not excuse them from compliance therewith if they are awarded the contract.

ORAL INSTRUCTIONS OR INFORMATION CONCERNING THE CONTRACT OR THE PROJECT GIVEN OUT BY OFFICERS, EMPLOYEES OR AGENTS OF THE CITY TO PROSPECTIVE BIDDERS SHALL NOT BIND THE CITY.

#### **8. EXAMINATION OF CONTRACT, SITE OF WORK AND SUBSURFACE DATA**

- a. Prior to submitting a bid, it is the responsibility of each Bidder to:
  - A. Examine the plans, specifications and contract documents thoroughly.
  - B. Become fully informed as to the quality and quantity of materials and the character of the work required.
  - C. Visit the site to become familiar with local conditions that may affect cost, progress, or performance of the work and sources and supply of materials.
  - D. Consider all federal, state and local laws, ordinances, rules and regulations that may affect cost, progress, or performance of the work, including environmental and natural resource ordinance and regulations
  - E. Consider identified site conditions and conduct pre-bid inspection to address environmental and natural resource laws implicated by the project.
  - F. Study and correlate the Bidder's observations, especially as regards site conditions with the Contract Documents.
  - G. Notify the Contact Person of all conflicts, errors, ambiguities or discrepancies discovered in the Contract Documents.
  
- b. Bidders shall determine for themselves all the conditions and circumstances affecting the project or the cost of the proposed work, including without limitation utility interferences, by personal examination of the site, careful review of the Contract and by such other means as the Bidder feels may be necessary. It is understood and agreed that information regarding subsurface or other conditions, or obstructions indicated in the Contract Documents, is provided by Owner only for the convenience of Bidders and may not be complete or accurate and such information is not expressly or tacitly warranted to accurately represent actual conditions. Bidder's use of such information shall be at Bidder's sole risk, and Bidder is responsible to confirm any information provided from such independent sources as Bidder feels may be necessary.
  
- c. Logs of test holes, test pits, soils reports, ground-water levels and other supplementary subsurface information are offered as information of underlying materials and conditions at the locations actually tested. Owner will not be liable for any loss sustained by the Bidder as a result of any variance between conditions contained in or interpretations of test reports and the actual conditions encountered during progress of the work.
  
- d. The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the site subsurface conditions to be encountered, as to the character, quality and quantities of work to be performed and materials to be furnished, and as to the requirements of the Contract.
  
- e. The City will not pay any costs incurred by any Bidder in the submission of a Bid, or in making necessary studies or designs for the preparation thereof, or for procuring or contracting for the items to be furnished under the invitation to bid. When submitting a bid, the Bidder agrees that consideration has been given to the requirements and conditions contained throughout these bid documents.
  
- f. Notice: It is further understood that a bid awarded hereunder is subject to the City being able to comply with all zoning and land development ordinances or obtain rezoning of the property where necessary, and comply with local building code restrictions and conditions for structures contemplated in the project, any or all of which conditions may be contained in the contract or contract Special Provisions and if such conditions are not satisfied may result in termination of the contract.

**9. FAMILIARITY WITH LAWS AND ORDINANCES**

- a. The Bidder is presumed to be familiar with all Federal, State, and local laws, ordinances, and regulations which in any manner affect those engaged or employed in the work or the materials or equipment used in the proposed construction, or which in any way affect the conduct of the work. If the Bidder, or Contractor, shall discover any provision in the Contract which is contrary to or inconsistent with any law, ordinance or regulation, it shall immediately be reported to the Owner in writing.
  
- b. No person may engage in any business within the City without first obtaining a City business license and paying the fee prescribed pursuant to City of St. Helens Ordinance. The Contractor and their

subcontractors shall obtain a City of St. Helens business license prior to beginning any work within the City of St. Helens.

**10. UNIT BIDS**

- a. The estimate of quantities of work to be done under unit price bids is approximate and is given only as a basis of calculation for comparison of bids and award of the Contract. The City does not warrant that the actual amount of work will correspond to the amount as shown or estimated. Payment will be made at unit prices under a contract, only for work actually performed or materials actually furnished according to actual measurement that were necessary to complete the work.
- b. Bidders must include in their bid prices the entire cost of each item of work set forth in the bid, and when, in the opinion of the City, the prices in any bid are obviously unbalanced, such bid may be rejected.
- c. The unit contract prices for the various bid items of the contract shall be full compensation for all labor, materials, supplies, equipment, tools and all things of whatsoever nature are required for the complete incorporation of the item into the work the same as though the item were to read "In Place."

**11. WITHDRAWAL, MODIFICATION OR ALTERATION OF BID**

- a. Bids may be withdrawn on written request received from the bidders prior to the time fixed for opening. The request shall be executed by the bidder or a duly authorized representative. The withdrawal of a bid does not prejudice the right of the bidder to file a new bid. Negligence on the part of the bidder in preparing the bid confers no right for the withdrawal of the bid after it has been opened. The bid will be irrevocable until such time as the City:
  - A. Specifically rejects the bid, and
  - B. Awards the contract to another bidder and said contract is properly executed.

All bids shall remain subject to acceptance by the City for sixty (60) days after the date of the bid opening.

- b. Prior to Bid Opening, changes may be made provided the change is initialed by the Bidder or the Bidder's agent. If the intent of the Bidder is not clearly identifiable, the interpretation most advantageous to Owner will prevail.
- c. No Bidder may withdraw a bid after bid opening unless sixty (60) days have elapsed and the City has not awarded a contract.

**12. MISTAKES IN BIDS**

- a. To protect the integrity of the competitive solicitation process and to assure fair treatment of Bidders, City will carefully consider whether to permit waiver, correction or withdrawal for certain mistakes.
- b. Treatment of Mistakes. City shall not allow a Bidder to correct or withdraw a Bid for an error in judgment. If the City discovers certain mistakes in a Bid after Opening, but before award of the Contract, the City may take the following action:
  - A. City may waive, or permit a Bidder to correct, a minor informality. A minor informality is a matter of form rather than substance that is evident on the face of the Bid, or an insignificant mistake that can be waived or corrected without prejudice to other Bidders. Examples of minor informalities include a Bidder's failure to:
    - 1) Return the correct number of Signed Bids or the correct number of other documents required by the Solicitation Document;
    - 2) Sign the Bid in the designated block, provided a Signature appears elsewhere in the Bid, evidencing an intent to be bound; and

- 3) Acknowledge receipt of an Addendum to the Solicitation Document, provided: it is clear on the face of the Bid that the Bidder received the Addendum and intended to be bound by its terms; and the Addendum involved did not affect price, quantity or delivery.
- B. City may correct a clerical error if the error is evident on the face of the Bid, or other documents submitted with the Bid, and the Bidder confirms the City's correction in Writing. A clerical error is a Bidder's error in transcribing its Bid. Examples include typographical mistakes, errors in extending unit prices, transposition errors, arithmetical errors, instances in which the intended correct unit or amount is evident by simple arithmetic calculations (for example a missing unit price may be established by dividing the total price for the units by the quantity of units for that item or a missing, or incorrect total price for an item may be established by multiplying the unit price by the quantity when those figures are available in the Bid). In the event of a discrepancy, unit prices shall prevail over extended prices.
  - C. City may permit a Bidder to withdraw a Bid based on one or more clerical errors in the Bid only if the Bidder shows with objective proof and by clear and convincing evidence:
    - 1) The nature of the error;
    - 2) That the error is not a minor informality under this subsection or an error in judgment;
    - 3) That the error cannot be corrected or waived under subparagraph B of this subsection;
    - 4) That the Bidder acted in good faith in submitting a Bid that contained the claimed error and in claiming that the alleged error in the Bid exists;
    - 5) That the Bidder acted without gross negligence in submitting a Bid that contained a claimed error;
    - 6) That the Bidder will suffer substantial detriment if the City does not grant it permission to withdraw the Bid;
    - 7) That the City's or the public's status has not changed so significantly that relief from the forfeiture will work a substantial hardship on the City or the public it represents; and
    - 8) That the Bidder promptly gave notice of the claimed error to the City.
  - D. The criteria in subsection C above shall determine whether a City will permit a Bidder to withdraw its Bid after the bid submission deadline. These criteria also shall apply to the question whether an City will permit a Bidder to withdraw its Bid without forfeiture of its bid bond (or other bid security), or without liability to the City based on the difference between the amount of the Bidder's Bid and the amount of the contract actually awarded by the City, whether by award to the next lowest Responsive and Responsible Bidder or the best Responsive and Responsible Proposer, or by resort to a new solicitation.
  - E. The City shall reject any Bid in which a mistake is evident on the face of the Bid and the intended correct Bid is not evident or cannot be substantiated from documents accompanying the Bid, i.e., documents submitted with the Bid.

### 13. REJECTION OF BIDS

- a. The City may reject any bid upon a finding that the Bid meets the criteria specified in OAR 137-049-0440(1)(a) or (b) or has not provided the certification required under OAR 137-049-0440(3). The City shall reject a Bid from a Bidder who meets the criteria specified in OAR 137-049-0440(1)(c). The City may, for good cause, reject any or all bids upon a finding it is in the public interest to do so. In any case where competitive bids are required and all bids are rejected, and the proposed contract is not abandoned, new bids may be called for as in the first instance. The City may, at its own discretion, waive minor informalities.
- b. This invitation to bid does not commit the City to pay any costs incurred by any Bidder in the submission of a Bid, or in making necessary studies, subsurface investigations or designs for the preparation of a Bid, or for procuring or contracting for the items to be furnished pursuant to the Contract Documents.

- c. The City reserves the right to reject any or all bids when such rejection is in the best interest of the City of St. Helens. Bids may be rejected if they show any alteration of form, additions not called for, conditional bids, incomplete bids, erasures, or irregularities of any kind.
- d. When Bids are signed by an agent, other than the officer or officers of a corporation authorized to sign contracts on its behalf, or a member of a partnership, a "Power of Attorney" must be submitted with the Bid or on file with the City Administrator prior to opening of bids; otherwise, the Bid will be rejected as irregular.
- e. More than one Bid from an individual, firm, partnership, corporation, or combination thereof with an interest in more than one bid, for the items bid, will be cause for the rejection of all Bids in which such individual, firm, partnership, corporation, or combination thereof, is interested.
- f. **If there is reason to believe that collusion exists among bidders, none of the bids of the participants in such collusion will be considered, and all involved bids shall be rejected. Bids in which prices are obviously unbalanced may be rejected.**

**14. BID PROTEST.**

Bidders may, in writing protest or request changes of any specifications or contract terms in accordance with adopted City contracting rules. The written protest or request for changes must be received by the City no later than ten (10) calendar days prior to the Bid Submission Deadline. The written protest or request shall include the reasons for the protest or request, and any proposed changes to the bid specifications or contract terms and a description of the prejudice to the bidder. Envelopes containing bid protests shall be marked "Contract Provision Protects or Request" with the Bid Number and Bid Submission Deadline. No protest against award, owing to the content of the bid specifications or contract terms shall be considered after the deadline established for submitting protests of bid specifications or contract terms.

**15. ORS 654.150 SANITARY FACILITIES AT CONSTRUCTION PROJECTS STANDARDS, EXEMPTIONS**

If the contract price is estimated (itemized bid) or bid (lump sum) by Contractor at \$1,000,000 or more, Contractor shall be responsible for all costs (which costs shall be included in the bid whether or not a specific bid item is provided therefore) that may be incurred in complying with or securing exemption or partial exemption from the requirements of ORS 654.150 (Sanitary facilities at construction projects; standards, exemptions) and the rules adopted pursuant thereto. Determination of applicability of ORS 654.150 to the project is the sole responsibility of the Contractor.





## EXHIBIT J

### OREGON PREVAILING WAGE RATES

#### COLUMBIA BOULEVARD SIDEWALK PROJECT NO. R-679A

- i. Workers must be paid not less than the applicable state prevailing rate of wage. ORS 279C.830(1)(c); OAR 839-025-0020(3)(a)
- ii. If the Contractor fails to pay for labor and services, the City can pay for them and withhold these amounts from payments to the contractor. ORS 279C.515; OAR 839-025-0020(2)(a)
- iii. The Contractor must pay daily, weekly, weekend and holiday overtime as required in ORS 279C.540. ORS 279C.520(1); OAR 839-025-0020(2)(b)
- iv. The employer must give written notice to the workers of the number of hours per day and days per week they may be required to work. ORS 279C.520(2); OAR 839-025-0020(2)(c)
- v. The Contractor must make prompt payment for all medical services for which the Contractor has agreed to pay, and for all amounts for which the contractor collects or deducts from the worker's wages. ORS 279C.530; OAR 839-025-0020(2)(d)
- vi. The Contractor is required to have a public works bond filed with the Construction Contractors Board before starting work on the project, unless exempt. ORS 279C.830(2)(a); OAR 839-025-0020(2)(e)(A)
- vii. The Contractor is required to include in every subcontract a provision requiring the subcontractor to have a public works bond filed with the Construction Contractors Board before starting work on the project, unless exempt. ORS 279C.830(2)(b); OAR 839-025-0020(2)(e)(B)

Applicable Oregon prevailing wage rates are contained in the publication, Prevailing Wage Rates for Public Works Contracts in Oregon effective as of the date the Bidding Documents are first advertised.

See Oregon Bureau of Labor and Industries website links at:  
<http://www.oregon.gov/BOLI/WHD/PWR/pages/index.aspx>

# **PWR REQUIRED POSTINGS ALL CONTRACTORS AND SUBCONTRACTORS**

## **PREVAILING WAGE RATES**

Each and every contractor and subcontractor engaged in work on a public works must post the applicable prevailing wage rates for that project in a conspicuous place at the work site, so workers have ready access to the information. ORS 279C.840(4); OAR 839-025-0033(1).

## **DETAILS OF FRINGE BENEFIT PROGRAMS**

When a contractor or subcontractor provides for or contributes to a health and welfare plan or a pension plan, or both, for the contractor or subcontractor's employees who are working on a public works project, the details of all fringe benefit plans or programs must be posted on the work site. The posting must include a description of the plan or plans, information about how and where claims can be made and where to obtain more information. The notice must be posted in a conspicuous place at the work site in the same location as the prevailing wage rates (see above). ORS 279C.840(5); OAR 839-025-0033(2)

## **WORK SCHEDULE**

Contractors and subcontractors must give workers the regular work schedule (days of the week and number of hours per day) in writing, before beginning work on the project. Contractors and subcontractors may provide the schedule at the time of hire, prior to starting work on the contract, or by posting the schedule in a location frequented by employees, along with the prevailing wage rate information and any fringe benefit information. If an employer fails to give written notice of the worker's schedule, the work schedule will be presumed to be a five-day schedule. The schedule may only be changed if the change is intended to be permanent and is not designed to evade the PWR overtime requirements. ORS 279C.540(2); OAR 839-025-0034.

## PUBLIC WORKS BONDS

EVERY CONTRACTOR AND SUBCONTRACTOR who works on public works projects subject to the prevailing wage rate (PWR) law is required to file a **\$30,000 “PUBLIC WORKS BOND”** with the Construction Contractor’s Board (CCB). (ORS 279C.836) This includes flagging and landscaping companies, temporary employment agencies, and sometimes sole proprietors.

- This bond is to be USED EXCLUSIVELY FOR UNPAID WAGES determined to be due by the Bureau of Labor and Industries (BOLI).
- The bond MUST be filed BEFORE STARTING WORK on a prevailing wage rate project.
- The bond is in effect CONTINUOUSLY (do not have to have one per project).
- BEFORE PERMITTING A SUBCONTRACTOR TO START WORK on a public works project, CONTRACTORS MUST VERIFY their subcontractors have either filed the bond, or have elected not to file a public works bond due to a bona fide exemption.
- A public works bond is in addition to any other required bond the contractor or subcontractor is required to obtain.

### Exemptions:

- Allowed for a disadvantaged business enterprise, a minority-owned business, woman-owned business, a business that a service-disabled veteran owns or an emerging small business certified under ORS 200.055, for the first FOUR years of certification;
  - Exempt contractor must still file written verification of certification with the CCB, and give the CCB written notice that they elect not to file a bond.
  - The prime contractor must give written notice to the public agency that they elect not to file a public works bond.
  - Subcontractors must give written notice to the prime contractor that they elect not to file a public works bond.
  - For projects with a total project cost of \$100,000 or less, a public works bond is not required. (Note this is the total project cost, not an individual contract amount.)
  - Emergency projects, as defined in ORS 279A.010(f).

### **ORS 279C.830(2) requires:**

That the specifications for every contract for public works shall contain a provision stating that the contractor and every subcontractor must have a public works bond filed with the CCB before starting work on the project, unless otherwise exempt.

Every contract awarded by a contracting agency shall contain a provision requiring the contractor:

- To have a public works bond filed with the CCB before starting work on the project, unless otherwise exempt;
- To include in every subcontract a provision requiring the subcontractor to have a public works bond filed with the CCB before starting work on the project unless otherwise exempt.

Every subcontract that a contractor or subcontractor awards in connection with a public works contract must require any subcontractor to have a public works bond filed with the Construction Contractors Board before starting work on the public works project, unless otherwise exempt.

Part 3

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# **2021 Oregon Standard Specifications for Construction**

**[https://www.oregon.gov/odot/Business/Pages/Standard Specifications.aspx](https://www.oregon.gov/odot/Business/Pages/Standard_Specifications.aspx)**

Part 4

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**City of St. Helens  
Engineering Standards  
Manual Municipal  
Code Title 18**

<https://www.codepublishing.com/OR/StHelens/>

Part 5

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# **Special Provisions & Technical Specifications**

Project #R-679A  
COLUMBIA BOULEVARD SIDEWALKS

TECHNICAL SPECIFICATIONS  
TABLE OF CONTENTS

DIVISION 1 - GENERAL REQUIREMENTS

01100	SUMMARY OF WORK
01120	DEFINITIONS & REGULATORY REQUIREMENTS
01200	PROJECT MEETINGS
01210	ROLES & RESPONSIBILITIES
01220	COORDINATION OF WORK
01230	ACCESS TO WORK
01300	CONSTRUCTION DOCUMENTATION
01310	PROJECT SCHEDULE & TIMELINE
01320	QUALITY CONTROL
01330	TESTING
01400	CLARIFICATION AND MODIFICATION OF WORK
01500	SUBMITTALS
01600	PROGRESS PAYMENTS
01620	MEASUREMENT & PAYMENT
01700	PROJECT RECORD DRAWINGS
01710	CONTRACT CLOSEOUT PROCEDURES

DIVISION 2 - SITE PREPARATION

02100	SITE SAFETY
02200	TRAFFIC CONTROL AND PROTECTION
02300	CONSTRUCTION SURVEY WORK
02320	SITE SECURITY
02400	SITE PREPARATION

DIVISION 5 – STORM SEWER

05100	STORM SEWER PIPE
05110	STORM SEWER MANHOLES
05600	PIPE CLEANING & CCTV

APPLICABLE SPECIFICATIONS

The following St. Helens Technical Specifications are applicable to the Work on this Project, as modified herein, and included in the project-specific Contract Documents.

These Specifications take precedence over the 2021 Oregon Standard Specifications for Construction (OSSC), as modified by Special Provision for this Project. Where a conflict arises, the St. Helens Technical Specification shall prevail.

## SECTION 01100

### SUMMARY OF WORK

#### 1.1 GENERAL

These general requirements, special provisions, and technical specifications supplement and amplify certain sections of the Standard Terms and Conditions for Public Improvement Contracts, and Supplementary General Conditions. Work shall be in accordance with the 2021 or most current version of the Oregon Standard Specifications for Construction (OSSC), including all revisions at date of bid opening except as may be modified herein. These specifications shall apply in all particulars insofar as they are applicable to this project. In the case of discrepancy, unless noted herein, the more restrictive provisions shall apply.

#### 1.2 SCOPE OF WORK

This project includes the installation of approximately 1260 feet of concrete curb & gutters, sidewalk, retaining walls, curb ramps, storm drainage and the installation of a rapid flashing beacon along Columbia Blvd. Work also includes the installation, maintenance, and removal of temporary traffic control and erosion control measures, rock excavation, and the removal and replacement of existing pavement.

The general outline of the principal features of the work does not in any way limit the responsibility of the Contractor to perform all work and furnish all equipment, labor, and materials necessary to successfully complete the work required by the Contract Documents. The Contractor shall not change any material, design values, or procedural matters stated or approved herein, without informing the Engineer and receiving written approval of the change. Unapproved changes shall be considered unauthorized work and shall result in rejection and removal of work done with the unapproved materials or with an unapproved process at no cost to the City.

#### 1.3 LOCATION OF WORK

Work on this project is located within the city limits of St. Helens, Oregon as shown on the vicinity map on Sheet A01 of the project plans.

#### 1.4 INTENT OF WORK

The intent of the Work is to produce a complete and finished work, which the Contractor undertakes to do in full compliance with the Contract Documents, properly installed watermain and associated appurtenances which meet all specifications as described in these Contract Documents. It is not intended to mention every item of work in the specifications that can be adequately shown on the drawings nor to show on the drawings all items of work described or required by the specifications. All materials or labor for work shown on the drawings or reasonably inferable therefrom as being necessary to produce a finished job shall be provided by the Contractor whether not it is expressly covered in the specifications. The Contractor shall do all work as provided in the plans, specifications, special provisions, bid and contract, and shall do such additional extra work as may be considered necessary to complete the work in a satisfactory manner acceptable to the City.



## SECTION 01120

### DEFINITIONS AND REGULATORY REQUIREMENTS

#### 1.1 DEFINITIONS

In addition to the words and terms defined herein, the following shall be understood to have the meanings given:

- Owner/City Columbia County
- Engineer David Evans & Associates, Inc.
- Project Manager City of St. Helens
- Construction Inspector City of St. Helens
- County Columbia County
- Sewer District City of St. Helens
- Water District City of St. Helens
- Gas Company Northwest Natural Gas
- Power Company Columbia River PUD
- Telephone Company Lumen/Century Link
- Cable Company Comcast Cable
- Fire Department Columbia River Fire & Rescue

#### 1.2 ABBREVIATIONS

- AASHTO American Association of State Highway and Transportation Officials
- ACI American Concrete Institute
- ADA Americans with Disabilities Act
- ANSI American National Standards Institute
- ASTM American Society for Testing and Materials
- AWWA American Water Works Association
- BOLI Oregon Bureau of Labor & Industries
- DEQ Department of Environmental Quality, State of Oregon
- EPA U.S. Environmental Protection Agency
- IBC International Building Code
- MUTCD Manual on Uniform Traffic Control Devices
- NACWA National Association of Clean Water Agencies
- NASSCO National Association of Sewer service Companies
- NEC National Electrical Code
- NESC National Electrical Safety Code
- OAR Oregon Administrative Rules
- ODOT Oregon Department of Transportation
- OR-OSHA Oregon Occupational Safety & Health Administration
- ORS Oregon Revised Statutes
- OSSC Oregon Standard Specifications for Construction
- UBC Uniform Building Code (as adopted by the State of Oregon)
- UMC Uniform Mechanical Code
- UPC Uniform Plumbing Code (as adopted by the State of Oregon)

### 1.3 CODE REQUIREMENTS

All work shall be done in strict compliance with the requirements and current revisions, as applicable, of:

- Oregon Standard Specifications for Construction (OSSC)
- Oregon Department of Transportation (ODOT)
- Uniform Plumbing Code
- Uniform Mechanical Code
- National Electric Code
- National Electric Safety Code
- City of St. Helens Engineering Standards Manual (Municipal Code Title 18)
- City of St. Helens Development Code
- State of Oregon Bureau of Labor and Industries (BOLI)
- Oregon Department of Environmental Quality (DEQ)
- Manual of Uniform Traffic Control Devices (MUTCD)
- American National Standards Institute (ANSI)
- American Water Works Association (AWWA)

In case of disagreement between these codes or specifications, the more restrictive shall prevail.

### 1.4 PREVAILING WAGE RATES FOR PUBLIC WORKS CONTRACTS

Prevailing wage rates apply for public works construction projects costing over \$50,000. If a project begins with a total project cost under \$50,000, but change orders increase the project cost to more than \$50,000, the entire project will be subject to the prevailing wage rate law, including all work already performed on the project. OAR 839-025-0100(1)(a).

For each labor classification, the Contractor shall abide by the requirements of the prevailing wage rates for the State of Oregon Bureau of Labor and Industries (BOLI), as required. Applicable Oregon prevailing wage rates are contained in the publication, Prevailing Wage Rates for Public Works Contracts in Oregon. Effective July 1, 2022. ORS 279C.830(1)(a). The Contractor and every subcontractor must have a public works bond filed with the Construction Contractors Board before starting work on the project, unless exempt. ORS 279C.830(2); OAR 839-025-0020(4).

### 1.5 PERMITS, FEES, AND LICENSES

Unless provided for otherwise in these Contract Documents, all permits, licenses, and fees shall be obtained by the Contractor and all costs shall be borne by the Contractor. Contractor shall be responsible for compliance with all permit provisions and shall accommodate all special inspections required thereof, all at no additional expense to the City beyond prices as bid. Contractor and Subcontractors shall obtain required business licenses from the City of St. Helens. Contractor shall stay fully informed of all permits required by various jurisdictions having authority over the Work and shall also bear all costs of fines or claims arising from, or based on, the violation of permit requirements.

There will be no measurement of work performed under this section and all permit requirements will be considered incidental to the work and no separate payment will be made.

### 1.6 US MAIL SERVICE

Contractor shall comply and cooperate fully with the requirements of the local authority of the U.S. Postal Service to maintain mailboxes and uninterrupted mail service during construction.

## 1.7 ADDITIONS OR DELETIONS TO THE OSSC

1. Section 120.00. ADD: Pre-qualification is required. Bidders are required to be registered with the State of Oregon Construction Contractors Board, pursuant to ORS701-055 (1), prior to submitting proposal.
2. Section 120.65. ADD: In the event that the product of a unit price and an estimated quantity do not equal the extended amount quoted, the unit price shall govern, and the correct product of the unit price and the estimated quantity shall be deemed to be the amount bid. If the sum of two or more items in a bidding schedule does not equal the total amount(s) quoted, the individual item amounts shall govern the correct total and shall be deemed to be the amount bid.
3. Section 1150. ADD: Public Works Supervisor, Dave Elder, (503) 397-3532 must be notified 48 hours in advance to coordinate any taps and or water valve operation. The Contractor is not allowed to operate any water valves controlling flow to or from the City's potable water system.
4. Section 120.25. ADD: No subsurface information is available.
5. Section 280. ADD: In addition to the requirements stated, the Contractor shall provide to the City for review and approval prior to construction, a definitive procedure or system of watering for dust control. There will be no separate payment made for dust control and the costs therefore shall be borne by the Contractor.
6. Section 170.70. ADD: Insurance coverage shall be in the amount specified in the "STANDARD TERMS & CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS". The Contractor shall also protect the City, its officers, agents, and employees and name them as an additional insured party.
7. Section 170.65. ADD: The general wage decision provided is the latest information available. It is the Contractor's responsibility to establish the prevailing rate of wages, which is in effect ten (10) days prior to bid opening in Columbia County.
8. Section 170.10. ADD to the first paragraph the following: The Contractor shall also:
  - a. Pay all contributions or amounts due the Industrial Accidental Fund from such Contractor or subcontractor incurred in the performance of the contract.
  - b. Not permit any lien or claim to be filed or prosecuted against the City of St. Helens or subdivision thereof, on account of any labor or material furnished.
  - c. Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167
9. Section 180.41. ADD: The Contractor shall submit a written schedule prior to or at the pre-construction conference. The written schedule shall be updated on a weekly basis and submitted to the City for the duration of construction activities.

10. Section 195. ADD: Payment for Work. All parts of the work shown on the plans and not specifically identified in the proposal shall be considered incidental and, therefore, not subject to additional compensation.

11. Section 197.40. ADD: Invoices. Additive or deductive change orders, initiated after start of construction, shall generally be bound in form and submittal to the following requirements:

- a. Breakdown, from the general and/or subcontractor and/or supplier, shall be provided to the City indicating deductive costs by item or scope for labor, materials, equipment, permits, fees, and bonds.
- b. Time logs shall indicate dates and times for work performed, and by whom; and labor costs provided shall be by man/by rate per prevailing wage certifications as submitted to Labor Department.
- c. Breakdown, from the general and/or subcontractor and/or supplier, shall be provided to the City indicating additive costs by item or scope for labor, materials, equipment, permits, fees and bonds.
- d. Mark-up for overhead, including permits and bonds, relative to direct or indirect additive costs by General Contractor or subcontractor shall not exceed the ten (10) percent of the additive work.
- e. Profit relative to direct or indirect additive costs by General Contractor or subcontractor shall not exceed five (5) percent of the additive work.
- f. Change orders shall first indicate deductive costs then additive costs by item or scope in this sequence...labor, materials, equipment, overhead, and profit.

