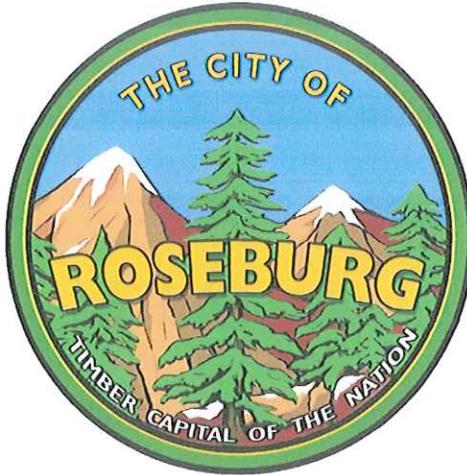


PROJECT PROPOSAL and CONTRACT DOCUMENTS
FOR THE CONSTRUCTION OF
SPRUCE ST. – PARROTT ST. IMPROVEMENTS
PROJECT NO.: 15UR03



CITY OF ROSEBURG
DOUGLAS COUNTY, OREGON



EXPIRES 12-31-16

PREPARED BY:
i.e. Engineering, Inc.
809 SE Pine St.
Roseburg, OR 97470
(541) 673-0166

April 4, 2016

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**CITY OF ROSEBURG
ADVERTISEMENT FOR BID**

Project Name: SPRUCE ST. – PARROTT ST. IMPROVEMENTS
Project Number: **15UR03**
Project Description: The project consists of the reconstruction SE Spruce St. from SE Mosher Ave. to SE Oak Ave., SE Parrott St. from SE Spruce St. to SE Oak Ave. and SE Cass Ave. from SE Parrott St. to SE Flint St. Street reconstruction shall include but not be limited to sewer main, water main, and storm drain replacement.

Bids are due by 2:00 p.m. on Thursday, May 5, 2016.
All bids will be opened at 2:00 p.m.
Additional forms disclosing first tier subcontractors are due by 4:00 p.m.
No bids shall be received after this date and time.

Contact – Submit bids to:
City of Roseburg City Recorder
900 SE Douglas
Roseburg OR 97470
(541) 492-6866
scox@cityofroseburg.org

Address Technical Questions to:
Alex Palm, PE, i.e. Engineering, Inc.
809 SE Pine Street
Roseburg, OR 97470
(541) 673-0166
palm@ieengineering.com

SOLICITATION DOCUMENTS: Solicitation documents, including contract terms, conditions, specifications, all attachments and/or addenda for the Invitation to Bid are available for review at the above contact address. Bid documents will not be mailed to prospective bidders, but may be downloaded from the Oregon Procurement Information Network (ORPIN) through the following internet address: <http://orpin.oregon.gov/open.dll/welcome>. Bidders without access to ORPIN may download the documents at a Plan Center or the City of Roseburg’s website at www.cityofroseburg.org under “Bidding Opportunities.”

Bidders must be pre-qualified in accordance with the laws of Oregon and the Information to Bidders at least ten days prior to the date of bid opening. Bidders must be licensed with the Oregon Construction Contractors Board and comply with City of Roseburg Municipal Code.

The resulting public works contract is subject to ORS 279C.800 to 279C.870. No bid will be considered unless the bid contains a statement that the bidder will comply with the provisions of ORS 279C.840 (Prevailing Wage Rates).

INVITATION TO BID

The City of Roseburg will receive sealed bids marked "**Bid for SPRUCE ST. – PARROTT ST. IMPROVEMENTS, PROJECT NO. 15UR03**" until the hour of 2:00 p.m. on, **Thursday, May 5, 2016**, at which time they will be publicly opened and read. When required by ORS 279C.370, bidders must submit a list of their first-tier subcontractors providing labor, or labor and materials, no later than 4:00 p.m. that same day. Bids shall be addressed and delivered to Sheila Cox, City Recorder, -City Hall, 900 SE Douglas Avenue, Roseburg, Oregon 97470. Any and all bids received after the 2:00 p.m. deadline for submission, or for which the list of first-tier subcontractors has not been submitted by 4:00 p.m. that same day, shall be considered nonresponsive and returned to the bidder. All bidders must list their "Construction Contractors Board" or "State Landscape Contractors Board" license number as required by ORS 701.021 or 671.530 on the bid form.

The proposed work generally consist of furnishing all labor, equipment, materials and supervision for the full street reconstruction of SE Spruce St. from SE Mosher Ave. to SE Oak Ave., SE Parrott St. from SE Spruce St. to SE Oak Ave. and SE Cass Ave. from SE Parrott St. to SE Flint St. Street reconstruction shall include but not be limited to sewer main, water main, and storm drain replacement.

The bids will be evaluated as unit price pursuant to OAR 137-049-0380(2)(b)]. The proposed work will require the bidder to meet the highest standards prevalent in the industry or business related to the work to be performed. Failure to meet such standards may result in a reduction or withholding of payment; require bidder to provide, at bidder's own expense, additional work required to meet such standards; or termination of the contract, with damages being sought. Technical questions regarding the work to be performed should be addressed to:

Alex Palm, P.E., i.e. Engineering, Inc., 809 SE Pine St., Roseburg, OR 97470,
541.673.0166, palm@ieengineering.com

Bids must be accompanied by a certified check, cashier's check, irrevocable letter of credit or Bid Bond in an amount equal to not less than ten percent (10%) of the total amount of the bid. Bidders shall state as part of the bid that the provisions of ORS 279C.800 to 279C.870 (Prevailing Wage Rates) shall be complied with; Bidders must also certify as part of the bid that the requirements of ORS 279C.505(2) (Employee Drug Testing Program) shall be complied with. Bidders must be pre-qualified in accordance with the laws of Oregon and the Information to Bidders, no later than **April 25, 2016**. Each bid must contain a statement as to whether the bidder is a resident bidder, as defined in ORS 279A.120. Bidders are not required to be licensed under ORS 468A.720 (Asbestos Abatement). However, the successful bidder shall at all times during the project provide qualified staff on site that is able to identify asbestos containing material. Bidders are hereby notified there are underground pipelines and structures containing asbestos within the City of Roseburg. If any such material is encountered during the project, the bidder shall thereupon be required to notify the City and comply with all requirements of applicable laws and regulations. Unless exempt under ORS 279C.800 to 279C.870, the successful bidder must file a \$30,000 Public Works Bond with the Construction Contractors Board prior to beginning work on the project, and certify that all sub-contractors have also filed

such bond. Bidders must agree to use recyclable products to the maximum extent financially feasible.

The City of Roseburg may reject any bid not in compliance with all public bidding procedures and requirements, including the requirement to demonstrate the bidder's responsibility under ORS 279C.375(3)(b), may waive any irregularities, and may reject for good cause any or all bids upon a finding of the City it is the public interest to do so. The City may also cancel this invitation in accordance with OAR 137-049-0270.

Dated this _____ day of April, 2016.

CITY OF ROSEBURG, DOUGLAS COUNTY, OREGON
/s/ Sheila R. Cox, City Recorder

INFORMATION TO BIDDERS

1. FORM OF BID

All bids must be made upon the blank Bid Form attached hereto and must give a price for each item and an aggregate amount or a lump sum price as required in the Bid Form.

The City reserves the right to reject any or all bids or to accept the bid deemed in the best interest of the City. Without limiting the generality of the foregoing, the City may reject any bid which is incomplete, obscure or irregular; which omits any one or more items in the price sheet; in which unit prices are obviously unbalanced; or which is accompanied by an insufficient or irregular Bid Bond.

The bidder shall sign the Bid Form in the blank space provided therefore. All bids must contain the bidder's tax identification number. Bids made by a corporation, general or limited partnership, or L.L.C., shall contain the name and address of such organization, together with names and addresses of officers, partners or managing members. If the bid is made by a corporation, it must be signed by one of the corporate officers with the authority to sign for the corporation; if made by a partnership, by one of the partners.

All bids must be submitted at the time and place, and in the manner prescribed in the Invitation to Bid.

2. BID PROTEST; REQUEST FOR CHANGE OR CLARIFICATION

A bidder may protest, or request a change in items in the bid documents, including contract terms and conditions or specifications, by filing a written protest with the City not less than 10 days prior to the bid submission deadline. Such written protest or request for change must include a detailed statement of the grounds for the protest and a statement of the desired changes to the contract terms and conditions or specifications.

The City shall not consider a bidder's protest or request for change after the deadline for submitting such protest or request. The City shall provide notice to the bidder if it entirely rejects the bidder's protest or request for change. If the City agrees with the bidder's protest or request, in whole or in part, the City shall issue a written Addendum to the bid documents or specifications.

Prior to the deadline for submitting a written protest or request for change, a bidder may request that the City clarify any provision of the bid documents. The City's clarification to a bidder, whether orally or in writing, shall not change the bid documents and is not binding on the City unless the City amends the bid documents by issuing a written addendum.

If a written addendum is issued by the City, all bidders must provide written acknowledgement, with their bids, of receipt of all issued addenda.

3. CONTRACT DOCUMENTS

The Contract Documents for this Project consist of, but are not necessarily limited to, the Invitation to Bid, Information to Bidders, Bid Form, Construction Contract including Exhibit "A" Standard City Contract Provisions, First-Tier Subcontractor Disclosure Form, Drug Testing Program Certification Form, Bidder's Responsibility Form, Performance Bond, Payment Bond, Public Works Bond Filing Certification form (when required), General Conditions, Technical Provisions, Special Conditions, Standard Drawings, Specifications and Plans, Supplemental Specifications and other Supplemental Agreements, all as required for the full execution and satisfactory completion of the Project. Any person contemplating the submission of a bid and being in doubt as to the meaning or intent of said Contract Documents should request of the City, in writing, an interpretation thereof. Any interpretation of said Contract Documents shall be made only in writing by the City.

4. ESTIMATE OF QUANTITIES

The estimate of quantities of work to be done as stated in the Bid Form, although stated with as much accuracy as possible, is approximate only and is assumed solely for the purpose of comparing bids. The quantities on which payments will be made to the Contractor are to be determined by measurement of the work actually performed and paid at the unit price bid, regardless of the amount of increase or decrease in the estimated quantities as specified in the Contract Documents. The City reserves the right to increase or diminish the amount of any class of work as may be deemed necessary.

5. CONSTRUCTION CONTRACTORS' BOARD - STATE LANDSCAPE CONTRACTORS' BOARD

All contractors bidding on public contracts must be licensed with the Construction Contractors' Board or the State Landscape Contractors Board as required by ORS 701.021 or 671.530. Bids must be identified with the Contractors' Board license number. No bids will be considered without this information.

6. DISCLOSURE OF FIRST-TIER SUBCONTRACTORS

When a public improvement contract value is greater than \$100,000, all bidders are required to disclose information about first-tier subcontractors, providing labor or labor and materials, when the contract amount of such first-tier subcontractor is equal to or greater than:

- 1) 5% of the project bid, or \$15,000.00, whichever is greater; or
- 2) \$350,000 regardless of the percentage of the total bid.

Bidders must disclose the following information about such subcontracts, on the First-Tier Subcontractor Disclosure Form provided by the City and included herein, within two hours of the bid submission deadline:

- 1) The subcontractor's name;

- 2) The subcontract dollar value; and
- 3) The category of work to be performed by the subcontractor.

Any bidder not using subcontractors subject to the above disclosure form, must write "NONE" on the Disclosure Form and sign and submit the form. The City will reject a bid if the bidder fails to submit the Disclosure Form before the deadline.

7. DRUG TESTING PROGRAM

ORS 279C.505(2) requires public improvement contracts to include a provision requiring contractors to demonstrate that they have an employee drug and alcohol testing program in place. All bidders are required to certify, on the Drug Testing Program Certification Form provided by the City and included herein, that they have such program in place. This certification will become part of the Contract if awarded and contractor will be required to maintain such program throughout the performance of the Contract. Failure to maintain a program shall constitute a material breach of the Contract.

8. PROMPT PAY POLICY - TIMELY PROGRESS PAYMENTS

ORS 279C.570 and 279C.580 require prompt payment to contractors and subcontractors and provides for settlement of compensation disputes between the parties. The City is required to automatically calculate and pay interest on invoices from the contractor when payments become overdue. The interest commences 30 days after receipt of the invoice from the contractor, or 15 days after the payment is approved by the City, whichever is earlier. The rate of interest charged to the City on the amount due shall equal three times the discount rate on 90-day commercial paper, but shall not exceed 30 percent.

The City is also required to ensure that the contractor includes a clause in each subcontract that obligates the contractor to pay first-tier subcontractors for satisfactory performance under its contract. Contractors must pay subcontractors within 10 days of receiving payment from the City. Contracts between primary contractors and subcontractors must also contain an interest penalty clause that obligates the contractor, if payment is not made to the subcontractor within 30 days after receipt of payment from the City, to pay the first-tier subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the subcontract payment clause. The contractor is also required to ensure that first-tier subcontractors include these requirements in each of its subcontracts with lower-tier subcontractors or suppliers.

If requested in writing by a first-tier subcontractor, within ten calendar days after receiving the request, the contractor must provide the first-tier subcontractor, a copy of that portion of any invoice or request for payment submitted to the City, or pay document provided by the City to the contractor, specifically related to any labor or materials supplied by the first-tier subcontractor.

9. PRE-QUALIFICATION OF BIDDERS

When required, bidders shall pre-qualify under ORS 279C.430 and 279C.435. This information shall be submitted at least ten days prior to the date of bid opening. Bidder qualifications are approved on a calendar year basis and must be renewed annually by filing a new pre-qualification application and obtaining approval after January 1 of each year. The City will accept the approval of qualifications granted from the Department of Transportation and the Department of Administrative Services, including the time periods used by those agencies.

10. BID BOND, PUBLIC WORKS BOND, PAYMENT BOND AND PERFORMANCE BOND

A Bid Bond, Public Works Bond Filing Certification, Payment Bond and Performance Bond shall be provided as specified in Paragraph 5.4 of the General Conditions. No waivers, special requirements or emergency provisions have been established for this Contract.

11. HIGHEST STANDARDS OF WORK AND CONSEQUENCES FOR FAILURE

The work to be performed must meet the highest standards prevalent in the industry or business most closely related to the work to be performed. Failure to meet such standards may result in consequences including, but not limited to a reduction or withholding of payment; a requirement that bidder perform, at bidder's own expense, additional work required to meet such standards; or termination of the contract, with damages being sought.

12. CONDITIONS OF WORK

Bidders must make their own determination of the nature of the work proposed under this Contract, the local conditions which can be encountered in this area, and all other matters which can in any way affect the work proposed under this Contract. It shall also be the bidder's responsibility to be thoroughly familiar with the Contract Documents. Failure to make the examination necessary for this determination or to examine any form, instrument or document of the Contract shall not release the bidder from the obligations of this Contract.

13. REVIEW OF BIDS; BASIS FOR AWARD; NOTICE OF INTENT TO AWARD; AND RIGHT TO PROTEST AWARD

In reviewing all bids received and determining the lowest responsible bidder, the City reserves the right to take into account and give reasonable weight to the extent of the bidder's experience on work of the nature involved, on the bidder's record as to dependability in carrying out of contracts, and evidence of present ability to perform the Contract in a satisfactory manner.

The City may make such investigations as deemed necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the City all such information and data for this purpose as the City may request. The City reserves the right to reject any

bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the City that such bidder is properly qualified to carry out the obligations of the Contract, to complete the work contemplated therein, and to do so in a timely manner. The City specifically reserves the right to reject a bid from a bidder who, at the time bids are opened, has failed to complete work in a timely manner under a contract previously awarded to the bidder by the City. Conditional bids will not be accepted.

In accordance with ORS 279A.120(2)(b), in determining the lowest responsible bidder, the City shall, for the purpose of awarding the Contract, add a percentage increase on the bid of a non-resident bidder equal to the percent, if any, of the preference given to that bidder in the state in which the bidder resides.

Within 45 days after the bid opening, the City will accept one of the bids or reject all of the bids received. If the City intends to accept one of the bids, it shall issue a Notice of Intent to Award the Contract to all bidders. The City's award will not be final until 7 days after the date of the notice if no protest is filed; or if a protest is filed, until the City provides a written response to all timely-filed protests that denies the protest and affirms the award.

A bidder may submit a formal written protest to the City's Notice of Intent to Award the Contract within 7 calendar days of the date of the City's Notice of Intent. The written protest must specify the grounds upon which the protest is based and must show that the protesting party is an adversely affected or aggrieved bidder. A bidder is adversely affected or aggrieved only if the bidder is eligible for award of the Contract as the responsible bidder submitting the lowest responsible bid, is next in line for award and claims that all lower bidders are ineligible for award in accordance with law.

Such protest must be submitted to the City Recorder, 900 SE Douglas, Roseburg, OR 97470. Any protest received after the 7-day deadline will not be considered. The City Recorder shall forward such protest to the City Manager who shall have the authority to settle or resolve the protest by written decision.

14. EXECUTION OF CONTRACT, BONDS AND DAMAGES FOR FAILURE TO EXECUTE

The bidder whose bid is accepted will be required to appear within ten days after notice that the Contract has been awarded to bidder and to execute the Contract with the City for the full and complete performance of all work specified, and as required by Paragraph 5.4 of the General Conditions, deliver the Public Works Bond Filing Certification form, the Payment Bond to assure payment of the obligations incurred in the performance of the Contract and the Performance Bond and to ensure performance of the Contract.