12. Section 195.80. DELETE: Allowance for Materials on Left Hand.

13. Section 405. ADD: Excavation is classified as common.

## SECTION 01200

### PROJECT MEETINGS

#### 1.1 PRE-BID CONFERENCE

No Pre-Bid Conference is scheduled for this project; however, Bidders are strongly encouraged to visit the project sites at any time during the bidding phase of the project at their convenience.

#### 1.2 PRE-CONSTRUCTION CONFERENCE

Prior to Contractor mobilization, a mandatory Pre-Construction Conference will be scheduled by the City's Project Manager. Representatives of the City, Contractor, subcontractors, and appropriate utility representatives shall attend. The purpose of this meeting will be to review and discuss the proposed methods and practices for accomplishing the required work, job site procedures, roles and responsibilities, schedule, and other requirements of the Contract. Contractor shall submit a detailed construction schedule, list of emergency contacts, and list of subcontractors, and other required documentation listed on the Project Documentation Checklist of the Supplementary section of these Contract Documents before or at the meeting for discussion.

#### 1.3 CONSTRUCTION PROGRESS MEETINGS

Regular project progress meetings may be scheduled by the City's Project Manager. Project progress meetings shall be attended by representatives of the City, the Contractor's project manager and jobsite superintendent. Progress meetings may, at a minimum, be held every 30 days after the start of construction and at a maximum be held every two weeks. The Project Manager may adjust frequency and location of meetings, as necessary. In general, progress meetings shall review work progress, discuss field observations, problems and conflicts, construction schedule, and other project business.

#### 1.4 PROJECT WALKTHROUGH

When the project is nearing completion, the City's Project Manager will schedule a walkthrough to be attended by representatives of the City and Contractor. A final project punch list will be developed from the walkthrough in the form of a list of tasks or items that need to be fixed or completed before Final Acceptance.

#### 1.5 PROJECT CLOSEOUT MEETING

The project closeout meeting will generally be held virtually and shall be attended by representatives of the City and Contractor. The purpose of the project closeout meeting is for the City and Contractor to review the project i.e., what went well, what were the challenges, and to identify the lessons learned and establish recommended future actions for future projects.

## SECTION 01210

### ROLES & RESPONSIBILITIES

#### 1.1 OWNER'S AUTHORITY AND RESPONSIBILITIES

The City has full authority over the Work and shall identify a representative or representatives to act on its behalf with respect to the project.

##### A. The Engineer

The Engineer has full authority over the Work and its suspension. The Contractor shall perform all Work to the complete satisfaction of the Engineer. The Engineer's determination shall be final on all matters, including, but not limited to, the following:

- Quality and acceptability of materials and workmanship
- Measurement of unit price Work
- Timely and proper prosecution of the Work
- Interpretation of Contract Documents
- Payments due under the Contract

Work performed under the Contract will not be considered complete until it has passed Final Inspection by the Engineer and has been accepted in writing by the City. Interim approvals issued by the Engineer will not discharge the Contractor from responsibility for errors in prosecution of the Work, for improper fabrication, for failure to comply with Contract requirements, or for other deficiencies, the nature of which are within the Contractor's control.

The Engineer's decisions will be final and binding. The Engineer may pursue actions against the Contractor, including but not limited to the withholding of estimates and suspending the work for noncompliance of the Contract. The Engineer may suspend the work without suspending working day charges for noncompliance of the Contract.

Engineer's decisions and estimates shall be final.

##### B. Project Manager

The Project Manager, as the Engineer's representative, has the authority to enforce the provisions of the Contract. The Contractor shall direct all requests for clarification or interpretation of the Contract, in writing, to the Project Manager. Contract clarification or interpretation obtained from persons other than the Project Manager will not be binding on the City. The Project Manager shall have the authority to appoint inspectors and other personnel as required to assist in the administration of the Contract, to observe, test, inspect, approve, accept or reject work, and answer all questions arising under the terms of the Contract.

The Project Manager manages all aspects of the project, including reviewing and approving construction plans, changes in construction, submittals, shop drawings and supporting calculations, and ensuring project compliance with all codes and ordinances and established engineering standards. The Project Manager manages the project's bid process, holds bid conferences, pre-construction conferences, project meetings, evaluates bids, makes bid award recommendations, and reviews

contractor pay requests, coordinates work with Contractor and other agencies, resolves construction difficulties and problems and makes adjustments in original designs as needed; performs inspections, and oversees all aspects of project closeout.

### **C. Project Construction Inspector**

The City Project Construction Inspector is authorized to represent the Engineer and Project Manager to perform the following:

- Inspect Work performed and materials furnished, including, without limitation, the preparation, fabrication, or manufacture of materials to be used
- Verbally reject defective materials and to confirm such rejection in writing
- By verbal order, temporarily suspend the Work for improper prosecution pending the Engineer's or Project manager's decision
- Monitoring both work progress and performance testing results
- Inform the city engineer of all proposed plan changes, material changes, stop work orders, or errors or omissions in the approved plans or specifications as soon as practical. Any revision to approved plans must be under the direction of the engineer. It shall be at the discretion of the city's project inspector as to whether the revision is significant enough to warrant review by the city engineering plan review/permits unit.

Project Construction Inspector is not authorized to:

- Accept Work or materials that do not conform to the Contract Documents
- Alter or waive provisions of the Contract
- Give instructions or advice inconsistent with the Contract Documents

## **1.2 CONTRACTOR'S AUTHORITY AND RESPONSIBILITIES**

The Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Contractor shall ensure the completed work complies with the Contract Documents and shall supervise, direct, and control the work competently and efficiently. Contractor shall devote such attention thereto and applying such skill and expertise as necessary to perform the work in accordance with the Contract Documents and shall provide competent, qualified personnel to survey and lay out the work and to perform construction as required by the Contract Documents.

The Contractor shall do all work and furnish all labor, materials, equipment, tools, and machines necessary for the performance and completion of the project in accordance with Contract Documents within the specified time. Materials and construction details of forms, shoring, false work, and other structures built by the Contractor but not a part of the permanent project, shall meet approval of the Engineer, but such approval shall not relieve the Contractor from responsibility for their safety and efficiency.

The City shall not be liable or responsible for any accident, loss, or damage happening to work referred to in the Contract Documents prior to completion and acceptance thereof.

Contractor shall at all times maintain good discipline and order at the site. At the written request of the Engineer, the Contractor shall immediately remove from the project any employee or representative of the Contractor or a subcontractor who, in the opinion of the Engineer, does not perform work in a proper and skillful manner or who is disrespectful, intemperate, disorderly, uncooperative, or otherwise objectionable. Such person shall not be employed again on the work. The Contractor, acting through an approved designated superintendent, shall give personal attention to and shall manage the work to the end that it

shall be prosecuted faithfully. When the superintendent is not personally present at the job site, an alternate previously designated representative shall be available and shall have the authority to act on the Contract. The Contractor alone shall at all times be responsible for the safety of his and his subcontractor's employees.

### **1.3 COMPETENT PERSON DESIGNATION**

The Contractor shall designate, in writing, a qualified and experienced competent superintendent at the site whose duties and responsibilities shall include the enforcement of Oregon - OSHA regulations regarding excavations, the prevention of accidents, and the maintenance and supervision of construction site safety precautions and programs. The Superintendent must be experienced with the work being performed and capable of reading and understanding the Contract. The Contractor shall ensure the Superintendent is available at all times and able to receive instructions from the Engineer or authorized representatives and to act for the Contractor. The Engineer may suspend work without suspending working day charges if a Superintendent is not available or does not meet the above criteria. The designated superintendent shall not be replaced without written notice to Engineer except under extraordinary circumstances. An alternate representative may be designated. The alternate representative shall be present at the site whenever Work is in progress. Any order or communication given to this representative shall be deemed delivered to the Contractor.

In the absence of the Superintendent or his designated representative, necessary or desirable directions or instructions may be given by the Engineer to the superintendent or foreman having charge of the specific Work to which the order applies. Such order shall be complied with promptly and referred to the Contractor or his representative. The designated Superintendent will act as the Contractor's representative and shall have the authority to act in all matters relating to this Contract. The superintendent shall have full authority to carry out all the provisions of the Contract and to supply materials, equipment, tools and labor without delay.

### **1.4 EMERGENCY MAINTENANCE SUPERVISOR**

The Contractor shall submit to the Engineer the names, addresses and telephone numbers of at least three employees responsible for performing emergency maintenance and repairs when the Contractor is not working. These employees shall be designated, in writing by the Contractor, to act as its representatives and shall have full authority to act on its behalf. At least one of the designated employees shall be available for a telephone call any time an emergency arises with a maximum of one hour allowed to return phone call.

The Contractor will be responsible for reimbursing the City for all costs incurred by the City for performing emergency maintenance and repairs when the Contractor does not respond to the emergency calls or does not complete the emergency maintenance or repair.



## SECTION 01220

### COORDINATION OF WORK

#### 1.1 COORDINATION OF CONTRACT DOCUMENTS

Drawings and specifications are intended to describe and provide for a complete work. Any requirement in one is as binding as if stated in all. The Contractor shall provide any work or materials clearly implied in the Contract Documents even if the Contract Documents do not mention it specifically. If there is a conflict within the Contract Documents, it will be resolved by the following order of precedence:

- Contract change orders
- Addenda to Contract Documents
- Technical Specifications & Special Provisions
- Bidding Rules and Contract Documents
- Plan drawings specifically applicable to the Project and bearing the Project title
- Contractor's Approved Proposal
- Outside agencies permits/requirements as may be required by law or loan agreements
- General and Supplementary Conditions of the Contract
- Standard Drawings
- Oregon Standard Specifications for Construction (most current version at bid opening)
- Reference Specifications

Change Orders, supplemental agreements, and approved revisions to Contract Drawings and specifications will take precedence over documents listed above. Detailed plans shall have precedence over general plans. Dimensions shown on Contract Drawings of that which can be computed shall take precedence over scaled dimensions. Notes on drawings are part of the drawings and govern in the order described above. Notes on drawings shall take precedence over drawing details. The intent of the drawings and specifications is to prescribe the details for the construction and completion of the work which the Contractor undertakes to perform according to the terms of the Contract.

Where the drawings or specifications describe portions of the work in general terms, but details are incomplete or silent, it is understood that only the best general practice is to prevail and that only materials and workmanship of the best quality are to be used. Unless otherwise specified, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals, and do all the work involved in executing the Contract in a manner satisfactory to the City.

Contract Drawings for the project are designated by general title, sheet number and sheet title. The specific titles of each sheet are contained on Sheet A02 in of the Contract Drawings. When reference is made to the drawings, the "Sheet Number" of the drawing will be used. Each drawing bears the general title, COLUMBIA BOULEVARD SIDEWALK, Project No. R-679A.

#### 1.2 CONFORMITY WITH PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS

Contractor shall furnish materials and perform work in reasonably close conformity with the lines, grades, cross-sections, dimensions, details, gradations, physical and chemical characteristics of materials, and other requirements shown in the Contract. Reasonably close conformity limits will be as defined in the respective items of the Contract or, if not defined, as determined by the Engineer. Contractor shall obtain approval before deviating from the plans and approved working drawings. The Contractor shall not perform

work beyond the lines and grades shown on the plans or any extra work without prior approval from the Engineer. Work performed beyond the lines and grades shown on the plans or any extra work performed without prior approval from the Engineer is considered unauthorized and shall be excluded from pay consideration. The City will not pay for materials rejected due to improper fabrication, excess quantity, or any other reason within the Contractor's control.

### 1.3 NOTIFICATION OF UTILITIES AND AGENCIES

Utility locations shown on Contract Drawings are approximated. Contractor shall secure utility locates and pothole all known utility locations to determine utility depths prior to the commencement of any construction as needed. Before starting any site work, Contractor shall call One Call at 1-800-332-2444 for utility locates and to notify utility agencies. The Contractor is responsible for verifying the locations of all existing utilities prior to work. All excavators performing work on this project must comply with all the provisions of ORS 757.541 to 757.571, including notification of all owners of underground utilities at least forty-eight (48) business day-hours, but not more than ten (10) business days before commencing an excavation. Existing utilities, even if not specifically shown on the Contract Drawings or addressed in this document, that are damaged or disturbed by construction shall be restored and/or replaced to the original condition and up to the satisfaction of the utility owner at the Contractor's expense. In the event of damage to power, gas, telephone or any other underground utility system, the Contractor shall make available to the utility owner any manpower or equipment that will facilitate the repair and the continuation of scheduled work. All cost of repairs shall be the responsibility of the Contractor.

Before exposing any utility, the utility having jurisdiction shall grant permission and be provided the opportunity to oversee the operation, with advance notice provided as the individual utility requires. Should service of any utility be interrupted due to the Contractor's operation, the proper authority shall be notified immediately. It is of the utmost importance that the Contractor cooperates with the said authority in restoring the service as promptly as possible. Any costs shall be borne by the Contractor.

Utilities which may be impacted include the following:

- Streets                      City of St. Helens
- Watermain                  City of St. Helens
- Storm Sewer                City of St. Helens
- Sanitary Sewer             City of St. Helens
- Natural Gas                Northwest Natural Gas
- Power/Electricity         Columbia River PUD
- Telephone                 Century Link/Lumen
- Cable Company             Comcast

Contractor shall be responsible for the scheduling and coordination of the construction activities necessary to support the resolution of any utility conflicts with the appropriate utility agency. The City will not incur any financial responsibility for any construction delays related to the relocation of any utilities. If the Contractor fails to locate any known utility that interferes with construction, the cost of correcting the conflict shall be borne by the Contractor. Contractor shall be responsible for prompt notification to the City and the appropriate utility agencies of any known utility conflicts. Contractor shall give at least five (5) business days' notice to the City or utility agency if a conflict arises and relocation of an existing utility is necessary. In areas where the Contractor's operations are adjacent to or near a utility and such operations may cause damage which might result in significant expense, loss and inconvenience, the operations shall be suspended until all arrangements necessary for the protection thereof have been made by the Contractor.

There will be no separate payment made for the verification of utility depths or maintenance of utility markings and the costs thereof shall be considered incidental to construction.

#### 1.4 COORDINATION WITH UTILITIES AND OTHER CONTRACTORS

It is the Contractor’s responsibility to coordinate work with utility owners. The Contractor shall use established safety practices when working near utilities and shall consult with the appropriate utilities before beginning work. Contractor shall notify the Engineer immediately of utility conflicts. The Engineer will decide whether to adjust utilities or adjust the work to eliminate or lessen the conflict. Unless otherwise shown on the plans, the Contractor will make necessary arrangements with the utility owner when utility adjustments are required. Contractor shall use work procedures that protect utilities or appurtenances that remain in place during construction, cooperate with utilities to remove and rearrange utilities to avoid service interruption or duplicate work by the utilities, and allow utilities access to the right of way. Contractor shall immediately notify the appropriate utility of service interruptions resulting from damage due to construction activities.

The following table lists the utility contacts during the period of the Contract. This information is subject to change at any time without prior notification:

Utility	Owner	Utility Contact Person
Water, Sewer, & Storm	City of St. Helens	Dave Elder 984 Oregon St St. Helens, OR 97051 <a href="mailto:delder@sthelensoregon.gov">delder@sthelensoregon.gov</a> 503-936-8523
Natural Gas	Northwest Natural Gas	Rich Girard 220 NW Second Ave Portland, OR 97209 <a href="mailto:r2g@nwnatural.com">r2g@nwnatural.com</a> 503-226-4211 ext 2967
Power	Columbia River PUD	Brooke Sisco PO Box 1193, St. Helens, OR 97051 <a href="mailto:bsisco@crpud.org">bsisco@crpud.org</a> 503-366-3261
Telephone	Century Link/Lumen	Marco Galas 8021 SW Capitol Hill Rd Portland, OR 97219 <a href="mailto:Marco.galas@lumen.com">Marco.galas@lumen.com</a> 564-888-2024  Travis Coleman <a href="mailto:Travis.Coleman@lumen.com">Travis.Coleman@lumen.com</a>
Cable	Comcast	Ryan Hennessey Construction Dept 445 Port Ave Suite 1 St Helens, OR 97051 <a href="mailto:Ryan_Hennessey@cable.comcast.com">Ryan_Hennessey@cable.comcast.com</a> 360-846-8734

## 1.5 SITE INVESTIGATION AND PHYSICAL DATA

The Contractor acknowledges that it is satisfied as to the nature and location of the work and the general and local conditions, including but not limited to those bearing upon transportation, disposal, handling, and storage of materials. The Contractor shall verify all dimensions, quantities, and details shown on the Plans, Supplementary Drawings, Schedules, Specifications, or other data received from the Engineer, and shall notify the Engineer of all errors, omissions, conflicts, and discrepancies found therein. The Contractor shall assume all responsibility for making estimates of the size, kind, and quality of materials and equipment included in work to be done under the Contract. Any failure by the Contractor to become acquainted with the available information and existing conditions will not be a basis for relief from successfully performing the work and will not constitute justification for additional compensation. The Contractor shall verify the locations existing of structures, pipelines, grades, and utilities as needed, prior to construction. The City assumes no responsibility for any conclusions or interpretations made by the Contractor on the basis of the information made available. Information and data furnished or referred to herein is furnished for information only.

## 1.6 MEANS AND METHODS OF CONSTRUCTION

Unless otherwise expressly provided in the Contract Documents, the means and methods of construction shall be such as the Contractor may choose; subject, however, to the Engineer's right to prohibit means and methods proposed by the Contractor which in the Engineer's judgment:

- shall constitute a hazard to the work, or to persons or property, or shall violate express requirements of applicable laws or ordinances; or
- shall cause unnecessary or unreasonable inconvenience to the public; or
- shall not produce finished work in accordance with the requirements of the Contract documents; or
- shall not assure the work to be completed within the time allowed by the Contract.

The Engineer's approval of the Contractor's means or methods of construction, or the Engineer's failure to exercise Engineer's right to prohibit such means or methods, shall not relieve the Contractor of its responsibility for the work or of its obligation to accomplish the result intended by the Contract Documents; nor shall the exercise or non-exercise of such rights to prohibit create a cause of action for damages or provide a basis for any claim by the Contractor against the City. Where the Contract Documents do not require the use of specific means or methods for the Work, the Contractor shall submit its proposed means and methods of construction to the Engineer sufficiently in advance of the work affected to permit a reasonable time for review and comments. The means and methods of construction must be approved in advance by the Engineer before construction begins. Failure to submit the proposed plan within a reasonable time shall not create a claim for damages for resulting delay in the work or for damages, nor shall it be a cause for extension of working time to complete the work. Contractor further agrees to defend and indemnify City for any claim or cause of action brought by any third party against the City.

## SECTION 01230

### ACCESS TO WORK

#### 1.1 ACCESS TO WORK

The City, Engineer, their consultants and other representatives and personnel of the City, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply therewith as applicable.

#### 1.2 ACCESSIBILITY OF PRIVATE ROADS AND DRIVEWAYS

Entrances to properties shall be provided and maintained. No private road or driveway may be closed without prior written permission by the affected property owner. Driveways shall be left open and ready for use at the end of the work shift. All expenses involved in providing for construction, maintenance, and use of private roads or driveways, shall be borne by the Contractor and the amount thereof absorbed in the unit prices of the Contractor's bid.

#### 1.3 CONSTRUCTION WITHIN PUBLIC RIGHTS-OF-WAY

When the work contemplated is wholly or partly within the right-of-way of a public agency such as a city, county or state, the Contractor will obtain from these agencies any right-of-way and street opening permits and all other necessary permit(s) required for the work. The Contractor shall abide by all regulations and conditions stipulated in the permit(s). Such conditions and requirements are hereby made a part of these specifications, as fully and completely as though the same were fully set forth herein. The Contractor shall examine the permit(s) granted to the Owner by any city, county, state and federal agencies. Failure to do so will not relieve the Contractor from compliance with the requirements stated therein. The Contractor shall obtain all construction permits and pay all fees or charges and furnish any bonds and insurance coverages as necessary to ensure that all requirements of the city, county, state or federal agencies will be observed and roadways and ditches are restored to their original condition or one equally satisfactory. A copy of all permits shall be kept on the work site for use of the Engineer.

#### 1.4 CONSTRUCTION WITHIN EASEMENTS ON PRIVATE PROPERTY

When portions of the work contemplated are within easements held by the City on private property, the Contractor shall ascertain for itself to what extent the width, status and special conditions attached to easements may have on its operations and all costs resulting therefrom shall be included and absorbed in the unit prices of the Contractor's bid. Contractor shall coordinate with private property owners and businesses if required. Landscaping, surface restoration and fence restoration shall be completed within 72 hours following piping installation and other construction work. Temporary fencing shall be provided continuously until such private fencing is properly restored.

The Contractor is responsible for site safety and the protection of property. Certain portions of this project may require working in close proximity to existing structures and private property. It is the Contractor's responsibility to conduct its operations and limit the size of equipment used in such a manner so as to prevent damage to existing property from excessive vibration or from other direct or indirect Contractor operations. The cost associated with repairing or replacing property that is damaged by the Contractor's operations shall be the responsibility of the Contractor, in accordance with the General Conditions. When

portions of this project require working in close proximity to private homes and businesses, it is the Contractor's responsibility to conduct its operations in a manner that respects residents and others with regard to strong language, garbage, ensuring that pets are not allowed to escape. Contractor shall adequately cover and barricade any open excavation to eliminate potential hazards to the property owner or others during construction.

## SECTION 01300

### CONSTRUCTION DOCUMENTATION

#### 1.1 DOCUMENTATION

The following is a general list of documentation the Contractor shall provide to the Project Manager at various phases of the project. The Contractor is responsible for providing all materials, labor, and transportation for required construction documentation on this project.

##### A. Door Hangers

The Contractor is required to notify all residences and businesses in the project area of the Work at least 48-hours prior. The Contractor shall prepare and submit to the Project Manager a sample of their 48-Hour Notice of Construction door hanger template for approval prior to distribution. 48-Hour Notices shall have listed, at a minimum,

- The Contractor's 24-hour contact person's name and number
- The name of the project
- And the expected date of the work

The contact number on the notice shall remain unchanged throughout the duration of project. Notifications shall be distributed to all properties in the construction zone. A list of property owners and addresses for the properties in the construction zone will be provided to the successful Contractor, upon request.

##### B. Pre-Construction and Post-Construction Site Documentation

The Contractor shall perform pre-construction inspection video recordings and photographs of the existing surface and property conditions prior to the commencement of any work on site, including project staging, mobilization, and demolition. The pre-construction site video and photos shall be submitted to the Project Manager not less than ten days following the notice to proceed.

Upon completion of the project construction, the Contractor shall perform post-construction video recordings and photographs consistent with the pre-construction inspection video recordings and photographs, showing same catalog of surface items, locations, and surface and property conditions within project limits and submit to the Project Manager prior to submitting Exhibit F, Certificate of Compliance.

The areas to document will generally include,

- Road surface conditions
- Private Driveways
- Paved walkways
- Trees, shrubs, flower beds
- Fences and gates
- Retaining walls
- House foundations
- Parked vehicles

- Outdoor fixtures (sheds, lights, furniture, etc.)
- Any visible pre-existing conditions such as broken sidewalks, fences, etc.
- Unpaved ground conditions (lawn conditions, etc.)

Recorded video media for site documentation shall be submitted on a flash drive and viewable as standard MP4 file format. Photos shall be submitted in JPEG format. There will be no separate payment made for construction documentation and the costs thereof shall be considered incidental to "Mobilization, Bonds, Insurance, and Demobilization".



## SECTION 01310

### PROJECT SCHEDULE AND TIMELINE

#### 1.1 NOTICE TO PROCEED

The Notice to Proceed with construction will be issued to the Contractor after the Contractor submits the signed Contract, Bonds, and Insurance Certificates to the City and those documents have been approved as to form and executed by the City. Generally, work shall begin within five days following issuance of the Notice to Proceed.

The Contractor shall be liable for any actions taken that delay, suspend, or retard the progress of work without the express written permission on the City and no additional Contract Time or Price shall be granted if the Engineer decides the cause of delay was solely caused by Contractor's actions. Contractor shall prosecute the work continuously to completion within the working days specified. Unless otherwise shown on the plans, work may be prosecuted in concurrent phases. The Contractor shall notify the Project Manager at least 24 hours before beginning work or before beginning any new operation.

#### 1.2 TIME OF COMPLETION

The Contractor shall complete all work shown and specified within the time limits stated in the Agreement. All work on this project shall be completed by December 31, 2023, or as authorized by the City. Once started, the Work on shall continue uninterrupted except by weekends, authorized holidays, severe weather, or by written agreement with the City for an agreed upon time.

#### 1.3 WORKING HOURS, OVERTIME, AND HOLIDAY WORK

Work shall be performed during normal working hours in St. Helens:

Mon – Fri: 8:00 A.M. – 4:30 P.M. Sun – Sat – Holidays: None

The Contractor is limited to these working hours unless permission is requested in writing and pre-approved by the Engineer. The Contractor will not be allowed to work during the hours of 10:00 P.M. to 7:00 A.M. as set by City of St. Helens Municipal Code Noise Regulations 8.16. The number of working days provided in the Contract is considered to be sufficient time to complete the project. There will be no separate payment made for working outside of normal work hours and the costs thereof shall be considered incidental to construction.

#### 1.4 PROJECT SCHEDULE

Project Schedule -- Contractor shall prepare and submit a practicable Gantt chart schedule to the Engineer within ten (10) days after the Notice to Proceed. The schedule shall show at a minimum:

- Critical path
- Dates on which important features of the work will start
- Order in which Contractor proposes to carry out the work
- Estimated dates for completion of tasks

Schedule is to be updated whenever the Contractor's progress deviates from the previously approved schedule by more than 10 percent.

## 1.5 CONSTRUCTION DELAYS AND EXTENSION OF TIME

The Contractor shall notify the Project Manager immediately upon encountering any condition that the Contractor believes may cause a claim for a time extension. The Contractor shall be entitled to an extension of working time under this Contract only when claim for such extension is submitted to the City in writing by the Contractor within fourteen (14) days from and after the time when any alleged cause of delay shall occur, and then only when such time is approved by the City in writing.

In adjusting the Contract Time for the completion of the project, unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including but not restricted to inability to obtain supplies and materials when orders for such supplies and materials were timely made and materials are not available from other sources, naturally occurring inevitable unavoidable accidents, or public enemy acts, acts of the City, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather conditions, ozone alerts as determined by the National Weather Bureau or other authorized agency, or delays of subcontractors due to such causes beyond their control shall be taken into consideration. If the satisfactory execution and completion of the Contract should require work and materials in greater amounts or quantities than those set forth in the Contract, requiring more time for completion than the anticipated time, then the Contract time shall be increased, but not more than in the same proportion as the cost of the additional work bears to the cost of the original work contracted for.

No allowances shall be made for delays or suspension of the performance of the work due to the fault of the Contractor. No adjustment of the Contract time shall be made if, concurrently with the cause for delay, hindrance, disruption, force majeure, impact or interference, there existed a cause for delay due to the fault or negligence of the Contractor or Contractor's agents, employees or subcontractors. Notwithstanding any other provisions of the Contract Documents, including the General and Special Provisions, no adjustment shall be made to the Contract price and the Contractor shall not be entitled to claim or receive any additional compensation as a result of or arising out of any delay, hindrance, disruption, force majeure, impact or interference, foreseen or unforeseen, resulting in adjustment of the Contract time to complete the project, including but not limited to those caused in whole or in part by the acts, omissions, failures, negligence or fault of the City, its officers, officials, agents, Engineer, Consulting Engineer or employees. This provision is intended to cover all delays except as prohibited by law.

## 1.6 LIQUIDATED DAMAGES

The City will sustain damage if the work is not completed within the specified Contract Time. Not as a penalty but as liquidated damages, the Contractor agrees to pay to the City the amount specified in the Standard Terms and Conditions for Public Improvement Contracts section in this Contract for each Calendar Day the Contractor expends performing the Contract in excess of the Contract Time or adjusted Contract Time.

Payment by the Contractor of liquidated damages does not release the Contractor from its obligation to fully and timely perform the Contract according to its terms. Nor does acceptance of liquidated damages by the City constitute a waiver of the City's right to collect any additional damages it may sustain by reason of the Contractor's failure to fully perform the Contract according to its terms. The liquidated damages shall constitute payment in full only of damages incurred by the City due to the Contractor's failure to complete the Work on time. Liquidated damage payment to the City in the event the Contractor does not complete the work in the specified Contract Time shall be in the amount of One Hundred Fifty Dollars (\$150.00) assessed for each calendar day of delay, including holidays and weekends, and shall run continuously until the work is substantially complete.