Should the successful bidder fail or refuse to execute the Contract and furnish the Public Works Bond Filing Certification form, Payment Bond and/or Performance Bond when required, then the Bid Bond deposited by said bidder shall be retained by the City as liquidated damages.

15. COMMENCEMENT DATE AND EXPIRATION DATE OF CONTRACT

This Contract shall be in effect from the time the Contract is signed until the Project is completed. The Contractor must be capable of commencing construction on the work contemplated in the Contract Documents within 10 days after the execution of the Contract and receipt of the City's notification to proceed and shall complete the same within the time specified in the bid.

16. DURATION OF BIDS; RETURN OF BID BONDS

All bids will be binding until the later of:

- 1) the day the contract is executed; or
- 2) 60 days after the date of bid opening.

Bid bonds will be returned to unsuccessful bidders not later than the date on which the bids are no longer binding.

17. PUBLIC RECORDS

These Contract Documents and each bid received in response to it, together with copies of documents pertaining to the award of a contract shall be kept on file as a public record by the City Recorder; provided however, such records shall not be disclosed until after the notice of intent to award the contract has been issued.

18. RECORDS REVIEW; CONFIDENTIALITY

After notice of intent to award the resulting contract has been issued, all bids shall be available for public inspection except for those portions of a bid that the bidder designates in its bid as trade secrets or as confidential proprietary data in accordance with applicable state law. If the City determines such designation is not in accordance with applicable law, the City shall make those portions available for public inspection. The bidder shall separate information designated as confidential from other non-confidential information at the time of submitting its proposal. Prices, makes, models or catalog numbers of items offered, scheduled delivery dates and terms of payment are not confidential, and shall be publicly available regardless of a bidder's designation to the contrary.

19. MATERIALS CONTAINING ASBESTOS

Materials containing asbestos may be present in underground pipe systems. All appropriate Federal, State, County and Municipal rules, regulations and guidelines must be followed when working with asbestos containing material. Non friable material must be handled, transported and disposed of in a way that prevents it from becoming friable and releasing asbestos fibers. If AC pipe is shattered, damaged or badly weathered, it is considered to be friable and will likely release asbestos fibers. A DEQ licensed asbestos abatement contractor using DEQ certified workers must remove all friable asbestos material. Any and all permits and fees that are required by the DEQ, Douglas County and

any other regulatory agency must be obtained and paid for by the Contractor prior to disposing of the asbestos containing material. For information about asbestos rules, contact the DEQ Western Region office in Medford, Oregon.

BIDDER'S CHECK LIST

Bidder's attention is called to the following forms, which must be executed in full as required with the bid:

- A. **BID FORM(S)**: Each bidder shall complete the bid form(s). Prices must be shown in the spaces provided and must be expressed in both words and figures. Where conflict occurs, written or typed words shall prevail.
- B. **BID BOND**: This form is to be executed by bidder and bidder's Surety. The amount of cash, certified check, cashier's check, irrevocable letter of credit or Bid Bond shall not be less than 10% of the total Bid amount.
- C. **FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM**: When required by law, this form must be submitted by the bid submission deadline, at which time bids will be opened and read, or within two (2) working hours of such submission deadline. If no subcontractors for labor or for labor and materials will be used, the bidder must write "NONE" on the disclosure form, sign and submit the form as required. Failure to submit this form within two hours of the bid submission deadline will result in the bid becoming non-responsive and such bid will be returned to the bidder.
- D. **DRUG TESTING PROGRAM CERTIFICATION FORM**: This form must be submitted with the bid to demonstrate that bidder has an employee drug and alcohol testing program in place and will continue to keep the program in place throughout the duration of performing the Contract awarded.
- E. **PUBLIC WORKS BOND PRE-BID NOTICE & CERTIFICATION FORM**: This form must be submitted with the bid to demonstrate contractor's awareness of and intended compliance with the requirement to file a Public Works Bond with the Construction Contractors Board prior to beginning work on the project if awarded the bid.

The following forms are to be executed after the Contract is awarded, prior to beginning work on the project:

- A. **CONSTRUCTION CONTRACT**: This agreement is to be executed by the successful bidder.
- B. **PERFORMANCE BOND AND PAYMENT BOND**: Both a Performance Bond and a Payment Bond are to be executed by the successful bidder and bidder's Surety Company and submitted at the time the Contract is executed.
- C. **PUBLIC WORKS WAGE CERTIFICATION FORM**: This form is to be completed in accordance with state law and submitted with the first and last request for payment.
- D. **CERTIFICATE OF INSURANCE**: This certificate is to be executed by the successful bidder and bidder's insurance company and submitted at the time the Contract is executed.

- E. PUBLIC WORKS BOND FILING CERTIFICATION:** This form is to be executed by the successful bidder and submitted at the time the Contract is executed to certify if Contractor has filed the required Public Works Bond or elected not to file the Bond due to qualifying under ORS 200.055.

BID FORM

City of Roseburg
900 SE Douglas Avenue
Roseburg, Oregon 97470

The undersigned bidder has carefully examined the Contract Documents for the construction of the

SPRUCE ST. – PARROTT ST. IMPROVEMENTS,
PROJECT NO. 15UR03

referred to in the Invitation to Bid dated April ____, 2016, inviting bids on such Project and also the site of the Project. Bidder will provide all necessary labor, equipment, tools, apparatus and other means of construction, do all the work and furnish all the materials called for by said Contract Documents in the manner prescribed therein to provide a complete Project.

The undersigned bidder understands that the quantities of work as shown herein are approximate only, unless noted otherwise, and are subject to increase or decrease. The bidder offers to perform the work, at the unit price stated in the following schedule, whether the quantities are increased or decreased.

ITE M NO.	ITEM NAME	UNIT	TOTAL QUANTITY	UNIT COST	TOTAL COST
1	MOBILIZATION	LS	100%		
2	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	100%		
3	TEMPORARY SIGNS	SF	470		
4	TEMPORARY BARRICADES, TYPE III	EACH	10		
5	FLAGGERS	HOURL	100		
6	CONSTRUCTION STAKING	LS	100%		
7	EROSION CONTROL	LS	100%		
8	INLET PROTECTION	EACH	12		
9	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	100%		
10	REMOVAL OF 6-INCH CONCRETE BASE	SQYD	1,010		
11	SLURRY FILL AND ABANDON SANITARY SEWER PIPES AND	LS	100%		

	MANHOLES				
12	CLEARING AND GRUBBING	LS	100%		
13	GENERAL EXCAVATION	CUYD	6,750		
14	STABILIZING GEOGRID	SQYD	7,990		
15	SUBGRADE GEOTEXTILE	SQYD	7,990		
16	SEWER SERVICE LINE RECONNECTION TO EXISTING SERVICE	EACH	10		
17	SEWER SERVICE LINE STUB OUT FOR FUTURE CONNECTION	EACH	10		
18	4 AND 6 INCH SANITARY SEWER PIPE, 10 FT DEPTH	FOOT	310		
19	4 AND 6 INCH SANITARY SEWER PIPE, 15 FT DEPTH	FOOT	25		
20	8 INCH SANITARY SEWER PIPE, 10 FT DEPTH	FOOT	636		
21	8 INCH SANITARY SEWER PIPE, 15 FT DEPTH	FOOT	212		
22	12-INCH SANITARY SEWER PIPE, 10 FT DEPTH	FOOT	92		
23	12 INCH SANITARY SEWER PIPE, 15 FT DEPTH	FOOT	56		
24	STORM PIPE TEES, 12-INCH	EACH	2		
25	12-INCH STORM SEWER PIPE, 10 FT DEPTH	FOOT	1,265		
26	CONCRETE SANITARY SEWER MANHOLES, 10 FT DEPTH	EACH	4		
27	CONCRETE SANITARY SEWER MANHOLES, 15 FT DEPTH	EACH	2		
28	CONCRETE MANHOLES, OUTSIDE DROP	EACH	3		
29	CONCRETE STORM SEWER MANHOLES - 48 INCH	EACH	3		
30	CONCRETE INLETS, TYPE CI w/FLOGARD	EACH	20		
31	CONCRETE INLETS, TYPE G-2	EACH	2		

32	CONNECTION TO EXISTING STRUCTURES	EACH	10		
33	MINOR ADJUSTMENT OF MANHOLES	EACH	2		
34	MAJOR ADJUSTMENT OF MANHOLES	EACH	1		
35	MANHOLES OVER EXISTING SEWERS - 48 INCH	EACH	1		
36	MANHOLES OVER EXISTING SEWERS - 60 INCH	EACH	1		
37	TRENCH RESURFACING	SQYD	25		
38	RETAINING WALL, CAST IN PLACE	SQFT	1,800		
39	1 INCH- 0 AGGREGATE BASE	TON	4,200		
40	2-1/2 INCH - 0 AGGREGATE BASE	TON	2,900		
41	LEVEL 3, 1/2 INCH ACP MIXTURE	TON	2,070		
42	EXTRA FOR ASPHALT APPROACHES	EACH	20		
43	CONCRETE CURBS, CURB AND GUTTER	FOOT	4,050		
44	CONCRETE DRIVEWAYS	SQFT	5,345		
45	CONCRETE SIDEWALK	SQFT	19,150		
46	EXTRA FOR MONOLITHIC CURB AND SIDEWALK	FOOT	2,925		
47	TRUNCATED DOMES	SQFT	80		
48	LONGITUDINAL PAVEMENT MARKINGS - PAINT	FOOT	8,070		
49	TRANSVERSE PAVEMENT MARKINGS - PAINT (CROSS WALK)	FOOT	305		
50	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE AND ARROW STENCIL	EACH	10		
51	YELLOW CURB - PAINT	FOOT	1,700		
52	REMOVE AND REINSTALL EXISTING SIGNS	LS	1		

53	TOPSOIL	CUYD	100		
54	3' CHAIN LINK FENCE	FOOT	280		
55	3' WOOD FENCE	FOOT	260		
56	6' CHAIN LINK FENCE	FOOT	75		
57	3' WOOD GATE-PED	EACH	2		
58	3' CHAIN LINK GATE-PED	EACH	6		
59	3' CHAIN LINK GATE-VEHICLE	EACH	2		
60	MODIFY EXISTING ALUMINUM ADA RAMP	LS	100%		
61	8-INCH POTABLE WATER PIPE, FITTINGS AND COUPLINGS WITH CLASS B BACKFILL	FOOT	60		
62	CONNECTIONS, HYDRANT, HYDRANT REMOVAL AND VALVES PER DETAIL 'A' SHT SD.4	LS	100%		
63	8 INCH CONNECTION TO 12 INCH EXISTING MAIN	EACH	1		
64	HYDRANT ASSEMBLY ON NEW WATER MAIN	EACH	1		
65	HYDRANT ASSEMBLY ON EXISTING WATER MAIN	EACH	2		
66	REMOVING EXISTING HYDRANTS	EACH	2		
67	1 INCH WATER SERVICE CONNECTIONS	EACH	20		
68	1 INCH WATER SERVICE LINE FROM METER TO EXIST SERVICE	FOOT	95		

Total \$ _____

The undersigned also declares and agrees as follows:

1. That the only persons or parties interested in this bid are those named herein, that the bid is in all respects fair and without fraud, and that it is made without any connection or collusion with any person making another bid on this Contract.

2. That the bidder, and any subcontractor upon which the bidder is relying, have carefully examined and had an opportunity to comment on, the Contract Documents for the construction of the proposed improvements including a full set of the plans and specifications, including all addenda thereto; that bidder has personally inspected the contemplated construction area or areas; that bidder is satisfied as to the adequacy and completeness of the plans and specifications, the feasibility of the work described therein, quantities of materials, items of equipment and conditions of work involved, including the fact that the description of work and materials as included herein are approximate only; and that this bid is made according to the provisions and under the terms of the Specifications which are hereto attached and hereby made a part of this bid.
3. All of the Specifications and Plans which are listed herein have been examined by the undersigned bidder and the terms and conditions thereof are hereby accepted.
4. It is understood that the Plans may be supplemented by additional Drawings and Specifications in explanation and elaboration of the Plans and it is agreed that such Supplemental Drawings, when not in conflict with those referred to in Paragraph 3 above, will have the same force and effect as if completed and attached hereto, and that when received, will be considered a part of the Contract Documents.
5. It is understood that all work will be performed under the price schedule outlined herein and that all services, materials, labor and equipment and all work necessary to complete the Project in accordance with the Plans and Specifications shall be furnished for the prices named in the bid. If there is a change in the scope of work or work which cannot be properly classified under the price schedule then bidder agrees to do this work as "extra work". The undersigned bidder agrees to do any extra work and furnish materials, and to accept as full compensation therefore at such prices as may be agreed upon in writing by the City and the Contractor before extra work begins. Each party binds itself to agree to reasonable prices.
6. It is understood the work to be performed must meet the highest standards prevalent in the industry or business most closely related to the work to be performed. It is further understood that failure to meet such standards may result in consequences including, but not limited to, a reduction or withholding of payment; a requirement that bidder perform, at bidder's own expense, additional work required to meet such standards; or termination of the contract, with damages being sought.
7. The bidder agrees that if this bid is accepted, the bidder will, within ten calendar days after the notification of acceptance, execute the Construction Contract with the City in the form of Contract specified, and will, at the time of execution of the Contract, deliver to the City the Performance Bond, Payment Bond and Public Works Bond Filing Certification form as required herein, and will furnish all the materials necessary to complete the Project in the manner, in the time and according to methods as specified in the Specifications and required by the City.
8. The cash, certified check, cashier's check, irrevocable letter of credit or Bid Bond shall be payable to the City to the extent of 10% of the amount of the bid in case this bid is

accepted by the City and the undersigned shall fail or refuse to execute the Contract and furnish a Payment Bond, a Performance Bond or the Public Works Bond Filing Certification form as required by the Specifications within the time limit named therein after notification that said bid is accepted, all in accordance with the provisions of this bid and the Plans and Specifications which are a part hereof.

9. All items for the Contract for which forms are provided herein have been completed in full by the showing of prices for each and every item thereof, and for the showing of other information indicated by the Bid Form.
10. Bidder agrees to begin work within ten days after the execution of the Contract proposed herein and receipt of the City's notification to begin work and to complete work in all respects no later than November 1, 2016.
11. In the event the bidder is awarded the Contract and fails to complete the Project within the time limit or extended time agreed upon, as more specifically set forth in the General Conditions, liquidated damages shall be paid to or withheld by the City pursuant to Paragraph 4 of the Construction Contract (Time of Performance - Liquidated Damages) at the rate of one thousand Dollars (\$1,000.00) per day, until the Project has been completed as provided in the General Conditions.
12. The undersigned bidder hereby states, as part of this bid, that the applicable provisions of Oregon's Prevailing Wage Law (ORS 279C.800 to 279C.870) and the Federal Prevailing Wage Law (Davis-Bacon Act, 40 U.S.C. 3141-3148), shall be complied with. When the Project is subject to both the State and Federal Prevailing Wage Laws and rates, workers in each trade will be paid the higher of the two rates.
13. The undersigned bidder and bidder's subcontractors shall comply with ORS 656.017, which requires them to provide Workers' Compensation coverage for all their subject workers.
14. The undersigned bidder hereby states, as part of this bid, that bidder shall comply with ORS 279C.505(2) which requires bidder to have an employee drug testing program in place.
15. The undersigned bidder and bidders' subcontractors shall comply with ORS 279C.570 and 279C.580, which require timely progress payments for public improvement projects and provide interest penalties for late payment.
16. The undersigned bidder hereby states, as part of this bid, bidder and bidder's subcontractors shall comply with the provisions of Exhibit "A" - "Standard City Contract Provisions".
17. If the bidder is awarded the Contract for this work, the name and address of the Surety who will provide the Payment Bond, Performance Bond and Public Works Bond (if required) will be:_____.

18. The name and address of the bidder who is submitting this bid is: _____, which is the address to which all communications pertinent to this bid and the Contract shall be sent. The bidder's email address is: _____.
19. The names of the principal officers of the corporation submitting this bid or of the partnership, or of all parties interested in this bid as principals are as follows: _____.
20. The undersigned bidder acknowledges that Addenda No. _____ through _____ have been delivered to bidder and have been examined as part of the Contract Documents.
21. In the prosecution of this work, the bidder proposes to use the subcontractors listed on the First-Tier Subcontractor Disclosure Form presented within two working hours of the bid submission deadline as set forth in the Invitation to Bid. Any bidder not using subcontractors subject to the above referenced Disclosure Form shall indicate "NONE" on the Disclosure Form and sign and submit the form as required.
22. Declaration of Residency: I "am" or "am not" (circle one) a "resident bidder"* as defined by ORS 279A.120, a contractor that has paid unemployment taxes or income taxes in Oregon during the 12 calendar months immediately preceding submission of the bid, has a business address in this state and has stated in the bid whether the bidder is a "resident bidder" pursuant to ORS 279A.120.
23. The bidder's Construction Contractors Board License Number or Landscape Contractors Board License Number is: _____.
24. Bidder's Tax Identification Number: _____. Email: _____.
25. Public Works Bond: If the bid is accepted, prior to beginning work on the project, the bidder will file with the Construction Contractors Board, a Public Works Bond in the amount of \$30,000 with a corporate surety authorized to do business in the State of Oregon; and before permitting a subcontractor to begin work on the project, the bidder will verify that the subcontractor has also filed the aforementioned bond. If the bidder, as a certified disadvantaged, minority, women or emerging small business enterprise, elects not to file the Public Works Bond, bidder will file written verification of such certification with the Construction Contractors Board and provide the Board and the City of Roseburg with notice of such election.

If sole Proprietor or Partnership:

In witness hereto, the undersigned as set his/her hand this _____ day of _____, 2016.

Printed name of bidder: _____

Signature of bidder: _____

Title: _____

If Corporation:

In witness whereof, the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers this _____ day of _____, 2016.

Name of Corporation: _____

Printed name of person signing: _____

Signature: _____

Title: _____

Attest: _____

Secretary

STANDARD BID BOND

We, _____, "as Principal,"
(Name of Principal)

and _____, an _____ Corporation,
(Name of Surety)

authorized to transact Surety business in Oregon, as "Surety," hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns to pay unto the City of Roseburg ("Obligee") the sum of (\$ _____) _____ dollars.

WHEREAS, the condition of the obligation of this bond is that Principal has submitted its proposal or bid to an agency of the Obligee in response to Obligee's procurement document (No. _____) for the project identified as:

_____ which proposal or bid is made a part of this bond by reference, and Principal is required to furnish bid security in an amount equal to ten percent (10%) of the total amount of the bid pursuant to the procurement document and ORS 279C.365(5) for competitive bidding or 279C.400(5) for competitive proposals.

NOW, THEREFORE, if the proposal or bid submitted by Principal is accepted, and if a contract pursuant to the proposal or bid is awarded to Principal, and if Principal enters into and executes such contract within the time specified in the procurement document and executes and delivers to Obligee its good and sufficient performance bond, payment bond and public works bond as required by Obligee within the time fixed by Obligee, then this obligation shall be void; otherwise, it shall remain in full force and effect.

IN WITNESS WHEREOF, we have caused this instrument to be executed and sealed by our duly authorized legal representatives this _____ day of _____, 2016.

PRINCIPAL: _____ SURETY: _____

By _____ Signature
BY ATTORNEY-IN-FACT:

Official Capacity Name

Attest: _____ Signature
Corporation Secretary

Address

City State Zip

Phone Email

FIRST TIER SUBCONTRACTOR DISCLOSURE FORM INSTRUCTIONS

Instructions for First-Tier Subcontractor Disclosure:

Bidders are required to disclose information action certain first-tier subcontracts (ORS 279C.370). Specifically, when the contract amount of a first-tier subcontract furnishing labor or labor and materials would be great than or equal to: (1) 5% of the project bid, but at least \$15,000; or (2) \$350,000 regardless of the percentage, the bidder must disclose the following information about that subcontract either in its bids submission, or within two hours after bid closing:

- (A) The subcontractor's name;
- (B) The category of work that the subcontractor would be performing; and
- (C) The dollar value of the subcontract.

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.

THE CONTRACTING AGENCY MUST REJECT A BID IF THE BIDDER FAILS TO SUBMIT THE DISCLOSURE FORM WITH THIS INFORMATION BY THE STATED DEADLINE (OAR 137-049-0360).

** The subject form is on the following page.*

FIRST TIER SUBCONTRACTOR DISCLOSURE FORM

PROJECT NAME: _____

BID#: _____

BID CLOSING: DATE: _____ **TIME:** _____

This form must be submitted at the location specified in the Invitation to Bid on the advertised bid closing date and within two working hours after the advertised bid closing time.

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

NAME OF SUBCONTRACTOR	DOLLAR VALUE	CATEGORY OF WORK
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____

Failure to submit this form by the disclosure deadline will result in a nonresponsive bid. A nonresponsive bid will not be considered for award.

Form submitted by (bidder name): _____

Contact name: _____ **Phone #:** _____

Form Received in the City Recorder's Office:

Time: _____ **Date:** _____ **By:** _____

**EMPLOYEE DRUG TESTING PROGRAM
CERTIFICATION FORM**

BIDDER'S NAME: _____

PROJECT NAME & NUMBER: _____

ORS 279C.505 (2) provides that every public improvement contract contain a condition that the Contractor shall demonstrate that an employee drug testing program is in place. The City's award of the Contract for which this certificate is required is conditioned, in part, upon the Bidder's demonstration of compliance with the provisions of ORS 279C.505(2). If the Bidder named above is awarded the Contract, this certificate shall become a part of, and shall constitute a continuing representation and warranty under, the Contract.

To induce the City to award the Contract to the Bidder, the undersigned, as the duly authorized representative of the Bidder, hereby represents and warrants, on behalf of the above named Bidder:

1. That Bidder has and enforces, and at all times during the term of the Contract will have and enforce, a written employee drug testing policy that at a minimum, requires compliance with the Oregon Department of Transportation Commercial Drivers License drug testing regulations;
2. A copy of the Bidder's current written employee drug testing policy will be available for inspection by the City at any time upon the City's request; and
3. The Bidder understands and agrees that its representations and warranties herein will become a continuing part of the Contract and that breach of any of the foregoing will be sufficient grounds for disqualification under 279C.440(2)(d).

The City shall not be liable, either directly or indirectly, in any dispute arising out of the substance or procedure of Bidder/Contractor's drug testing program. Nothing in this drug testing provision shall be construed as requiring Bidder/Contractor to violate any legal, including constitutional rights of any employee, including but not limited to, selection of which employees to test and the manner of such testing. The City shall not be liable for Bidder/Contractor's negligence in establishing or implementing, or failure to establish or implement, a drug testing policy, or for any damage or injury caused by Bidder/Contractor's employees acting under the influence of drugs while performing work covered by the Contract. These are Bidder/Contractor's sole responsibilities.

In Witness whereof, the Bidder has caused this document to be executed by its duly authorized representative on the date shown below.

Signature: _____

Printed Name, Title: _____

Date: _____

**CITY OF ROSEBURG
PUBLIC WORKS BOND - PRE-BID NOTICE AND CERTIFICATION**

I, the undersigned contractor, hereby certify that if awarded the contract for which I am submitting this bid, prior to beginning work on such Project, unless exempt under ORS 279C.800 to 279C.870, I will file with the Construction Contractors Board, a Public Works Bond in the amount of \$30,000 with a corporate surety authorized to do business in the State of Oregon. I further certify that before permitting a subcontractor to start work on the Project upon which I am submitting this bid, I will verify that the subcontractor has also filed such Public Works Bond or has elected not to file such bond as allowed by state law. The Public Works Bond shall provide that the contractor or subcontractor will pay claims ordered by the Bureau of Labor and Industries to workers performing labor upon public works projects. The bond shall be a continuing obligation and remain continuously in effect.

If, as a contractor, I qualify as a disadvantaged, minority, women, disable veteran or emerging small business enterprise certified under ORS 200.055 and I have elected not to file the aforementioned Public Works Bond, I hereby certify that I will file written verification of such certification with the Construction Contractors Board. I also certify that before beginning any work on the Project, I will provide the City of Roseburg and the Construction Contractors Board written notice that I have elected not to file the Public Works Bond. If so certified under ORS 200.055, I understand that my election not to file the Public Works Bond will expire one year from the date it was filed and that a claim for unpaid wages may be filed against the payment bond I submitted on the Project.

I further certify that I understand the Public Works Bond described above is in addition to any other bond that I am required to provide, or that may be required of a subcontractor, for this Project.

Project Name: _____

Project Number: _____

Contractor's Printed Name: _____

Contractor's Signature: _____

Dated: _____

CONSTRUCTION CONTRACT

This Contract is made and entered into this _____ day of _____, 2016, by and between Brown Contracting, Inc., hereinafter called the "Contractor", and the City of Roseburg, a municipal corporation of the State of Oregon, hereinafter called the "City".

WITNESSETH

That the Contractor and City, for the consideration hereinafter described agree as follows:

- WORK TO BE PERFORMED.** The Contractor agrees to do all the work and furnish all necessary labor, materials, tools and equipment for the completion of the **SPRUCE ST. – PARROTT ST. IMPROVEMENTS, Project No. 15UR03** in accordance with the bid made by the Contractor on the _____ day of _____, 2016, all in full compliance with the Contract Documents referred to herein, and guarantees all materials and workmanship for one year after acceptance of the project.
- CONTRACT DOCUMENTS.** The Contract Documents include the City's Invitation to Bid, Information to Bidders, the Bid Form signed by the Contractor, this Construction Contract with Exhibit A, First-Tier Subcontractor Disclosure Form, Drug Testing Program Certification Form, Bidder's Responsibility Form, Performance Bond, Payment Bond, Public Works Bond Filing Certification form (when required), General Conditions, Technical Provisions, Special Conditions, Standard Drawings, Specifications and Plans, Supplemental Specifications and other Supplemental Agreements all as required for the full execution and satisfactory completion of the work. All of the Contract Documents are incorporated herein by this reference and made a part of this Contract.
- PAYMENT.** In consideration of the faithful performance of the work herein embraced, the City agrees to pay the Contractor \$_____ as payment in full per the provisions of the Contract Documents.
- TIME OF PERFORMANCE - LIQUIDATED DAMAGES.** The Contractor shall commence work under this Contract upon receiving notification to proceed from the City. The Contractor agrees that the work under this Contract shall be completed no later than November, 1, 2016. If the Contractor fails to complete the Project within the time hereinbefore mentioned, or in the extended time agreed upon, liquidated damages shall be paid to or withheld by the City at the rate of one thousand dollars (\$1,000.00) per day until the Project is completed. It has been agreed that the damages arising from a delay in completion would be difficult to ascertain with any degree of accuracy, even after the Project is completed. It has also been agreed that the amount of liquidated damages specified herein is a reasonable forecast of just compensation for the harm that will be caused by a delay in completion of the Project. Any such sum which the Contractor may be obligated to pay under the terms of this Paragraph is paid as liquidated damages, and not as a penalty.
- COMPLIANCE WITH LAW.** The Contractor shall comply with all local, state and federal laws, ordinances and regulations applicable to contracts covering municipal contracts, and shall make prompt payment of all amounts that may be due from said Contractor in the way of taxes,

other governmental charges or lawful deductions, and shall make prompt payment of all labor and materials and shall save the City harmless from any damages or claims whatsoever in the performance of the Contract. Contractor and all subcontractors agree to comply with the City's Standard Contract Provisions, attached as Exhibit A and incorporated herein by this reference, and Roseburg Municipal Code Regulations relating to business registration.

6. NOTICE. Any notice required or permitted by this Contract must be delivered and served personally, or alternatively, deposited in the United States mail, postage prepaid, registered or certified, return receipt requested, addressed to the parties as shown below:

CITY:
City of Roseburg
ATTN: City Manager
900 SE Douglas Avenue
Roseburg OR 97470

CONTRACTOR:

Such notice, if mailed within the State of Oregon, shall be deemed delivered upon the second day following the date postmarked. If mailed outside the State of Oregon, notice shall be deemed delivered upon the fifth day following the date postmarked.

7. GOVERNING LAW; VENUE LOCATION. Oregon law shall be applied to all actions relating to the Contract, and the venue in any such action shall lie in the Circuit Court of Douglas County, Oregon.

IN WITNESS WHEREOF, the parties hereto have executed this Contract the day and year first above written.

CITY

CONTRACTOR

C. Lance Colley
City Manager

(Authorized Signature)
Title: _____

Date: _____

Date: _____

ATTEST:

Tax Identification Number

Email: _____

Sheila R. Cox
City Recorder

EXHIBIT "A"
STANDARD CONTRACT PROVISIONS
PREVAILING WAGE CONTRACT
(ORS 279C.800 - 279C.870)

The following provisions, if applicable, are hereby included in and made a part of the attached public contract which is subject to Prevailing Wage Laws and rates, between the City of Roseburg and the Contractor named thereon as provided for in the Roseburg Code, Oregon Revised Statutes, and Federal laws, rules, regulations, and guidelines. If a Contractor or Subcontractor violates the provisions below, the City may, at its option, terminate the contract or a subcontract and said Contractor or Subcontractor in such event shall forfeit all rights under the contract except to payment for actual labor and materials furnished to the City. The City may waive in whole or in part any forfeitures or sanctions provided in this Exhibit.

1. PREFERENCE FOR OREGON GOODS AND SERVICES; NONRESIDENT CONTRACTOR REPORT TO DEPARTMENT OF REVENUE - ORS 279A.120:

1.1 For purposes of awarding the contract the City will:

1.1.1 give preference to goods and services that have been manufactured or produced in Oregon if the price, fitness, availability and quality are otherwise equal; and

1.1.2 add a percentage increase to the bid of a non-resident bidder equal to the percentage, if any, of the preference given to the contractor in the same state in which the contractor lives.

1.2 As used in this Section:

1.2.1 "nonresident contractor" means a contractor that is not a resident contractor;

1.2.2 "resident contractor" means a contractor that has paid unemployment taxes or income taxes in the state of Oregon during the twelve (12) calendar months immediately preceding submission of the bid for the contract; has a business address in this state; and stated in the bid for the contract that it was not a "resident bidder" under ORS 279A.120.

1.3 If the Contractor is a nonresident contractor and the contract price exceeds \$10,000, the Contractor shall promptly report to the Department of Revenue on forms to be provided by the Department, the total contract price, terms of payment, length of contract and such other information as the Department may require before the Contractor may receive final payment on the public contract. The City shall satisfy itself that the requirement of this Subsection has been complied with before it issues a final payment on the contract.

2. PAYMENT OF LABORERS AND MATERIALMEN, CONTRIBUTIONS TO INDUSTRIAL ACCIDENT FUND, LIENS, AND WITHHOLDING TAXES - ORS 279C.505(1): The Contractor shall:

- 2.1 Make payment promptly, as due, to all persons supplying to such Contractor, labor or material for the performance of the work provided for in the contract.
- 2.2 Pay all contributions or amounts due the Industrial Accident Fund from such Contractor or Subcontractor incurred in the performance of the contract.
- 2.3 Not permit any lien or claim to be filed or prosecuted against the City of Roseburg or any subdivision or agency or employee thereof on account of any labor or material furnished.
- 2.4 Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

3. PAYMENT OF CLAIMS BY PUBLIC OFFICERS - ORS 279C.515:

- 3.1 If the Contractor fails, neglects or refuses to make prompt payment of any claim for labor or services furnished to the Contractor or a Subcontractor by any person in connection with the contract as such claim becomes due, the public officer or officers representing the City of Roseburg may pay such claims to the person furnishing 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. The payment of a claim in the manner authorized shall not relieve the Contractor or his/her surety from his or her obligations with respect to any unpaid claims.
- 3.2 If the Contractor or a first-tier Subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with the contract within 30 days after receipt of payment from the City of Roseburg or the Contractor, the Contractor or first-tier Subcontractor shall owe the person the amount due plus interest charges commencing at the end of the 10-day period that payment is due under ORS 279C.580(4) and ending upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest charged to the Contractor or first-tier Subcontractor 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 the date when payment was received from the City of Roseburg or from the Contractor, but the rate of interest shall not exceed 30 percent. The amount of interest may not be waived.
- 3.3 If the Contractor or Subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with the 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. The Contractor shall announce the foregoing in any Subcontract issued.

4. HOURS OF LABOR - ORS 279C.520: No person shall 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 time and a half pay:

- 4.1 For all overtime worked in excess of 8 hours a day or 40 hours in any one week, when the work week is five consecutive days, Monday through Friday; or
- 4.2 For all overtime in excess of 10 hours a day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and
- 4.3 For all work performed on Saturday and on any legal holiday specified in ORS 279C.540, or all holidays specified in a collective bargaining agreement.

The Contractor must give notice to employees who perform work on the contract, in writing, 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, the number of hours per day and days per week that the employees may be required to work.

5. PAYMENT FOR MEDICAL CARE AND ATTENTION TO EMPLOYEES - ORS 279C.530:

- 5.1 The Contractor shall promptly as due, make payment to any person, co-partnership or association or corporation furnishing medical, surgical, and hospital care or other needed care and attention, incident to sickness or injury, to the employees of such Contractor, of all sums which the Contractor agrees to pay for such services and all monies and sums which the Contractor collected or deducted from the wages of employees pursuant to any law, contract or agreement for the purpose of providing or paying for such service.
- 5.2 The Contractor, its subcontractors, if any, and all employers providing work, labor or materials under this Contract who are subject employers under the Oregon Workers' Compensation Law shall comply with ORS 656.017, which requires them to provide workers' compensation coverage that satisfies Oregon law for all their subject workers. Out-of-state employers must provide workers' compensation coverage that complies with ORS 656.126 for their workers. Employer's Liability Insurance with coverage of not less than \$500,000 each accident shall be included.