## SECTION 01320

### QUALITY CONTROL

#### 1.1 WORKMANSHIP

The work shall be performed in accordance with the best modern practice with materials and workmanship of the highest quality and suitable for their purpose. The Engineer shall judge and determine the Contractor's compliance with these requirements. The Contractor shall ensure all work is of good quality, free from faults, defects, inferior materials, or equipment, will be performed by experienced knowledgeable personnel, and be in conformance with the Contract Documents. All work not conforming to these requirements, including substitutions not properly approved or authorized, shall be considered defective unless specifically accepted by the City.

#### 1.2 INSPECTION OF WORK

It is the intent of the City to inspect all work on this project. The Contractor must pay for all testing needed to determine acceptability for any work done without inspection, as directed by the Engineer. The Contractor shall furnish the City with every reasonable facility for ascertaining whether the work performed was in accordance with the requirements and intent of the plans and specifications. Contractor shall provide safe access to all parts of the work and provide information and assistance to the Engineer to allow a complete and detailed inspection. Contractor shall give the Inspector or the Engineer sufficient notice to inspect the work. Work performed without suitable inspection, as determined by the Engineer, may be ordered removed and replaced at Contractor's expense. The Contractor shall remove or uncover portions of finished work as directed, and once inspected, restore work to Contract requirements. The City will provide general construction inspection services of the project. The City will not provide any special inspections services for the project.

#### 1.3 QUALITY OF MATERIALS

The Contractor shall incorporate into the Work only materials conforming to the specifications and approved by the Engineer. The Contractor shall incorporate into the Work only manufactured products made of new materials unless otherwise specified in the Contract. The City may require additional testing or retesting to determine whether the materials or manufactured products meet specifications. Materials or manufactured products not meeting the specifications at the time they are to be used are unacceptable and must be removed immediately from the Project Site, unless otherwise directed by the Engineer.

#### 1.4 "OR EQUAL" CLAUSE

To establish a basis of quality, certain processes, types of machinery and equipment or kinds of material may be specified on the drawings or herein by designating a manufacturer's name and referring to its brand or product designation. It is not the intent of these specifications to exclude other processes, equipment or materials of a type and quality equal to those designated. When a manufacturer's name, brand or item designation is given, it shall be understood that the words "or equal" follow such name or designation, whether in fact they do so or not.

If the Contractor desires to furnish items by manufacturers other than those specified, he shall secure the approval of the Engineer prior to placing a purchase order. No extras will be allowed the Contractor for any changes required to adopt the substitute equipment, materials, or processes. Therefore, the Contractor's proposal for an alternate shall include all costs for any modifications to the drawings, such as additional

pipng or changes in pipng, or other modifications which may be necessary or required for approval and adoption of the proposed alternate equipment.

### **1.5 MATERIALS AND EQUIPMENT**

The Contractor warrants to the City that all materials and equipment furnished under this Contract shall be new unless otherwise specified in the Contract and that same shall be of good quality and workmanship, free from faults and defects and in conformance with the Contract documents. All materials and equipment furnished by the Contractor shall be subject to the inspection and approval of the City. No material shall be delivered to the work without prior approval of the City. All materials and equipment not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective and shall be promptly repaired or replaced by the Contractor at the Contractor's sole cost upon demand of the City. If required by the City, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

### **1.6 REMOVAL OF UNACCEPTABLE AND UNAUTHORIZED WORK**

All work which has been rejected or condemned shall be repaired. If it cannot be repaired satisfactorily, it shall be removed and replaced at the Contractor's expense. Defective materials shall be immediately removed from the site of the work. Work done without line and grade having been given, work done beyond the lines or not in conformity with the grades shown on the plans or as given, save as herein provided, work done without written authority and prior agreement in writing as to process, shall be done at the Contractor's risk and considered unauthorized and at the option of the Engineer may not be measured and paid for and may be ordered removed at the Contractor's expense.

Upon failure of the Contractor to repair satisfactorily or to remove and replace, if so directed, rejected, unauthorized or condemned work or materials immediately after receiving notice from the City, the Engineer shall, after giving written notice to the Contractor, have the authority to cause defective work to be remedied or removed and replaced, or to cause unauthorized work to be removed and to deduct the cost thereof from any monies due or to become due the Contractor. Alternatively, the City may, at its option, declare the Contractor in default, in which event the performance bond surety shall complete the Contract.

## SECTION 01330

### TESTING

#### 1.1 MATERIALS AND COMPACTION TESTING

The Contractor shall provide the services of a licensed, independent agency to perform materials and compaction testing for this project, as required. The name of the agency must be submitted and approved by the Engineer. Materials and compaction tests will be required to show that specified densities of compacted backfill, crushed rock, asphaltic concrete surfacing are being achieved by the Contractor's compaction methods. Concrete compressive strength testing will be required to show that the requirements of the Contract Documents are being met.

The Contractor shall provide the Engineer with copies of Proctor tests performed for the project backfill and paving material in addition to copies of compaction tests performed in the field. After the Engineer is satisfied that the Contractor's method of compaction consistently meets specified compaction requirements, the testing frequency may be reduced. The Engineer may direct testing at a higher frequency upon failure to obtain specified densities or if the Contractor changes compaction equipment or methods of compaction.

Concrete compressive strength testing shall follow Section 00440 of the Oregon Standard Specifications for Commercial Grade Concrete. Concrete compressive strength shall be a minimum of 3,000 psi at 28 Days. Contractor will supply the Engineer with test results.

All test locations shall be determined by the Engineer. Materials and compaction testing is considered incidental to the Contract and no separate payment shall be made.

Additional testing requirements may be required elsewhere in these Contract Documents.

#### 1.2 TESTING AND OPERATION OF FACILITIES

It is the intent of the City to have a complete and operable facility. All the work under this Contract will be fully tested and inspected in accordance with the specifications. Upon completion of the work, the Contractor shall operate the completed facilities as required to test the equipment under the direction of the Engineer. During this period of operation by the Contractor, the new facilities will be tested thoroughly to determine their acceptance.

#### 1.3 TESTING AND LABORATORY SERVICES

Contractor shall perform all testing services of materials, equipment, and workmanship required by the Contract Documents. All materials and equipment used in the performance of work under are subject to inspection and testing at the point of manufacture or fabrication. Standard specifications for quality and workmanship are indicated in the Contract Documents. Unless otherwise stipulated in the Contract Documents, initial testing of all materials, construction items or products incorporated in the work shall be performed at the direction and expense of the Contractor and deemed necessary by the Engineer. In the event materials, construction items or products incorporated in the work fail to satisfy the minimum requirements of the initial test, appropriate prove out test shall be made as directed by the Engineer to determine the extent of the failure and to verify that the corrective measures have brought the item up to specification requirements.

The cost of all testing necessary to determine the extent of the failure and the adequacy of the corrective measures shall be the responsibility of the Contractor. The failure of the City to make any tests of materials shall in no way relieve the Contractor of its responsibility of furnishing materials conforming to the Contract Documents. Tests, unless otherwise specified, shall be made in accordance with the latest methods of the applicable ASTM regulation.

The Contractor shall provide such facilities as the City may require for collecting and forwarding samples and shall not use the materials represented by the samples until tests have been made. The Contractor shall furnish adequate samples without charge. Test materials and samples shall be stored so as to ensure the preservation of their quality and fitness for the Work. The inspections and tests made by the Engineer, its inspectors or agents, shall ordinarily be made without cost to the Contractor unless otherwise expressly specified in the Contract Documents. The Contractor shall furnish without additional cost to the City such materials for testing as may be reasonably necessary. Retesting after failure to pass tests shall be at the expense of the Contractor. Should the percentage of rejected material or equipment be unreasonably large, the additional cost of such inspection and tests resulting therefrom shall be borne by the Contractor. The Engineer shall determine what extra inspection is and shall determine the additional cost incurred thereby and payable by the Contractor and such determination shall be final. The City may require the Contractor to provide statements or certificates from the manufacturers and fabricators that the materials and equipment provided are manufactured or fabricated in full accordance with the standard specifications for quality and workmanship indicated in the Contract Documents. All costs of this testing and providing statements and certificates shall be a subsidiary obligation of the Contractor, and no extra charge to the City shall be allowed on account of such testing and certification.

## SECTION 01400

### CLARIFICATION AND MODIFICATION OF WORK

#### 1.1 CLARIFICATION OF WORK AND CONTRACT MODIFICATIONS

The Contractor expressly agrees that it shall not consider any order, instruction, clarification, response to a Request for Information or any other communication either written or oral given intentionally or unintentionally by any other person to do work that would cause a change in Contract Time or Price unless it is in the form of a Change Order from the City.

#### 1.2 INTERPRETATION AND MINOR CHANGES

The City has the authority to order minor changes in the Work including interpretations which are consistent with the intent of the Contract Documents, excluding:

- a change in Contract Price, or
- a change in the Contract Time, or
- a change in the means, methods, techniques, or sequence of work

If the Contractor considers that a minor change so ordered causes a Change in Contract Price or Contract Time, the Contractor shall notify the City in writing within 15 days of receipt of the order and shall not proceed with the work except in the case of an emergency endangering persons or property. If, after reviewing the Contractor's objection to a minor change, the City determines the work is required by the Contract Documents and does not involve a change in Price or Time, the City may direct the Contractor, in writing, to proceed with the work. If so directed, the Contractor may (1) accept the City's determination and proceed with the work or (2) give the City written notice 5 days in advance of beginning work stating that it intends to make a claim.

#### 1.3 REQUESTS FOR INFORMATION

If the Contractor does not clearly understand the plans and specifications or is not sure of their meaning, the Contractor shall make a written request to the Engineer in the form of a RFI (Request for Information). The Engineer's written explanation and interpretation of the Contract Documents shall be final.

#### 1.4 REQUESTS FOR QUOTATION

If a change involving Contract Price and/or Time or a new bid item is being considered, the Engineer will issue a Request for Quotation describing the proposed change. The Contractor shall submit a quotation promptly so not to delay or interfere with the progress of the Work, in accordance with the requirements for determining the cost of changes described in the Oregon Standard Specifications Construction.

#### 1.5 CHANGES REQUESTS

The Engineer may, at the Contractor's request, authorize in writing changes in the Project Plans or specifications to facilitate or expedite the work of the Contractor, provided such changes are not detrimental to the work or to the best interests of the City. Requests for such changes shall be submitted in writing to the Engineer. Such changes, as are authorized under this provision, shall be made without

additional cost to the City, and the City reserves the right to receive an equitable adjustment in the Contract Price or Contract Time as a consideration for authorizing any such change. The Contractor shall maintain sole responsibility for assuring these changes meet all the requirements of the Contract.

## **1.6 CHANGE DIRECTIVES**

When a change of work involves an addition, deletion, or adjustment of work or Contract Time which can be covered by Contract bid items and the estimated increase or decrease in Contract cost does not exceed \$5,000, a Change Directive will be issued. A change directive may be issued in the field by the Project Manager and the Contractor shall then proceed with the work without delay. Verbal change directives will be confirmed by written change directives and signed by the Contractor and the Engineer thereby adding, deleting, modifying work, increasing, or decreasing Contract bid items.

## **1.7 CHANGE ORDERS**

If the City and the Contractor agree on a change in Contract Price and/or Time for a proposed change, a Change Order will be issued and signed by the Engineer and Contractor. An executed Change Order shall be conclusive and final settlement of the change in Contract Time and Price for the work covered by the Change Order including the effect of the change on all other portions of the work completed or not and shall include compensation for all related claims for disruption, impact, delay or extended overhead, if any, that may result from the change. Implied in every Change Order, unless expressly reserved by the City or Contractor, is a waiver of all known and unknown claims arising out of the Change Order. The City reserves the right to have changed work performed by a separate contractor or its own workers.

## **1.8 CHANGED OR UNFORESEEN CONDITIONS**

During the progress of the work, if the Contractor should encounter conditions materially different from those shown on the Project Plans or indicated in the Project Specifications, or unknown conditions of a nature differing materially from those ordinarily encountered and generally recognized as being inherent in work of the character being performed, the Contractor shall, before proceeding further with work affecting or affected by such conditions, immediately notify the City which will promptly make an investigation. If the City determines conditions do materially differ and the Contractor could not reasonably have been expected to ascertain in advance the true nature of the existing conditions, a Change Order will be issued to provide for any increase or decrease in cost and difference in Contract Time resulting from any such condition.

## **1.9 EXTRA WORK**

The Engineer shall have the right to require, and the Contractor agrees to do, extra work over and above that which is indicated by the Contract Documents and covered by the unit prices of the Contract or negotiated price or prices, which logically forms a part of the Contract, arising from reasonably unforeseeable conditions, changed requirements or new information. Such additional work shall be undertaken only upon written instructions from the Engineer. Payment for extra work will be made pursuant to Section 00197 of the Oregon Standard Specifications for Construction.

Extra Work performed on a Force Account Basis shall be used to equitably and uniformly compensate the Contractor for Extra Work when a negotiated price cannot be reached. Extra Work is defined as work that is significantly different from the Work included in the original or modified Contract, yet necessary for completing the Project. The Contractor shall maintain records in such a manner as to provide a clear distinction between direct cost of extra work paid for on force account basis and cost of other operations performed in connection with the Contract Documents.



Force Account procedures shall only be used as a last resort when an agreement cannot be reached on the price of a new Work item or when the extent of the Work is unknown or of such character that a price cannot be determined to a reasonable degree of accuracy. When the City orders Extra Work to be performed via Force Account, the Engineer will discuss the proposed work with the Contractor and will seek the Contractor's comments and advice concerning the formulation of Force Account Work specifications. The Engineer is not bound by the Contractor's comments and advice, and has final authority to: determine and direct the materials, equipment and labor to be used on the approved Force Account Work; and determine the time of the Contractor's performance of the ordered Force Account Work.

Before Extra Work to be performed on a Force Account Basis is authorized, the Project Manager will make the determination that Extra Work is necessary. Only work not included in the Contract as awarded or in executed Change Orders but deemed by the Project Manager to be necessary to complete the Project will be paid as Extra Work per Section 00197 of the Oregon Standard Specifications for Construction.

The following steps shall be followed to perform Extra Work:

1. The Project Manager will discuss the Extra Work with the Contractor, define the scope of work, and discuss the options, means and methods for completing the Extra Work.
2. The Project Manager shall attempt to negotiate a Contract Change Order with the Contractor to perform the Extra Work if the unable to successfully negotiate a Change Order, the Extra Work will be completed on a Force Account Basis.
3. Extra Work shall not proceed on a Force Account Basis without a written and approved Extra Work Order prepared by the Project Manager, which shall be signed by the Contractor and the Project Manager. The Extra Work order will determine when, how, and with what Equipment and labor the Extra Work will be completed.

For each day Extra Work is performed, the City's Project Inspector shall complete a Daily Force Account Record which shall be signed by both the Inspector and the Contractor's authorized representative at the end of the day. These signatures indicate agreement on the accuracy and completeness of the information recorded on the Daily Force Account Record.

The Daily Force Account Record will be the basis for payment. Contractor shall not proceed with Extra Work without daily agreement on the Daily Force Account Record.

## SECTION 01500

### SUBMITTALS

#### 1.1 GENERAL REQUIREMENTS

The Contractor shall provide the following submittals found listed in this section. There may be other submittals required elsewhere in these Specifications that are not included or mentioned in this section. Direct submittals from suppliers will not be allowed. Digital submittals are preferred to paper copies.

Technical submittals covered by these specifications include manufacturer's information, shop drawings, test procedures, test results, samples, request for substitutions and miscellaneous work-related submittals. The Contractor shall furnish all drawings, specifications, descriptive data, certifications, samples, tests, methods, schedules and manufacturers installation and other instructions as required by the Contract Documents to demonstrate fully that the materials and equipment to be furnished and the methods of work comply with the provisions and intent of the contract documents.

The Contractor shall be responsible for the accuracy and completeness of the information contained in each submittal and shall assure that the material, equipment, or method of work shall be as described in the submittal. The Contractor shall verify that all features of all products conform to the specified requirements.

Submittals shall coordinate with the work so that work will not be delayed. Coordinate and schedule different categories of submittals, so that one will not be delayed for lack of coordination with another. No extension of time will be allowed because of failure to properly schedule submittals.

The Contractor shall not proceed with work related to a submittal until the submittal process is complete.

#### 1.2 REQUIRED SUBMITTALS

The following listing shall be considered minimum and may be expanded during the course of the work at the direction of the Engineer,

- A. Project Schedule. Refer to Section 01310 PROJECT SCHEDULE & TIMELINE for details.
- B. Shop Drawings, Schedules and Drawings: The Contractor shall provide shop drawings, schedules and such other drawings and information as may be necessary for the prosecution of the work in the shop and in the field as required by the Contract Documents and/or Engineer's instruction. Shop Drawings include fabrication and installation drawings, setting diagrams, schedules, patterns, templates, and similar drawings. Include the following information:
  - Dimensions
  - Identification of products and materials included
  - Compliance with specified standards
  - Notation of coordination requirements
  - Notation of dimensions established by field measurement.

- C. Product Data: Submit manufacturer's product literature and application, installation requirements, recommended repair requirements, technical data sheet on each product to be used, including ASTM test results indicating the product conforms to and is suitable for its intended use per these specifications.
- D. Material Safety Data Sheets
- E. Erosion and Sedimentation Control Plan, as required
- F. Materials and equipment list
- G. Contractor and Subcontractor 24 Hour – 7-day Emergency Contact List
- H. Traffic Control and Protection Plan, as required
- I. Pre-construction documentation of sites, submit 14 days after NTP issued
- J. Post-construction documentation of site(s), submit with Exhibit F, Certificate of Compliance, and Exhibit G, Contractor's Release of Liens and Claims
- K. Documentation to be sent to property owners regarding the project
- L. Site Specific Health and Safety Plan, as required
- M. Utility Rupture Response Plan, As required
- N. Location of dump site for excavated and removed material
- O. Copies of all licenses and permits
- P. Certified Payroll
- Q. Miscellaneous materials and other submittals required elsewhere in the Contract Documents

### 1.3 REQUEST FOR SUBSTITUTION

Requests for substitution for product specified by manufacturer or manufacturer's model number as specified throughout the Contract Documents shall be in writing and be accompanied with sufficient information to allow the Engineer to identify the nature and scope of the request. Please refer to Section 01320.1.4 "OR EQUAL" CLAUSE.

Information to be provided shall include,

- A. All submittal information required for the specified product, including all deviations from the specified requirements necessitated by the proposed substitution.
- B. Materials of construction, including material specifications and references.
- C. Performance data.

- D. Dimensional drawings, showing required access and clearances, including any changes to the work required to accommodate the proposed substitution.
- E. Information and performance characteristics for all system components and ancillary devices to be furnished as a part of the proposed substitution.
- F. Reproducible drawings, marked up to illustrate the alterations to all systems required to accommodate the proposed substitutions

If the substitution requires any mechanical, electrical, or structural changes, the Contractor will be responsible for costs for evaluating a requested substitution. The cost for such an evaluation will be determined on a case-by-case basis, after receipt of written request. The Engineer will notify the Contractor in writing of said cost. If the Contractor wishes to proceed, he shall advise the Engineer in writing and submit additional information as may be requested. The City shall final approval of a substitution.

#### 1.4 SUBMITTAL APPROVAL PROCESS

The Engineer will review the submitted data and will issue a Submittal Response to the Contractor. The Engineer will review each submittal, mark to indicate action taken, and return promptly.

Submittal response notations are as follows,

- “Approved For Construction, No Exceptions Taken”  
The part of the Work covered by the submittal may proceed provided it complies with the requirements of the Contract Documents.
- “Approved For Construction, As Noted”  
The part of the Work covered by the submittal may proceed, provided it complies with the requirements of the Contract Documents and it complies with the notations or corrections of the submittal response.
- “For Record Only”  
The information contained in the submittal has been accepted into the project records.
- “Revise and Resubmit”  
Contractor shall not proceed with that part of the Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Contractor shall revise the submittal in compliance with the Contract Documents and the corrections noted in the submittal response.
- “Submit Specified Item”  
Contractor shall the submit the additional information requested in the submittal response. Contractor shall not proceed with that part of the Work covered by the submittal, including purchasing, fabrication, delivery, or other activity until specified item has been approved by the Engineer.
- “Rejected”  
Contractor shall not proceed with that part of the Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. The Contractor shall revise or prepare a new submittal in accordance with the corrections noted in the submittal response.

The Engineer's review of submittals shall not extend to means, methods techniques, sequences or procedures of construction, or to verify quantities, dimensions, weights or gages, or to fabrication processes, except when specifically indicated or required by the contract documents, and will not relieve the Contractor from responsibility for errors of any sort in the submittals.

When submittals are required to be revised or corrected and resubmitted, the Contractor shall make such revisions and/or corrections and resubmit those items or other materials in the same manner as specified above. Submitted data shall be sufficient in detail for determination of compliance with the Contract Documents. No equipment or material for which listings, drawings, or descriptive material is required shall be installed until the Contractor has received approval from the Engineer. Regardless of corrections made in or review given to the drawings by the Engineer, the Contractor shall be responsible for the accuracy of such drawings and for their conformity to the drawings and specifications.

## SECTION 01600

### PROGRESS PAYMENTS

#### 1.1 PROGRESS PAYMENT AND RETAINED AMOUNTS

The City shall pay Contractor for all work completed in accordance with terms and conditions of the Contract Documents in accordance with the procedures described below and elsewhere in the Contract Documents.

##### A. Progress Payments

- On a monthly basis, during performance of the work, the Contractor shall prepare an estimate of the value of Contract work completed on a form approved by the City and submit to the Project Manager. Applications for payment will be reviewed and processed by the City in accordance with the applicable provisions of the Contract Documents. The pay application shall also provide such supporting documentation as the City or the other applicable provisions of the Contract Documents may require. Certified payroll must be submitted for review with or prior to pay application submittal.
- It is understood that the monthly estimates shall be approximate only, and all monthly estimates and partial payments shall be subject to correction in the estimate rendered following the discovery of an error in any previous estimate, and such estimate shall not in any respect be taken as an admission of the City of the amount of work done or of its quality or sufficiency nor as an acceptance of the work or the release of the Contractor of any of its responsibility under the Contract.
- Payment shall be made by the City about seven (7) days after approval of the pay request. The City shall not be liable for interest on any late or delayed payment caused by any claim or dispute, any discrepancy in quantities, any failure to provide supporting documentation or other information required with the estimate or as a precondition to payment under the Contract, or due to any payment the City has a right to withhold under the Contract.

##### B. Retained Amounts

The City shall retain five percent (5%) of the amount earned on all progress payments. Monies retained will be released to Contractor following final acceptance of the project by the City. Contractor's monthly payment applications and invoices shall include retainage as a line item.

#### 1.2 FIELD DOCUMENTATION OF BID ITEM QUANTITIES

Daily Bid Item Logs shall be the basis of recording and documenting all pay quantities. The City's Construction Inspector is responsible for ensuring that all quantity measurements are made and documented in accordance with the Contract Documents. Bid quantity entries, including supporting documentation, serve as both partial and final verification that correct payments are made on all pay applications and invoices.

The Contractor's foreman or superintendent shall sign the daily bid item log receipts in the possession of the City Construction Inspector for Contract Bid Items completed as specified. The bid item log shall be signed by both the City Construction Inspector and the Contractor's authorized representative within 24 hours of completion of bid items that meet specifications. It is the responsibility of the Contractor to ensure the log is signed daily for the work completed. At a minimum, the bid item log shall contain the following: Bid item reference number, location of work, stationing of construction, description of work, quantity of work completed, and plan sheet reference number.

The Contractor will be provided a copy of all bid item logs. The Contractor's pay applications and invoices shall be equal to the bid items signed for and no more and shall reference bid item log receipt number on the appropriate pay request. Final quantities to be adjusted per project as-builts.

### 1.3 PAYMENT FOR EXTRA WORK

Extra Work done by the Contractor, as authorized and approved by the City, shall be compensated for in the manner described in Section 01400 – CLARIFICATION AND MODIFICATION OF WORK, and by Section 00196 of the OSSC, the more restrictive will apply. The compensation provided for Extra Work done by the Contractor constitutes full and final payment for the cost of the Extra Work, which cost is limited to:

- All reasonable costs of labor, materials, supplies, tools, equipment or machinery rental, power, fuel, lubricants, water and other similar operation expenses for the time that such of the above things are employed or used on such Extra Work and approved in writing by the Project Manager; and
- A markup amount not-to-exceed percentage allowances listed under Section 00196 of the OSSC. Costs shall be considered to cover and compensate the Contractor for profit, overhead, profit-and-overhead markups charged to Contractor by subcontractors and suppliers, general supervision, field office expense and all other elements of cost and expense not embraced within the cost of the Extra Work as described in this Section. No cost of off-site storage shall be included in the above description of cost unless off-site storage has been approved and directed by the City in writing. No other claims or reservations of right as to additional costs, prices, markups, costs not permitted by the OSSC included under this paragraph, disallowed costs or other future additional money or time shall be accepted; each change order shall be specific and final.

The method of determination and payment of cost, or credit to the City for any Extra Work shall be one of the following:

- A. Unit prices agreed on in writing and executed by the City before the Extra Work is commenced or unit prices already included in the Contract Documents, subject to all other conditions of the Contract. Mutual acceptance of a not-to-exceed lump sum properly itemized and supported by sufficient substantiating data to permit evaluation before the Extra Work is commenced, subject to all other conditions of the Contract.

- B. A not-to-exceed cost to be determined in a manner agreed upon by the parties plus a mutually acceptable fixed or percentage fee, agreed upon before the Extra Work is commenced and subject to all other conditions of the Contract.
- C. The force account method provided in these Contract Documents and governed by Section 00197 of the OSSC.
- D. Signed, daily reports in duplicate of the extra work to be paid for on a force account basis, shall be furnished to the Engineer by the Contractor. Materials used will be itemized and direct cost of labor and charges for equipment rental will be furnished by the Contractor or Subcontractor. The Contractor will provide names, identifications, and classifications of workmen, the hourly rate of pay and hours of work, and the size, type, and identification number of equipment and hours of equipment operation.
- E. Material charges shall be substantiated by vendors' invoices with copies of such invoices submitted with the reports, or, if not available, submitted with subsequent reports. In the event said vendors' invoices are not submitted within 15 days after completion of the work, the City reserves right to establish the cost of such materials at the lowest current price at which said materials are available in the quantities concerned, delivered to the location of the work. The Engineer will compare his records with the reports furnished by the Contractor, make any necessary adjustments, and compile the cost of extra work paid for on a force account basis on forms furnished by the Owner. When these extra work reports are agreed upon and signed by both parties, they shall become the basis of payment for the work performed.

#### **1.4 PAYMENT WITHHELD**

In addition to express provisions elsewhere contained in the Contract, the City may withhold from any payment otherwise due the Contractor such amount as determined necessary to protect the City's interest, or, if it so elects, may withhold or retain all or a portion of any payment or refund payment on account of:

- Unsatisfactory progress of the work not caused by conditions beyond the Contractor's control
- Defective work not corrected
- Contractor's failure to carry out instructions or orders of the Owner or its representative,
- Work or execution thereof is not in accordance with the Contract documents
- Claim filed by or against the Contractor or reasonable evidence indicating probable filing of claims
- Failure of the Contractor to make payments to any subcontractor or suppliers for material or labor used in the performance of the Work
- Unsafe working conditions allowed to persist by the Contractor



When the grounds for withholding payment are removed, payment shall be made for amounts withheld because of them, and City shall not be liable for interest on any delayed or late payment.

## **1.5 FINAL PAYMENT**

The amount of final payment will be the difference between the total amount due to the Contractor and the sum of all payments previously made. All prior partial estimates and payments shall be subject to correction in the final estimate and payment. After computation of the final amount due, and after Final Acceptance of the Project, final payment will be mailed to the Contractor's last known address as shown in the records of the City.

## SECTION 01620 MEASUREMENT & PAYMENT

### 1.0 MEASUREMENT AND PAYMENT OF CONTRACT BID ITEMS

Measurement and Payment of Contract Bid Items shall be on a unit price basis in accordance with the prices set forth in the Contract for individual work items. Where work is required but does not appear as a separate item in the Contract, the cost for that work shall be included and absorbed in the unit prices named in the Contract. No payment or compensation shall be made for bid items that are not completed. Only payment for actual work completed will be made regardless of how the Contractor balances bid. Contractor shall make a careful assessment when preparing bid.

The City may add and/or delete bid item quantities during construction. The term “Lump Sum” when used as an item of payment will mean full compensation for the Work described in the Contract Documents. The unit will be construed to include all necessary fittings and accessories. Payments for Lump Sum items will be made in proportion to the amount of Work accomplished as determined by the Engineer as of the “period ending date” of each Partial Payment Estimate. Contractor shall provide a schedule of values for each lump sum item. The Unit Price and Lump Sum price for furnishing each item of Work listed in the Contract Price shall include all labor, materials, tools, equipment, superintendence, and incidentals necessary to perform and complete the Work, including profit, overhead costs, permit and license fees, royalties, and applicable taxes and fees.

### 1.1 Mobilization, Bonds, Insurance, and Demobilization

Payment for Mobilization, Bonds, Insurance and Demobilization shall be paid for at the Contract lump sum price as stated in the Schedule of Bid Prices of the Contract Documents for this project under “Mobilization” and shall include full compensation for the work involved as described herein and no additional allowance will be made.

Mobilization, Bonds, Insurance, and Demobilization typically includes, but is not limited to, the preparation of contract; completion of all tasks and submittal of all documents (bonds, insurance, schedule, etc.) required as a condition of issuing the Notice to Proceed; moving onto the site(s) all Contractor’s equipment and materials required; installing and maintaining temporary buildings or trailers; providing power, utilities, lighting, fencing, etc. as may be required; providing all on-site communications equipment or facilities; obtaining all permits; permit fees; having all OR-OSHA required notices posted, establishment of a safety program; preparing and delivering all pre-construction notices and/or job signs; arrangement of markings and plan for verification (potholing) of existing facilities; and beginning work on the project; removing all equipment, unused materials, all temporary facilities, job trailers, final clean up, and any other items, facilities, tools or materials left behind by the Contractor at the completion of the work.

The amounts paid for Mobilization, Bonds, Insurance, and Demobilization shall be paid for according to the Section 00210 of the OSSC.

## SECTION 01700

### PROJECT RECORD DRAWINGS

#### 1.1 GENERAL REQUIREMENTS

Contractor shall maintain and keep up to date all times on site one set of drawings, specifications, shop drawings, equipment drawings and supplemental drawings which shall be corrected as the work progresses to show all changes made or different site conditions, including all addendum, Change Orders, job decisions, etc. Contractor shall make provisions to allow the Engineer to copy redline drawings during construction, as requested. Redline drawings shall be kept current with the work as it progresses and shall be subject to inspection by the Engineer at any time. Upon completion of the Contract and prior to final payment, redline drawings shall be submitted to the City's Project Manager. All changes shall be neatly and legibly drawn to scale on one set of current conformed plan drawings using standard engineering drafting practices. In general,

- Contractor shall not use Record Drawings for construction purposes.
- Contractor shall protect Record Drawings from deterioration and loss in a secure location and shall provide access to documents for the Engineer's reference during normal working hours.
- Contractor shall keep Record Drawings current, as they will be reviewed for completeness by the Engineer as condition for Final Acceptance.
- Contractor shall,
  - (1) Maintain a clean, undamaged set of Contract Drawings and Shop Drawings and mark the set to show the actual installation and where the installation varies substantially from the Work as originally shown.
  - (2) Legibly and to scale, mark record sets with red erasable pencil. Use other colors to distinguish between variations in separate categories of the work.
  - (3) Mark new information that is important to the City but was not shown on Contract Drawings.

#### 1.2 QUALIFIED REGISTERED SURVEYOR

All surveying required during the project will be performed by a qualified surveyor registered in the State of Oregon employed by the Contractor. The name of the person or agency so employed shall be submitted to the Engineer with proof of registration for approval not later than 10 (ten) days after the Notice to Proceed.

#### 1.3 REDLINE DRAWINGS AND PROJECT AS-BUILTS

Redline drawings and the as-built survey shall include, but not be limited to:

- any differences in alignment, structures, pipe sizes, and other pipes or structures discovered during the progress of the work
- Pipe sizes, lengths and materials
- Horizontal and vertical separation from existing and new utilities and drainage culverts/storm drain
- All changes in alignment
- All horizontal control points (e.g. centerline intersects, PC, PT)
- Recalculated Pipe slopes
- A complete list of all materials installed and abandoned must be shown. The specific size and material type of each pipeline installed must be shown at every construction reference to that pipe. Any changes to the record drawing must be reflected on the materials list.

Contractor shall submit as-built deliverables prior to final acceptance of the project. The as-built survey shall contain all horizontal and vertical as-built data in ASCII format, including a northing, easting, elevation and description of all work completed under this contract. The Contractor shall provide all labor and materials necessary for submission of the Record As-built survey and shall submit As-Built CAD files on a flash drive at the end of the project.

- Neatly redlined plan mark-ups from beginning to end of construction
- As-Built Survey CAD file in latest version of AutoCAD, .dwg file format
- As-Built Survey CAD file in PDF format
- Text file of as-built survey points in the point file format (P,N,E,Z,D). As-built survey points in the text file clearly shall designate each corresponding structure, plan sheet, stationing, and rim and invert elevations of all pipes entering or exiting the structure.

## SECTION 01710

### CONTRACT CLOSEOUT PROCEDURES

#### 1.1 GENERAL REQUIREMENTS

This Section specifies administrative and procedural requirements for project closeout and final acceptance, including but not limited to final inspection procedures, submittal of warranties, redline drawings, as-built drawings, other regulatory inspections, removal of temporary facilities, final cleaning and demobilization.

#### 1.2 FINAL CLEANUP

Contractor shall cleanup the project site(s), including landscaped areas, of rubbish, litter, and foreign substances. Temporary protection and facilities installed for protection of the work during construction shall be removed and the site repaired to equal or better condition. Waste materials shall be removed from the site and disposed of in a lawful manner.

#### 1.3 PUNCH LIST INSPECTION

When the work is, in the opinion of the Engineer, complete in all respects, the Contractor shall call for a punch-list inspection. The Project Manager will schedule a walk-through inspection with the Contractor and other City representatives. The results of the inspection will form the basis of the final project punch list and shall be issued with Exhibit E, Certificate of Substantial Completion.

#### 1.4 SUBSTANTIAL COMPLETION

Upon completion of the project walk-through inspection with the Contractor, the Project Manager shall issue Exhibit E, Certificate of Substantial Completion, with a copy of the punch list of items to be completed or corrected to the Contractor. Unless stated otherwise, all punch list corrections shall be completed by Contractor within 30 days of issuance of Substantial Completion. The City reserves the right to complete any outstanding punch list work remaining after the thirty-day period at Contractor's expense.

#### 1.5 RESPONSIBILITY FOR DEFECTIVE WORK

##### A. Correction or Removal of Defective, Unacceptable or Unauthorized Work

- 1) When work fails to meet Contract requirements and is inadequate to serve the design purpose it will be considered defective. The Contractor shall correct or remove and replace the work at the Contractor's expense, as directed. All work which has been rejected or condemned shall be repaired, or if it cannot be repaired satisfactorily, it shall be removed and replaced at the Contractor's expense.
- 2) Defective materials shall be immediately removed from the site of the work. Work done without line and grade having been given, work done beyond the lines or not in conformity with the grades shown on the plans or as given, save as herein provided, work done without written authority and prior agreement in writing as to process, shall be done at the Contractor's risk and shall be considered unauthorized and at the option of the Engineer may not be measured and paid for and may be ordered removed at the Contractor's expense.

- 3) Upon failure of the Contractor to repair satisfactorily or to remove and replace, if so directed, rejected, unauthorized or condemned work or materials immediately after receiving notice from the City, the Engineer shall, after giving written notice to the Contractor, have the authority to cause defective work to be remedied or removed and replaced, or to cause unauthorized work to be removed and to deduct the cost thereof from any monies due or to become due the Contractor. Alternatively, the City may, at its option, declare the Contractor in default, in which event the performance bond surety shall complete the Contract.

#### B. Acceptance of Defective or Unauthorized Work.

When work fails to meet Contract requirements, but is adequate to serve the design purpose, the Engineer will decide the extent to which the work will be accepted and remain in place. The Engineer will document the basis of acceptance by a letter and may adjust the Contract Price.

### 1.6 FINAL INSPECTION

A final inspection of the project will be scheduled with the Contractor to verify all outstanding deficiencies have been corrected and all punch list items have been corrected prior to Final Acceptance.

### 1.7 CERTIFICATE OF COMPLIANCE

Once all corrective items have been addressed; the Contractor shall submit Exhibit F, Certificate of Completion of the Contract Documents.

### 1.8 RELEASE OF LIENS AND CLAIMS

Following the submission of the Certificate of Completion, the Contractor shall submit a signed, notarized copy of Exhibit G, Contractor's Release of Liens and Claims of the Contract Documents.

### 1.9 FINAL ACCEPTANCE

When the Work is complete, the Engineer will conduct a final review of the project for final acceptance and will verify that,

- the Work has been inspected for compliance with the Contract Documents.
- the Work has been completed in accordance with the Contract Documents and all known deficiencies have been addressed.
- all required shop drawings, catalog cuts, maintenance manuals, instruction manuals, test reports, samples, operational manuals, and all other submittals have been submitted and reviewed.
- all deliverables have been submitted and have been as accepted, including but not limited to redline construction drawings, as-built survey, inspection videos (if applicable), pre-construction and post-construction site documentation, etc.
- all tools, surplus materials, construction equipment, storage sheds, debris, waste, and temporary services have been removed from the job site.
- Job site has been cleaned of rubbish, litter, and other foreign substances, and all surface restoration has been completed.

If the Engineer's review reveals that the Work is complete and is in 100% compliance with all Contract Documents, the Contractor will be issued Exhibit H, Certificate of Final Completion.

#### **1.10 FINAL PAYMENT AND RELEASE OF RETAINAGE**

After receiving the Certificate of Final Completion, the Contractor shall submit a final application for payment in accordance with the provisions of the Contract. Final pay application shall identify total adjusted Contract Sum, previous payments and sum remaining due.

#### **1.11 WARRANTY**

The Work is guaranteed by the Contractor from the date of Final Acceptance by the City. The Contractor shall warranty all materials and equipment that it furnishes for a period of two (2) years from date of final acceptance (Exhibit H) of the work by the City. This warranty shall mean prompt attention to the correction and/or complete replacement of the faulty material or equipment. Per OSCC Section 00170.85, within ten calendar days of written notification of defect(s), the Contractor or the Contractor's surety shall vigorously and continuously correct and repair the defects and all related damage. If the Contractor fails within ten days to proceed to comply with the terms of this warranty, the owner may have the defects corrected. The Contractor and Contractor's surety shall be liable for all expense incurred. In case of an emergency where delay would cause serious loss or damage, repairs may be made without notice to the Contractor and the Contractor or Contractor's surety shall pay the cost.

The Contractor's performance bond shall remain in effect during the warranty period. If, within the warranty period, repairs or changes are required in connection with the work, the Contractor shall promptly, without expense to the City:

- Place in satisfactory condition all guaranteed work,
- Correct all damage to the site, equipment or contents which is the result of the use of materials, equipment or workmanship that are inferior, defective, or not in accordance with the terms of the contract; and,
- Correct any work, material, equipment, or contents of building, structure or site disturbed in fulfilling the guarantee.

Repairs, replacements, or changes made under the warranty requirements shall be warranted for the specified warranty period beginning on the date of the acceptance of the repairs, replacements, or changes. The expiration of the two-year warranty period shall not affect any other claims or remedy available to the City.

## SECTION 2100

### SITE SAFETY

#### 1.1 SITE SAFETY AND ACCIDENT PREVENTION

The Contractor shall be solely and completely responsible for conditions of the job site, including the safety of all persons and property during 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 is not intended to include review of the adequacy of the Contractor's safety measures in, on, or near the job site.

The Contractor shall comply with the safety standards provisions of applicable laws and building and construction codes. The Contractor shall always exercise every precaution for the prevention of accidents and protection of persons, including employees, and property. During the execution of the work the Contractor shall provide and maintain all guards, railing, lights, warnings, and other protective devices which are required by law or which are reasonably necessary for the protection of persons and property from injury or damage. In the event an unsafe act is observed the Contractor will be asked by the Project Manager to cease all work.

It is the Contractor's responsibility to follow and observe OR-OSHA guidelines and take all precautions necessary to complete the work. The Contractor shall always maintain on site a competent field supervisor in charge of the work. The field supervisor shall be approved in writing by the Engineer prior to commencement of work. Any change of supervision must also be approved in writing by the Engineer prior to the change. The field supervisor shall be responsible for the safety of all site workers and site conditions as well as ensuring that all work is conducted in conformance with these specifications and to the level of quality specified.

#### 1.2 ACCESS

The Contractor shall not unreasonably restrict access to public facilities, commercial property, fire hydrants, residential property, and other areas where the public can be expected to be present, such as sidewalks and streets, without first obtaining approval of the Engineer. Driveways shall be closed only after obtaining specific permission from the property owner. The Contractor shall not obstruct or interfere with travel over any public street or sidewalk without approval of the Engineer.

#### 1.3 PUBLIC TRANSIT

The Contractor shall not interfere with the normal operation of any public transit vehicles unless otherwise authorized.

#### 1.4 WORK SITE

When working in public rights-of-way the Contractor shall adequately cover and barricade any open manholes, excavations, etc. to eliminate potential hazards to the public during construction. Employee vehicles of the Contractor and Subcontractor(s) shall be parked in accordance with local parking ordinances. The Contractor shall keep the project site safe in compliance with applicable law. Safety includes, but is not limited to:

- A. Providing an approved type of secured and adequate barricades or fences that are easily visible from a reasonable distance around open excavations



- B. Closing up or covering with steel plates all open excavations at the end of each Working Day in all street areas and other areas when it is reasonably required for public safety
- C. Marking all open work and obstructions by lights at night
- D. Installing and maintaining all necessary signs, lights, flares, barricades, railings, runways, stairs, bridges, and facilities.
- E. Observing all safety instructions received from the Engineer, and following all laws and regulations concerning worker and public safety. In the event that the law requires greater safety obligations than that imposed by the Owner, the Contractor shall comply with the law.

## **1.5 NOISE CONTROL**

Contractor shall employ noise-reducing construction practices to comply with local noise ordinances and shall identify feasible measures to that can be employed to reduce construction noise.

## **1.6 EMERGENCY**

Emergency vehicles, including but not limited to police, fire, and ambulance units shall be provided access to the work site at all times.

## **1.7 CLEANLINESS**

The Contractor shall, on a continuing basis, keep the surfaces of all public and private roadways, sidewalks, and other pathways free of dirt, mud, cold plane grindings, and other materials that the Contractor may place upon the road. The cost of performing such work shall be included in the Contractor's Bid and no additional payment will be made for performing this task.

## **1.8 PARKED VEHICLES**

The Contractor shall make any necessary contacts to arrange for the removal of parked automobiles, vehicles, and other obstructions if they would interfere with the performance of the Contractor's work.

## **1.9 ACCIDENTS**

The Contractor's designated competent field supervisor shall oversee accident prevention. Contractor shall take all actions necessary to prevent damage, injury and loss to persons and property as a result of accidents.

## **2.0 HEALTH AND SAFETY PLAN**

Contractor shall develop, publish, and implement an overall Health and Safety Plan for the Project. This Plan shall conform to all applicable codes. The Plan shall be assembled to address project specific health and safety issues to both the public and on-site personnel. The plan shall include the following items when they apply:

- Employee orientation
- Safety inspections
- Instruction and training
- Accident reporting
- Signs and barricades
- Fire prevention and protection
- Welding, cutting and burning
- Painting and surface treatment
- Electricity
- Machinery and mechanized equipment
- Excavations
- Sanitation
- Hazardous communications program
- Chlorine Safety
- Hazardous Materials
- Job hazard analysis
- First aid/medical facilities
- Personal protective equipment
- Confined space entry plan
- Shoring plan
- Fall protection plan
- Emergency Action Plan
- Installing and maintaining all necessary signs, lights, flares, barricades, railings, runways, stairs, bridges, and facilities
- Pedestrian safety.

If the project requires other health and safety issues to be addressed, they too shall be included in the Project Health and Safety Plan. The Plan shall subsequently be distributed to and implemented by the Contractor's personnel as well as its Subcontractors and Suppliers. Contractor shall fully implement and comply with the Safety Program.

Contractor shall notify the Engineer when safety meetings will be held so that City's personnel may attend. A copy of the approved Health and Safety Plan must be maintained on-site at all times during the life of the Project. The Contractor shall provide signs on work zone fencing that provide information regarding access to businesses whose access is compromised by the project and stating that such businesses are open and in operation, as applicable. The Contractor shall furnish and install the signs and provide sign attachments for the affected business names. Contractor's construction vehicles shall not exceed twenty (20) mph on City streets and will have flashers on at all times. If construction vehicles are used to transport equipment and/or material all equipment and material must be properly secured.

There will be no separate payment made for safety related expenses, and the costs thereof shall be considered incidental to construction.

## SECTION 2200

### TRAFFIC CONTROL AND PROTECTION

#### 1.1 GENERAL REQUIREMENTS

This section specifies requirements for traffic control and protection for construction activities impacting designated construction sites, The section includes, but is not limited to contract ingress and egress at work site, construction activities within or adjacent to roadways or pedestrian walkways, temporary traffic Control, and contractor parking.

Where required, the Contractor will prepare plans and implement traffic control system which provides:

- A. Safe pedestrian and vehicle travel through the site,
- B. ADA accessibility around site.
- C. Safety for workers,
- D. 10' wide minimum width for passenger vehicles,
- E. Adequate signage to protect pedestrians and vehicles from confusion

#### 1.2 NOTIFICATION OF LANE OR ROAD CLOSURE

- A. The Contractor shall publish notification of lane or road closures in the Chronicle newspaper. The Chronicle newspaper is only published on Wednesdays.
- B. Notification must be submitted to The Chronicle via fax, 503-397-4093, or email, [classified@thechronicleonline.com](mailto:classified@thechronicleonline.com), by 5 pm the Friday prior to publication. Contractor must supply The Chronicle with contact name and number, billing address, and duration of notification publication.
- C. The Contractor shall notify residents and businesses within an affected section of road by door hanger of road closures stating the date(s) of closure, limits of street closure, hours of construction, and detours. The door hangers shall be delivered no later than 24 hours prior to a lane closure. Prior to dissemination the Engineer shall approve the door hanger and present a copy to the City Engineer. For planning, a road is considered closed if nonemergency vehicles are delayed or delays are expected to be more than 5 minutes.
- D. Contractor shall be responsible for informing the appropriate agencies operating within the area of the work of obstructions to either public or private roads caused by reason of Contractor's operations.
- E. The Contractor shall notify the following agencies of lane or street closures:

Agency	Address	Phone Number
Emergency Services (911)	McNulty Way	503.397.7255
Durham School Services	540 Milton Way	503.397.9072
Fire Department	270 Columbia Blvd.	503.397.2990

Police Department	150 S. 13th St	503.397.3333
Columbia County Sheriff	901 Port Avenue	503.366.4611
Oregon State Police	35851 Industrial Way, Suite A	503.397.0325
St. Helens School District	474 N. 16th St	503.397.3085
Columbia County Education Service District	800 Port Avenue	503.397-0028 / 503.366.4100
St. Helens Post Office	1571 Columbia Boulevard	503.397.2613
Hudson Garbage Service	2115 Gable Rd	503.397.1534 / 800.422.9998
Columbia County Rider	1155 Deer Island Rd	503.366.8503 / 503.366.0159

All agencies listed, and any other potentially affected businesses or agencies, must be contacted at least one full week before construction is to begin. Calling the agency or business is recommended but does not substitute for personal notification. Door hangers for residences in the vicinity are also required. Minimum elements to be included in the notification include, but are not limited to:

- \* Map of construction area
- \* Approximate start and completion dates
- \* Hours of construction activities (8:00 am to 5:00 pm Mon-Fri if working in City limits)
- \* Alternate traffic route, if applicable
- \* Contractor's contact person's name and number

### 1.3 TRAFFIC CONTROL SUBMITTAL

- A. Contractor shall submit a traffic control plan (TCP) for approval by the Engineer prior to construction. The TCP shall be maintained in accordance with section 220 and 225 of the Oregon Standard Specifications for Construction and the latest version of MUTCD.
- B. The TCP shall be submitted to the Project Manager for approval not later than ten (10) days after the issuance of the Notice to Proceed and prior to the start of any construction. Upon request, the Contractor will be provided with base maps of the project area for the traffic control plan.

### 1.4 TRAFFIC CONTROL

- A. The Contractor shall maintain traffic control and protection in the work areas twenty-four (24) hours per day. The Contractor shall conduct its operations to keep one lane of traffic open for public and private access at all times on City, County, State, and Federal streets, roads and highways. Permits obtained for the project may have more stringent requirements than noted in this section. The Contractor is to notify all emergency services of any lane closures or temporary traffic control measures. No road shall be closed without prior approval by the City Engineer.
- B. Emergency vehicle, pedestrian and vehicle access shall be available to all homes in the project area. All streets shall be restored to allow normal traffic during non-working hours
- C. No traffic lanes may be closed before 8:00 a.m. or after 4:00 p.m. without written City permission from the City Engineer, except as shown on the plans.
- D. Detours as required by the Engineer shall be surfaced with gravel or crushed rock and maintained in good condition. Detours for pedestrians shall not exceed one block in length, and foot bridges over the trenches shall be provided with adequate handrails. Work shall be carried on with due regard for safety to the public.

- E. Open trenches shall be provided with barricades of a type that can be seen at a reasonable distance, and at night they shall be distinctly indicated by adequately placed lights. Open trenches shall be backfilled or plated when the Contractor is not actively working.
- F. The full width of the traveled way shall be open for use by public traffic on Saturday, Sundays and designated legal holiday(s), after 4:00 p.m. on Fridays and the day preceding designated legal holidays, and when construction operations are not actively in progress, unless work has specifically been authorized by the Engineer.
- G. The location of traffic control devices shall be checked by the Contractor especially at the beginning of the work period and periodically throughout the workday, to ensure that the devices are properly placed and maintained
- H. At a minimum, Traffic Control Plan shall:
  - Show location and limits of the work zone
  - Give dimensions of lanes affected by traffic control that will be open to traffic
  - Indicate signing, cone placement, barricades, and other methods of delineation
  - Dimension location of signs and cone tapers
  - Identify side streets and driveways affected by construction and show how they will be handled
  - Show how pedestrian and bicycle traffic will be accommodated through the construction site
  - Demonstrate how two-way traffic will be maintained

## 1.5 CONTRACTOR PARKING

Personal vehicles of the Contractor's employees shall not be parked on the paved shoulders or the traveled way, including any section closed to public traffic. Contractor will secure private parking at his own expense, and will not park on the public streets

## 1.6 MINIMIZE TRAFFIC DISRUPTION

The Contractor shall conduct his operations to cause the minimum obstruction and inconvenience to traffic and to places of business, multiple dwelling units, and residences adjacent to the work. The Contractor shall not park construction vehicles contractor employee vehicles, stage materials or stockpiles in front of any business or residential driveway access and the Contractor shall maintain access to private parking lots within the block where work is in progress. Construction vehicles shall not be left running for any length of time if parked in front of a business or residential unit.

- A. To minimize disruption to public traffic, the Contractor shall:
  - Permit local traffic to pass through the work with the least possible inconvenience or delay.
  - Maintain existing driveways, commercial and residential, within the vicinity of the work area, keeping them open and in good, safe condition at all times.

- Remove or repair any condition resulting from the work that might impede traffic or create a hazard.
  - Keep existing traffic signs, signals, and roadway lighting systems in operation throughout the construction work.
- B. The Contractor shall conduct all operations with the least possible obstruction and inconvenience to the public. The Contractor shall have under construction no greater length or amount of work than can be completed within a workday with due regards to the rights of the public
- C. Work shall be accomplished in such a manner as to provide access to all intersecting streets and adjacent properties whenever possible. If access to any property cannot be provided, then adequate nearby parking shall be provided and maintained until direct access can again be restored. If during the course of the work, it is necessary to restrict access to certain driveways for an extended period of time, the Contractor shall notify the affected residents, in writing, at least forty-eight (48) hours in advance
- D. The Contractor shall be responsible for providing adequate safeguards, safety devices, protective equipment, and any other needed actions to protect life, health, and safety of the public, and to protect property in connection with the performance of the work covered by the contract. The Contractor shall perform any measures or actions the City or the Engineer may deem necessary to protect the public and property

## SECTION 02300

### CONSTRUCTION SURVEY WORK

#### 1.1 DESCRIPTION

This work consists of all surveying activities necessary to control the many phases of work required to construct the Project to the lines and grades as shown, specified, or established.

Contractor shall make all supporting computations and field notes required for control of the work and as necessary to establish the exact position, orientation, and elevation of the work from control stations, including furnishing and setting construction stakes and marks, reference marks, and additional control stations. Plans, specifications, and other data necessary to lay out the work will be available for inspection at the Project Manager's office.

#### 1.2 CONSTRUCTION SURVEY, STAKES, LINES, AND GRADES

- A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. This work shall include locating or reestablishing project survey control, construction staking, including benchmarks, centerlines, and other measurements necessary for the proper execution of the project, and all surveying activities necessary to control the phases of work required to construct the project to the lines and grades as shown, specified, established, or required. The location or monumentation of any real property boundaries or easements required for construction shall be performed by or under the direct supervision of a Professional Land Surveyor registered in the State of Oregon. Prior to construction, Contractor shall check with Columbia County for private property corners and stakes, as necessary. Prior to construction, the field layout shall be approved by the Engineer.
- B. The City shall provide available engineering surveys as necessary to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.
- C. Existing control points in the area of the project are listed as follows:
  - Horizontal control: Alignment shall be as shown on the Contract Drawings using existing features for offsets and bends for control.
  - Vertical Control: Monument documentation is available from the City Engineering Department.
- D. The Contractor shall not disturb permanent survey monuments, stakes, lot stakes, bench marks, or other permanent survey monumentation. The Contractor shall restore all such disturbed monumentation and bear the expense of replacing any that are disturbed. In the case of destruction thereof by the Contractor or resulting from its negligence, the Contractor shall be charged with the expense and damage resulting therefore and shall be responsible for any mistakes

that may be caused by the unnecessary loss or disturbance of such benchmarks, reference points, private property corners, and stakes.

- E. Survey work layout shall be from reference points, right of way lines, easement lines or other reference points shown on the drawings.
- F. Staking of Right-of-Way: Where improvements appear to be within ten feet of a right of way line, the surveyor shall locate and stake such lines. The surveyor will locate sufficient representative survey monuments along the line to be staked so as to provide for reasonable accuracy for staking of the line. Stakes marking the right of way lines shall be so marked and set at the beginning and end of the construction corridor and at 100-foot stations in between. If sufficient monumentation is not found to allow for staking of the right of way lines to this level of accuracy, the Engineer shall be consulted for resolution. The Engineer may direct that property surveys be conducted in order to establish additional monumentation. Property surveys will be considered as extra work.
- G. Staking of Easements: The surveyor shall locate and stake both lines of the permanent easements within which any construction is being conducted. The surveyor will initially establish and stake an easement centerline within the easement. This centerline shall be established between existing manholes. The center of manholes will be established at the flow line in the pipe (not the manhole lid) and the centerline will then be established and staked to a reasonable level of accuracy. Stakes marking the easement centerline shall be so marked and set at each manhole at the beginning and end of the construction corridor and at 50-foot stations in between. From the established centerline of the easement, the permanent easement lines shall be staked. The stakes shall be set on each side lot line of each parcel and at 50-foot stations in between on each parcel.
- H. Staking of New Utilities: The surveyor shall stake all new utilities constructed by the open cut method. The surveyor shall set line and grade and transfer to offset stakes at a maximum of 25-foot stations. The Contractor shall establish line and grade for the pipe construction using a laser or by transferring the line and grade from the offset stakes to the trench at the intervals necessary to maintain line and grade. During construction, the Contractor shall check line and grade at 25-foot intervals or less if necessary. Variance from the established line and grade shall not be greater than 1/32-inch per inch of pipe diameter and shall not exceed 1/2-inch from line and 1/4-inch for grade, providing that such variation does not result in a level or reverse-sloping invert. Variation in the invert elevation between adjoining ends of pipe, including fittings, shall not exceed 1/64-inch per inch of pipe diameter, or 1/2-inch maximum
- I. Staking of Fences: The surveyor shall survey and record the location of all existing fences with respect to existing rights of way or easement lines or property corners or property lines. The surveyor will set offset stakes for all existing fences that will be partially or totally removed and replaced so that the fences can be reconstructed in the same location with reasonable accuracy.
- J. Staking of ADA Curb Ramps: Ramps must be in accordance with ADA regulations and shall conform to ODOT ADA minimum standards. Control elevations should be run with digital level. Effort should be made to set control to avoid using multiple setups for a single ramp. Make a general check of the layout as staked, including the location of gutter depressions, sidewalks, and driveways. Review stakes for accuracy. Verify grades will accommodate finished slope requirements. If layout and grades will not meet requirements, contact the Engineer to assist in correcting the problem, as needed, to ensure ADA compliance. For slope checks of ADA facilities, use smart levels with a minimum sensor accuracy of 0.1 degree for measuring slopes parallel and



perpendicular to the pedestrian travelled way. Make sure that the smart level is calibrated in accordance with the manufacturer's recommendations prior to taking measurements

### **1.3 FIELD CHANGES TO ALIGNMENT**

Changes of alignment may be made during the course of work in order to avoid interference with unforeseen obstructions under the direction of the Engineer. The Contractor shall locate existing utilities to be crossed by potholing ahead of the pipe installation of sufficient distance to avoid conflicts through pipe joint deflection. All costs for minor field changes of alignment and grade shall be borne by the Contractor.