6. PAYMENT TO SUBCONTRACTORS - ORS 279C.580:

- 6.1 The Contractor shall include in each subcontract for property or services entered into by the Contractor and a first-tier Subcontractor, including a material supplier, for the purpose of performing the public contract:
 - 6.1.1 A payment clause that obligates the Contractor to pay the first-tier Subcontractor for satisfactory performance under its subcontract within 10 days of payment by the City out of such amounts as are paid to the Contractor by the City of Roseburg under the contract; and
 - 6.1.2 An interest penalty clause that obligates the Contractor, if payment is not made within 30 days after receipt of payment from the City of Roseburg, to pay to the first-tier Subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the payment clause included in the subcontract pursuant to Paragraph 6.1.1 of this Subsection. A Contractor or

first-tier Subcontractor shall not be obligated to pay an interest penalty if the only reason that the Contractor or first-tier Subcontractor did not make payment when payment was due is that the Contractor or first-tier Subcontractor did not receive payment from the City of Roseburg or Contractor when payment was due. The interest penalty shall be:

6.1.2.1 For the period beginning on the day after the required payment date and ending on the date on which payment of the amount due is made; and

6.1.2.2 Computed at the rate specified in ORS 279C.515(2).

6.2 The Contractor shall include in each of its subcontracts, for the purpose of performance of such contract condition, a provision requiring the first-tier Subcontractor to include a payment clause and an interest penalty clause conforming to the standards set forth in Subsections 6.1.1 and 6.1.2 and requiring each of its Subcontractors to include such clauses in their subcontracts with each lower-tier Subcontractor or supplier.

6.3 None of the provisions of this Section 6 are intended to prevent the Contractor or any Subcontractor from including in its contracts the provisions described in ORS 279C.580(5) and (6).

7. DRUG TESTING - ORS 279C.505(2):

7.1 The Contractor shall demonstrate that an employee drug testing program is in place at the time of submitting its bid, and that such program will be maintained throughout the contract period, including any extensions. The failure of Contractor to have, or to maintain such a drug testing program is grounds for rejection of a bid or immediate termination of the contact.

7.2 The City of Roseburg shall not be liable, either directly or indirectly, in any dispute arising out of the substance or procedure of Contractor's drug testing program. Nothing in this drug testing provision shall be construed as requiring Contractor to violate any legal, including constitutional, rights or any employee, including but not limited to, selection of which employees to test and the manner of such testing. The City shall not be liable for Contractor's negligence in establishing or implementing, failure to establish or implement a drug testing policy, or for any damage or injury caused by Contractor's employees acting under the influence of drugs while performing work covered by the contract. These are Contractor's sole responsibilities and nothing in this provision is intended to create any third party beneficiary rights against the City.

8. PREVAILING WAGE PROVISIONS - ORS 279C.800 - 279C.870; 40 U.S.C. 3141 - 3148:

8.1 The hourly rate of wage to be paid by the Contractor and all Subcontractors to workers under the contract shall not be less than the prevailing rate of wage for an hour's work in the same trade or occupation in the locality where the labor is performed as set forth in the specifications for the public contract; provided however, if the public contract is also

subject to the Federal Prevailing Wage Rate pursuant to the Davis-Bacon Act (40 U.S.C. 3141 - 3148), then the higher of the two rates shall be paid. The Contractor will comply with the provisions of ORS 279C.840 and all applicable provisions of ORS 279C.800 to 279C.870 and/or the Davis-Bacon Act, 40 U.S.C. 3141 - 3148.

8.2 The Contractor or the Contractor's surety and every Subcontractor or the Subcontractor's surety shall file certified statements with the City in writing using the form prescribed by the Commissioner of the Bureau of Labor and Industries certifying the hourly rate of wage paid each worker whom the Contractor or the Subcontractor has employed in the Work under the contract and further certifying that no worker employed under such public contract has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the contract. The certified statement shall be verified by the oath of the Contractor or the Contractor's surety or Subcontractor or the Subcontractor's surety that the Contractor or Subcontractor has read the certified statement and knows the contents thereof and that the same is true to the Contractor's or Subcontractor's knowledge. The certified statements shall set out accurately and completely the payroll records for the prior week including the name and address of each worker, the worker's correct classification, rate of pay, daily and weekly number of hours worked, deductions made, and actual wages paid.

8.3 Each certified statement shall be delivered or mailed by the Contractor or Subcontractor to the City. A true copy of the certified statement shall also be filed at the same time with the Commissioner of the Bureau of Labor and Industries. Certified statements for each week during which the Contractor or Subcontractor employs a worker under the public contract shall be submitted once a month, by the fifth business day of the following month. Information submitted on certified statements may be used only to ensure compliance with the provisions of ORS 279C.800 to 279C.870. The City shall retain 25% of the amount earned by the Contractor if the certified statements are not submitted as required. The City shall pay the Contractor the amount retained within 14 days after the Contractor files the certified statements regardless of whether a Subcontractor has failed to file the required certified statements. The Contractor shall retain 25% of any amount earned by a first-tier Subcontractor until the Subcontractor has filed with the City, the required certified statements. The Contractor shall verify the first-tier Subcontractor has filed the certified statements before the Contractor may pay the Subcontractor any amount retained. The Contractor shall pay the first-tier Subcontractor the amount retained within 14 days after the Subcontractor files the required certified statements.

9. PUBLIC WORKS BOND REQUIREMENTS – ORS 279C.836:

9.1 If the public contract involves public works, unless exempt under ORS 279C.800 to 279C.870, prior to beginning work on the contract, the Contractor shall file with the Construction Contractors Board, a Public Works Bond in the amount of \$30,000 with a corporate surety authorized to do business in the State of Oregon.

9.2 Before allowing a Subcontractor to begin work under a public contract involving public works, for which the Contractor has been awarded the contract, the Contractor shall verify

that the Subcontractor has also filed a Public Works Bond with the Construction Contractors Board or elected not to file such bond as allowed by state law.

- 9.3** The Public Works Bond shall provide that the Contractor or Subcontract will pay claims ordered by the Bureau of Labor and Industries to workers performing labor under the public contract involving public works. The bond shall be a continuing obligation and remain continuously in effect.
- 9.4** If the Contractor or Subcontractor qualifies as a disadvantaged, minority, women, disabled veteran or emerging small business enterprise certified under ORS 200.055 and has elected not to file the Public Works Bond, the Contractor or Subcontractor will file written verification of such certification with the Construction Contractors Board. If the Contractor or Subcontractor elects not to file the Public Works Bond, before beginning any work on the public contract involving public works, the Contractor or Subcontractor shall provide the City and the Construction Contractors Board with written notification of such election.

10. DEMOLITION CONTRACTS; LAND AND LANDSCAPE MAINTENANCE - ORS 279C.510:

- 10.1** If the public contract includes demolition, the Contractor shall salvage or recycle construction and demolition debris, if feasible and cost effective.
- 10.2** If the public contract includes services for lawn and landscape maintenance, the Contractor shall compost or mulch yard waste material at an approved site.

11. DISCRIMINATION IN SUBCONTRACTING PROHIBITED; REMEDIES - ORS 279A.110:

- 11.1** The Contractor may not discriminate against a Subcontractor in the awarding of a subcontract because the Subcontractor is a minority, women, disabled veteran or emerging small business enterprise certified under ORS 200.055.
- 11.2** By entering into the contract, the Contractor certified it has not discriminated and will not discriminate, in violation of Subsection 11.1, against any minority, women, disabled veteran or emerging small business enterprise in obtaining any required subcontract.
- 11.3** If the Contractor violates the nondiscrimination certification made under Subsection 11.2, the City may regard the violation as a breach of contract that permits the City to terminate the contract or exercise any remedies for breach permitted under the contract.

12. HIGHEST STANDARDS; CONSEQUENCES FOR FAILURE – ORS 279B.060:

- 12.1** By entering into the Contract, Contractor agrees to perform the work to the highest standards prevalent in the industry or business most closely related to the work to be provided;
- 12.2** Contractor understands that failure to meet the highest standards in the industry may result in consequences including, but not limited to:

12.2.1 reducing or withholding of payment;

12.2.2 requiring Contractor to perform, at Contractor's own expense, additional work required to meet such standards; or

12.2.3 declaring a default, terminating the Contract and seeking damages and other relief available under the terms of the Contract or other applicable law.

13. COMPLIANCE WITH LAWS: The Contractor and Subcontractor shall comply with all federal, state and local laws, rules, ordinances and regulations at all times and in the performance of the contract.

**CITY OF ROSEBURG
PUBLIC WORKS BOND FILING CERTIFICATION**

Pursuant to ORS 279C.800 to 279C.870, I, undersigned contractor, do hereby certify that, prior to beginning work on the Project for which I have been awarded the bid by the City of Roseburg:

1. I have filed with the Construction Contractors Board (“Board”), a Public Works Bond in the amount of \$30,000 with a corporate surety authorized to do business in the State of Oregon.

_____ **Yes** _____ **No (Check one)**

2. I have elected not to file a Public Works Bond with the Board because I am a disadvantaged, minority, women, disabled veteran or emerging small business enterprise certified under ORS 200.055. I have provided the Board written verification of such certification and written notification of my election not to file the Public Works Bond. I understand that my election not to file the Public Works Bond will expire one year from the date it was filed and that a claim for unpaid wages may be filed against the payment bond I submitted on the Project.

_____ **Yes** _____ **No (Check one)**

3. I have verified any subcontractor involved in the Project has, prior to beginning any work on this Project, either filed the Public Works Bond with the Board or has elected not to file the Public Works Bond because the subcontractor is a disadvantaged, minority, women, disabled veteran or emerging small business enterprise certified under ORS 200.055.

_____ **Yes** _____ **No (Check one)**

(a) I have verified that any subcontractor involved in this Project that has elected not to file the Public Works Bond has provided the Board written verification of its certification under ORS 200.055 and written notification of its election not to file the Public Works Bond. _____ **Yes** _____ **No (Check one)**

I understand the Public Works Bond described above is in addition to any other bond that I am required to provide, or that may be required by a subcontractor, for this Project.

Project Name: _____

Project Number: _____

Contractor’s Printed Name: _____

Contractor’s Signature: _____

Dated: _____

**CITY OF ROSEBURG
STANDARD PERFORMANCE BOND**

Bond No.: _____
Solicitation: _____
Project Name: _____

_____ (Surety #1) Bond Amount No. 1: \$ _____
_____ (Surety #2)* Bond Amount No. 2: \$ _____
**If using multiple sureties* Total Penal Sum of Bond \$ _____

We, _____ as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns, firmly by these presents to pay to the City of Roseburg the sum of (Total Penal Sum of Bond)

_____ (Provided that 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), and

WHEREAS, the Principal has entered into a contract with the City of Roseburg, the plans, specifications, terms and conditions of which are contained in the above-referenced Solicitation;

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, 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 and specifications, and all authorized modifications of the Contract which increase the amount of the work, the amount of the Contract, or constitute an authorized extension of the time for performance, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal herein 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 undertaken by Contractor to be performed under the Contract, upon the terms set forth therein, and within the time prescribed therein, or as extended as provided in the Contract, with or without notice to the Sureties, and shall indemnify and save harmless the City of Roseburg and members thereof, its officers, employees and agents, against any direct or indirect damages or claim 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 Principal or its subcontractors, and shall in all respects perform said Contract according to law, then this obligation is to 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 Roseburg be obligated for the payment of any premiums.

This bond is given and received under authority of ORS Chapters 279A, 279B and 279C, the provisions of which hereby are incorporated into this bond and made a part hereof.

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

Dated this _____ day of _____, 2016.

PRINCIPAL: _____

By _____

Signature

Official Capacity

Attest: _____

Corporation Secretary

SURETY: _____

[Add signatures for each surety if using multiple bonds]

BY ATTORNEY-IN-FACT:

[Power-of-Attorney must accompany each surety bond]

Name

Signature

Address

City

State

Zip

Phone

Email

**CITY OF ROSEBURG
PAYMENT BOND**

Bond No.: _____

Solicitation: _____

Project Name: _____

_____ (Surety #1) Bond Amount No. 1: \$ _____

_____ (Surety #2)* Bond Amount No. 2: \$ _____

**If using multiple sureties* Total Penal Sum of Bond \$ _____

We, _____ as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns, firmly by these presents to pay to the City of Roseburg the sum of (Total Penal Sum of Bond)

_____ (Provided that 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), and

WHEREAS, the Principal has entered into a contract with the City of Roseburg, the plans, specifications, terms and conditions of which are contained in the above-referenced Solicitation;

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Payment 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 and 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 by the Contract, with or without notice to the Sureties, and shall indemnify and save harmless the City of Roseburg and members thereof, its officers, employees and agents, against any direct or indirect damages or claim 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 contribution due according to workers compensation requirements and the State Unemployment compensation Fund from the Principal or its subcontractors 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 do all things required of the Principal by the laws of this State, 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 Roseburg be obligated for the payment of any premiums.

This bond is given and received under authority of ORS Chapters 279A, 279B and 279C, the provisions of which hereby are incorporated into this bond and made a part hereof.

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

Dated this _____ day of _____, 2016.

PRINCIPAL: _____

By _____

Signature

Official Capacity

Attest: _____

Corporation Secretary

SURETY: _____

[Add signatures for each surety if using multiple bonds]

BY ATTORNEY-IN-FACT:

[Power-of-Attorney must accompany each surety bond]

Name

Signature

Address

City State Zip

Phone Email

LOWEST BIDDER RESPONSIBILITY DETERMINATION FORM
(TO BE COMPLETED BY THE CITY UPON NOTICE OF INTENT TO AWARD)

“**Lowest responsible bidder**” means the lowest bidder who is not on the list established by the Construction Contractors Board pursuant to ORS 701.227 and who has:

1. Substantially complied with all prescribed public contracting procedures and requirements of the State of Oregon and the City of Roseburg;
2. Met the standards of responsibility described in ORS 279B.110 and 279C.375, and Roseburg Municipal Code Chapter 3.06; and
3. Not been disbarred or disqualified from bidding or debarred by the State of Oregon under ORS 279B.130 or 279C.440, or by the City under the provisions of Roseburg Municipal Code Chapter 3.06.

Project Name: _____

Bid/Project Number: _____

Business Entity/ Bidder’s Name: _____

CCB License Number: _____

Form submitted by City of Roseburg.

Form submitted by:

Name: _____

Title: _____

Date: _____

The City has (check all of the following):

Checked the list created by the Construction Contractors Board under ORS 701.227 for bidders who are not qualified to hold a public improvement contract.

Determined whether the bidder has met the standards of responsibility. In so doing, the City has found that the bidder demonstrated that the bidder considered whether the bidder:

Has available the appropriate financial, material, equipment, facility and personnel resources and expertise, or the ability to obtain the resources and expertise, necessary to meet all contractual responsibilities.

Holds current licenses that businesses or service professionals operating in this state must hold in order to undertake or perform the work specified in the Contract.

Is covered by liability insurance and other insurance in amounts required in the

solicitation documents.

Qualifies as a carrier-insured employer or a self-insured employer under ORS 656.407, or has elected coverage under ORS 656.128.

Has disclosed the bidder's first-tier subcontractors in accordance with ORS 279C.370.

Has a satisfactory record of performance.

Has a satisfactory record of integrity.

Is qualified legally to contract with the City.

Has supplied all necessary information in connection with the inquiry concerning responsibility.

Determined the bidder to be (check one of the following):

Responsible under ORS 279C.375(3)(a) and (b).

Not responsible under ORS 279C.375(3)(a) and (b).

If the City has found the bidder not to be responsible, please see attached document explaining the City's determination.

Note: This form is to be submitted by the City of Roseburg to the Construction Contractors Board immediately following issuance of the City's Notice of Intent to Award the subject contract. A copy must immediately be filed with the City Recorder.

**BUREAU OF LABOR AND INDUSTRIES
PREVAILING WAGE RATES FOR PUBLIC WORKS CONTRACTS**

Prevailing Wage Rates are the minimum wages that must be paid to all workers employed in the construction, reconstruction, major renovation or painting of all public works, unless specifically exempted by state or federal law. Rather than including the entire State and/or Federal Prevailing Wage Rate publications in the bid specifications and contract, public entities may make reference to the specific prevailing wage rate publication where the prevailing wage rates are found or provide a link to the specific prevailing wage rate publication where the prevailing wage rates are found.

Oregon Bureau of Labor and Industries Prevailing Wage Rates applicable to the subject project/contract are available on BOLI's website at www.oregon.gov.boli. The prevailing wages to be applied throughout the duration of this project are those in effect for BOLI Prevailing Wage Rate Region 6, (Douglas County Oregon), upon the date the project is first advertised.

Federal Prevailing Wages Rates under the Davis Bacon Act (40 U.S.C. 3141 et seq.) may be found at www.wdol.gov. The prevailing wages to be applied throughout the duration of this project are those in effect for Federal Prevailing Wage Rates under the Davis Bacon Act (40 U.S.C. 3141 et seq.) at the time the initial specifications were first advertised for bid solicitations.

If the project is subject to both ORS 279C.800 to 279C.870 and to the Davis Bacon Act (40 U.S.C. 3414 et seq.), the contractor and every subcontractor shall pay the higher of the applicable state or federal prevailing rate of wage to all workers on the projects.

For specific information or questions regarding the Prevailing Wage Rate Law, you may log on to the above referenced websites or contact the nearest Oregon Bureau of Labor and Industries office listed below.

BOLI Office Locations

Eugene	1400 Executive Parkway, Eugene, OR 97401	541/686-7623
Medford	700 E. Main, Suite 105, Medford, OR 97504	541/776-6270
Portland	800 NE Oregon St., #32, Portland, OR 97232	503/731-4074
Salem	3865 Wolverine St. NE, Bldg. E-1, Salem, OR 97305	503/378-3292

**THIS PROJECT IS SUBJECT TO THE PREVAILING WAGE RATES PUBLISHED IN THE
"PREVAILING WAGE RATES FOR PUBLIC WORKS CONTRACTS IN OREGON
EFFECTIVE JANUARY 1, 2016 WITH APRIL 1, 2016 AMENDMENTS**

GENERAL CONDITIONS

1. DEFINITIONS.

1.1 Whenever used in these General Conditions or in the other Contract Documents, the following terms shall have the meanings indicated which shall be applicable to both the singular and plural thereof:

“**Acceptance**” means that the work has been completed in accordance with the Contract Documents and approved in writing by the Owner.