Minor changes are as defined in Section 01400.1.2 INTERPRETATION AND MINOR CHANGES of these Technical Specifications, and in the OSSC Section 140.30. The Engineer will endeavor to make prompt decisions on such matters. Contractor shall anticipate a minimum of 72 hours for any decision requiring significant piping change.

Construction staking work will consist of all surveying activities necessary to control the phases of work required to construct the project to the lines and grades as shown, specified, established, or required. The construction surveyor shall make all supporting computations and field notes required for control of the work and as necessary to establish the exact position, orientation, and elevation of the work from control stations, including furnishing and setting construction stakes and marks, reference marks, and additional control stations.

Based upon the information provided in the Contract Documents, the Contractor shall develop and make all detail surveys necessary for layout and construction, including exact component location, working points, lines and elevations. Prior to construction, the field layout shall be approved by the Engineer. Prior to construction, Contractor shall check with Columbia County for private property corners and stakes, as necessary.

### **1.4 PROTECTION OF SURVEY MONUMENTS**

The Contractor shall not disturb permanent survey monuments, stakes, lot stakes, benchmarks, or other permanent survey monumentation. The Contractor shall check with Columbia County Surveyors Office for recorded property corners. The Contractor shall restore all such disturbed monumentation and bear the expense of replacing any that are disturbed. In the case of destruction thereof by the Contractor or resulting from its negligence, the Contractor shall be charged with the expense and damage resulting therefore and shall be responsible for any mistakes that may be caused by the unnecessary loss or disturbance of such benchmarks, reference points, private property corners, and stakes

The Contractor shall preserve construction survey stakes and markers for the duration of their usefulness during construction. If survey stakes are lost or disturbed by the Contractor's and need to be replaced, the Contractor shall restore the stakes or markers and shall bear the expense of performing that work.

At the completion of construction and upon approval of the Engineer, the Contractor shall remove from the construction site all construction and temporary stakes and markers.

### **1.5 POST CONSTRUCTION SURVEY**

The Contractor shall provide the Engineer with post construction survey of all structures within the project, including structure locations, rim elevations and all invert elevations and directions of pipes in the structures, regardless of construction method. Post-construction survey shall be performed by an approved licensed surveyor.

Data Formats Provided by the Contractor shall be,

- AutoCAD Civil3D (.DWG) format
- Coordinate Data Points - ASCII Coordinate File format
- ASCII Coordinate File Format: Point ID Northing Easting Elevation Feature  
Description

Contractor shall remove and dispose of all flagging, lath, stakes, and other temporary staking material after the Project is completed.

## SECTION 02320

### SITE SECURITY

#### 1.1 GENERAL REQUIREMENTS

Contractor shall determine extent of work requirements and limitations before proceeding with work. Site security includes all fencing and protection of work, materials, and equipment.

#### 1.2 PROTECTION AND MAINTENANCE OF WORK DURING CONSTRUCTION

The Contractor shall protect and maintain the Work during construction, and shall employ measures to prevent deterioration of roadways, structures, and utilities at Project Sites to keep them in good condition at all times during the prosecution of the Work. The Contractor shall continuously allocate sufficient equipment and workers to achieve such maintenance.

#### 1.3 STORAGE AND PROTECTION OF MATERIALS AND EQUIPMENT

Materials and equipment stored overnight shall be placed neatly on the job site. Unusable materials (i.e. rejected or damaged pipe, pavement chunks, metal scraps, etc.) shall be expeditiously removed from the job site. In the event the Contractor uses a storage yard it is the responsibility of the Contractor to secure and maintain the storage yard.

Contractor shall provide appropriate barricades, signs, and traffic control devices where necessary to protect the public from any hazards associated with the storage of materials and equipment used for this project. No equipment or materials shall be stored outside the immediate work area on public rights-of-way such as in maintained landscaped or lawns area, in front of any business, and in any manner which would totally eliminate an individual residents' street parking. The "immediate work area" is defined as the area where work is taking place or will be taking place within one calendar day. The Contractor shall immediately move stored material or equipment which causes a nuisance or creates complaints. Job site security will be the responsibility of the Contractor. All materials and equipment must be secured to ensure that they will not be moved, tampered with, or taken during non-working hours. Contractor shall have visual barrier/screen around a storage yard and must be maintained throughout the project duration at no additional cost to the City.

#### 1.4 EQUIPMENT AND MATERIAL STORAGE

Equipment and materials storage shall not be left on the street at night, weekends, or during non-working periods unless otherwise approved by the Project Manager. The Contractor is responsible for securing appropriate material and equipment storage rights or for removing equipment and materials on a daily basis. Materials and equipment stored overnight shall be placed neatly on the job site. Unusable materials (i.e. rejected or damaged materials, old concrete chunks, metal scraps, etc.) shall be expeditiously removed from the job site.

Provide appropriate barricades, signs, and traffic control devices in like-new condition where necessary to protect the public from any hazards associated with the storage of materials and equipment used for this project.

No equipment or materials shall be stored outside the immediate work area on public rights-of-way, in the following locations, or in the following manner:

- In any maintained landscaped or lawn area.
- In a manner that would totally eliminate an individual residents' street parking.
- In front of any business.

The “immediate work area” is the area where work is taking place or will be taking place within one calendar day. The Contractor shall immediately move stored material or equipment which causes a nuisance or creates complaints. Job site security will be the responsibility of the Contractor. All materials and equipment must be secured to ensure that they will not be moved, tampered with, or taken during non-working hours.

Equipment and material storage shall be incidental to the project and shall be included in the unit bid prices shown in the bid schedule for “Mobilization, Bonds, Insurance, and Demobilization”.

### **1.5 TEMPORARY UTILITIES FOR CONSTRUCTION PURPOSES**

The Contractor shall make all arrangements necessary to provide all temporary utilities for construction purposes and shall pay all costs associated with those temporary utilities. Water for construction purposes will be furnished by the City at no cost. The Contractor shall furnish all valves, hoses, connections, and other devices as necessary to obtain sufficient water for construction and for filling and testing of utility lines as required. Fire hydrant use is allowed only by permission. Contractor will be required to obtain a hydrant meter from City, which requires a \$200 refundable deposit. Hydrant meters shall be used for all water draws. Backflow or air gap protection is required on all connections to potable water systems.

### **1.6 LIMITS OF WORK AND STORAGE OF SPOILS**

The limits of the site which may be used for construction, storage, materials handling, parking of vehicles and other operations related to the project include the public rights-of-way subject to permission of the public owner of that right-of-way. The limits of work may also include the permanent easements on private property. Permanent easements are typically 15 feet wide, centered on the pipeline. Such easements may exist also when the pipeline lies less than 7 ½ feet from private property. The Contractor is to work within the limits of the permanent easements and public rights-of-way. Easement areas may generally be accessed from public rights-of-way; however, if the Contractor desires to access easements through private property it is the Contractor’s responsibility to coordinate such access with the affected property owner and to complete associated surface and landscape restoration to the satisfaction of the property owner. Prior to final payment, the Contractor shall obtain a signed release from the property owner confirming that the installation and site restoration work is satisfactory to the property owner. The Contractor shall ascertain to what extent the width, status and special conditions attached to easements may have on its operations, and all costs resulting there from shall be included and absorbed in the unit prices of the Contractor’s bid.

### **1.7 FENCES**

The Contractor shall remove, protect, and reinstall existing fencing and gates only as necessary to complete the work. Any fence damaged or removed during construction shall be restored to original or better condition. Fence replacement shall be in kind and constructed to equal or better condition of that removed. Contractor shall adhere to fence removal limits as shown on plans. Replacement of damaged or defective hardware shall be incidental to the bid item.

Fencing in such poor condition that it cannot be taken down and rebuilt with the same material, in the opinion of the Engineer, shall be replaced with new fence. Contractor shall adhere to fence removal limits as shown on plans. Replacement of damaged or defective hardware shall be incidental to the bid item.

Refer to OSSC Section 01050 on Fences. For the installation of new fence in kind, the Contractor shall remove existing fence and install new fence and gates in kind. Contractor shall match physical characteristics of existing fence as directed by the City's Construction Inspector. Physical characteristics include but are not limited to material, height, color etc. of existing fence.

## SECTION 02400

### SITE PREPARATION

#### 1.1 GENERAL REQUIREMENTS

Contractor shall determine extent of work requirements and limitations before proceeding with work. Site preparation includes all demolition, clearing and grubbing specified on plans or required for completion of the work. The Contractor shall perform work in accordance with recognized standard and efficient methods. Operators of equipment shall be conscientious and skilled. The Contractor shall avoid unnecessary injury to trees, shrubs, vines, plants, grasses and other vegetation growing outside of the areas to be cleared and grubbed and those trees and shrubs designated to be preserved. Contractor shall protect existing site improvements, trees and shrubs against cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of roots by stockpiling construction materials, excavated materials, excess foot or vehicular traffic and parking of vehicles within tree drip line.

Provide temporary guards, as necessary, to protect trees and vegetation to be left standing. Repairable damage to trees designated to remain shall be made by a professional tree surgeon under the supervision of an arborist approved by the Engineer. Cost shall be borne by the Contractor.

#### 1.2 OWNERSHIP OF EXISTING MATERIALS

All materials, equipment, items and debris involved, occurring or resulting from demolition, clearing and grubbing work shall become the property of the Contractor at the place of origin except as otherwise indicated.

#### 1.3 CLEARING AND GRUBBING

Contractor shall remove trees, saplings, snags, stumps, shrubs, brush, vines, grasses, weeds and other vegetative growth as needed within the work area zone except those trees and shrubs noted to remain or as directed by the Engineer for manhole access. Clearing shall be performed in such a manner as to remove all evidence of the presence of vegetative growth from the surface of the project site as required for construction and shall be inclusive of sticks, branches, grasses and weeds, except as otherwise indicated.

A. Limits of grubbing shall coincide with the limits of clearing,

- 1) Remove all stumps, roots over one inch in diameter and matted roots within the limits of grubbing work to the following depths at a minimum 12-inches.
- 2) The Contractor shall remain within the easement lines at all times. Except in areas to be excavated, all holes resulting from the clearing and grubbing operations shall be backfilled and compacted in accordance with the applicable sections of these Specifications.

#### 1.4 PROTECTION OF TREES AND OTHER VEGETATION

Contractor shall provide protection for roots and limbs over 1-1/2-inch diameter cut during construction operations. Coat the cut faces with emulsified asphalt. Temporarily cover exposed roots with wet burlap to prevent roots from drying out; cover with earth as soon as possible. When it is necessary for the completion of the proposed work to cross private property or landscaped areas, the Contractor shall excavate the

topsoil separately and pile it on the opposite side of the trench from the subsoil and shall conduct his work in manner that will restore original conditions as nearly as practicable. Emulsified asphalt formulated wound paint for use on damaged plant tissues, shall be approved by the Engineer prior to use.

- A. Do not place excavated material so as to injure trees or shrubs
- B. All shrubs or plants shall be balled by experienced workers, carefully handled and watered, and replaced in their original positions without damage. Sod shall be handled in a similar manner. Wherever sod cannot be saved and restored, the ground must be reseeded and cared for until a stand of grass is reestablished. Plants or shrubs killed or destroyed must be paid for by the Contractor.
- C. Unless otherwise specified, any resulting voids shall be thoroughly checked for drainage and backfilled imported material compacted to the density of the adjacent soil.
- D. All costs incurred by the Contractor for site preparation shall be incidental to the unit prices of bid unless otherwise specified.

## **1.5 PROTECTION OF UTILITIES AND EXISTING IMPROVEMENTS**

The Contractor must take all precautions and measures necessary to protect all existing structures, utilities, and work. Any damage to existing structures, utilities, and work shall be repaired by removing the damaged structure, utility, or work, replacing the work and restoring to original condition satisfactory to the Engineer and at the Contractor's expense. Any work to repair damaged facilities must be coordinated with the Owner of said facility.

The Contractor shall have the responsibility to carefully preserve bench marks, reference points, private property corners, and stakes, and in the case of destruction thereof by the Contractor or resulting from its negligence, the Contractor shall be charged with the expense and damage resulting therefore and shall be responsible for any mistakes that may be caused by the unnecessary loss or disturbance of such bench marks, reference points, private property corners, and stakes. Contractor shall maintain and preserve all City monuments, private property corners and stakes unless authorized to remove them. If such monuments are removed by the Contractor, it shall be the Contractor's responsibility to have them replaced with the cost being solely the Contractor's responsibility.

## **1.6 INTERFERENCES, OBSTRUCTIONS, AND UTILITY CROSSINGS**

At certain places, overhead and underground power, light, water, gas, storm drain, sanitary sewer, and communication facilities may interfere with excavation and the operation of the Contractor's equipment. Necessary arrangements shall be made with utility companies for moving or maintaining such poles and appurtenances. The utility company affected by any such interference shall be notified thereof so that the necessary moving or proper care of poles and appurtenances may have appropriate attention. All costs resulting from any other interference and obstructions, or the replacement of such, whether or not herein specifically mentioned, shall be included and absorbed in the unit prices of the Contractor's bid.

## **1.7 PROTECTION AND MAINTENANCE OF WORK DURING CONSTRUCTION**

The Contractor shall protect and maintain the Work during construction, and shall employ measures to prevent deterioration of roadways, structures, and utilities at Project Sites to keep them in good condition at

all times during the prosecution of the Work. The Contractor shall continuously allocate sufficient equipment and workers to achieve such maintenance.

## **1.8 STORAGE AND PROTECTION OF MATERIALS AND EQUIPMENT**

Materials and equipment stored overnight shall be placed neatly on the job site. Unusable materials (i.e. rejected or damaged pipe, pavement chunks, metal scraps, etc.) shall be expeditiously removed from the job site. In the event the Contractor uses a storage yard it is the responsibility of the Contractor to secure and maintain the storage yard.

Contractor shall provide appropriate barricades, signs, and traffic control devices where necessary to protect the public from any hazards associated with the storage of materials and equipment used for this project. No equipment or materials shall be stored outside the immediate work area on public rights-of-way such as in maintained landscaped or lawns area, in front of any business, and in any manner which would totally eliminate an individual residents' street parking. The "immediate work area" is defined as the area where work is taking place or will be taking place within one calendar day. The Contractor shall immediately move stored material or equipment which causes a nuisance or creates complaints. Job site security will be the responsibility of the Contractor. All materials and equipment must be secured to ensure that they will not be moved, tampered with, or taken during non-working hours. Contractor shall have visual barrier/screen around a storage yard and must be maintained throughout the project duration at no additional cost to the City.

## **1.9 EQUIPMENT AND MATERIAL STORAGE**

Equipment and materials storage shall not be left on the street at night, weekends, or during non-working periods unless otherwise approved by the Project Manager. The Contractor is responsible for securing appropriate material and equipment storage rights or for removing equipment and materials on a daily basis. Materials and equipment stored overnight shall be placed neatly on the job site. Unusable materials (i.e. rejected or damaged materials, old concrete chunks, metal scraps, etc.) shall be expeditiously removed from the job site.

Provide appropriate barricades, signs, and traffic control devices in like-new condition where necessary to protect the public from any hazards associated with the storage of materials and equipment used for this project.

No equipment or materials shall be stored outside the immediate work area on public rights-of-way, in the following locations, or in the following manner:

- In any maintained landscaped or lawn area.
- In a manner that would totally eliminate an individual residents' street parking.
- In front of any business.

The "immediate work area" is the area where work is taking place or will be taking place within one calendar day. The Contractor shall immediately move stored material or equipment which causes a nuisance or creates complaints. Job site security will be the responsibility of the Contractor. All materials and equipment must be secured to ensure that they will not be moved, tampered with, or taken during non-working hours.



Equipment and material storage shall be incidental to the project and shall be included in the unit bid prices shown in the bid schedule for “Mobilization, Bonds, Insurance, and Demobilization”.

#### **1.10 TEMPORARY UTILITIES FOR CONSTRUCTION PURPOSES**

The Contractor shall make all arrangements necessary to provide all temporary utilities for construction purposes and shall pay all costs associated with those temporary utilities. Water for construction purposes will be furnished by the City at no cost. The Contractor shall furnish all valves, hoses, connections and other devices as necessary to obtain sufficient water for construction and for filling and testing of utility lines as required. Fire hydrant use is allowed only by permission. Contractor will be required to obtain a hydrant meter from City, which requires a \$200 refundable deposit. Hydrant meters shall be used for all water draws. Backflow or air gap protection is required on all connections to potable water systems.

#### **1.11 LIMITS OF WORK AND STORAGE OF SPOILS**

The limits of the site which may be used for construction, storage, materials handling, parking of vehicles and other operations related to the project include the public rights-of-way subject to permission of the public owner of that right-of-way. The limits of work may also include the permanent easements on private property. Permanent easements are typically 15 feet wide, centered on the pipeline. Such easements may exist also when the pipeline lies less than 7 ½ feet from private property. The Contractor is to work within the limits of the permanent easements and public rights-of-way. Easement areas may generally be accessed from public rights-of-way; however, if the Contractor desires to access easements through private property it is the Contractor’s responsibility to coordinate such access with the affected property owner and to complete associated surface and landscape restoration to the satisfaction of the property owner. Prior to final payment, the Contractor shall obtain a signed release from the property owner confirming that the installation and site restoration work is satisfactory to the property owner. The Contractor shall ascertain to what extent the width, status and special conditions attached to easements may have on its operations, and all costs resulting there from shall be included and absorbed in the unit prices of the Contractor’s bid.

#### **1.12 FENCES**

The Contractor shall remove, protect, and reinstall existing fencing and gates only as necessary to complete the work. Any fence damaged or removed during construction shall be restored to original or better condition. Fence replacement shall be in kind and constructed to equal or better condition of that removed. Contractor shall adhere to fence removal limits as shown on plans. Replacement of damaged or defective hardware shall be incidental to the bid item.

Fencing in such poor condition that it cannot be taken down and rebuilt with the same material, in the opinion of the Engineer, shall be replaced with new fence. Contractor shall adhere to fence removal limits as shown on plans. Replacement of damaged or defective hardware shall be incidental to the bid item.

Refer to OSSC Section 01050 on Fences. For the installation of new fence in kind, the Contractor shall remove existing fence and install new fence and gates in kind. Contractor shall match physical characteristics of existing fence as directed by the City’s Construction Inspector. Physical characteristics include but are not limited to material, height, color etc. of existing fence.

## Section 05100

### STORM SEWER PIPE

#### 1.1 GENERAL REQUIREMENTS

This section specifies the work necessary for the construction, installation, and testing of stormwater pipe systems, including but not limited to storm sewer pipe, laying and jointing the pipe; existing pipe connections and other appurtenances; quality assurance and control; and acceptance testing. Stormwater pipe lines shall be constructed in conformance to the Contract Drawings and Detail Drawings. All storm sewer pipe system components shall be the product of one manufacturer and shall conform to the latest edition of applicable ASTM.

#### 1.2 PRODUCTS

Materials and strength classifications shall be as specified for the particular kind of pipe and couplings required. Each section of pipe shall be clearly identified with the pipe strength, class and date of manufacture. All material of a like kind shall be provided from a single manufacturer unless otherwise approved by the Engineer. Pipes shall be joined per manufacturer's recommendations. All fittings and couplings shall be of sufficient strength to withstand all handling and load stresses encountered. Material joining the fittings to the pipe shall be free from cracks and shall adhere tightly to each joining surface.

##### A. Storm Sewer Pipe

Contractor shall refer to Contract Drawings to determine specified pipe. In general, use ductile iron pipe where less than 36-inches of cover exists, and nonreinforced by where cover is 36-inches or greater.

- 1) C-900 PVC DR-18 pipe meeting the applicable requirements of ASTM D-1784, ASTM D-3139, and ASTM F-477
- 2) Ductile iron pipe shall be "TYTON" type with thickness Class 50, Polyethylene encasement. DI pipe shall be cement mortar lined, interior and exterior sealed in accordance with ANSI/AWWA C104.A21.4; or Approved Equal
- 3) Pipes shall be furnished with an outside diameter conforming to ductile iron pipe sizes (DIPS).

##### B. Fittings

- 1) All fittings shall be of sufficient strength to withstand all handling and load stresses encountered. All fittings shall be of the same materials as the pipe. Material joining the fittings to the pipe shall be free from cracks and shall adhere tightly to each joining surface.
- 2) Joints on all fittings shall be the same as the joints used on the pipe. Caps or plugs shall be furnished as required by the drawings or as otherwise specified.

#### 1.3 DELIVERY, STORAGE, AND HANDLING OF MATERIALS

- A. Contractor shall unload, handle, and store materials in accordance with the manufacturer's recommendations. Pipe shall not be unloaded or stored in the public right-of-way or in easements unless it has been approved by the Engineer.

- B. It shall be Contractor's responsibility to inspect materials prior to lowering into the trench to ensure no cracked, broken, or otherwise defective materials are used. All material shall be carefully handled and installed in good working order free from defect in manufacture, storage and handling. Pipes shall be stored on level ground, preferably turf or sand, free of sharp objects which could damage the pipe. Stacking of the pipe shall be limited to a height that will not cause cracking or deformation of the pipes under anticipated temperature conditions. Where necessary due to ground conditions, the pipe shall be stored on wooden sleepers, spaced suitably and of such widths as not to allow deformation of the pipe at the point of contact with the sleeper or between supports. The handling of the joined pipeline shall be in such a manner that the pipe is not damaged by dragging it over sharp and cutting objects.
- C. Distribute material on the job from the cars, trucks, or storage yard no faster than can be used to good advantage. In general, distribute no more than one week's supply of material in advance of the laying.
- D. Provide and use proper implements, tools, and facilities for the safe and proper prosecution of the work. Lower all pipe, fittings, and appurtenances into the trench, piece by piece, by means of a crane, slings, or other suitable tools or equipment, in such a manner as to prevent damage or contamination to the pipeline materials and protective coatings and linings. Do not drop or dump pipeline materials into the trench.

#### 1.4 STORM SEWER INSTALLATION

- A. Contractor shall follow manufacturer's recommendations for minimum cover requirements for pipe. In general, when there is less than 36" of cover as measured from the top of pipe to finished grade elevation, ductile iron pipe shall be used. When there is greater than 36" of cover, HDPE pipe shall be used, unless otherwise specified on Contract Drawings or by the Engineer.
- B. Pipe laying shall proceed upgrade with spigot ends in the direction of flow. Joints will be assembled in accordance with the recommendations of the manufacturer of the type of joint used. The trench bottom shall form a continuous and uniform bearing and support for the pipe at every point between joints
- C. Contractor shall prevent excavated or other foreign material from getting into the pipe. Contractor shall plug or close off pipes which are stubbed off for future connection. When cutting and/or machining of the pipe is necessary, Contractor shall use only the tools and methods recommended by the pipe manufacturer.
- D. Provide uniform backfill material and uniformly compacted density throughout the length of the culvert so that equal pressure is provided. Before adding each new layer of loose backfill material, inspect the inside periphery of the structure for local or unequal deformation caused by improper construction methods. Evidence of such deformation will be reason for corrective measures as directed. Remove and replace pipe damaged by the Contractor at no additional cost to the Department.
- E. Unless otherwise authorized, lay pipes on the bedding from the outlet end and join the separate sections firmly together with outside laps of annular joints pointing upstream and longitudinal laps on the sides. If any metal in joints is not protected by galvanizing, coat it with a suitable asphalt paint. Lower sections of pipe into the trench without damaging the pipe or disturbing the bedding

and the sides of the trench. Remove and re-lay, without extra compensation, pipe that is not in alignment or that shows excessive settlement after laying.

- F. Pipe shall be joined in conformance with the manufacturer's recommendations. The Contractor shall cut the pipe in a neat manner, at right angles to the axis of the pipe, and shall dress the cut end in conformance with the pipe manufacturer's recommendations.
- G. Joints shall be installed such that the connection of pipe sections will form a continuous line free from irregularities in the flow line. All joints shall produce a watertight seal as defined in AASHTO M294.
- H. Line and Grade: Variance from established line and grade shall not be greater than 1/32-inch per inch of pipe diameter and not to exceed 1/2-inch, provided that such variation does not result in a level or reverse sloping invert
- I. Deflection at Joints: When deflecting the pipe from a straight line, either in the vertical or horizontal plane, or when long radius curves are shown, the amount of deflection allowed shall not exceed that recommended by the pipe manufacturer.
- J. Pipelines intended to be straight shall not deviate from the straight line at any joint in excess of the manufacturer's recommendations either horizontally or vertically
- K. Storm Sewer Crossing with Sanitary Sewers and Waterlines: A minimum of 12 inches of vertical separation shall be maintained between the storm sewer lines and any sanitary or water line.

## 1.5 CONNECTIONS AND TAPS

- A. Line taps shall be core drilled unless approved otherwise by the City. Core-drilled holes shall be done using a cylinder-style hole saw for plastic pipe material or a diamond core bit for concrete and ductile iron pipes.
- B. Prior to installation of the saddle, the area around the saddle installation shall be clean and free of all rough edges. No rock, dirt, or debris shall be allowed to enter the main sewer line while installing saddle.

## SECTION 05110

### SEWER MANHOLES

#### 1.1 GENERAL REQUIREMENTS

This section specifies the work necessary for the construction, installation, and testing of stormwater manholes, including but not limited to manholes, rims, frames, covers, and other appurtenances; quality assurance and control; and acceptance testing. Stormwater manholes shall be constructed in conformance to the Contract Drawings and Detail Drawings.

#### 1.2 HANDLING AND MATERIALS

Contractor shall unload, handle, and store materials in accordance with manufacturer's published recommendations. It shall be Contractor's responsibility to inspect materials prior to lowering into the trench to insure no cracked, broken, or otherwise defective materials are used. Unless otherwise noted, all pipe materials provided for the project shall be new, of first class quality and shall be made by reputable manufacturers. All material of a like kind shall be provided from a single manufacturer unless otherwise approved by the Engineer. All material shall be carefully handled and installed in good working order free from defect in manufacture, storage and handling.

#### 1.3 PRODUCTS

##### A. Precast Manholes

- 1) Precast manholes shall be concrete. Concrete shall conform to the requirement of ASTM C94, Alternate 2. Compressive field strength for manhole bases and miscellaneous concrete structures shall be not less than 3,000 psi at 28 days. Maximum size of aggregate shall be one and one-half inches. Slump shall be between two and four inches.
- 2) Materials shall conform to the requirements of ASTM C 478. Minimum wall thickness shall be four (4) inches. Cones shall have the same wall thickness and reinforcement as riser sections. Cones shall be eccentric in relation to the center of the manhole.
- 3) Precast manhole sections shall consist of circular sections in standard nominal inside diameters. Heights of sections shall be multiples of 12 inches. Heights of manhole sections 72 inches through 96 inches in diameter shall be as required to fit site conditions. Other sections shall be 24-inch riser and Flat top sections.
- 4) Flat tops with precast grooves reinforced to withstand AASHTO H20 loadings shall be provided for manholes four feet deep from the crown of the pipe and less. Top and bottom of all sections shall be parallel.
- 5) Precast Manhole Bases shall comply with City of St Helens Standard Drawing 350

##### B. Frame and Cover

- 1) Frames and covers shall be standard or suburban per City of St. Helens Standard Drawing 346 as approved by the City. Covers shall be true and set within ring at all points.

### C. Manhole Extensions

- 1) The concrete rings used in extensions shall be three (3) inches in thickness and of standard construction. The rings shall be approved by Engineer before being installed. In general, manhole extensions will be used on all manholes in roads or streets or other locations where a subsequent change in existing grade is likely. At least one shall be used, but not more than three.

### D. Manhole Steps

- 1) Manhole step material shall be plastic with reinforcing bar, a minimum one-half-inch Grade 60, meeting requirements of ASTM A615 encapsulated with injection-molded copolymer polypropylene with serrated surfaces.

### E. Metal Castings

- 1) Cast iron materials shall conform to the requirements of ASTM A48, Class 30B. The Contractor shall provide the manufacturer's certification warranting compliance with the referenced standard.
- 2) Manhole covers shall be designed so they may be secured to the frames. Matching surfaces of covers and frames shall be flat to prevent any movement of covers within the frames. Covers and frames shall be interchangeable.
- 3) All manhole frames and covers, located within City right-of-way or easements, shall be tamper-proof, see City of St. Helens Standard Drawing 346
- 4) Cap screws and washers for watertight manhole covers shall be stainless steel with 60,000 psi minimum tensile strength conforming to the requirements of ASTM A 453

### F. Mortar

- 1) Mortar shall conform to the requirements of ASTM C 387, or be proportioned one part Portland cement to two parts clean, well-graded sand which will pass a 1/8-inch screen. Admixtures may be used not exceeding the following percentages by weight of cement: hydrated lime, 10 percent; diatomaceous earth or other inert materials, five (5) percent.
- 2) The consistency of the mortar shall be such that it will readily adhere to the precast concrete if using the standard tongue-and-groove type joint. Mortar mixed for longer than 30 minutes shall not be used.