“**Act of God or Nature**” means a natural phenomenon of such catastrophic proportions or intensity as would reasonable prevent performance.

“**Addendum**” means any written document, signed by all parties, pertaining to additions, deletions, revisions or other issues with the Contract Documents issued after the Contract Documents have been issued.

“**Bid**” means the offer of a Bidder to perform the work described by the Contract Documents when made out and submitted on the prescribed Bid Form and properly signed.

“**Bidder**” means any person, firm, partnership, corporation, limited liability company, or other entity submitting a Bid for the work described hereunder.

“**Change Order**” means a document recommended by the Project Manager which is signed by the Contractor and the City and authorizes an addition, deletion or revision in the work or an adjustment in the Contract price or Contract times, issued on or after the effective date of the Contract.

“**City**” means the City of Roseburg located in the State of Oregon, and owner of the Project and work related thereto.

“**Contract Documents**” means and includes the Invitation to Bid, Information for Bidders, Bid Form, Construction Contract with Exhibit “A” Standard Contract Provisions, First-Tier Subcontractor Disclosure Form, Drug Testing Program Certification Form, Bidder’s Responsibility Form, Performance Bond, Payment Bond, Public Works Bond Filing Certification form (when required), General Conditions, Technical Provisions, Special Conditions, Standard Drawings, Specifications & Plans, and Supplemental Specifications all as required for the full execution and satisfactory completion of the Project.

“**Contractor**” means the firm, partnership, corporation, limited liability company, or other entity executing the Contract with the City for the performance of the work herein described.

“**Defective**” means, when modifying the word work, refers to work that is unsatisfactory, faulty or deficient in that it:

- a. does not conform to the Contract Documents, or
- b. does not meet the requirements of any applicable inspection, reference standard, test or approval referred to in the Contract Documents; or
- c. has been damaged prior to Project Manager's recommendation of final payment (unless responsibility for the protection thereof has been assumed by the City at Substantial Completion in accordance with the Contract Documents).

“Design Consultant” means the firm who prepared the Plans and Specifications and shall not mean the Project Manager.

“Final Completion” means that all work has been completed in conformance with the Contract Documents and the Contract has been fully performed.

“Holidays” means any Oregon legal holiday.

“Liquidated Damages” means that which is set forth in Subsection 6.9 herein.

“Milestone” means a principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all of the work.

“Payment Bond” means the approved form of security furnished by the Contractor and Contractor's Surety as a guarantee of good faith on the part of the Contractor to make all payments that are the Contractor's obligations, in accordance with the terms of the Contract.

“Performance Bond” means the approved form of security furnished by the Contractor and Contractor's Surety as a guarantee of good faith on the part of the Contractor to execute the work that is the Contractor's obligation, in accordance with the terms of the Contract.

“Plans” means and includes the City approved maps, standard drawings, work order drawings and supplemental drawings and sketches which are intended to show the locations, character, dimensions and details of the work to be done.

“Project” means all work described and specified herein and as indicated in the Contract Documents.

“Project Manager” means the City's authorized Project Manager for the Contract, as designated by the City Manager or Public Works Director, either acting directly or through a designated representative, within the scope of assigned tasks.

“Proposal Request” means a written statement issued by the Project Manager to the Contractor on or after the effective date of the Contract and signed by the City and the Contractor identifying additions, deletions or revisions in the work, or responding to differing or unforeseen subsurface or physical conditions under which the work is to be performed or to emergencies. A Proposal Request will not change the Contract price or the Contract times but is evidence that the parties expect that the change ordered or documented by a Proposal Request will be incorporated in a subsequently issued Change Order.

“Public Works Bond” means a \$30,000 form of security furnished by the Contractor and/or subcontractor and Contractor’s and/or subcontractor’s Surety to the Construction Contractors Board to pay claims ordered by the Bureau of Labor and Industries to workers performing labor under a public works project.

“Punch List” means a list developed by the Project Manager after Substantial Completion that identifies defects or deficient workmanship or work not completed in conformance with the Contract Documents.

“Request for Information” means a formal request from the Contractor to the Project Manager requesting clarification and/or direction necessary to complete the work.

"Specifications" means and includes the directions, provisions and requirements contained herein and referred to herein pertaining to the Project.

“Submittals” means all drawings, diagrams, material data, schedules and other information which are specifically prepared or assembled by or for the Contractor and submitted by the Contractor to illustrate some portion of the work.

“Substantial Completion” means that the degree of completion of the Project, or portion of the Project as evidenced by the Project Manager’s written notice of Substantial Completion, sufficient to provide the City, the full-time use of the Project, or portion of the Project, for the purpose for which it was intended. Determination of Substantial Completion is solely at the discretion of the Project Manager. Substantial Completion does not mean complete in accordance with the Contract nor shall Substantial Completion of all or any part of the Project entitle the Contractor to final acceptance under the Contract. The criteria the Project Manager may use in exercising his/her discretion in determining Substantial Completion includes, but is not limited to, the completion of all equipment contained in the Project, or portion of the Project, all other components necessary to enable the City to operate the facility in the manner that was intended.

"Superintendent or Foreman" means the executive representative of Contractor, authorized to receive and fulfill instructions from the Project Manager or Project Manager’s representatives.

"Supplemental Specifications" means specific instructions setting forth conditions or requirements peculiar to the Project under consideration when said Project is not completely covered by the Specifications referenced herein.

"Surety" means the person, firm, partnership, corporation, limited liability company or other entity that has the requisite authority to execute all of the bonds required from the Contractor.

2. CONTRACT DOCUMENTS

2.1 Award, Execution of Documents, Delivery of Bonds.

2.1.1 If awarded, the Contract will be awarded to the lowest responsive, responsible Bidder whose qualifications indicate the award will be in the best interest of the City and who's Bid complies with all the prescribed requirements. No award will be made until the City has concluded such investigations as the City deems necessary to establish the responsibility, qualifications and financial ability of the Bidders to do the work in accordance with the Contract Documents.

2.1.2 In determining the lowest responsive, responsible Bidder for the purpose of awarding the Contract the City, pursuant to ORS 279A.120, shall:

2.1.2.1 give preference to goods and/or services that have been manufactured or produced in Oregon if the price, fitness, availability and quality are otherwise equal; and

2.1.2.2 add a percentage increase on the Bid of a non-resident Bidder equal to the percent, if any, of the preference given to that Bidder in the state in which the Bidder resides.

2.1.3 The City reserves the right to reject any and all Bids not in compliance with all public bidding procedures and requirements or when such rejection is in the interest of the City; to reject the Bid of a Bidder who has previously failed to perform properly or complete contracts of a similar nature on time; and to reject the Bid of a Bidder who is not, in the opinion of the City, in a position to perform the Contract. If the Contract is awarded, the City will give the successful Bidder written notice of award within 45 days after Bid opening.

2.1.4 At least three (3) counterparts of the Construction Contract and such other Contract Documents as practicable will be signed by the City and Contractor. The Contractor shall receive one (1) executed counterpart of the Contract Documents.

2.1.5 When required by the specifications, the Contractor shall deliver simultaneously with the execution of the Contract Documents a good and

sufficient Payment Bond to ensure payment of the obligations incurred in the performance of the Contract; a Performance Bond to assure performance of the Contract; and the Public Works Bond Filing Certification form executed by the Contractor. No exceptions will be made to this provision.

2.1.6 Failure of the successful Bidder to execute the Contract Documents and deliver the required Payment Bond, Performance Bond and Public Works Bond Filing Certification form within ten (10) calendar days of the notification of the award of the Contract shall be just cause for the City to annul the award.

2.2 Correlation, Interpretation, and Intent of Contract Documents.

2.2.1 The intent of the Plans and Specifications as contained herein is to describe the complete Project which the Contractor shall undertake to do in full compliance with the Construction Contract including Exhibit "A", Plans and Specifications. The Contract Documents comprise the entire agreement between the City and the Contractor. The Contract Documents may only be altered as provided in these General Conditions of the Contract.

2.2.2 The Plans and Specifications are intended to be explanatory and complimentary of each other. Contractor shall execute any work indicated in the Plans and not in the Specifications, or vice versa, as if indicated in both. Should any work or materials be reasonably required or intended for carrying the Project to a satisfactory completion, which is inadvertently omitted on the Plans and Specifications, Contractor shall furnish the same as fully as if particularly delineated or described. Should it appear that the work to be done or any of the matters relative thereto are not sufficiently detailed or explained in the Contract Documents, the Contractor shall apply to the Project Manager for further explanations as may be necessary and shall conform thereto so far as may be consistent with the terms of the Contract. In the event any doubt or question arising respecting the true meaning of the Plans or Specifications, Contractor may seek a determination by the Project Manager according to Subsection 3.2 and Paragraph 3.3.3. Should the Contractor disagree with the Project Manager's decision, the Contractor may appeal to the City Manager in accordance with Paragraph 3.4.2. In resolving such conflicts, errors and/or discrepancies, the Contract Documents shall be given precedence in the following order: the Construction Contract including Exhibit "A", the Plans, and the Specifications. Within the Specifications, the order of precedence shall be as follows: General Conditions, Information for Bidders, Special Conditions and Technical Provisions.

2.2.3 Figure dimensions on Plans shall govern over scale dimensions, and detailed drawings shall govern over general drawings. Any work that may reasonably be inferred from the Plans and/or Specifications as being

required to produce the intended result shall be supplied whether or not it is specifically called for. Work, materials or equipment described in words which so applied have a well-known technical or trade meaning shall be deemed to reference such recognized standards. The Contractor assumes full responsibility for having familiarized itself with the nature and extent of the Contract Documents, work locality and local conditions that may in any manner affect the work to be done.

- 2.3 Verification and Warranty.** The Contractor shall make the determination of the nature of the work proposed under the Contract, local conditions which can be encountered within the Project area and all other matters which can in any way affect the work proposed under the Contract. It shall also be the responsibility of the Contractor to be thoroughly familiar with the Contract Documents. Failure to make the examination necessary for this determination or to examine any form, instrument or document of the Contract including Exhibit "A" shall not release the Contractor from the obligations of the Contract including Exhibit "A". The Contractor warrants that no oral or written agreement or conversation with any officer, agent or employee of the City, either before or after the execution of the Contract, has affected or modified any of the terms or obligations herein contained.
- 2.4 Documents to be Kept on the Jobsite.** The Contractor shall keep at least one (1) copy of the Contract Documents at the jobsite, in good order, available to the Project Manager.
- 2.5 Additional Contract Documents.** The City will furnish to the Contractor, on request and free of charge, up to three (3) copies of the Contract Documents. Additional copies of Contract Documents may be obtained upon request by paying the actual cost of reproduction.
- 2.6 Surveys.** When required for the Project, surveying and staking of the component parts of the work shall be as detailed in the Specifications and on the Plans. The Contractor shall construct the work in accordance with the construction stakes and shall be charged with full responsibility for conformity and agreement of the work with said construction stakes.

3. PROJECT MANAGER-CITY-CONTRACTOR RELATIONS

- 3.1 General.** The City has the authority to act as the sole judge of the work with respect to both quantity and quality as set forth in the Contract. It is expressly stipulated that the Plans, Specifications and other Contract Documents set forth the requirements as to the nature of the completed work and do not purport to control the method of performing work except in those instances where the nature of the completed work is dependent on the method of performance.
- 3.2** The Project Manager is the representative of the City and is employed to act as advisor and consultant to the City in project managing matters related to the Contract. The City has delegated its authority to the Project Manager to make

initial decisions regarding all claims and questions, which may arise as to the quality or acceptability of materials furnished and work performed and as to the manner of performance and rate of progress of the work under the Contract. The Project Manager determines the intent and meaning of the Contract and makes initial decisions with respect to the Contractor's fulfillment of the Contract and the Contractor's entitlement to compensation. Should the Contractor disagree with a decision of the Project Manager with respect to the Contract, the Contractor may request that the City Manager review the Project Manager's decision and make a determination in the manner provided under Paragraph 3.4.2.

The Project Manager may designate a field representative as an alternate in his/her capacity on the job site. All notifications required under the Contract shall be made directly to the Project Manager or the designated representative.

3.3 Duties and Responsibilities of the Project Manager.

3.3.1 The Project Manager will make periodic visits to the site of the Project to observe the progress and quality of the work and to determine, in general, if the work is proceeding in accordance with the intent of the Contract Documents. The Project Manager shall not be required to make comprehensive or continuous inspections to check the quality or quantity of the work, and shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Project. Visits and observations made by the Project Manager shall not relieve the Contractor of obligations to conduct comprehensive inspections of the work, to perform acceptable work and to provide adequate safety precautions.

3.3.2 The Project Manager or the field representative thereof will be assigned to periodically observe the work and to act in matters of construction under the Contract. It is understood the Project Manager or field representative shall have the power to issue instructions and make decisions within the limitations of the authority granted by the City. Such inspection shall not relieve the Contractor of obligations to conduct comprehensive inspections of the work, perform acceptable work and provide adequate safety precautions.

3.3.3 All claims of the Contractor shall be presented to the Project Manager or designated representative, for a decision which shall be made in writing within a reasonable time. All decisions of the Project Manager shall be final subject only to the Contractor's right to appeal the Project Manager's decision to the City Manager in the manner provided in Subsection 3.4.

3.4 Appeal to the City Manager by the Contractor.

3.4.1 Determination by Project Manager. As provided in Subsections 3.1, 3.2 and 3.3, the Contractor shall refer questions regarding meaning and intent

of the Contract Documents in writing to the Project Manager for its decision. The Project Manager shall, within a reasonable time, respond to the Contractor in writing with its decision. If the Contractor disagrees with the Contract Manager's decision or considers the decision requires extra work, Contractor may appeal the decision to the City Manager. Any related work performed by the Contractor prior to the Project Manager's decision is done at Contractor's risk unless otherwise authorized by the Project Manager.

3.4.2 City Manager Appeal Process. In the event the Contractor disagrees with any decision of the Project Manager, the Contractor may, within ten (10) calendar days of the date of such decision, appeal the decision to the City Manager for review. The appeal must be in writing and must set forth the questions referred to the Project Manager, the Project Manager's decision and the Contractor's basis for disagreement. The Contractor shall deliver a copy of the appeal to the Project Manager at the time it is filed with the City Manager. The City Manager shall make all reasonable efforts to review the appeal and deliver its decision in writing to the Contractor within thirty (30) calendar days from the date of receipt of the appeal. Failure of the Contractor to appeal the decision of the Project Manager within said ten (10) calendar day period constitutes a knowing and voluntary waiver of the Contractor's right to thereafter assert any claim resulting from such decision. This procedure is not meant to preclude or discourage informal resolution of disagreements between the Project Manager and the Contractor.

In the event the City Manager elects to do so, the City Manager may establish a "Claims Review Board" either to assist in reviewing an appeal hereunder or to consider Contractor appeals directly. Once established, the Claims Review Board will hear all future appeals of claims for this Contract.

During the pendency of any appeal, any related work performed by the Contractor shall be done at the Contractor's risk unless otherwise authorized by the Project Manager.

The filing of an appeal does not automatically extend the milestones and/or deadlines set forth in the Contract Documents and the Contractor continues to be subject to liquidated damages for failure to complete the Project within the time allotted.

In the event the City Manager or the Contractor commences arbitration or other legal action against the other for damages or for equitable relief, the prevailing party in such arbitration or other legal action is entitled to recover its reasonable attorney's fees therein and in any appeal therefrom.

The parties hereby stipulate and consent that venue for all arbitration or other legal actions arising under the Contract is in Douglas County, Oregon, and that jurisdiction for all legal actions that are brought in or transferred to

court is in the Douglas County Circuit Court of the State of Oregon; except, if a claim must be brought in a federal forum, then it must be brought and adjudicated solely and exclusively in the United States District Court for the District of Oregon located in Eugene, Oregon.

3.5 Suspension of Work. The Project Manager shall, in addition to its other authority, have the authority to suspend the work, wholly or in part, for such period or periods as may be deemed necessary due to unsuitable weather or such other conditions as are considered unfavorable for prosecution of the work, or failure on the part of the Contractor to carry out the provisions of the Contract. The Contractor shall not suspend operation without the permission of the Project Manager or Project Manager's authorized representative.

3.6 Notice of Potential Claim for Additional Compensation and/or Time.

3.6.1 The Contractor shall not be entitled to any additional compensation or extension of time for any act or failure to act by the Project Manager or the City, the happening of any event or occurrence or any other cause, unless the Contractor shall have given the Project Manager a written notice of potential claim.

3.6.2 The written notice of potential claim shall set forth the reasons for which the Contractor believes additional compensation or time will or may be due, the nature of the costs involved and insofar as possible, the amount of the potential claim. If based on an act or failure to act by the Project Manager or the City, except in case of emergency, such notice shall be given to the Project Manager prior to the time that the Contractor starts performance of the work giving rise to the potential claim for additional compensation. In all other cases, notice shall be given within ten (10) days after the happening of the event or occurrence giving rise to the potential claim.