### G. Non-Shrink Grout

- 1) Non-Shrink Grout shall be Avanti AV-100, or Approved Equal non-metallic cementitious commercial grout.
- 2) All grout shall contain ConmicShield antimicrobial concrete additive, manufactured by ConShield Technologies, Inc.
- 3) Grout shall not be amended with cement or sand and shall not be reconditioned with water after initial mixing. Unused grout shall be discarded after 20 minutes and shall not be used.

Non-shrink grouts shall be placed or packed only with the use of an approved commercial concrete bonding agent applied to all cured concrete surfaces being grouted. The bonding agent shall be compatible with the brand of grout used. Water shall not be used as a substitute for the commercial bonding agent.

- 4) JetSet shall not be used as a non-shrink grout.

#### H. Gaskets

- 1) Rubber Manhole Gaskets materials shall conform to ASTM C 443.

#### I. Manhole Adapters for Non-rigid Pipe

- 1) PVC or other non-rigid pipe shall be connected to manholes using an approved adapter specifically manufactured for the intended service. Pipe adapters shall be Fernco CMA, Kor-N-Seal, or Approved Equal.
- 2) Field-fabricated waterstops or improvised adapters shall not be used. Adapters requiring the use of grout for installation shall be anchored and finished using non-shrink grout.

#### J. Manhole Pipe Connector

- 1) Rigid pipe entering or leaving a manhole shall use a flexible connector that is designed to produce a positive watertight connection.

### 1.4 EXECUTION

- A. Manhole Connections: Contractor shall construct openings in the existing manhole base or barrel as required and construct connections that are watertight and that will provide a smooth flow into and through the manhole. All sewer pipe connections, including those at invert level as well as penetrations for drop connectors, conduits, and carry-throughs, shall conform to the requirements herein.
- B. Contractor shall provide all diversion facilities and perform all work necessary to maintain flow in existing lines during the connection to the manhole
- C. All rigid non-reinforced pipe entering or leaving manholes shall be provided with a flexible joint within 1-foot of the outside wall of the manhole structure and shall be placed on firmly compacted bedding.
- D. Pipe connections to manholes are considered incidental to the cost of the manhole
- E. Precast manhole components may be used to construct standard, drop, and carry-through manholes. Manholes less than 6 feet in depth measured from the invert of the outlet pipe to the bottom of the lower riser ring shall be flat-top manholes
- K. Cast-in-Place Manhole Bases: If bases are cast in place, the concrete shall be consolidated by mechanical vibration. The concrete shall be screeded off in such a manner such that the first manhole section to be placed has a level uniform bearing for the full circumference.

- L. Precast bases shall be constructed in accordance with City of St Helens Standard Drawing 360. If bases are precast, the base section shall be carefully placed on the prepared bedding so as to be fully and uniformly supported at true grade and alignment
- M. Manhole Inverts: shall be constructed in conformance with the drawings and in accordance with City of St Helens Standard Drawings 360 and to a section identical with that of the sewer pipe. Where the size of sewer pipe is changed at the manhole, the invert shall be constructed to form a smooth transition without abrupt breaks or unevenness of the invert surfaces.
- N. During construction, Contractor shall divert existing flows of water or sewage from new concrete or mortar surfaces to prevent damage to the fresh concrete or mortar until the initial set has been achieved
- O. Precast Manhole Sections: All lift/pick holes in sanitary sewer manholes shall be thoroughly wetted, then completely filled with mortar, and smoothed and pointed both inside and out to ensure water tightness.
- P. Preformed plastic or rubber gaskets shall be used on all manholes. Mortar will be allowed on storm manholes, as a finish on the inside of each manhole joint, and on 24-inch extension rings above the cone. All mortar joints between precast elements shall be thoroughly wetted then completely filled with mortar. On proposed street grades, a minimum of one 24-inch precast riser will be required between the cone and manhole cover frame.
- Q. Manhole Frames and Covers: shall be installed flush with the adjoining pavement or ground surface in such a manner as to prevent infiltration of surface or ground water between the frame and the concrete of the manhole section. All mortared manhole necks and all riser ring joints made with mortar shall be constructed using an approved commercial concrete bonding agent applied to all cured concrete surfaces being mortared. No joints, necks or frames on manholes shall be mortared without an approved bonding agent
- R. Manhole covers shall be tamper-proof where located in pedestrian areas or in easement.
- S. Frames and covers shall be stamped with manufacturer's initials, heat number, and point of origin
- T. Manhole Risers: shall be built as shown on the special details for manholes on the Plans to the height directed by Engineer. Risers shall be added on manholes in existing streets and driveways or where otherwise directed by Engineer. The actual height of risers shall be as determined by Engineer. The rings shall be laid straight and true; the mortar shall be of the same material as that used in the manhole construction. Material used shall be of the highest quality and equal to similar materials specified in other sections
- U. Connection to Existing Manholes: Contractor shall connect storm sewer lines to existing manholes at locations indicated; Provide all diversion facilities and perform all work necessary to maintain flow in existing storm systems during connection to the manholes; Break out existing manhole bases or grouting as necessary and re-grout to provide smooth flow into and through existing manholes. The Contractor shall allow no debris to enter the existing system while making the connection.



## SECTION 05600

### PIPE CLEANING & CCTV INSPECTION

#### 1.1 GENERAL REQUIREMENTS

Pipe cleaning and closed circuit televised (CCTV) inspection includes all labor, materials, equipment, and incidentals necessary for cleaning and internal TV inspection of sewer and storm drain lines. Work shall include, but not be limited to cleaning and TV inspection of designated pipe lines, and all other incidental work specified or shown in the Contract Documents. Contractor shall perform all work in accordance with Federal OSHA and State safety requirements.

#### 1.2 SUBMITTALS

Submittals shall be in accordance with the requirements of Contract Documents, and shall include the following:

- A. Product data on TV inspection equipment, including a list of size, type, and capabilities of each piece of equipment
- B. Preliminary review copy of CCTV inspection video and report submitted on flash drive
- C. CCTV inspection reports, CCTV inspection database, and Digital CCTV inspection recordings

#### 1.3 SEWER CLEANING

- A. Contractor shall thoroughly clean (hydroflush) pipe prior to performing a closed-circuit television inspection (CCTV).
- B. Contractor will obtain a hydrant meter from the City. See Section 02400.1.10 TEMPORARY UTILITIES FOR CONSTRUCTION PURPOSES for more details. The Contractor shall provide all hoses, adapters, and appurtenances required for obtaining water from the designated hydrants. Access to the hydrants shall not be obstructed in case of fire in the area served by the hydrant.
- C. Contractor shall furnish and utilize a combination of high velocity hydraulic cleaning equipment and a vacuum unit as specified or required. High velocity cleaning equipment shall be used to clean all pipe lines unless otherwise specified or approved by the Engineer. Low velocity or mechanical cleaning equipment shall not be used in lieu of high velocity equipment.

#### 1.4 EXECUTION

- A. Clean all pipe lines and manholes designated on the drawings or directed by the Engineer prior to CCTV inspection including the manholes at both ends of the section to be inspected. Equipment as specified shall be used for cleaning.

- B. All dirt, sand, grease, rocks, roots, or other accumulations shall be removed from pipe walls and manholes. Existing lines shall be protected from damage caused by cleaning operations. Hydraulic cleaning operations shall be conducted with care to avoid damage to pipes and manholes, or flooding of adjacent property.
- C. The Contractor shall be responsible for the proper and legal disposal of all materials removed from the pipes and manholes in a manner acceptable to the Engineer. The City does have a local disposal point.
- D. The Engineer may order the use of other methods or equipment when it appears necessary. High Velocity Cleaning Equipment with Vacuum Pickup of Materials shall include,
  - 1) High velocity cleaning equipment shall be capable of providing up to 200 gallons per minute at 2,000 pounds per square inch (psi) of working pressure. Contractor shall provide a minimum of 500 feet of 1-inch ID high-pressure hose with at least two cleaning nozzles. The nozzles shall be capable of producing a scouring action from 15 to 45 degrees in all size lines designated to be cleaned. The equipment shall also include a high velocity "gun" for cleaning manhole walls and bottoms. The equipment shall be complete including 1,200 gallon water tanks suitable for holding corrosive or caustic chemicals, pumps, hose, hydraulically driven hose reel, auxiliary engines, controls, and all safety features required by law.
  - 2) The cleaning equipment shall have an integral vacuum unit to allow the material cleaned from the pipes to be vacuumed directly from the manhole.
- E. Contractor shall provide additional cleaning equipment, including root cutters, as required to satisfactorily clean the pipe

#### **1.5 MAINTAINING SEWER FLOWS AND CLEANING PRECAUTIONS**

- A. During cleaning operations, precautions shall be taken by the Contractor in the use of cleaning equipment. Precautions shall be taken to insure that the water pressure created does not damage or cause flooding of public or private property being served by the sewer or storm drain.
- B. Precautions shall be taken to protect the pipe lines and manholes from damage that may result from the improper use of cleaning equipment. The Contractor shall be solely responsible for the repair of any damage to structurally sound lines and damage to properties connected to the pipe which results from the cleaning operations.
- C. It is the Contractor's responsibility to remove any equipment that may become lodged in the pipe and to repair any damaged section(s) of the pipe resulting from equipment retrieval at no additional cost to the City.
- D. All pipe system components shall remain in service through the cleaning and TV inspection operations unless specific exceptions are approved in writing by the Engineer.

- E. Contractor shall immediately notify the Project Manager of any defect posing imminent danger to the public (missing or broken manhole covers, sinkholes, etc.) and any observed pipe collapses, blockages or overflow conditions observed during inspection.
- F. The methods used to maintain flows shall be at the Contractor's option and may include use of flow-through plugs with periodic release of flow, or bypass pumping. The bypass system, if used, shall be capable of conveying flows when the pipe system is flowing full.
- G. During periods of very high flows, when lines flow greater than half full, the Contractor, with the Engineer's approval, shall suspend cleaning operations until flows are again less than half full.
- H. When the pipe depth of flow at the downstream manhole of the mainline section being inspected is above the maximum allowable for television inspection, the Contractor shall provide flow-through plugs or other means where necessary to ensure that the flows are reduced to the levels specified above.

## 1.6 CCTV INSPECTION

### A. TV Inspection Equipment

- 1) A closed circuit color television (CCTV) camera capable of providing still pictures and videos shall be used on all lines. The CCTV equipment shall be specifically designed for sewer inspection operations and shall be operative in 100 percent humidity conditions. Lighting and camera quality shall be suitable to allow a clear focused picture a minimum of six linear feet in front of the camera of the entire inside periphery of the pipe.
- 2) The camera shall have an adjustable focus distance from six inches to infinity, and the camera lights shall be variable intensity, with light, focus, and aperture remotely controlled by the operating technician at the monitoring station.
- 3) Contractor shall provide a CCTV camera capable of navigating Vitrified Clay Pipe (VCP) or concrete pipe 6- inches in diameter with offset joints potentially greater than 1/4-inch.
- 4) Camera travel speed shall be from 1.8 to 30 feet per minute (fpm) with smooth, uniform motion. Sudden stops and starts will not be acceptable. Camera shall be capable of stopping and reversing direction as necessary to document sewer conditions. Video pictures shall be clear, sharp, and free from vibratory or electrical interference when the camera is in operation and recorded in MPEG format.
- 5) A CCTV camera with pan-tilt capabilities shall be used on all lines six-inches and larger in diameter. The CCTV camera shall be a tractor-powered camera being able to inspect dead end lines, and shall be remotely controlled by an operating technician.
- 6) The monitoring station shall be truck-mounted, capable of seating two viewing personnel and one operating technician. Monitoring station shall be fully enclosed within a rigid weatherproof enclosure on the TV truck.

- 7) A minimum of two color display monitors (minimum 650 lines horizontal resolution) operating simultaneously shall be used in the monitoring station. The monitors shall be of a proper size to allow all viewing personnel in the monitoring station a satisfactory view, and shall continuously display the current date, manhole designation of the mainline being inspected, and a continuous forward and reverse read-out of the camera distance from the manhole of reference.
- 8) All CCTV video recordings shall be of high resolution that it can be viewed full-screen without significant loss of image quality and clarity. Video quality must be such that pipe defects are easily detected and pipe material and condition can be determined.
- 9) The lighting intensity shall be adjusted to minimize glare. The CCTV recording shall have lighting and camera quality sufficient to provide a clear, in-focus picture of the entire inside periphery of the sewer pipe for all conditions encountered during the inspection. The lighting shall be suitable to allow a clear picture of the entire inner pipe wall extending at least 4 feet in front.
- 10) Camera lens must be kept clean and clear. Fogging due to oil, grease, other fluid, or debris that obscures the lens shall be cleaned off before proceeding with recording operation.
- 11) The node name/identifier, pipe size, pipe material, date, time, inspection direction, and footage shall be shown continuously.
- 12) Digital text information shall be displayed at the start of each CCTV video recording:
  - Date
  - Time
  - Weather
  - City
  - Location (Street, Intersection, or Nearest Address)
  - Contractor
  - TV Inspector
  - Project Number
  - Pipe Material
  - Pipe Size
  - Upstream Manhole
  - Downstream Manhole
  - Manhole at which TV inspection begins

#### B. CCTV Inspection

- 1) Internal CCTV inspection of pipelines as shown on the drawings shall be performed only after the pipes have been thoroughly cleaned so that service connections, cracks, leaks and structural failures may be located.
- 2) Distance Measurement. The “zero” point of the inspection shall be the centerline of the manhole where the camera is inserted. The footage counter shall be set accordingly by

adding the footage from the centerline of the manhole to the edge of the manhole plus the camera length.

- 3) The CCTV inspection shall be performed on one mainline section at a time and between two manholes. Each mainline section being inspected shall be isolated from the remainder of the line as necessary by the use of line plugs or bypass pumping to insure viewing of the inside periphery of the pipe. The TV inspection shall be performed by moving the television camera through the line along the axis of the pipe. The inspection shall be performed in a forward and/or backward direction, according to line conditions at the time the inspection is made.
- 4) The pan-tilt camera shall be turned to view directly up the axis of each service lateral
- 5) If CCTV camera gets stuck in line during the CCTV inspection it is the responsibility of the Contractor to recover camera equipment. Contractor shall be responsible for repairing all damages associated with the recovery of camera equipment at no cost to the City.
- 6) Contractor shall notify the City immediately of any major problems or emergency situations in the field such as collapsed or severely broken pipe, sewer overflows or significant surcharge, blockages, or injury to Contractor personnel or the public during Contractor operations. Contractor will be held responsible for any damage that occur as a result of the Contractor's work, and not deemed a pre-existing condition by the City. Repairs of such damage shall be approved by the City prior to its execution. All costs associated with repairs caused by the Contractor are the sole responsibility of the Contractor.
- 7) Depths of flow at the downstream manhole during television inspection shall not exceed those shown below when performing television inspection of the lines.

Pipe Diameter (inches)	Maximum Flow Depth % of Pipe Diameter
6 - 10	10
12 - 24	15
30 - 42	20
48 - 72	25

C. CCTV Inspection Deliverables

- 1) Contractor shall provide CCTV of each section of line from and to node in its entirety. The deliverables shall be submitted in a timely manner and in groups of no less than ten at a time.
- 2) Contractor shall provide video in MP4 (or Approved Equal) format. If any video is deemed unusable due to poor video quality, lighting, poor visibility, etc. in the opinion of the Engineer, the Contractor shall re-CCTV said mainlines at no extra cost to the City.

- 3) The Contractor shall submit in digital format the read only version of the database with reports using City callouts, videos and pictures. The Contractor shall submit paper versions in book format with table of contents. The reports shall not have the pictures of major defect on the report itself. Pictures shall be on a separate page and large enough to view the defect itself and referenced to report. The Contractor shall also submit each individual inspection reports without pictures in separate PDF file format labeled with the, from and to, node number of the report.
- 4) The inspection reports are to note the node identification number, direction of flow, physical location of nearest address (beginning and end), footage, position, and type of defects, branches into the mainline, diameter of pipe, pipe type, time/date, and weather condition.
- 5) The CCTV shall be from node to node with uninterrupted video or as authorized by the Engineer. If an inspection is abandoned for any reason and a reversal is not possible, this information shall be clearly stated in the report. The CCTV velocity shall be slow enough to inspect defects in the line and to log all major defects.
- 6) The inability or failure to CCTV video record the entire length of the sewer from node to node resulting from but not limited to blurry or foggy video, joint offsets, collapsed pipe, or debris will result in the rejection of the CCTV inspection.

### 1.7 CCTV DEFECT IDENTIFIERS

The Contractor shall use the defect identifiers provided below during CCTV inspection of pipe lines. The defect identifiers are classified into twelve different categories, each having a rank of one to four, with 1 being the lowest or the least critical defect to 4 being the highest or the most critical defect. The Contractor shall use the identifier with a corresponding rank of 1 through 4.

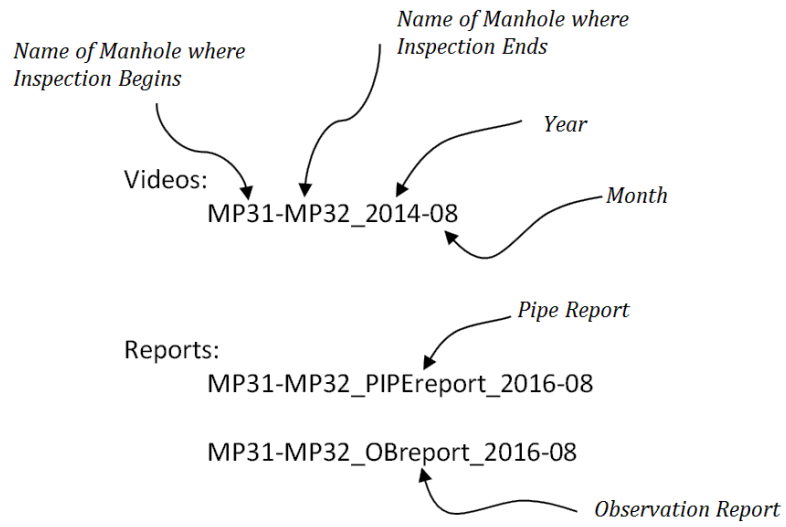
<b>CCTV Defect Callouts - Identifier Table</b>			
<b><u>Crack</u></b> (1) Minor, no structural impairment	<b><u>Fracture</u></b> (1) Minor, no structural impairment	<b><u>Joint</u></b> (1) Minor, small offset separation	<b><u>Deformation and Sags</u></b> (1) Minor, < 10% of pipe diameter
(2) Crack > ¼”, structural impairment not imminent	(2) Fracture > ¼”, structural impairment not imminent	(2) Moderate offset separation	(2) Moderate, 10% to 25% of pipe diameter
(3) Crack > ½”, structural failure imminent	(3) Fracture > ½”, structural failure imminent	(3) Major offset separation	(3) Major, 50% of pipe diameter
(4) Severe, requires immediate attention	(4) Severe, requires immediate attention	(4) Severe offset, requires immediate attention	(4) Severe, 100% of pipe diameter

<p><b><u>Inflow and Infiltration</u></b>  (1) Minor – Staining  (2) Moderate – Weeping  (3) Major –Dripping  (4) Severe – Gushing</p>	<p><b><u>Interior Surface</u></b>  (1) Minor, rough surface  (2) Moderate, aggregate visible  (3) Major, aggregate protruding, heavy spalling  (4) Severe, holes visible aggregate missing</p>	<p><b><u>Broken</u></b>  (1) Void visible  (2) Soil visible  (3) Collapse, partial  (4) Collapse, total</p>	<p><b><u>Active Lateral</u></b>  (1) No apparent defects  (2) Protruding or hammer tap  (3) Misaligned, cracked or fractured  (4) Collapsed, severe flow restriction</p>
<p><b><u>Inactive Lateral</u></b>  (1) Capped, no apparent defects  (2) Protruding or hammer tap  (3) Misaligned, cracked or fractured cap  (4) Not capped or Severely broken</p>	<p><b><u>Obstruction</u></b>  (1) Minor, minimal flow restriction  (2) Moderate, 25% flow restriction  (3) Major, 25% to 50% flow restriction  (4) Severe, &gt; 50% flow restriction, camera cannot pass</p>	<p><b><u>Root Intrusion</u></b>  (1) Minor, some root penetration –no blockage  (2) Moderate, established root presence – less than 25% pipe diameter blocked  (3) Major, established root presence – 50% pipe diameter blocked  (4) Severe, established root presence, Pipe diameter almost completely blocked</p>	<p><b><u>Liner</u></b>  (1) Blistered or wrinkled  (2) Discoloration  (3) Delamination  (4) Detached</p>

*(Note: Some defects will have multiple defect identifiers and corresponding ranking.)*

### 1.8 CCTV INSPECTION SUBMITTAL FORMAT AND FILE NAMING CONVENTION

The Contractor shall submit all CCTV video recordings on a portable hard drive or on flash drives in MP4 or approved equal file format. Each CCTV video recording submitted shall be submitted with the corresponding Pipe Inspection Report concurrently. Digital files shall be labeled as shown,





## Columbia Boulevard Sidewalk

WORK TO BE DONE.....	1
SECTION 00210 - MOBILIZATION.....	2
SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC.....	2
SECTION 00221 - COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL.....	2
SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS.....	3
SECTION 00223 - WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES.....	3
SECTION 00224 - TEMPORARY TRAFFIC CHANNELIZING DEVICES.....	3
SECTION 00228 - TEMPORARY PEDESTRIAN AND BICYCLIST ROUTING.....	3
SECTION 00280 - EROSION AND SEDIMENT CONTROL.....	4
SECTION 00290 - ENVIRONMENTAL PROTECTION.....	4
SECTION 00305 - CONSTRUCTION SURVEY WORK.....	6
SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.....	6
SECTION 00320 - CLEARING AND GRUBBING.....	6
SECTION 00330 - EARTHWORK.....	6
SECTION 00350 - GEOSYNTHETIC INSTALLATION.....	7
SECTION 00390 - RIPRAP PROTECTION.....	8
SECTION 00430 - SUBSURFACE DRAINS.....	9
SECTION 00440 - COMMERCIAL GRADE CONCRETE.....	9
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE.....	9
SECTION 00470 - MANHOLES, CATCH BASINS, AND INLETS.....	10
SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES.....	10
SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS.....	11
SECTION 00640 - AGGREGATE BASE AND SHOULDERS.....	12
SECTION 00730 - EMULSIFIED ASPHALT TACK COAT.....	12
SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP).....	12
SECTION 00744 - ASPHALT CONCRETE PAVEMENT.....	12
SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES.....	12
SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS.....	18
SECTION 00860 - LONGITUDINAL PAVEMENT MARKINGS - PAINT.....	18
SECTION 00867 - TRANSVERSE PAVEMENT MARKINGS - LEGENDS AND BARS.....	18
SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS.....	19
SECTION 00920 - SIGN SUPPORT FOOTINGS.....	19
SECTION 00930 - METAL SIGN SUPPORTS.....	19
SECTION 00940 - SIGNS.....	19
SECTION 00960 - COMMON PROVISIONS FOR ELECTRICAL SYSTEMS.....	19
SECTION 00962 - METAL ILLUMINATION AND TRAFFIC SIGNAL SUPPORTS.....	20
SECTION 00990 - TRAFFIC SIGNALS.....	20
SECTION 01030 - SEEDING.....	22
SECTION 01040 - PLANTING.....	24
SECTION 01050 - FENCES.....	26
SECTION 01140 - POTABLE WATER PIPE AND FITTINGS.....	27
SECTION 01150 - POTABLE WATER VALVES.....	27
SECTION 01160 - HYDRANTS AND APPURTENANCES.....	27

## Columbia Boulevard Sidewalk

SECTION 01170 - POTABLE WATER SERVICE CONNECTIONS, 2 INCH AND SMALLER .....	27
SECTION 02001 - CONCRETE .....	28
SECTION 02030 – SUPPLEMENTARY CEMENTITIOUS MATERIALS .....	29
SECTION 02050 - CURING MATERIALS .....	30
SECTION 02415 - PLASTIC PIPE .....	30
SECTION 02560 - FASTENERS .....	30
SECTION 02690 - PCC AGGREGATES .....	31
SECTION 02910 - SIGN MATERIALS .....	32






SPECIAL PROVISIONS

FOR

Grading, Drainage, Structures, Paving, Curb Ramps, Signals & Roadside Development  
Columbia Boulevard Sidewalk  
From Gable Rd. to Sykes Rd.  
St. Helens, Oregon  
Columbia County

**PROFESSIONAL OF RECORD CERTIFICATION:**

<p>Seal w/signature (Paul Tappana)</p>  <p>EXPIRES: 6/30/2024</p>	<p>I certify the Special Provision Section(s) listed below are applicable to the design for the subject project for Roadway, Temporary Traffic Control, Erosion/Pollution Control, Permanent Traffic Control, Seeding/Planting, &amp; Potable Water. Modified Special Provisions were prepared by me or under my supervision.</p> <p>Section(s) 00220, 00221, 00222, 00223, 00224, 00228, 00280, 00305, 00310, 00320, 00330, 00350, 00390, 00430, 00440, 00445, 00470, 00490, 00640, 00730, 00740, 00744, 00759, 00850, 00860, 00867, 00905, 00920, 00930, 00940, 00960, 00962, 00990, 00940, 01030, 01040, 01050, 01140, 01150, 01160, 01170, 02001, 02030, 02050, 02415, 02560, 02690, 02910</p>
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FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

SPECIAL PROVISIONS

FOR

Grading, Drainage, Structures, Paving, Curb Ramps, Signals & Roadside Development  
Columbia Boulevard Sidewalk Project  
From Gable Rd. to Sykes Rd.  
St. Helens, Oregon  
Columbia County

**PROFESSIONAL OF RECORD CERTIFICATION:**

<p>Seal w/signature (Makenzie Ellett)</p>  <p>DIGITALLY SIGNED 2022.09.23 16:32:37-07'00' OREGON MARCH 12, 2019 MAKENZIE ANN ELLETT RENEWS: 12-31-2023</p>	<p>I certify the Special Provision Section(s) listed below are applicable to the design for the subject project for Retaining Walls. Modified Special Provisions were prepared by me or under my supervision.</p>
	<p>Section(s) 0596B</p>

FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST







# **Columbia Boulevard Sidewalk**

## **SPECIAL PROVISIONS**

### **WORK TO BE DONE**

The Work to be done under this Contract consists of the following:

1. Construct curbs, gutters and sidewalks.
2. Construct retaining wall.
3. Install flashing beacon installation.
4. Perform additional and Incidental Work as called for by the Specifications and Plans.

### **APPLICABLE SPECIFICATIONS**

The Specifications that are applicable to the Work on this Project is the 2021 edition of the "Oregon Standard Specifications for Construction", as modified by these Special Provisions. All Sections in Part 00100 apply, whether or not modified or referenced in the Special Provisions.

All number references in these Special Provisions shall be understood to refer to the Sections and subsections of the Standard Specifications bearing like numbers and to Sections and subsections contained in these Special Provisions in their entirety.

## Columbia Boulevard Sidewalk

### SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications.

### SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

Comply with Section 00220 of the Standard Specifications modified as follows:

**00220.02(a) General Requirements** - Add the following bullet to the end of the bullet list:

- When an abrupt edge is created by excavation, protect traffic according to the "Excavation Abrupt Edge" and the "Typical Abrupt Edge Delineation" configurations shown on the Standard Drawings.

**00220.40(e)(1) Closed Lanes** - Replace this subsection, except for the subsection number and title, with the following:

### SECTION 00221 - COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL

Comply with Section 00221 of the Standard Specifications modified as follows:

**00221.03 Traffic Safety and Operations** - Replace the bullet that begins "When paving operations create..." with the following bullet:

- When paving operations create an abrupt or sloped edge drop off greater than 1 inch, protect traffic by installing signing according to the "2 Lane, 2 Way Roadway Overlay Area" detail shown on the Standard Drawings. Protect longitudinal and transverse Pavement joints by placing and maintaining an asphalt concrete wedge according to 00221.07(c)(1).

**00221.07(c)(1) Paving** - Replace this subsection, except subsection number and title, with the following:

When the longitudinal joint is greater than 1 inch in height, install additional TCD according to 00221.03. Complete the placing of ACP and construction of paving joints according to 00735.48, 00735.49, 00743.45, 00744.44, 00744.45, 00745.47, and 00745.48, as applicable.

**00221.90(b) Temporary Protection and Direction of Traffic** - Delete the bullet that begins "Moving temporary barrier to and from Contractor's stockpile areas".