3.6.3 It is the intention of this Section that differences between the parties arising under and by virtue of the Contract shall be brought to the attention of the Project Manager at the earliest possible time in order that such matters may be settled if possible or other appropriate action may be taken promptly.

3.7 Examination of Completed Work. If the Project Manager requests it, the Contractor at any time before acceptance of the Project by the City, shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the work to the standards required by the Contract Documents. Should the work thus exposed or examined prove to be in accordance with the Contract Documents, the uncovering or removing, the replacing of the covering or making good of the parts removed, shall be paid for by the City; but should the work so exposed or examined prove to be not in accordance with the Contract Documents, the uncovering or removing and the replacing of the covering or the making good of the parts removed, shall be at Contractor's expense. Should any work be performed without giving notice of plan

of work, thereby eliminating an opportunity of inspection by the Project Manager, the Project Manager may require the Contractor to uncover such work at Contractor's own expense for examination by the Project Manager. Cost of uncovering such work shall be borne by the Contractor, whether or not the work is found acceptable. The work shall also be subject to inspection by appropriate governmental inspectors at all times.

3.8 Contractor's Superintendent. A qualified superintendent, who is acceptable to the Project Manager, shall be maintained by the Contractor on the Project to give efficient supervision over the Project until its completion. The superintendent shall have full authority to act on behalf of the Contractor, and all directions given to the superintendent shall be considered given to the Contractor. In general, the Project Manager's instructions shall be confirmed in writing and always upon written request from the Contractor.

3.9 Information Regarding Existing Facilities and Utilities.

3.9.1 Facilities. Any information relative to the location of other structures as might be shown on the Contract Documents will be obtained from the best information available and field observations; however, the City cannot guarantee the accuracy or completeness of this information.

3.9.2 Utilities. The Design Consultant has endeavored to determine the existence of utilities at the job site from the records of positions of these utilities as derived from such records as are shown on the Drawings. No excavations were made to verify the locations shown for underground utilities. The service connections to these utilities are not shown on the Drawings. It is the responsibility of the Contractor to determine the exact location of all utilities and service connections thereto. The Contractor shall make its own investigations, including contacting the owners of appropriate utilities and making exploratory excavations to determine the locations and type of existing utilities, including service connections, prior to commencing work that could result in damage to such utilities and/or surrounding structures. The Contractor shall immediately notify the Project Manager as to any utility discovered by the Contractor that is not shown on the Drawings or that is in a different position than shown on the Drawings.

In the event it is necessary to remove, relocate or temporarily maintain a utility because of interference with the work, the Contractor shall perform the work on the utility and the City shall pay Contractor as follows:

3.9.2.1 When it is necessary to remove, relocate or temporarily maintain a service connection, the cost of which is not required to be borne by the owner thereof, the Contractor bears all expenses incidental to the work on the service connection. The Contractor shall perform the work on the service connection in a manner satisfactory to the owner

thereof; it being understood that the owner of the service connection has the option of doing such work with its own forces, or permitting the work to be done by the Contractor.

3.9.2.2 When it is necessary to remove, relocate or temporarily maintain a utility or underground obstruction that is in the position shown on the Drawings, the cost of which is not required to be borne by the owner thereof, the Contractor bears all expenses incidental to the work on the utility. The Contractor shall perform the work on the utility in a manner satisfactory to the owner thereof; it being understood that the owner of the utility has the option of doing such work with its own forces, or permitting the work to be done by the Contractor.

3.9.2.3 When it is necessary to remove, relocate or temporarily maintain a utility or underground obstruction that is not shown on the Drawings or is in a position different from that shown on the Drawings and were it in the position shown on the Drawings would not need to be removed, relocated or temporarily maintained, the cost of which is not required to be borne by the owner thereof, the City will make arrangements with the owner of the utility for such work to be done at no cost to the Contractor.

No representations are made that the obligations to move or temporarily maintain any utility and to pay the cost thereof, is or is not required to be borne by the owner of such utility, and it is the responsibility of the Contractor to investigate to determine whether or not said cost is required to be borne by the owner of the utility.

Governmental agencies and owners of utilities reserve the right to enter at any time upon any street, alley, right-of-way or easement for the purpose of making changes in their property made necessary by the work and for the purpose of maintaining and making repairs to their property.

3.10 Use of Premises

3.10.1 All work included under the Contract is to be constructed on land belonging to the City, on public right-of-way administered and regulated by state and/or local government or on easements to the benefit of the City or the public. The Contractor shall abide by special conditions or requirements of the property owner or governing authority. The Contractor shall confine equipment, the storage of materials and the operation of Contractor's workers to the limits as shown on the Plans or as indicated by law,

ordinances, permits or directions of the Project Manager and shall not unreasonably encumber the premises with materials.

3.10.2 Any additional land and access thereto which the Contractor might desire for temporary construction facilities or for storage of materials shall be provided by the Contractor with no liability to the City. The Contractor shall pay all costs involved in acquiring such rights and all clean up shall be made as required by these Specifications.

3.11 Private Property. The Contractor shall not enter upon private property for any purpose without obtaining permission and shall be responsible for the preservation of all public property, trees, monuments, etc. along and adjacent to the street and/or right-of-way, and shall use every precaution necessary to prevent damage or injury thereto. The Contractor shall use suitable precautions to prevent damage to pipes, conduits and other underground structures, including but not limited to, verifying with all appropriate utilities where underground structures are located, and shall protect carefully from disturbance or damage all monuments and property marks until an authorized agent has witnessed or otherwise referenced their location and shall not remove them until directed.

3.12 Assignment of Contract. Contractor shall not sublet, sell or assign the Contract or sublet any of the work to be performed hereunder without the written consent of the City. Any such assignment or subletting of any such work without City's consent shall be null and void and without force or effect.

3.13 City's Right to do Work. If, in the sole opinion of the Project Manager, the Contractor neglects to prosecute the work properly or neglects or refuses at Contractor's own cost, to take up and replace work that has been rejected by the Project Manager, the Project Manager shall notify the City who shall notify the Surety of the condition. After at least ten (10) calendar days written notice to the Contractor and the Contractor's Surety, or without notice if an emergency or danger to the Project or public exists, and without prejudice to any other right which the City may have under the Contract, the City may take over that portion of the Project which has been improperly executed, make good the deficiencies and deduct the actual costs thereof from the payments then or thereafter due the Contractor. If no amount is owed to the Contractor, then the City may still pursue all of its other legal and/or equitable remedies.

3.14 City's Right to Terminate Contract.

3.14.1 Upon occurrence of any one or more of the following, the City may terminate the Contract at any time, immediately or upon such notice as the City in its sole discretion deems appropriate, by providing

written notice to the Contractor which describes the reason for termination:

- 3.14.1.1** Contractor persistently fails to perform the work in accordance with the Contract Documents, including but not limited to, failure to supply sufficient skilled workers, suitable materials or equipment and failure to adhere to the progress schedule as the schedule may be revised from time to time;
 - 3.14.1.2** Contractor fails to comply with applicable laws or the provisions of any of the Contract Documents, including, but not limited to the Construction Contract with Exhibit "A" Standard City Contract Provisions;
 - 3.14.1.3** Contractor disregards the authority of the Project Manager;
 - 3.14.1.4** Contractor violates any provision of the Contract and, after receiving notice of the violation, fails to remedy the breach immediately; or
 - 3.14.1.5** Contractor files for bankruptcy under any chapter of the Bankruptcy Code (Title 11, United States Code); or a petition in bankruptcy is filed against Contractor under the Bankruptcy Code or any other provision of law seeking substantial relief; or Contractor makes a general assignment for the benefit of creditors; or a trustee, receiver or similar agent is appointed to take charge of Contractor's property for the benefit of creditors; or Contractor otherwise admits in writing to being unable to pay its debts as they become due.
- 3.14.2** Upon the City's issuance of written notice of termination, the Contractor shall immediately cease all work under this Contract, unless, as shall be specified in the notice, the City, in its sole discretion, would be harmed by any uncompleted work, in which case, Contractor shall complete those items specified by the City in its notice.
- 3.14.3** The City may terminate the Contract upon seven (7) days notice if the City determines for any reason that the completion of the Contract is no longer in the best interests of the City.
- 3.14.4** If the City terminates the Contract pursuant to Paragraph 3.14.1, the City may choose any remedy available to it under the Contract, applicable statutes, City Code or common law, including but not

limited to, completing the Project itself or through another contractor. The Contractor shall pay the City for all additional costs incurred by the City to obtain substitute performance. The Contractor shall be entitled to payment for that portion of the work that the Contractor completed according to the Contract, less the City's costs to obtain substitute performance for the balance of the work.

3.14.5 If the City terminates the Contract pursuant to Paragraph 3.14.3, the City shall pay Contractor for that portion of the work the Contractor has completed according to the Contract, plus Contractor's cost for materials ordered and delivered to the site before Contractor receives the City's notice of termination; provided that such materials shall then belong to the City.

3.15 Contractor's Right to Stop Work or Terminate Contract. The Contractor may suspend work or terminate the Contract upon ten (10) days written notice to the City, for any of the following reasons:

3.15.1 If an order of any court or other public authority caused the work to be stopped or suspended for a period of ninety days through no act or fault of the Contractor or his employees;

3.15.2 If the City should fail to act upon any request for payment within thirty days after its approval by the Project Manager; or

3.15.3 If the City should fail to pay the Contractor any sum within thirty (30) days after its award by arbitrators.

3.16 Rights of Various Interests. Wherever work being done by the City's forces is contiguous to work covered by the Contract, the respective rights of the various interests involved shall be established by the Project Manager to secure the completion of the various portions of the work in general harmony.

3.17 Subcontracts.

3.17.1 The Contractor shall not be permitted to subcontract any of the work to be performed under the Contract without the written consent of the City, submission of the First-Tier Subcontractor Disclosure Form as required prior to the Bid opening deadline and verification that the subcontractor has filed a Public Works Bond, when required, with the Construction Contractors Board prior to beginning any work on the Project. The Contractor shall not employ any subcontractor that the Project Manager may object to due to subcontractor lacking the capability of performing work of the type and scope anticipated. No changes will be allowed from the approved subcontractor list without approval of the Project Manager.

3.17.2 The Contractor agrees to be as fully responsible to the City for the acts and omissions of the Contractor's subcontractors or of any persons either directly or indirectly, employed by Contractor's subcontractors as Contractor is for the acts and omissions of persons directly employed by Contractor.

3.17.3 Nothing contained in the Contract Documents shall create any contractual relation between any subcontractor and the City.

3.18 Unforeseen Difficulties. The Contractor shall protect the work and materials from damage due to the nature of the work, the elements, carelessness of other contractors or from any cause whatever until completion and acceptance of the Project. All loss or damages arising out of the nature of the work to be done under the Contract Documents, from any unseen obstruction or defects which may be encountered in the prosecution of the work, or from the action of the elements, shall be sustained by the Contractor.

3.19 Work During an Emergency. The Contractor shall be responsible for and must have resources available for all emergency work which might occur on the Project under construction for which the Contractor is responsible. The Contractor shall perform any work and furnish and install any materials and equipment necessary during an emergency endangering life or property. In all cases the Contractor shall notify the Project Manager of the emergency as soon as practicable, but the Contractor shall not wait for instructions before proceeding to properly protect both life and property.

3.20 Oral Agreements. No oral order, objection, claim or notice by any party to the others shall affect or modify any of the terms or obligations contained in any of the Contract Documents. No provision of the Contract Documents shall be held to be waived or modified by reason of any act whatsoever, other than by a definitely agreed waiver or modification thereof in writing. No evidence shall be introduced in any proceeding of any other waiver or modification.

3.21 Liens and Claims Against Contractor. The Contractor shall not permit any lien or claim to be filled or prosecuted against the City on account of any labor or material furnished under this Contract whether the same be furnished by the Contractor or any subcontractor. If the Contractor fails, neglects or refuses to make prompt payment of any claim for labor or services furnished to the Contractor or a subcontractor by any person in connection with the Contract as such claim becomes due, the City may pay such claim to the person furnishing the labor or services and charge the amount of the payment against funds due or to become due to the Contractor under this Contract. The payment of a claim in this manner does not relieve the Contractor or its surety from obligation with respect to any unpaid claims.

Any claim, by a person claiming to have supplied labor or materials for the performance of the work, for payment asserted against the Contractor's payment bond must be asserted in conformity with ORS 279C.600 et. seq.

4. MATERIALS AND WORKMANSHIP

4.1 Materials to be Reviewed Before Use.

4.1.1 Only materials conforming with the specified requirements and conditionally accepted by the Project Manager shall be used in the Project.

4.1.2 Before any material to be used in the Project is delivered, the Contractor shall advise the Project Manager of the source from which the material is to be obtained, furnish such samples as may be required for testing purposes, and receive the Project Manager's conditional acceptance for the use of that particular material. The conditional acceptance of any source of supply by the Project Manager does not imply that all material from that source will be accepted. Should material from any conditionally accepted source fail to maintain a quality meeting the requirements of the Specifications, use of material from that source shall be discontinued and the Contractor shall furnish acceptable material from other sources. Regardless of the source, any material delivered for the Project which fails to meet the requirements will be rejected. Only material meeting all requirements will be allowed to be incorporated in the Project. Any material or item incorporated in the Project which does not meet requirements of the Contract Documents, even if it was used with the consent and/or the presence of an inspector, shall be removed and acceptable material shall be used in its place, with all costs related to such removal and installation being borne by the Contractor.

4.1.3 Any material which, after conditional acceptance, has for any reason become unsuitable for use shall be rejected and not used.

4.2 Tests of Materials.

4.2.1 All tests of materials shall be made in accordance with acceptable methods as described and designated in the Specifications. When tests of materials are required, such tests shall be made by a testing laboratory accepted by the Project Manager and at the expense of the Contractor. The Contractor shall afford such facilities as may be required for collecting and forwarding samples and shall hold the materials represented by the samples until tests have been made and the materials found equal to the requirements of the Specifications or to approved samples. The Contractor in all cases shall furnish the required samples without charge.

4.2.2 In the absence of any definite Specification or reference to a Specification in the Technical Specifications or in the Special Provisions for the particular Project involved, it shall be understood that such materials shall meet the Specifications and requirements of the American Society for Testing Materials. Unless otherwise specified, all tests of materials shall be made

in accordance with the methods prescribed by the American Society for Testing Materials.

4.2.3 In cases where compliance of materials or equipment with Contract requirements is not readily determinable through inspection and tests, the Project Manager shall request the Contractor provide properly authenticated documents, certificates or other satisfactory proof of compliance. These documents, certifications and proofs must cover performance characteristics, materials or construction and the physical or chemical characteristics of materials.

4.2.4 If the Specifications require, or the Contractor's request is approved by the Project Manager, inspection or testing may take place away from the job site. The additional cost to the City for such remote inspection or testing includes travel and subsistence expenses and will be paid by the Contractor through a reduction in payment to the Contractor equal to the travel and subsistence expenses. In the event the remote inspection or testing is not specified and is required by the City, the required travel and subsistence expense will be paid by the City.

4.3 Storage of Materials. Materials shall be so stored as to insure the preservation of their quality and fitness for the Project. When considered necessary, they shall be placed on wooden platforms or other hard, clean surfaces, and not on the ground, and/or they shall be placed under cover. Stored materials shall be located so as to facilitate prompt inspection. Private property shall not be used for storage purposes without the written permission of the City and the private property owner.

4.4 Character of Workers. The Contractor shall at all times be responsible for the conduct and discipline of Contractor's employees and/or any subcontractor or persons employed by subcontractors. All workers must have sufficient knowledge, skill and experience to properly perform the work assigned to them. Any foreman or worker employed by the Contractor or subcontractor who, in the opinion of the Project Manager, does not perform the work in a skillful manner, appears to be incompetent or acts in a disorderly or intemperate manner shall, at the written request of the Project Manager, be removed from work on any portion of the Project except as allowed by the Project Manager.

4.5 Construction Means, Methods, Techniques, and Procedures. The Contractor shall have the full power and authority to select the means, methods, techniques and procedures for performing the work covered under the Contract, provided said means, methods, techniques and procedures are in strict compliance with the requirements of all local, state and federal authorities and with these Specifications, and are not in conflict with the recommended installation practices of the manufacturers who are the suppliers of the materials to be utilized on the contemplated Project. The construction means, methods, techniques and procedures utilized shall produce a satisfactory quality of workmanship and shall

be adequate to maintain the schedule of progress as required under the provisions of these Specifications.