Replace the bullet that begins "When the Schedule of Items does not include ..." with the following bullet:

## **Columbia Boulevard Sidewalk**

- Preparing and signing the daily “Traffic Control Inspection Report”, when a TCS is not included in the Schedule of Items or when a TCS is not onsite for a work shift.

### **SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS**

Comply with Section 00222 of the Standard Specifications.

### **SECTION 00223 - WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES**

Comply with Section 00223 of the Standard Specifications modified as follows:

**00223.31(b) Traffic Control Inspection Without TCS** - Replace the bullet that begins “Prepares and signs a daily “Traffic Control Inspection Report”...” with the following bullet:

- Prepares and signs a “Traffic Control Inspection Report” (Form No. 734-2474) upon the initial installation of TCM and each working day when any modification, removal, or reinstallation of TCM are made, or as directed by the Engineer. Submit completed reports to the Engineer no later than the end of the next working day.

### **SECTION 00224 - TEMPORARY TRAFFIC CHANNELIZING DEVICES**

Comply with Section 00224 of the Standard Specifications:

### **SECTION 00228 - TEMPORARY PEDESTRIAN AND BICYCLIST ROUTING**

Comply with Section 00228 of the Standard Specifications modified as follows:

**00228.00 Scope** - Replace this subsection, except subsection number and title, with the following:

In addition to the requirements of Section 00221, this Work consists of furnishing, installing, operating, maintaining, inspecting, and removing temporary devices for accommodating pedestrians and bicyclists through a work zone.

**00228.13 Temporary Curb Ramps** - Add the following sentence to the end of this subsection:

Furnish truncated dome detectable warning surface for temporary curb ramps from the QPL according to 00759.12.

**00228.43 Temporary Curb Ramps** - Add the following paragraph to the end of this subsection:

## Columbia Boulevard Sidewalk

Install a minimum 2 foot wide truncated dome detectable warning surface on temporary curb ramps at pedestrian street crossings. Omit truncated dome detectable warning surfaces on temporary curb ramps that are not at a pedestrian street crossing.

**00228.80(a) Length Basis** - Replace this subsection, except subsection number and title, with the following:

Pedestrian channelizing devices and bicycle channelizing devices will be measured on the length basis upon delivery to the Project. The quantities will be limited to those in the approved TCP.

**00228.80(b) Unit Basis** - Replace this subsection, except for the subsection number and title, with the following:

Temporary curb ramps will be measured on the unit basis, at each location where a temporary curb ramp is constructed or placed.

**00228.90 Payment** - Add the following paragraph after the paragraph that begins "In item (c), the type...":

Item (c) includes furnishing and installing truncated dome detectable warning surfaces.

### SECTION 00280 - EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications.

### SECTION 00290 - ENVIRONMENTAL PROTECTION

Comply with Section 00290 of the Standard Specifications modified as follows:

#### **00290.10 Staging and Disposal Sites –**

Replace the paragraph that begins "Locate staging areas and disposal..." with the following paragraphs:

Locate staging areas and disposal sites in previously improved or disturbed sites, including existing Roadways, pullouts, turnouts, parking lots, and storage yards that have been compacted, and graveled or paved unless otherwise specified in Section 00236 or Section 00237 or approved, in writing, by the Engineer,

Do not stage Equipment, park Equipment or store Materials in any City, County, State, or Federal park, wayside or recreational facility.

**00290.20(c)(1) General** - Replace the paragraph that begins "Segregate all demolition debris according to..." with the following paragraph:

Segregate all demolition and construction debris according to its intended end use (reuse, recycle, or dispose). If required, store in designated areas in a manner that prevents contamination to Soil and water and prevents fugitive dust emissions. Remove all waste

## Columbia Boulevard Sidewalk

materials recovered from the site unless otherwise approved, in writing. Retain disposal and recycling facility receipts for wastes generated on site for at least 1 year after completion of the Project. Provide copies of the receipts to the Engineer within 7 Calendar Days of the disposal or recycling.

**00290.20(c)(3) Reuse, Recycle and Dispose of Materials** - Replace the title of this subsection with “**Reuse, Recycle, Compost and Dispose of Materials**”.

**(3) Reuse, Recycle, Compost and Dispose of Materials** – Replace the three bullets with the following bullets:

Reuse demolition and construction debris.

Recycle demolition and construction debris.

Compost or mulch yard waste material from lawn and landscape maintenance.

If it is not feasible to reuse, recycle, or compost, (“feasible” is defined as a facility that is capable of handling the material, will take the material and the cost of transportation plus the cost to reuse or recycle the material is equal to or less than the costs of disposal) dispose of waste material according to the following:

**00290.30(a)(1) Pollution Control Measures** - Add the following bullet to this subsection:

- Do not cause a visible sediment plume in waters of the State or U.S.

**00290.30(b) Pollution Control Plan** - Replace the paragraph that begins “Develop and submit a PCP...” with the following:

Develop a PCP using ODOT Form 734-2445 and submit it for approval 10 Calendar Days before the preconstruction conference. Maintain a copy of the PCP on-site at all times during construction activities, readily available to employees and Inspectors. Ensure that all employees comply with the provisions of the PCP.

Delete the paragraph that begins “A Pollution Control Plan...”.

**00290.41 Protection of Wetlands** – Replace the title of this subsection with “**Protection of Waters of the U.S. or State**”

Delete the paragraph that begins with “For the purposes of this Section...”.

**00290.41(a) Identifying Wetlands** – Replace the title of this subsection with “**Identifying Waters of the U.S. or State, Including Wetlands**”

## Columbia Boulevard Sidewalk

### SECTION 00305 - CONSTRUCTION SURVEY WORK

Comply with Section 00305 of the Standard Specifications.:

### SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications modified as follows:

**00310.90 Payment** - Add the following to the end of this subsection:

No separate or additional payment will be made for removal or disposal Work included in Section 00330 according to 00310.02.

**00310.92 Separate Item Basis** - Add the following Pay Item to the Pay Item list:

- (i) Removal of Curb Ramp, Walk, Curb, Surfacing ..... Square Yard

Add the following to the end of this subsection:

Item (i) includes all removal Work associated with curb ramp replacement, including but not limited to PCC Saw Cutting. Item (i) does not include Asphalt Pavement Saw Cutting.

### SECTION 00320 - CLEARING AND GRUBBING

Comply with Section 00320 of the Standard Specifications modified as follows:

**00320.42 Disposal of Matter** - Replace this subsection with the following subsection:

**00320.42 Ownership and Disposal of Matter** - Vegetation and natural material designated for preservation and salvage are the property of the Agency. All other matter and debris accumulated from clearing and grubbing operations become the Contractor's property at the place of origin. Dispose of all matter and debris according to 00290.20.

### SECTION 00330 - EARTHWORK

Comply with Section 00330 of the Standard Specifications modified as follows:

**00330.03 Basis of Performance** - Add the following paragraph to the end of this subsection:

Perform all earthwork under this Section except for Foundation excavation and backfill on the embankment basis.

## Columbia Boulevard Sidewalk

**00330.14 Selected Granular Backfill** - Delete the sentence that begins “Reclaimed glass meeting the requirements of Section 02695...”

**00330.15 Selected Stone Backfill** - Delete the sentence that begins “Reclaimed glass meeting the requirements of Section 02695...”

**00330.42(c)(3) Embankment Slope Protection** - Add the following paragraph to the end of this subsection:

Construct the outer 12 inches of embankments with suitable materials to establish slope stabilization through permanent seeding. If suitable material is not available, provide suitable materials from a Contractor-provided source which conforms to the requirements of 00330.11 or 00330.13 and provides favorable conditions for germination of seed and growth of grass.

**00330.92 Kinds of Incidental Earthwork** - Add the following bullets to the end of the bullet list:

- Earthwork required for driveways and road approaches. Earthwork for driveways and road approaches will be that which is outside the Neat Line limits shown on the typical sections.

## SECTION 00350 - GEOSYNTHETIC INSTALLATION

Comply with Section 00350 of the Standard Specifications modified as follows:

**00350.01 Definitions** - Replace the sentence that begins “**Embankment Geotextile** - For installation...” with the following sentence:

**Embankment Geotextile** - Embankment geotextile is used as a reinforcement within embankments and as a separation and reinforcement under embankments.

Replace the bullet that begins “**Nonwoven Geotextile** - A textile...” with the following bullet:

- **Nonwoven Geotextile** - A textile produced by bonding or interlocking of fibers by mechanical, heat or chemical means.

Replace the sentence that begins “**Riprap Geotextile** - For installation...” with the following sentence:

**Riprap Geotextile** - Riprap geotextile is used as a filter and separator behind or beneath riprap, Buttresses, inlays, shear keys and erosion control applications.

Replace the sentence that begins “**Subgrade Geotextile** - For installation...” with the following sentence:

**Subgrade Geotextile** - Subgrade geotextile is used as a separator and reinforcement on Subgrades and in other material separation applications.

## **Columbia Boulevard Sidewalk**

**00350.41(f)(5) Geotextile Placement** - Replace the paragraph that begins “Slit wrinkles or folds ...” with the following paragraph:

Slit wrinkles or folds exceeding 1 inch and lay flat. Shingle-lap not more than 6 inches in the direction of the paving. Broom or squeegee to smooth the geotextile and pneumatic roll to maximize geotextile contact with the Pavement surface. Additional hand-placed sealant material may be required at laps as determined.

### **SECTION 00390 - RIPRAP PROTECTION**

Comply with Section 00390 of the Standard Specifications modified as follows:

**00390.41 Riprap Geotextile** - Replace this subsection, except for the subsection number and title, with the following:

Install riprap geotextile according to the requirements of Section 00350 and as shown or directed.

**00390.43 Riprap Backing** - Delete this subsection.

**00390.80(b) Riprap Backing** - Delete this subsection.

**00390.90 Payment** - Delete Pay Item (b) from the Pay Item list.



## Columbia Boulevard Sidewalk

### SECTION 00430 - SUBSURFACE DRAINS

Comply with Section 00430 of the Standard Specifications.

### SECTION 00440 - COMMERCIAL GRADE CONCRETE

Comply with Section 00440 of the Standard Specifications modified as follows

**00440.12 Properties of Commercial Grade Concrete** - Replace the bullet that begins "**Slump** - 5 inches..." with the following bullets:

- **Slump** - 5 inches or less
  - For concrete sidewalks, ramps, driveways, or other hand finished surface applications, and when using a high range water reducing admixture, provide a slump of 8 inches or less as approved by the Engineer.

**00440.13 Field-Mixed Concrete** - Replace the subsection, except for subsection number and title, with the following:

CGC Work items listed in 00440.14(a) may be field-mixed conventionally, or by volumetric/mobile mixers conforming to ASTM C685. When approved, concrete sidewalks, concrete curb ramps, concrete driveways, and other flat concrete surfaces may be field-mixed using volumetric/mobile mixers conforming to ASTM C685, request approval prior to placement. For all other CGC applications, submit written request to the Engineer for approval to use volumetric/mobile mixers conforming to ASTM C685 at least 21 Days prior to placement.

Pre-packaged dry blended concrete from the QPL may be used for Work items listed in 00440.14(a).

**00440.40(b) Placing** - Add the following bullet to the end of the bullet list:

- When haul time or placement conditions warrant exceeding the time of discharge, submit a detailed breakdown of the estimated time needed from batching to discharge of a load along with the measures that will be taken to ensure slump, temperature and uniformity will be maintained. Submit in advance to establish a new time limit at the Engineer's discretion.

### SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications.

## Columbia Boulevard Sidewalk

### SECTION 00470 - MANHOLES, CATCH BASINS, AND INLETS

Comply with Section 00470 of the Standard Specifications modified as follows:

**00470.41(c) Grates, Frames, Covers and Fittings** - Replace this subsection, except for the subsection number and title, with the following:

Set metal frames for manholes on full non-shrink grout beds to prevent infiltration of surface water or groundwater between the frame and the concrete of the manhole section. If concrete is to be poured around the frames, coat the portion of the frame that will contact the concrete with hot asphalt before placing the concrete. Set frames, covers and grates true to the locations and grades established. Clean bearing surfaces and provide uniform contact. The use of a bolt adjustment system for frames from the QPL is allowed. Secure all fastenings.

**00470.42 Precast Concrete Catch Basins and Inlets** - Add the following sentence to the end of this subsection:

Grade adjustments using a bolt system from the QPL is allowed.

### SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES

Comply with Section 00490 of the Standard Specifications.

**Columbia Boulevard Sidewalk**

**SECTION 00596B - PREFABRICATED MODULAR RETAINING WALLS**

Comply with Section 00596B of the Standard Specifications modified as follows:

**00596B.01 Proprietary Prefabricated Modular Walls** - Add the following paragraph and bullet list to the end of this subsection:

Select one of the following preapproved Prefabricated Modular proprietary retaining wall systems for the wall as shown:

- Ultrablock™ Retaining Wall System, provided by Ultrablock, Inc., telephone: 800-377-3877.

**00596B.04(b) Design Calculations** - Add the following to the end of this subsection:

The following retaining wall design parameters have been established for this Project:

- Foundation soil unit density..... 125 kips/cu. ft.
- Foundation soil angle of internal friction ..... 34 degrees
- Foundation soil nominal (unfactored)  
bearing resistance ..... 2500 kips/sq. ft.
- Retained soil unit density ..... 125 kips/cu. ft.
- Retained soil angle of internal friction ..... 34 degrees
  
- Minimum base width for overall stability .....5 ft.
- Minimum base width for external stability ..... 5 ft.

**00596B.11(b) Modular Block Core and Drainage Backfill** - Replace this subsection, except for the subsection number and title, with the following:

Furnish 3/4" - No. 4 PCC Aggregate Material meeting the requirements of 02690.20(a) through (e).

**00596B.80 Measurement** - Add the following to the end of this subsection:

The estimated quantities of retaining walls are:

<b>Station Limits</b>	<b>Area</b>
Sta. "L" 13+23.41 to Sta. "L" 14+73.47 Rt.	1455 sq. ft.
Sta. "L" 16+49.21 to Sta. "L" 17+05.79 Rt.	420 sq. ft.

## Columbia Boulevard Sidewalk

### SECTION 00640 - AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications.

### SECTION 00730 - EMULSIFIED ASPHALT TACK COAT

Comply with Section 00730 of the Standard Specifications modified as follows:

**00730.11 Emulsified Asphalt** - In the paragraph that begins "Obtain samples according to AASHTO T 40..." replace the words "AASHTO T 40" with the words "AASHTO R 66".

**00730.90 Payment** - Replace this subsection, except for the subsection number and title, with the following:

No separate or additional payment will be made for Emulsified Asphalt tack coat. Approximately 0.5 Tons of Emulsified Asphalt in tack coat will be required on this Project.

### SECTION 00740 - COMMERCIAL ASPHALT CONCRETE PAVEMENT (CACP)

Comply with Section 00740 of the Standard Specifications.

### SECTION 00744 - ASPHALT CONCRETE PAVEMENT

Comply with Section 00744 of the Standard Specifications modified as follows:

**00744.11(a) Asphalt Cement** - Add the following to the end of this subsection:

Provide PG 64-22 grade asphalt cement for this Project.

**00744.44(b) Drop-Offs** - Replace the bullet that begins "Provide warning signs and markings..." with the following bullet:

- Provide warning signs and markings according to Sections 00221, 00222, 00224 and 00225 where abrupt or sloped edge drop-offs greater than 1 inch in height occur.

### SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications modified as follows:

## Columbia Boulevard Sidewalk

**00759.03 Required Submittals** - Replace this subsection, except for the subsection number and title, with the following:

Material ordered or Work done before the Engineer reviews and returns the documents shall be at the Contractor's risk.

Submit the following:

**(a) ADA Certification for Contractors** - For all supervisory personnel who directly supervise the curb ramp Work, submit the names, telephone numbers, and copies of the ODOT ADA Certification for Contractors at least 10 Calendar Days before the preplacement conference.

**(b) Curb Ramp Work Plan** - Do not begin any curb ramp Work before the plan for completing the Work has been approved. At least 21 Calendar Days before the curb ramp Work is scheduled to begin, submit a plan for accomplishing all phases of the curb ramp Work, including but not limited to the following (also see 00180.41):

- Surface preparation
- Compliance with Working Drawings and details submitted under 00759.03(c)
- Compliance with current Standard Drawings and Plans
- Waste handling and disposal

**(c) Working Drawings** - At least 10 Calendar Days before the construction of a grouping of one or more curb ramp location(s), not to exceed 32 ramps unless otherwise approved under 00180.41, submit unstamped Working Drawings according to 00150.35. Include field verification of each ramp site, and all dimensions, slopes and grades necessary to demonstrate compliance with the Standard Drawings and Plans. Marked up Supplemental Drawings, if field verified, may be submitted as Working Drawings. Notify the Engineer of any deficiencies or noncompliance with the Standard Drawings or Plans. The Engineer will provide additional or modified Plans as needed. Do not begin Work at a curb ramp until submittals for that curb ramp have been received, reviewed, and accepted in writing by the Engineer.

After submittal of the unstamped Working Drawings, according to 00150.35 a site visit may be requested by the Contractor or Engineer. The site visit will include a review of any field markings and discuss the submitted unstamped Working Drawings. The Engineer will provide additional or modified information, as needed.

Include the following in the Working Drawings:

- Verification of elevations, slopes, grades and dimensions necessary to demonstrate compliance with the Standard Drawings and Supplemental Drawings,
- Verification of potential utility conflicts or other street furnishings that may require relocation or adjustment.
- Identification of infeasibilities or constructability issues with the Standard Drawings and Supplemental drawings.

## Columbia Boulevard Sidewalk

**(d) Corrective Action Plan** - Unless otherwise approved, notify the Engineer before performing corrective action. Include TPAR necessary to complete corrective action work.

At least 21 Calendar Days before concrete Structures Work is scheduled to begin, submit a corrective action plan. The corrective action plan shall address procedures to correct deficient Structures through minor corrective action or replacement according to 00759.55(a), and include:

- List of minor corrective actions that will be used to correct deficiencies, according to 00759.50 and 00759.55.
- Procedures for performing corrective action.
- Proposed concrete grinding Equipment and method of grinding.
- Proposed concrete repair Material used for resurfacing ground concrete surfaces according to Section 02015.
- Construction activities, Equipment and staging necessary to complete corrective action Work.

The Engineer will review the corrective action plan(s) and provide a response to the Contractor within 5 Days after receiving the plan. Do not begin concrete Structure Work until the corrective action plan is approved by the Engineer.

**00759.04 Preplacement Conference** - Replace this subsection, except for the subsection number and title, with the following:

Before beginning any curb ramp Work, meet with the Contractor's ODOT ADA Certified supervisory personnel and any quality control personnel if applicable, any curb ramp Subcontractors' supervisory personnel, and the Engineer at a mutually agreed upon time.

If the Contractor's personnel change, or if the Contractor proposes a significant revision to the plan for accomplishing the curb ramp Work, the Engineer may require additional preplacement conferences. If the Contractor's schedule of work identifies multiple groups of curb ramp construction, as allowed by 00180.41, additional preplacement conferences may be required for each ramp group, at a mutually agreed upon time before Work begins.

All supervisory personnel who have an active ODOT ADA Certification for Contractors and directly supervise the curb ramp Work are required to attend the preplacement conference.

Add the following subsection:

**00759.23 Concrete Resurfacing Equipment** - Furnish power-operated scarifying Equipment capable of uniformly removing and preparing the existing surface to depths required. For concrete grinding operations, furnish 12 segment grinders, fine-toothed scarifying Equipment, or other approved grinding Equipment.

**00759.31 Qualifications** - Add the following sentence to the end of the paragraph:

Provide onsite supervisory personnel that are ODOT ADA Certified during construction of the curb ramps.

## Columbia Boulevard Sidewalk

**00759.46 Concrete** - Replace this subsection, except for the subsection number and title, with the following:

Construct the Structures between suitable forms or by the extrusion method. Place concrete according to the Plans, Section 00440, and this Section.

**00759.50(a) General** - Add the following paragraphs to the end of this subsection:

Install truncated domes as shown. Place according to the manufacturer's recommendation. Install abutting truncated dome panels with no more than 1/4 inch spacing. Install anchors along cut edges of truncated dome panels according to manufacturer's recommendations.

In addition, finish concrete surfaces of Structures to be within the established Slopes and dimensions allowed by the Standard Drawings and Plans. Repair or remove and replace Structures not meeting the Standard Drawings and Plans at no additional cost to the Agency.

**00759.50(c) Driveways, Walks, and Surfacing** - Replace this subsection, except for the subsection number and title, with the following:

Prevent segregation of the concrete during placement. Strike-off the concrete to the grade shown, and float the surface smooth. After the water sheen disappears, edge the joints and remove edging tool marks prior to final finishing. Lightly cross-broom the surface to a uniform texture. Do not trowel joints or edges after brooming surface.

The 24 inch smart level will be used to measure driveway and sidewalk cross slopes on the Pedestrian Access Route.

**00759.50(d) Curb Ramps** - Replace this subsection, except for the subsection number and title, with the following:

Prevent segregation of the concrete during placement. Strike-off the concrete to the grade shown and float the surface smooth. After the water sheen disappears, edge the joints and remove edging tool marks prior to final finishing. Lightly cross-broom the surface to a uniform texture. Do not trowel joints or edges after brooming surface.

The 6 inch smart level will be used to measure curb running slope. The 6 inch smart level will be used to measure slopes on portions of the curb ramp, gutter pan, or adjacent surfaces that cannot accommodate a 24 inch smart level. All other curb ramp locations will use a 24 inch smart level to measure slopes.

Add the following subsection:

**00759.55 Correction of Deficient Structures** - Unless otherwise approved, notify the Engineer before performing corrective action. Correct deficiencies at no additional cost to the Agency. Perform corrective actions as directed, according to the approved corrective action plan, and according to the following:

**(a) Minor Corrective Action** - Submit Equipment and procedure for minor corrective action to the Engineer for approval. Minor corrective action can be performed to correct a deficiency up to 1 square foot per panel. Corrective action exceeding 1 square foot per

## Columbia Boulevard Sidewalk

panel requires removal and replacement according to 00150.25. Perform minor corrective action according to the following:

**(1) Concrete Grinding** - Grinding to correct high area deficiencies is limited to 3/16 inch. Use equipment meeting the requirements of 00759.23. Resurface all ground concrete surfaces according to 00759.55(a)(2).

**(2) Concrete Resurfacing** - Resurfacing to correct low area deficiencies is limited to 3/16 inch depth. Existing concrete is to be at least 7 Days old prior to resurfacing. Resurface repair areas according to the following:

a. **Keyway** - Sawcut a keyway at the boundaries of repair areas that are not already defined by panel control joints. Sawcut shall be 1/8 inch wide and 1/4 inch deeper than the edge of the repair area. Bevel inside edge of keyway at a 45 degree angle.

b. **Surface Preparation** - Prepare limits of repair area by grinding using Equipment from 00759.23. After grinding, sandblast the surface of the repair area. Clean the surface using a low pressure washer, less than 5,000 psi.

c. **Presoak** - Presoak the repair area for a minimum of 30 minutes to saturated surface dry. Prior to resurfacing, ensure there is no ponding water on the surface.

d. **Resurface** - Provide concrete resurfacer from the QPL according to 02015.60; refer to QPL remarks to select an appropriate material based on allowable installation depths. Furnish resurfacer in a color that closely matches the color of surrounding concrete surfaces. Mask boundaries of the repair area. Use hand tools to work resurfacer into keyways and match existing grade at boundaries. Apply a light broom-finish to achieve non-slip surface.

e. **Curing and Return to Traffic** - Wet cure for a minimum of 1 hour or per the manufacturer's recommendation, whichever is more restrictive. Follow manufacturer's recommendation for return to traffic time.

**(3) ACP Grinding** - Taper grind to match existing Pavement with a minimum grinding width of 1 foot for each 1/4 inch of ACP removed.

**(b) Acceptance of Structures** - Once the corrective work or replacement has been completed, acceptance will be based on the Engineer's inspection and approval of the Structure.

### 00759.90 Payment -

Replace the paragraph that begins "Item (k) includes the additional Work required ..." with the following paragraph:

Item (k) includes the additional Work required to construct a curb ramp or replace an existing curb ramp. Payment for the area of the curb ramp will be made under the concrete walks Pay Item.

Replace the paragraph that begins "No separate or additional payment will be..." with the following paragraph and bullet list:



## **Columbia Boulevard Sidewalk**

No separate or additional payment will be made for:

- curb ramp Working Drawings
- curb ramp plan
- preplacement conference
- concrete form verification
- any necessary repair or removal and replacement of Structures
- providing supervisory personnel who have an active ODOT ADA Certification for Contractors to directly supervise the curb ramp Work
- developing corrective action plans

## Columbia Boulevard Sidewalk

### **SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS**

Comply with Section 00850 of the Standard Specifications modified as follows:

**00850.30 Manufacturer's Representative** - Replace this subsection, except for the subsection number and title, with the following:

For Sections referencing 00850.30, the services of a manufacturer's representative are not required. Place pavement markings only when the pavement is ready for the pavement marking material according to the manufacturer's installation instructions.

### **SECTION 00860 - LONGITUDINAL PAVEMENT MARKINGS - PAINT**

Comply with Section 00860 of the Standard Specifications.

### **SECTION 00867 - TRANSVERSE PAVEMENT MARKINGS - LEGENDS AND BARS**

Comply with Section 00867 of the Standard Specifications.

## Columbia Boulevard Sidewalk

### SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS

Comply with Section 00905 of the Standard Specifications.

### SECTION 00920 - SIGN SUPPORT FOOTINGS

Comply with Section 00920 of the Standard Specifications modified as follows:

**00920.80 Measurement** - Add the following to the end of this subsection:

The estimated quantities of concrete for minor sign supports are:

<b>Support Type</b>	<b>Quantity</b>
Perforated Steel Square Tube Anchor Sign Supports	1 cu. yd.

### SECTION 00930 - METAL SIGN SUPPORTS

Comply with Section 00930 of the Standard Specifications modified as follows:

**00930.80 Measurement** - Add the following to the end of this subsection:

The estimated quantities of structural steel are as follows:

<b>Item</b>	<b>Estimated Quantity (Pound)</b>
<b>Minor Sign Supports</b>	
Perforated Steel Square Tube Anchor Sign Supports	25

### SECTION 00940 - SIGNS

Comply with Section 00940 of the Standard Specifications.

### SECTION 00960 - COMMON PROVISIONS FOR ELECTRICAL SYSTEMS

Comply with Section 00960 of the Standard Specifications modified as follows:

## Columbia Boulevard Sidewalk

**00960.30 Licensed Electricians** - Replace the paragraph that begins "According to the Oregon Administrative Rule ..." with the following paragraph:

According to the Oregon Administrative Rule 918-282-0120(1), no person or entity shall allow any individual to perform electrical work for which the individual is not properly registered or licensed. Every person who installs electrical systems on the Project shall submit a copy of their electrical license or apprentice registration to the Engineer prior to performing any Work. They must be licensed as an S or a J under Oregon Administrative Rule 918-282.

### SECTION 00962 - METAL ILLUMINATION AND TRAFFIC SIGNAL SUPPORTS

Comply with Section 00962 of the Standard Specifications modified as follows:

**00962.46(j)(2)(a) Anchor Rods for Signal Supports and Fixed Base Luminaire Supports** - Replace the paragraph that begins "Mark the position of each turned element..." with the following paragraph:

Mark position of each anchor rod and an outside ridge of each first nut above the base plate with a felt tip pen or similar marker to verify subsequent nut rotation. Rotate all first nuts above the base plate past snug tight an additional amount shown in 00962.46(j)(2)(d) in two passes. "Cheater" bars or slugging wrenches are allowed if required for large diameter anchor rods. After final tightening of the first nut above the base plate, tighten the second nut to a snug tight condition for assemblies with two nuts above the base plate.

### SECTION 00990 - TRAFFIC SIGNALS

Comply with Section 00990 of the Standard Specifications modified as follows:

**00990.90 Payment** - Delete Pay Item (c) from the pay item list.

Delete the paragraph that begins "Item (c) includes furnishing and installing..."

Replace the paragraph that begins "In Items (a), (b), (c), (d), (f) ..." with the following paragraph:

In Items (a), (b), (d), (f) and (g), the intersection location will be inserted in the blank.

Replace the paragraph that begins "Item (b) includes furnishing and replacing..." with the following paragraph:

Item (b) includes furnishing and replacing or installing items for an existing traffic signal installation and the detection system.

Replace the paragraph that begins "Mast arm pole and strain pole foundations ..." with the following paragraph:

## **Columbia Boulevard Sidewalk**

Drilled shaft foundations for traffic signal 15 foot through 55 foot mast arm supports will be paid for according to 00963.90. Drilled shaft foundations for traffic signal 60 foot through 75 foot mast arm supports will be paid for according to 00921.90.

## Columbia Boulevard Sidewalk

### SECTION 01030 - SEEDING

Comply with Section 01030 of the Standard Specifications modified as follows:

**01030.13(c) Pure Live Seed** - Replace this subsection, except subsection number and title, with the following subsection:

Use the PLS specified rate listed in 01030.13(f) for determining PLS application rates. Ensure the PLS application rate meets the PLS specified rate. Apply pre blended seed mixes, with multiple species, at a PLS application rate ensuring all species meet or exceed the PLS specified rate for each species in the seed mix.

PLS application rate for an individual seed species is determined as follows:

- PLS specified rate is listed in 01030.13(f)
- PLS factor is obtained by multiplying the seed label germination percentage times the seed label purity percentage. Use the purity and germination percentages from the label on actual bags of seed to be used on the Project.
- PLS application rate is obtained by dividing the PLS specified rate by the PLS factor.

For a seed mix, make this calculation for each seed species in the mix and then adjust as follows:

- Using the seed tag, determine the weight of each seed species in the bag and use this information to find the percentage, by weight, of each seed species is in 1 pound for the pre-blended mix.
- Divide the percentage by weight of each seed species, per pound, for the pre-blended mix, by the PLS application rate for that specific seed species.

Determine the highest application rate in the seed mix and apply the seed mix at that application rate.

**01030.13(f) Types of Seed Mixes** - Add the following to the end of this subsection:

Provide the following seed mix formulas:

- **Permanent Seeding:**

<b>Botanical Name (Common Name)</b>	<b>PLS ÷ (% Purity (lb/acre) (minimum)</b>	<b>x % Germination (minimum)</b>	<b>= Amount (lb/acre)</b>
Lolium perenne var Dasher 3 (Dasher 3 Perennial Ryegrass) 105	_____	_____	_____
Lolium perenne var Dasher 3 (Cutter II Perennial Ryegrass) 105	_____	_____	_____

## Columbia Boulevard Sidewalk

Festuca rubra var. Garnet  
(Garnet Creeping Red Fescue) 70 \_\_\_\_\_

Festuca rubra spp. Fallax var. Windward  
(Windward Chewings Fescue) 70 \_\_\_\_\_

\* Oregon Certified Seed

**01030.13(g) Availability** - Add the following sentence to the end of this subsection:

Submit the seed and seed mixes to be used on the project according to 00150.37.

**01030.15 Mulch** - Add the following paragraphs and bullets to the end of this subsection:

Furnish mulch for seeding according to the following:

**(a) Hydromulch from Cellulose, Wood, or Straw Fiber** - Cellulose fiber produced from virgin wood, straw, or paper fiber product from the QPL. Furnish wood or straw mulch processed so the fibers remain uniformly suspended under agitation in water and the fibers have moisture-absorption and percolation properties. Ship hydromulch in packages of uniform

**(b) Straw** – Straw mulch for non-hydroseeding applications from bentgrass, bluegrass, fescue or ryegrass singly or in combination. Cereal grain straw from barley, oat or wheat may be allowed upon approval of the Agency. Provide straw that is not moldy, caked, decayed or of otherwise low quality. Submit certification from the Supplier that the straw is free of noxious weed seeds or plant parts. Acceptable documentation is any one of the following:

- The straw source is an "Oregon Certified Seed" field.
- The straw is certified by a recognized program accepted by the Oregon Department of Agriculture as being weed free. • Seed lab test results of seed harvested from the straw meet minimum Oregon Certified Seed quality for weed seed content.

**(c) Compost** - Commercially manufactured medium compost material meeting the requirements of Section 03020, unless otherwise approved.

Furnish straw mulch for all temporary roadside erosion control seeding, except hydromulch may be used under the following conditions:

- Spring planting west of the Cascades between March 1 and May 15.
- Slopes are steeper than 1V to 1.5H and longer than 16 feet.
- Residential or commercial sites with low erosion potential such as sidewalk, median, or parking lot planter strips.

Projects that have variable slopes may include straw mulch and hydromulch when approved.

## Columbia Boulevard Sidewalk

**01030.40 General** - Add the following sentence after the sentence beginning "Notify the Agency...":

Notify the Agency of the acreage to be seeded at least 7 Days before seeding begins.

### SECTION 01040 - PLANTING

Comply with Section 01040 of the Standard Specifications modified as follows:

**01040.03 General** - Ensure that Work meets the following requirements:

**(a) Existing Vegetation** - Do not disturb existing desirable vegetation that is to remain or is designated for protection, unless approved by the Agency prior to construction.

**(b) Pesticide Applicators License and Chemical Registration** - Furnish evidence to the Agency that each applicator is licensed for the specific class of chemical being applied. Also, furnish evidence that any chemical is registered for the proposed use by the Oregon Department of Agriculture according to ORS Chapters 452, 561, 570, and 634.

**(c) Weather Conditions** - Planting Work will not be allowed during the following conditions, unless otherwise approved:

- **Cold Weather** - When air or ground temperatures are expected to be below 32 °F.
- **Hot Weather** - When air or ground temperatures are expected to be above 88 °F.
- **Wet Weather** - When the ground reaches saturation, except as approved when planting wetland plants. • **Windy Weather** - When wind velocity exceeds 25 mph.

**(d) Work Performed During Unacceptable Conditions** - If any Work occurs during unacceptable weather conditions, the Contractor may be required to provide the following services at no additional cost to the Agency:

**(1) Expert Consultation** - Consultation with a certified Arborist (for trees) or other expert as approved (for other plants) to determine what plant care measures are required to maintain the plants installed during the unacceptable weather conditions in a healthy and vigorous condition.

**(2) Replacement** - Replacement of all Work performed during unacceptable weather conditions.

**(3) Watering and Maintenance** - Watering and maintenance of all plant materials installed during the unacceptable weather conditions and responsibility for all extra costs incurred.

**01040.20(e) Wood Chip Mulch** - Add the following to the end of this subsection:

Provide wood chip mulch in the following size range:



## Columbia Boulevard Sidewalk

- 1-inch minimum to 3-inches maximum
- No 'bark dust' shall be accepted

**01040.23(e) Root barrier** - Add the following to the end of this subsection:

Provide black, molded, modular panels manufactured with 50 percent recycled polyethylene plastic with ultraviolet inhibitors, 3/8 inch thick, with vertical root deflecting ribs protruding out from panel, and each panel 24 inches high.

**01040.48 Planting Area Preparation** - Replace the sentence that begins "Identify, kill, and remove..." with the following sentence:

Identify, kill, and remove Weeds according to 01030.62(b)(3).

**01040.71 General Planting** - Add the following to the end of this subsection:

**General Planting** - Plant trees, shrubs, groundcover, vines, and bulbs using the following practices:

- Inspect plants after arrival at the Project and before planting. Do not install plant materials until each required inspection by the Agency is complete. Replace plants not meeting the requirements of the Specifications with plants as specified or otherwise directed, at no additional cost to the Agency. Initial approval of plant materials for planting by the Agency will not constitute final acceptance.
- Protect all plants during shipping, handling, storage, and planting from windburn or exposure to harmful weather conditions, and root or root ball drying.
- When excavating planting holes, stockpile excavated Topsoil separately from subsoil. Do not include alkali Soil, subsoil, gravel, debris or rocks in the Topsoil. Dispose of any substandard excavated materials in a manner not harmful to plants or planting Work. Scarify planting pit sides and bottoms to eliminate glazed surfaces. Dispose of excess Soil in a manner that is not harmful to plants or planting Work.
- Do not plant in standing water unless approved by the Agency. If standing water is present within a plant pit, notify the Agency prior to planting to determine what corrective measures are required.
- Excavate tree plant pits a minimum of twice the diameter of the plant root ball or 2 feet larger than the root ball, whichever is greater. Dig shrub plant pits a minimum of 1 foot larger than the root ball diameter. Dig pits to the same depth as the root ball, root mass, or container. Spread root systems of bare root plants and container stock as necessary to keep plants from being root bound.
- Cleanly cut off broken or frayed roots of bare-root plants before planting. Spread out roots in their natural position within the pit and trim only damaged roots as approved by the Agency. Remove all labels, tags and attachment materials from the plants before final inspection.
- Set upright growing plants straight and plumb, and prostrate growing plants level

## Columbia Boulevard Sidewalk

to the ground surface. Set all plants so that, after settlement, they are at the same level as when growing in the nursery or container.

- Place the backfill then add Soil amendments, Soil bio-amendments, and fertilizers as recommended by the Soil amendment and bio-amendment reports. Moisten backfill completely after placing to eliminate air pockets and minimize settlement of the backfill. Form a shallow (2 inch high) water-holding saucer in the Soil around the plant unless directed otherwise.
- Balled and burlapped plants may be placed with the root ball wrapping removed or, if all materials are untreated and fully biodegradable, left in place. If the root ball wrapping (burlap) is left around the plant, completely remove all tie wire, string or twine and fold down the burlap from the top half of the root ball.
- Perform any required pruning using good horticultural practice appropriate to the type of plant. Prune to remove all dead, damaged, crossed or rubbing twigs and branches, and to compensate for loss of roots during planting. Make cuts close to the parent stem, but not flush or through the bark "knob" at the branch joint. Do not prune terminal ends of tree leaders without approval of the Agency.
- Apply bark or wood chip mulch of the type and depth as shown. Correct contamination of new mulch due to the Contractor's operations at no additional cost to the Agency. Feather mulch into plant material trunks, stems, canes or root collars, and leave 1 inch below the top of junction and valve boxes, curbs and Pavement edges. Any mulch placed to a thickness greater than specified will be at no additional cost to the Agency.
- Do not disturb protected existing vegetation unless approved by the Agency prior to construction.
- Dig pits for street trees that have hard surfaces around them so the crown of the root ball is 3 inches below the finished surface of the surrounding grade.
- Water deciduous trees that are 1 1/2 inches or larger in diameter, conifer trees that are over 4 feet in height, and all shrubs at a minimum frequency identified in the Special Provisions (Section 0140.50 of the Standard Specifications).

The following watering frequencies are required:

- Deciduous trees that are 1 1/2 inch and larger, water at a frequency of 5 gallons per week between May 15 and Sept. 30..
- Do not allow root zone to dry out during establishment period. Monitor newly planted trees' water needs closely if outside temperatures rise above 85 degrees Fahrenheit.

## SECTION 01050 - FENCES

Comply with Section 01050 of the Standard Specifications.

## Columbia Boulevard Sidewalk

### SECTION 01140 - POTABLE WATER PIPE AND FITTINGS

Comply with Section 01140 of the Standard Specifications modified as follows:

**01140.90 Payment** - In the paragraph that begins “No separate or additional payment will be...”, add the following bullet to the bullet list:

- pipe reconnections

### SECTION 01150 - POTABLE WATER VALVES

Comply with Section 01150 of the Standard Specifications modified as follows:

**01150.10 Materials** - Delete “Ball Valves” from the list of materials.

**01150.90 Payment** - Replace the paragraph that begins “No separate or additional...” with the following paragraph:

No separate or additional payment will be made for:

- earthwork not covered under other Pay Items
- jointing
- blocking of valves
- protective coatings
- valve boxes
- valve box extensions
- valve operator extensions
- valve reconnections
- hydrostatic testing

### SECTION 01160 - HYDRANTS AND APPURTENANCES

Comply with Section 01160 of the Standard Specifications.

### SECTION 01170 - POTABLE WATER SERVICE CONNECTIONS, 2 INCH AND SMALLER

Comply with Section 01170 of the Standard Specifications.

## Columbia Boulevard Sidewalk

### SECTION 02001 - CONCRETE

Comply with Section 02001 of the Standard Specifications modified as follows:

#### **02001.02 Abbreviations and Definitions:**

Add the following definition:

**Lightweight Concrete** - Structural concrete having a specified density using lightweight Aggregates.

Replace the sentence that begins "**Pozzolans** - Fly ash, silica fume..." with the following sentence:

**Pozzolans** - Fly ash, natural Pozzolans, silica fume, and high-reactivity Pozzolans.

Replace the sentence that begins "**Supplementary Cementitious Materials** - Fly ash, silica fume..." with the following sentence:

**Supplementary Cementitious Materials** - Pozzolans and ground granulated blast furnace slag.

**02001.15(a) Current Mix Designs** - Replace this subsection, except for the subsection number and title, with the following:

Mix designs that meet the requirements for the specified class of concrete and are currently being used or have been used within the past 24 months on any project, public or private, may be submitted for review. Provide individual test results that comprise the average if more than one data point exists. For paving designs the flexural strength testing must be from within the last two years. For HPC designs the length change and permeability tests must be from within the last two years.

**02001.15(b)(1) Trial Batch Plastic Properties** - Replace this subsection, except for the subsection number and title, with the following:

For each trial batch, test according to the following test methods:

<b>Test</b>	<b>Test Method</b>
Sampling Fresh Concrete	WAQTC TM 2
Concrete Temperature	AASHTO T 309
Slump	AASHTO T 119 <sup>1</sup>
Air Content	AASHTO T 152 or T 196 <sup>2</sup>
Density	AASHTO T 121
Yield	AASHTO T 121
Molding Concrete Specimens	AASHTO T 23 or R 39 <sup>3</sup>
Water Cement Ratio	<sup>4</sup>

## Columbia Boulevard Sidewalk

- 1 For drilled shaft concrete test the slump retention by subsequent tests at half-hour intervals for the duration of the estimated drilled shaft placement, including temporary casing extraction. Report in table or graphical format.
- 2 Use AASHTO T 196 for lightweight concrete.
- 3 Cast cylinders in single use plastic molds.
- 4 Use ODOT's Field Operating Procedure for AASHTO T 121 in the MFTP.

**02001.20(a) Strength** - Replace Table 2001-1 with the following Table 2001-1:

**Table 02001-1**

<b>Concrete Strength and Water/Cementitious Material (w/cm) Ratio</b>		
<b>Type of Concrete</b>	<b>Strength <math>f'_c</math> (psi)</b>	<b>Maximum w/cm Ratio</b>
Structural	3300	0.50
	3300 (Seal)	0.45
	4000	0.48
	4000 (Drilled Shaft)	
	HPC4500	0.40
	HPC(IC)4500	
	5000 +	
Paving	4000	0.44
<b>PPCM's</b> (with cast-in-place decks and no entrained air)	5000	0.48
	5500	0.44
	6000 +	0.42

**02001.20(a)(1) Required Average Compressive Strength ( $f'_{cr}$ )** - Replace this subsection, except for the subsection number and title, with the following:

Except for PPCM designs, provide the required average compressive strength according to ACI 301 for mix design approval.

**02001.30(e)(1) HPC Coarse Aggregate Content** - Delete the paragraph that begins "Two or more Aggregate products or sources..."

## SECTION 02030 – SUPPLEMENTARY CEMENTITIOUS MATERIALS

Comply with Section 02030, of the Standard Specifications modified as follows:

## Columbia Boulevard Sidewalk

**02030.00 Scope** - Replace this subsection, except for the subsection number and title, with the following:

This Section includes the requirements for fly ash, natural pozzolans, silica fume, ground granulated blast furnace slag and high reactivity pozzolans used in portland cement concrete.

**02030.10 Fly Ash** - Replace this subsection, except for the subsection number and title, with the following:

Furnish Class C and Class F fly ash from the QPL and conforming to AASHTO M 295 (ASTM C618).

Add the following subsection:

**02030.15 Natural Pozzolans** - Furnish Class N natural pozzolans from the QPL and conforming to AASHTO M 295 (ASTM C618).

**02030.50 Metakaolin** - Replace this subsection with the following:

**02030.50 High Reactivity Pozzolans** - Furnish high-reactivity pozzolans from the QPL and conforming to AASHTO M 321.

### SECTION 02050 - CURING MATERIALS

Comply with Section 02050 of the Standard Specifications modified as follows:

**02050.10 Liquid Compounds** - Replace the paragraph that begins "Furnish liquid membrane-forming curing..." with the following paragraph:

Furnish liquid membrane-forming curing compounds from the QPL and meeting the requirements of ASTM C309. Before use, submit a one quart sample from each lot for testing. Samples will be tested according to ODOT TM 721. Samples are not required for curing compounds used on Commercial Grade Concrete.

### SECTION 02415 - PLASTIC PIPE

Comply with Section 02415 of the Standard Specifications modified as follows:

**02415.40 Polypropylene Pipe** - Replace the sentence that begins "Dual wall polypropylene pipe ..." with the following sentence:

Dual wall polypropylene pipe and fittings ..... ASTM F2764

### SECTION 02560 - FASTENERS

Comply with Section 02560 of the Standard Specifications modified as follows:

## Columbia Boulevard Sidewalk

**02560.30(b) High Strength Tie Rods, Anchor Bolts and Anchor Rods** - Add the following paragraph to the end of this subsection:

End stamp all ASTM F1554, Grade 105 according to ASTM F1554 Supplementary Requirements S2 and S3. If the end of the bolt is to be embedded in concrete, the projecting end from the concrete shall be the marked end.

### SECTION 02690 - PCC AGGREGATES

Comply with Section 02690 of the Standard Specifications modified as follows:

**02690.20(e) Grading and Separation by Sizes for Prestressed Concrete** - Replace this subsection with the following subsection:

**02690.20(e) Grading and Separation by Sizes** - Sampling shall be according to AASHTO R 90. Sieve analysis shall be according to AASHTO T 27 and AASHTO T 11. Provide aggregates meeting the gradation requirements of Table 02690-1 for structural concrete. Provide a CAgT to perform sampling and testing when required.

**Table 02690-1**  
Gradation of Coarse Aggregates  
Percent passing (by Weight)

Size Number	Nominal Size Square Openings	Sieve Size											
		(2½ in.)	(2 in.)	(1½ in.)	(1 in.)	(¾ in.)	(½ in.)	(¾ in.)	(No. 4)	(No. 8)	(No. 16)	(No. 50)	(No. 200)
3	(2 to 1 in.)	100	90 to 100	35 to 70	0 to 15	—	0 to 5	—	—	—	—	—	**
357*	(2 in. to No. 4)	100	95 to 100	—	35 to 70	—	10 to 30	—	0 to 5	—	—	—	**
4	(1½ to ¾ in.)	—	100	90 to 100	20 to 55	0 to 15	—	0 to 5	—	—	—	—	**
467*	(1½ to No. 4)	—	100	95 to 100	—	35 to 70	—	10 to 30	0 to 5	—	—	—	**
5	(1 to ½ in.)	—	—	100	90 to 100	20 to 55	0 to 10	0 to 5	—	—	—	—	**
56	(1 to ¾ in.)	—	—	100	90 to 100	40 to 85	10 to 40	0 to 15	0 to 5	—	—	—	**
57	(1 to No. 4)	—	—	100	95 to 100	—	25 to 60	—	0 to 10	0 to 5	—	—	**
6	(¾ to ½ in.)	—	—	—	100	90 to 100	20 to 55	0 to 15	0 to 5	—	—	—	**
67	(¾ to No. 4)	—	—	—	100	90 to 100	—	20 to 55	0 to 10	0 to 5	—	—	**
68	(¾ to No. 8)	—	—	—	100	90 to 100	—	30 to 65	5 to 25	0 to 10	0 to 5	—	**
7	(½ to No. 4)	—	—	—	—	100	90 to 100	40 to 70	0 to 15	0 to 5	—	—	**
78	(½ to No. 8)	—	—	—	—	100	90 to 100	40 to 75	5 to 25	0 to 10	0 to 5	—	**
8	(¾ to No. 8)	—	—	—	—	—	100	85 to 100	10 to 30	0 to 10	0 to 5	—	**
89	(¾ to No. 16)	—	—	—	—	—	100	90 to 100	20 to 55	5 to 30	0 to 10	0 to 5	**

\* Use two or more separated sizes which when combined meet these gradation limits.

\*\* See 02690.20(a). Do Not evaluate material passing the No. 200 sieve according to 00165.40.

**02690.20(f) Grading and Separation by Sizes for Other Concrete** - Delete this subsection.

**02690.30(g) Grading** - In the paragraph that begins “Sampling shall be according to...”, replace the words “AASHTO T 2” with the words “AASHTO R 90”.

## Columbia Boulevard Sidewalk

### SECTION 02910 - SIGN MATERIALS

Comply with Section 02910 of the Standard Specifications modified as follows:

**02910.33(a) General** - Replace this subsection, except for the subsection number and title, with the following:

Permanent legends consist of white retroreflective screened, red retroreflective screened, black screened or cut-out white retroreflective sheeting. The letters and numerals of all permanent legends shall conform to the design of the FHWA Standard Rounded Capital Letter Alphabets.

Add following subsection:

**02910.50 Digitally Printed Signs, Temporary** - Temporary traffic control signs may use digitally printed signs from an integrated engineered match component system on the QPL and applied to furnished substrate according to 00222.10(b).



Part 6

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# **Supplementary Information**



## BIDDER'S CHECKLIST

- Are you on the official project **Plan Holder's List**? Contact the Administration Department at (503) 397-6272.
- Have you **signed your Bid** and included all the required bidder information? See page 14 of the Bid Forms.
- Have you acknowledged all issued addendums on page 13, Item No. 26 of the Bid Forms?
- Has the Bidder information on page 14 of the Bid Forms been completed?
- Are the prices on the Bid Schedule on pages 10 - 13 of the Bid Forms been correctly computed and stated in written form?
- Is the amount of the Bid Bond written in Item No. 12 on page 12 of the Bid Forms?
- Did you include the required 10% Bid Bond (Bond Surety) on page 17 of the Bid Forms?
- Have you included the First-Tier Subcontractor disclosure form on page 15 of the Bid Forms? Please note that this form must be submitted even if you do not have a first-tier subcontractor.
- Have you read and familiarized yourself with the Instruction to Bidders, Exhibit I of the Public Improvement Contract?

**This checklist is provided as guidance and assistance to bidders to avoid technical mistakes resulting in rejection of a bid. It is not intended to be all-inclusive and does not alleviate the Bidder from the responsibility of becoming familiar with all aspects of the Bid Documents and the proper completion and submission of the bid. Bidders should not rely solely on this checklist. It is the Bidder's responsibility to review all contract bid documents, including but not limited to all contract specifications, special provisions, supplemental information, addenda, notice to contractors, etc.**

**This Check List is For Reference Only. It is Not Part of the Bid Forms and Does Not Have To Be Submitted With Your Bid.**

**PROJECT DOCUMENTATION CHECKLIST**

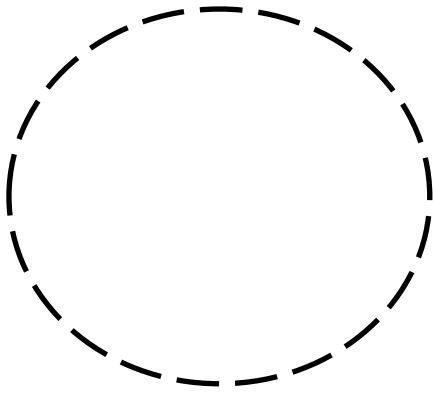
Project COLUMBIA BOULEVARD SIDEWALKS  
 Project No R-679A



City of St. Helens  
 Department of Public Works – Engineering Division  
 265 Strand Street, St. Helens, OR 97051  
 Phone: 503.397.6272 Fax: 503.366.3782

Documentation	Reference	When Required
<b>BID OPENING</b>		
Firm Offer (Bid) and Schedule of Prices and Bid Schedule	Bid Forms, pg. 9 -17	At bid opening
Acknowledged Addenda	Bid Forms, pg. 13	At bid opening
First-Tier Subcontractor Disclosure Form	Bid Forms, pg. 15	Not later than 2 hours after bid opening
Bid Bond (Surety Bond)	Bid Forms, Pg. 17	At bid opening
<b>PROJECT AWARD</b>		
Contractor Data, Certification, and Signature	Public Improvement Contract , pg 20	Within 10 business days of project award
St Helens business license	Public Improvement Contract , pg 20	Within 10 business days of project award
Proof of filing \$30,000 Public Works Bond with BOLI	Public Improvement Contract, Exhibit J	Within 10 business days of project award
Certificates of Insurance per Contract Requirements	Public Improvement Contract, Exhibit B	Within 10 business days of project award
Certification Statement for Corporation or Independent Contractor	Public Improvement Contract, Exhibit C	Within 10 business days of project award
Payment Bond in amount equal to 100% of awarded contract	Public Improvement Contract, Exhibit D	Within 10 business days of project award
Performance Bond in amount equal to 100% of awarded contract	Public Improvement Contract, Exhibit D	Within 10 business days of project award
<b>PRIOR TO START OF CONSTRUCTION</b>		
Construction Schedule	Specification 01310	10 Days after Notice to Proceed
Designation of Superintendent / Competent Person Designation with 24-hour contact information	Specification 01210	Submit at Pre-Construction Meeting
Designation of Emergency Maintenance Supervisor with 24-hour contact information	Specification 01210	Submit at Pre-Construction Meeting
Documentation to be sent to residents in project area	Specification 01300	Anytime prior to start of construction
Project Safety Plan	Specification 02100	Anytime prior to start of construction
Pre-Construction jobsite conditions (digital photo or video)	Specification 01300	Anytime prior to start of construction
Location of dump site	Specification 01500	Anytime prior to start of construction
24-Hours - 7 Day Contact Information (Contractor / Subcontractor)	Specification 01210	Anytime prior to start of construction
Product Data, including product literature, application, installation requirements, etc.	(Refer to Contract Documents)	Anytime prior to start of construction
Shop drawings, schedules, and drawings	(Refer to Contract Documents)	Anytime prior to start of construction
MSDS on all materials to be used on site	Specification 01500	Anytime prior to start of construction
Materials and equipment list	Specification 01500	Anytime prior to start of construction
Traffic Control Plan	Specification 02200	Anytime prior to start of construction
Other required submittals as stated elsewhere in Contract Documents	(Refer to Contract Documents)	Anytime prior to start of construction
<b>DURING CONSTRUCTION</b>		
Updated Construction Schedule, as required	Specification 01310, 01500	Whenever schedule falls behind by 10+ Days
Required Testing	(Refer to Contract Documents)	During construction, as required
<b>WEEKLY BASIS</b>		
Weekly certified payroll	Specification 01500	Submit Before or with Pay Requests
<b>MONTHLY BASIS</b>		
Pay Requests	Specification 01600	Submit Monthly for Engineering Review
<b>AT SUBSTANTIAL COMPLETION</b>		
Exhibit E - Certificate of Substantial Completion	Exhibit E	*
<b>PRIOR TO FINAL ACCEPTANCE</b>		
Maintain and submit redline drawings showing all changes	Specification 01320, 01700	Before Final Completion
Exhibit F - Certificate of Compliance submitted by Contractor	Exhibit F	After punchlist items are completed
Exhibit G - Release of Liens & Claims	Exhibit G	After punchlist items are completed
Exhibit H - Certificate of Final Completion issued by City	Exhibit H	After all documentation have been submitted & punchlist items are complete

*This project submittal list may be incomplete and may or may not list all submittals required on this project. This list shall be considered minimum and may be expanded during the course of the work at the direction of the Engineer. \*Work is considered substantially complete when, in accordance with the Contract Documents, the Owner can occupy or utilize the work for its intended use.*



<INSERT CONTRACTOR'S LOGO>

**CONSTRUCTION NOTICE FOR**  
**COLUMBIA**  
**BOULEVARD**  
**SIDEWALKS**  
**PROJECT NO. R-679A**

**We plan to be in or around your area on**

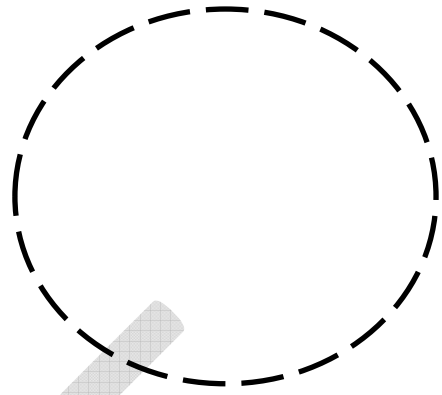
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**IF YOU HAVE ANY QUESTIONS OR CONCERNS  
PLEASE CALL OUR REPRESENTATIVE BELOW:**

**<CONTRACTOR REPRESENTATIVE>**

**<REPRESENTATIVE PHONE NUMBER>**

Thank you for your cooperation!



<INSERT CONTRACTOR'S LOGO>

**CONSTRUCTION NOTICE FOR**  
**COLUMBIA**  
**BOULEVARD**  
**SIDEWALKS**  
**PROJECT NO. R-679A**

**We plan to be in or around your area on**

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**IF YOU HAVE ANY QUESTIONS OR CONCERNS  
PLEASE CALL OUR REPRESENTATIVE BELOW:**

**<CONTRACTOR REPRESENTATIVE>**

**<REPRESENTATIVE PHONE NUMBER>**

Thank you for your cooperation!

Part 7

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# **Construction Drawings**

**(Separately Bound)**