- 4.6 Contractor's Tools and Equipment.** The Contractor's tools and equipment used on the work covered under the Contract shall be furnished in sufficient quantity and of a capacity and type that will safely perform the work specified, and shall be maintained and used in a manner that will not create a hazard to persons or property, or cause a delay in the progress of the work.
- 4.7 Rejected Materials and Work.** Any material supplied by the Contractor which is condemned or rejected by the Project Manager or the Project Manager's authorized representative because of non-conformity with the Contract Documents shall be removed at once from the vicinity of the Project by the Contractor at his own expense, and the same shall not be used on the Project. Any defective work whether the result of poor workmanship, use of defective materials, damage through carelessness or any other cause shall be removed within ten (10) calendar days after written notice is given by the Project Manager, and the work shall be re-executed by the Contractor at its own expense.
- 4.8 Unnoticed Defects.** Any defective work or materials furnished by the Contractor and discovered by the Project Manager before the Project has been given final acceptance or final payment has been made, or during the guarantee period, shall be removed and replaced by work and materials which shall conform to the provisions of the Contract Documents. Failure on the part of the Project Manager or his/her representative to condemn or reject bad or inferior work or materials shall not be construed to imply acceptance of such work or materials.
- 4.9 Right to Retain Imperfect Work.** If any part or portion of the work done or material furnished by the Contractor under the Contract proves to be defective and not in accordance with the Plans and Specifications, and if the imperfection in the same is not of sufficient magnitude or importance as to make the work dangerous or unsuitable, or if the removal of such work will create conditions which are dangerous or undesirable, the City shall have the right and authority to retain such work but shall make such deductions in the payment therefore as may be just and reasonable.
- 4.10 Correction of Defective Work.** When, and as often as the Project Manager determines through its inspection procedures, material, equipment or workmanship incorporated in the Project do not meet the requirements of the Contract, the Project Manager may give notice of the noncompliance to the Contractor in writing. Within five (5) calendar days of receipt of such notice, the Contractor shall undertake all work necessary to correct the deficiency and to comply with the Contract. The Contractor agrees to pay all costs of correcting the defective work, including wages and overhead charges for inspection. If the Contractor disagrees with the Project Manger's determination and believes the corrective work should be covered by a Change Order, the Contractor shall immediately notify the City, in writing, setting forth the basis for its position. The City will review the matter and

notify the Contractor, in writing, of its determination within thirty (30) calendar days after receipt of the Contractor's notification. If the City determines the corrective work is required to comply with the Contract, the Contractor shall proceed with such work.

As a condition precedent to the Contractor's claim for either additional compensation or time extension or both resulting from the performance of such corrective work, the Contractor shall, within fifteen (15) calendar days after receipt of the City's determination, notify the City in writing of its intent to claim additional compensation, time or both. The Contractor shall document all cost information associated with the corrective work and shall submit such information to the Project Manager on a monthly basis. Receipt of the cost data by the Project Manager does not constitute an Acceptance of the corrective work or an authorization for a Change Order to cover the corrective work.

4.11 Cutting and Patching. The Contractor shall do, or be responsible for, all cutting, fitting or patching that may be required by, shown on or reasonably implied by the Plans and Specifications. Any defective work performed or material furnished by the Contractor, which is discovered by the Project Manager before final acceptance of the Project or before final payment has been made, shall be removed and replaced or patched at the Contractor's expense in a manner approved by the Project Manager or his representative.

4.12 Cleanup.

4.12.1 As the Project progresses and immediately after completion of the Project, the Contractor shall clean up and remove all refuse and unused materials of any kind resulting from the Project. If the Contractor fails to commence the cleanup within 24 hours after being directed to do so by the Project Manager, the Project Manager may have the cleanup performed by others. The cost shall be borne by the Contractor and may be deducted from payments due or to become due the Contractor.

4.11.2 After the Project is completed and before final acceptance of the Project, all areas affected by the Project shall be neatly finished and all equipment, temporary structures, rubbish and waste shall be removed from the Project area.

4.13 Guarantee.

4.13.1 The Contractor shall fully warrant all work for at least one (1) full calendar year from the City's Final Acceptance of the Project, regardless of the length of manufacturers' or installers' warranties.

4.13.2 In addition to any other warranties that are required, the Contractor shall make all necessary repairs and replacements to remedy any and all defects, breaks or failures of the work occurring within one (1) calendar year

following the date of the City's Final Acceptance due to faulty or inadequate materials or workmanship. Such repairs and replacements must conform to the Contract Specifications under which the Contractor originally performed the work.

4.13.3 In the event of a dispute regarding any portion of the work, the Contractor shall nonetheless provide any warranty service, repairs or replacements as described in Paragraphs 4.13.1 and 4.13.2 above, for that portion of the work that is not in dispute. In the event a dispute delays the City's Final Acceptance of the work, the warranty for portions of the work not in dispute runs from the date of the City's Final Acceptance of the remaining portions of the work.

4.13.4 The Contractor shall also repair any damage or remedy any disturbance to other publicly owned property or improvements thereon if caused by the Contractor's work and if the damage or remedy occurs during the warranty period.

4.13.5 If the Contractor performs warranty work, then the warranty work for repetitive defects in materials, workmanship or equipment also shall have a one (1) calendar year warranty period from the date of its completion and the City's Final Acceptance of that work. The Contractor shall continue to provide warranty work pursuant to the terms of the Contract until the defects are completed and the City provides notice of its Final Acceptance of the work.

4.13.6 The City shall provide the Contractor with written notice of the need to perform warranty work unless it is determined that an emergency exists, that delay would cause serious additional loss or damage, or if any delay in performing the work might cause injury to any member of the public. If the Contractor, after written Notice, fails within ten (10) calendar days to comply with the City's request, the City has the right to perform the warranty work either by hiring another Contractor or by using its own forces. In either event, the Contractor and its Surety remain liable to the City for the cost of the work performed and any additional damage suffered by the City.

4.13.7 The Contractor shall provide a bond during the one (1) calendar year warranty period to guarantee the Contractor's performance of warranty work. The Contractor shall provide to the City a bond in the amount of 20% of the final Contract Amount in one of the following ways:

4.13.7.1 Continuation of the Contract performance and payment bond.

4.13.7.2 Any new performance and payment bond, acceptable to the City, which covers the Contractor's warranty obligations imposed by the Contract Documents.

- 4.13.7.3 Cash deposit to the City Finance Department. A receipt from the City Finance Director constitutes proof of the deposit.
- 4.13.7.4 Other arrangements proposed by the Contractor that the City finds acceptable in the City's sole discretion.

5. **INSURANCE, LEGAL AND FINANCIAL RESPONSIBILITY, AND PUBLIC SAFETY**

5.1 **Insurance.**

5.1.1 Policy Requirements. The insurance policies specified herein shall be approved as to form by the City. Contractor shall deliver a certificate of all required policies to City upon execution of the Contract Documents and prior to commencement of any work under the Contract. If requested by the City, Contractor shall furnish the City with executed copies of such policies of insurance. Coverage provided by the Contractor must be underwritten by an insurance company deemed acceptable to the City. Insurance coverage shall be provided by companies admitted to do business in Oregon and rated A- or better by AM Best. A thirty (30) day notice of cancellation, termination or non-renewal in coverage clause shall be included in all insurance policies. Failure to maintain any required insurance coverage in the minimum required amount shall constitute a material breach of the Contract and shall be grounds for immediate termination of the Contract. If the insurer is unwilling or unable to provide such commitment, the Contractor shall provide the City with the relevant sections of its policies describing how the insurer may reduce, modify or cancel the insurance. Furthermore, the Contractor has an affirmative duty to provide the City with any notice the Contractor receives regarding the reduction, modification or cancellation of its insurance within 24 hours of Contractor's receipt of such notice. All policies required by these provisions shall:

- 5.1.1.1 also name the City as an additional insured, protecting City from any and all claims, losses, actions or omissions of Contractor or as a result of the joint concurring or contributory act, omission or negligence of Contractor and City arising with or related to activities specified under the Contract;
- 5.1.1.2 be written as primary policies, not contributing with, or in excess of, any coverage City may have; and
- 5.1.1.3 have loss payable clauses in favor of and reasonably satisfactory to City.

5.1.2 Commercial General Liability Insurance. During the performance of the Contract, Contractor shall obtain and maintain continuously in effect a commercial general liability insurance policy, including personal and advertising injury liability and products, completed operations and

construction site coverage, with a combined single limit per occurrence of not less than \$2,000,000. The aggregate limit shall not be less than \$4,000,000. The policy shall be endorsed to state that the aggregate limit of liability shall apply separately to the Contract. Coverage may be written in combination with Commercial Automobile Liability Insurance with separate limits for Commercial General Liability and Commercial Automobile Liability. If available, such policy shall contain a contractual liability endorsement to cover Contractor's indemnification obligations under the Contract. Claims Made policies will not be accepted.

5.1.3 Commercial Automobile Liability Insurance. At all times during the term of the Contract, and at the sole expense of Contractor, Contractor shall maintain continuously in effect, "Symbol 1" commercial automobile liability coverage covering all owned, non-owned and hired vehicles. This coverage may be written in combination with the Commercial General Liability Insurance with separate limits for Commercial Automobile Liability and Commercial General Liability. Combined single limit per occurrence shall not be less than \$2,000,000. If this coverage is written in combination with the Commercial General Liability, the aggregate limit for Commercial General Liability shall not be less than \$4,000,000 and the policy shall be endorsed to state that the aggregate limit of Commercial General Liability shall apply separately to the Contract.

5.1.4 Workers Compensation. At all times during the term of the Contract, and at the sole expense of the Contractor and subcontractors, the Contractor and all subcontractors shall comply with ORS 656.017, which requires them to provide Workers Compensation coverage for all their subject workers.

5.1.5 Pollution Liability. Contractor or appropriate subcontractor shall obtain, at their expense, and keep in effect during the term of the Contract, Pollution Liability Insurance covering their liability for bodily injury, property damage and environmental damage resulting from sudden accidental or gradual pollution and related cleanup costs incurred by the Contractor or appropriate subcontractor, all arising out of the work or services (including the transportation risk, when applicable) to be performed under the Contract. Combined single limit per occurrence shall not be less than \$2,000,000, with an annual aggregate limit of not less than \$4,000,000. If available, such policy shall contain a contractual liability endorsement to cover Contractor's indemnification obligations under the Contract. Claims Made policies will not be accepted.

5.2 Indemnification. The Contractor shall hold the City harmless from, and indemnify it for, all loss, costs, claims, demands, damages, suits, actions and judgments for property damage and/or personal injury, including death, arising out of the Project or performance under the Contract by the Contractor's agents or employees, or any of them. In any event any such action or claim is brought against City, Contractor shall, if City so elects, upon tender by City, defend the same at

Contractor's sole cost and expense, promptly satisfy any judgment adverse to City or to City and Contractor jointly and reimburse City for any loss, costs, damage or expense (including legal fees) suffered or incurred by City.

5.3 Taxes and Charges. The Contractor shall pay state and local sales and use taxes on all items as required by the laws and statutes of the state and its political subdivisions. The Contractor shall withhold and pay any and all withholding taxes, whether state or federal; pay all social security charges and state unemployment compensation charges; and pay or cause to be withheld, as the case may be, any and all taxes, charges, fees or sums whatsoever which are now or may hereafter be required to be paid or withheld under the laws.

5.4 Bid Bond, Payment Bond, Performance Bond and Public Works Bond.

5.4.1 Contracts for Under \$25,000.00. Except when required by the City Manager, and except for public improvement contracts, Bids on all public contracts under twenty-five thousand dollars (\$25,000.00) are exempt from the requirements for a Bid Bond, a Performance Bond to assure performance of the Contract and a Payment Bond to assure payment of the obligations incurred in the performance of the Contract. The Information for Bidders shall state when Bonds are required for contracts under \$25,000.00.

5.4.2 Contracts for \$25,000.00 or More. Except for public improvement contracts, or except when waived by the City's Council, Bids on all public contracts of twenty-five thousand dollars (\$25,000.00) or more, shall be accompanied by a Bid Bond, and the Contractor shall post a Performance Bond to assure performance of the Contract and a Payment Bond to assure payment of the obligations incurred in the performance of the Contract. The Information for Bidders shall state when the requirement for Bonds has been waived for contracts of \$25,000.00 or more.

5.4.3 Public Improvement Contracts & Contracts for Highways, Bridges and Other Transportation Projects:

5.4.3.1 Bids on Public Improvement contracts for one hundred thousand dollars (\$100,000.00) or less, and contracts for highways, bridges and other transportation projects for fifty thousand dollars (\$50,000.00) or less, are exempt from the requirement of a Bid Bond, a Performance Bond and a Payment Bond.

5.4.3.2 Bids on Public Improvement contracts for more than one hundred thousand dollars (\$100,000), and contracts for highways, bridges and other transportation projects for more than fifty thousand dollars (\$50,000), must be accompanied by a Bid Bond, Performance Bond and Payment Bond.

5.4.4 Emergency Contracts. For all contracts awarded under City's Municipal Code Subsection 3.06.025(F), the City Council or the City Manager may waive the requirements for Bid Bond, the Payment Bond and the Performance Bond. Upon receiving the City Manager's report regarding the emergency conditions necessitating waiver, as required by City's Municipal Code Subsection 3.06.025(F), the Council may modify or reject the City Manager's decision to waive Bond requirements.

5.4.5 Public Works Bond. Before beginning work on a public works contract, the Contractor and subcontractor, unless exempt under ORS 279C.800 to 279C.870, shall submit a \$30,000 Public Works Bond to the Construction Contractors Board and certify to the City that such Bond has been submitted. In case of an emergency, or when the City's interest or property would probably suffer material injury by delay or other cause, the requirement to file a Public Works Bond may be excused if the City Manager has declared an emergency under City's Municipal Code Section 3.06.025.

5.4.6 Submittal and Return of Bid Bonds. When required by the above Paragraphs, the Bid Bond shall accompany the Bid in the form of cash, certified check, cashier's check, irrevocable letter of credit or Bid Bond in a form approved by City, and in an amount equal to ten percent (10%) of the total amount of the Bid. There shall be no exceptions to this provision. All required Bid Bonds, excepting that of the Contractor submitting the successful Bid, will be returned within thirty days after the Contract has been awarded. The Bid Bond from the successful Contractor will be retained until Bidder has entered into a satisfactory Contract with the City, and when required, furnished a Performance Bond to assure performance of the Contract, a Payment Bond to assure payment of the obligations incurred in the performance of the Contract and the Public Works Bond Confirmation form executed by the Contractor. Should the successful Bidder fail or refuse to execute the Contract and/or furnish the Payment Bond, Performance Bond or Public Works Bond Confirmation form as required, the Bid Bond deposited by said Bidder shall be retained as liquidated damages by the City.

5.4.7 Bond Form. The form of all bonds required by the City shall be as the City may prescribe, and shall be with a Surety company satisfactory to the City and authorized to do business in the State of Oregon. Bonds shall be in force for one year after acceptance of the completed Project to cover all guarantees against defective materials and workmanship and all claims by subcontractors or third parties for services or materials provided to Contractor or Contractor's subcontractors.

5.5 Royalties and Patents. The Contractor shall pay all royalty and license fees, unless otherwise specified. The Contractor shall defend all suits or claims for

infringement of any patent rights and shall save the City and the Project Manager harmless from loss on account thereof.

5.6 Permits and Licenses.

5.6.1 The Contractor shall apply for and obtain, but the City shall cover the cost of, all rights-of-way permits, easements, franchises, highway crossing permits and railroad crossing permits as required. The Contractor shall comply with all specifications or requirements stipulated in the permits granted to the City.

5.6.2 The Contractor shall obtain at Contractor's expense, all other permits (such as building permits, burning permits, blasting permits and safety permits), licenses and inspection fees necessary for construction purposes as required by appropriate local, county, state or federal laws and/or ordinances. The Contractor shall also be registered to do business with the City of Roseburg prior to beginning work on the Contract.

5.7 Laws to be Observed. The Contractor shall keep fully informed of all local and county ordinances, state and federal laws in any manner affecting the Project herein specified. Contractor shall at all times comply with said ordinances, laws and regulations, and the City's Standard Contract Provisions in Exhibit "A" of the Construction Contract; and protect and indemnify the City and City's officers and agents against any claim or liability arising from or based on the violation of any such laws, ordinances, provisions or regulations.

5.8 Safety.

5.8.1 The Contractor will be solely and completely responsible for conditions of the jobsites, including safety of all persons and property during work on the Project. This requirement will apply continuously and not be limited to normal working hours. Safety provisions shall conform to all applicable federal, state, county and local laws, ordinances and codes. The Contractor shall comply with ORS 279C.505(2) drug testing program requirements at all times throughout the completion of the Project.

5.8.2 The Contractor shall also comply with the "U.S. Department of Labor Occupational Safety and Health Act", the "Construction Safety Act" administered by the U.S. Department of Labor, and the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America, except where these are in conflict with state laws, in which case the more stringent requirement must be followed.

5.8.3 Contractor shall comply with all federal, state and local safety requirements, including but not limited to regulations pertaining to health hazard notification, control of hazardous energy, use of hazardous substances, handling and disposal of hazardous waste, removal and disposal of

asbestos, entry into and work in confined spaces and handling of materials containing lead. City will notify Contractor of any hazardous conditions of which City is aware and will provide Contractor with information about City's safety and hazard notification programs. Such notification from the City does not relieve Contractor of any responsibility under the Contract or under federal or state statute, regulation or common law to inform itself of existing and potential hazards, to communicate those hazards to its employees, and to use all reasonable steps to minimize the risk of harm to its employees, other workers and the public.

- 5.8.4** The Contractor shall maintain at the jobsite all articles necessary for giving first aid to the injured and shall establish the procedure for the immediate removal to a hospital or a doctor's care of persons (including employees) who may be injured on the jobsite.
- 5.8.5** The duty of the Project Manager to conduct construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures in, on or near the construction sites.
- 5.8.6** If death, serious injuries or serious damages are caused, the accident shall be reported immediately by telephone or messenger to both the Project Manager and the City. In addition, the Contractor must promptly report in writing to the Project Manager all accidents whatsoever arising out of, or in connection with, work on the Project or adjacent to the sites, giving full details and statements of witnesses.
- 5.8.7** If any claim is made by anyone against the Contractor or any subcontractor because of any accident, the Contractor shall promptly report the facts in writing to the Project Manager, giving full details of the claim.
- 5.9 Equal Opportunity Clause.** The provisions of Executive Order 11246 of September 24, 1965, and the Rules and Regulations issued therein are hereby incorporated by reference, and the Contractor agrees, by acceptance of the Contract, to comply with such Executive Order, rules, regulations and amendments thereto, to the extent the same are applicable to the contracting and/or subcontracting of services or work hereunder.
- 5.10 Warning Signs and Barricades.** The Contractor shall provide adequate signs, barricades and lights and take all necessary precautions for the protection of the work under the Project and the safety of the public. All barricades and obstructions shall be protected at night by signal lights which shall be kept burning from sunset to sunrise. Barricades shall be of substantial construction and shall be painted white or whitewashed to increase their visibility at night. Suitable warning signs shall be so placed and illuminated at night as to show in advance where construction, barricades or detours exist.

- 5.11 Flaggers.** In addition to furnishing and maintaining adequate signs, barricades and lights, the Contractor is required to furnish any and all flaggers that are required to control traffic. The City is hereby specifically exempted from furnishing any flaggers for the Project. If flaggers are required on any jobsite, they shall be supplied by the Contractor at no additional cost to the City.
- 5.12 Public Safety and Convenience.** The Contractor shall at all times conduct work on the Project so as to insure the least possible obstruction to traffic and inconvenience to the general public and residents in the vicinity of the Project, and to insure the protection of persons and property in a manner satisfactory to the Project Manager. No road or street shall be closed to the public except with the permission of the Project Manager and proper governmental authority. Temporary provisions shall be made by the Contractor to insure the use of sidewalks and the proper functioning of all gutters, sewer inlets, drainage ditches and irrigation ditches, which shall not be obstructed except as approved by the Project Manager.
- 5.13 Protection of Work and City's Property.** The Contractor shall at all times safely guard the City's property and equipment from injury or loss in connection with Contractor's work under the Contract. The Contractor shall at all times safely guard and protect the Project and adjacent property (as provided by law and the Contract Documents) from damage. Contractor shall be responsible for any damage to the City's property and equipment which is a result of the Contractor's negligence.
- 5.14 Sanitary Provisions.** The Contractor shall provide and maintain such sanitary accommodations for the use of its employees and those of its subcontractors as may be necessary to comply with the requirements and regulations of the local and state departments of health and as directed by the Project Manager.
- 5.15 Payment of Prevailing Wages on Public Works in Oregon.**
- 5.15.1** The Contractor and all subcontractors on the Project shall pay not less than the "prevailing rate of wage" as that term is defined in ORS 279C.800 to 279C.870, and if applicable, the Federal Prevailing Wage required under the Davis-Bacon Act (40 U.S.C. 3141 - 3148), whichever is higher. The determination and application of such prevailing rate of wage is provided for in ORS 279C.800 through 279C.870, and if applicable, the Davis-Bacon Act (40 U.S.C. 3141 - 3148).
- 5.15.2** If the Bureau of Labor has made no determination of the prevailing rate of wage, it shall be the obligation of the Contractor to determine the same by making application to the Bureau of Labor or otherwise.
- 5.15.3** The Contractor or the Contractor's surety and every subcontractor or the subcontractor's surety shall file certified statements with the City in writing using the form prescribed by the Commissioner of the Bureau of Labor and Industries certifying the hourly rate of wage paid each worker whom the

Contractor or the subcontractor has employed in the work under the Contract and further certifying that no worker employed upon such public work has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract. The certified statement shall be verified by the oath of the Contractor or the Contractor's surety or subcontractor or the subcontractor's surety that the Contractor or subcontractor has read the certified statement and knows the contents thereof and that the same is true to the Contractor's or subcontractor's knowledge. The certified statements shall set out accurately and completely the payroll records for the prior week including the name and address of each worker, the worker's correct classification, rate of pay, daily and weekly number of hours worked, deductions made, and actual wages paid.

5.15.4 Each certified statement shall be delivered or mailed by the Contractor or subcontractor to the City. A true copy of the certified statement shall also be filed at the same time with the Commissioner of the Bureau of Labor and Industries. Certified statements for each week during which the Contractor or subcontractor employs a worker upon the public work shall be submitted once a month, by the fifth business day of the following month. Information submitted on certified statements may be used only to ensure compliance with the provisions of ORS 279C.800 to 279C.870 or the Davis-Bacon Act (40 U.S.C. 3141 - 3148), whichever applies.

5.15.5 As provided by ORS 279C.810, the contract amount threshold for application of the state prevailing wage rate law is \$50,000.00.

5.16 Subcontractor and Supplier Agreements. The Contractor shall include the following in its subcontracts for property or services entered into by the Contractor and a first-tier subcontractor, including a material supplier, for the purpose of performing the Contract:

5.16.1 A payment clause that obligates the Contractor to pay the first-tier subcontractor for satisfactory performance under its subcontract within ten (10) calendar days of payment by the City out of such amounts as are paid to the Contractor by the City under the Contract; and

5.16.2 An interest penalty clause that obligates the Contractor, if payment is not made within thirty (30) calendar days after receipt of payment from the City, to pay to the first-tier subcontractor, an interest penalty on amounts due in the case of each payment not made in accordance with the payment clause included in the subcontract pursuant to this requirement. The Contractor or first-tier subcontractor shall not be obligated to pay an interest penalty if the only reason that the Contractor or first-tier subcontractor did not make payment when payment was due, is that the Contractor or first-tier subcontractor did not receive payment from the City or Contractor when payment was due. The interest penalty shall be:

5.16.2.1 For the period beginning on the day after the required payment date and ending on the date on which payment of the amount is made; and

5.16.2.2 Computed at the rate specified in ORS 279C.515(2).

5.16.3 The Contractor shall include in each of its subcontracts, for the purpose of performance of the Contract condition, a provision requiring the first-tier subcontractor to include a payment clause and an interest penalty clause conforming to the standards set forth in this Section and requiring each of its subcontractors to include such clauses in their subcontracts with lower-tier subcontractors or suppliers.

5.16.4 None of the provisions of this Section are intended to prevent the Contractor or any subcontractor from including in its contracts, the provision described in ORS 279C.580 (5) and (6).

5.17 Application for and Processing of Subcontractor and Supplier Payments. The Contractor shall provide each first-tier subcontractor, including a material supplier, with a standard form that the first-tier subcontractor may use as an application for payment or as another method by which the subcontractor may claim a payment due from the Contractor. The Contractor, except as otherwise provided in this Subsection, shall use the same form and regular administrative procedures for processing payments during the entire term of the subcontract. The Contractor may change the form or the regular administrative procedures the Contractor uses for processing payments if the Contractor:

5.17.1 Notifies the subcontractor in writing at least 45 days before the date on which the Contractor makes the change; and

5.17.2 Includes with the written notice a copy of the new or changed form or a description of the new or changed procedure.

6. PROGRESS AND COMPLETION OF PROJECT

6.1 Contract Time and Commencement of Construction. The Contractor shall be capable of commencing construction on the Project covered under the Contract within ten (10) calendar days after signing of the Contract. The Contract shall be in effect from the time it is signed until the Project is complete and accepted by the City. During periods when weather or other conditions are unfavorable for construction, the Contractor shall pursue only such portions of the work that will not be damaged thereby. Contractor shall not construct any portion of the work during the time unfavorable conditions exist that are likely to adversely affect the quality or efficiency of the work. It is expressly understood and agreed by and between the Contractor and the City that the Contract time specified for completion of the work described herein is a reasonable time, taking into consideration the average

climatic and economic conditions and other factors prevailing in the locality of the work.

6.2 Preconstruction Conference. A preconstruction conference will be scheduled by the City prior to commencement of construction. The Contractor will be notified of the time and place of this conference and shall be required to attend. Ten (10) calendar days prior to the preconstruction conference, the Contractor shall provide to the Project Manager four (4) copies of a project work schedule for review and approval. The Contractor has an affirmative duty to update the construction schedule each time changes occur.

6.3 Prosecution of the Project.

6.3.1 It is expressly understood and agreed that the time of beginning, rate of progress and time of completion of the Project are of the essence of the Contract. The Contractor shall perform the construction of said Project with due diligence and at such a rate and in such a manner as, in the opinion of the Project Manager, is necessary for completion within the time set forth in Section 4 of the Contract.

6.3.2 After commencement of construction on the Project by the Contractor, if the Contractor is delayed by reason of the failure of the City to provide sufficient materials for construction thereof or to provide continuous open right-of-way, then the completion date of said Project shall be extended to the extent that the Contractor is delayed in carrying on said Project by reason of such failure on the part of the City.

6.3.3 The Contractor shall arrange its work and dispose of materials so as to insure the least possible interference and inconvenience to the landowners on or beside whose property the construction is taking place, or to the public where the construction lies in or near a public thoroughfare. Contractor shall employ only such number of construction crews as are reasonably necessary to construct said Project within the allotted time. The City may require the employment of an additional crew or crews, if in its judgment it is necessary in order to complete said Project with the time required.

6.3.4 If the Contractor desires to carry on work at night or outside the regular hours, timely notice shall be given to the Project Manager to allow satisfactory arrangements to be made for inspecting the Project in progress.

6.4 Provisions for Delays:

6.4.1 Notice of Delays. Whenever the Contractor foresees any delay in the prosecution of the work, and in any event, immediately upon the occurrence of any delay which the Contractor regards as unavoidable, Contractor shall notify the Project Manager in writing of the probability of the occurrence of

such delays, the probable duration and cause. The Contractor shall take immediate steps to prevent the occurrence or continuance of the delay. If this cannot be done, the Project Manager shall determine how long the delay will probably continue and to what extent the prosecution and completion of the work are being delayed thereby. The Project Manager shall also determine whether the delay is to be considered avoidable or unavoidable and shall notify the Contractor of his/her determination. The Contractor shall not make a claim for delays that are not called to the attention of the Project Manager at the time of their occurrence.

6.4.2 Avoidable Delays Defined. Avoidable delays in the prosecution or completion of the work include, but are not limited to:

6.4.2.1 All delays that could have been avoided by the exercise of care, prudence, foresight and diligence on the part of the Contractor or its subcontractor;

6.4.2.2 Delays that do not necessarily prevent or delay the prosecution of other parts of the work or the completion of the whole work within the time specified;

6.4.2.3 Reasonable delays resulting from time required by the City and Project Manager for approval of plans submitted by the Contractor and for the making of surveys, measurements, testing and inspections; and

6.4.2.4 Delays arising from interruptions occurring in the prosecution of the work on account of the reasonable interference from other contractors employed by the City which do not necessarily prevent the completion of the whole work within the time specified.

6.4.3 Unavoidable Delays Defined. Unavoidable delays in the prosecution or completion of the work include but are not limited to all delays (other than avoidable delays as defined above) that result from causes beyond the control of the Contractor and that could not have been avoided by the exercise of care, prudence, foresight and diligence on the part of the Contractor or its subcontractors. Delays caused by other contractors employed by the City will be considered unavoidable delays only insofar as they interfere with the Contractor's completion of the work. Delays due to normal weather conditions are not regarded as unavoidable delays insofar as they interfere with the Contractor's completion of the work. If the Project Manager determines the Contractor has experienced an unavoidable delay, and further that such delay has affected the controlling operations of the work, the City shall grant to the Contractor an extension of time for Contract performance, not to exceed the number of calendar days of unavoidable delay experienced by the Contractor. The Contractor has no remedy for

unavoidable delay except as provided by this Paragraph. Delays due to normal weather conditions are not regarded as unavoidable as the Contractor agrees to plan its work with prudent allowances for interference by normal weather conditions. Delays caused by acts of God, fire, unusual storms, flood, earthquakes, epidemics, quarantine restrictions, strikes, labor disputes and freight embargoes are considered unavoidable delays insofar as they interfere with the Contractor's completion of the work. Delays caused by shortages of materials are considered unavoidable providing the Contractor can prove to the City that the Contractor has made reasonable and timely attempts to secure the material(s).

A rainstorm, windstorm, high water or other natural phenomenon for the specific locality of the work, which might reasonably have been anticipated from historical records of the general locality of the work, do not constitute unusually severe weather. For the purposes of this Contract, rainfall data is assumed to be the same as that measured at the Roseburg Regional Airport by the Environmental Data Service of the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce.

6.4.4 Time Extension for Delays.

6.4.4.1 Extensions for Avoidable Delays. In case the work is not completed in the time specified, including extensions of time as may have been granted for unavoidable delays, the Contractor will be assessed damages for those costs incurred by the City that are attributable to the fact the work was not completed on schedule. The City may grant an extension of time for avoidable delay if the City deems it in its best interest. The Contractor shall compensate the City, in exchange for granting an extension of time for avoidable delay, for the actual costs to the City of Project management, inspection, general supervision and overhead expenses which are directly chargeable to the work and that accrue during the period of such extension. The actual costs do not include charges for final inspection and preparation of the final estimate by the City.

6.4.4.2 Extensions for Unavoidable Delays. For delays the Contractor considers unavoidable, the Contractor shall submit to the Project Manager, complete information demonstrating the effect of the delay on the controlling operation in its construction schedule. The submission must be made within ten (10) calendar days of the beginning of the occurrence which is claimed to be responsible for the unavoidable delay. The Project Manager shall review the Contractor's submittal and determine the number of calendar days of unavoidable delay, if any, and the effect of such delay on the controlling

operations of the work. If the Project Manager determines the Contractor has experienced an unavoidable delay, and further that such delay has affected the controlling operations of the work, the City shall grant to the Contractor an extension of time for Contract performance, not to exceed the number of calendar days of unavoidable delay experienced by the Contractor. The Contractor has no remedy for the unavoidable delay except as provided in this Section. During such extension of time, neither charges for the inspection nor administration nor damages for delay will be assessed against the Contractor. It is understood and agreed by the Contractor and the City that time extensions due to unavoidable delays involve controlling operations that would prevent completion of the whole work within the specified time.

If the Contractor disagrees with the Project Manager's determination, the Contractor may appeal such determination to the City Manager in accordance with Paragraph 3.4.2.

- 6.5 Changes in the Project.** The City may, as the need arises, order changes in the Project through additions, deletions or modifications without invalidating the Contract. Compensation and time of completion affected by the change shall be adjusted at the time of ordering such change.
- 6.6 Extra Work.** New and unforeseen items of work found to be necessary but which cannot be covered by any item or combination of items for which there is an established Contract price, shall be classified as extra work. Upon written order from the City and approval from the Project Manager, the Contractor shall do such extra work as may be required for the proper completion or construction of the whole Project contemplated. In the absence of such written order, no claim for extra work shall be considered. Extra work shall be performed in accordance with these Specifications where applicable and work not covered by the Specifications or special provisions shall be done in accordance with the best practice as approved by the Project Manager. Extra work required in an emergency to protect life and property shall be performed by the Contractor as required. The Contractor shall notify the Project Manager of the emergency as soon as possible, but shall begin work prior to providing notice if immediate work is necessary to protect life or property.
- 6.7 Unforeseen Difficulties.** A delay beyond the Contractor's control occasioned by an act of God, or by strikes, lockouts, fire, etc., may entitle the Contractor to an extension of time to complete the Project as determined by the Project Manager, provided however, that the Contractor shall immediately give written notice to the Project Manager of the cause of such delay. In no event shall the Contractor be entitled under the Contract to collect or recover any damages, loss or expense

incurred by any delay other than as caused by the City as stipulated hereinabove in Subsection 6.3 "Prosecution of the Project".

6.8 Use of Completed Portions. The City shall have the right to take possession of and use any completed or partially completed portions of the Project. Such use shall not be considered as final acceptance of any portion of the Project, nor shall such use be considered as cause for an extension of Contract completion time unless authorized by a change order issued by the City.

6.9 Liquidated Damages. If the Contractor fails to complete the work, or any part thereof, in the time agreed upon in the Contract or within such extra time as may have been allowed for delays by extensions granted as provided in the Contract, the Contractor shall reimburse the City for the additional expense and damage for each calendar day that the Contract remains uncompleted after the Contract completion date. It is agreed that the amount of such additional expense and damage incurred by reason of failure to complete the Contract is the per diem rate as stipulated in the Bid. The amounts are hereby agreed upon as liquidated damages for the loss to the City.

It is expressly understood and agreed that this amount is not to be considered in the nature of a penalty but as damages for delay which have accrued against the Contractor. The exact amount of damage that would be sustained by the City due to delay is difficult, if not impossible, to accurately ascertain, but the parties believe the specified amount of liquidated damages to be a reasonable forecast of the damage for delay that the City would likely sustain. Such liquidated damages are in addition to any other ascertainable damage, other than for delays that the City sustains for Contractor's breach of the Contract. The City may deduct such damages from any amount due, or that may become due the Contractor, or the amount of such damages becomes due and may be collected from the Contractor or its Surety.

6.10 Substantial Completion. Substantial Completion shall have the meaning set forth in Subsection 1.1 "Definitions" of these General Conditions.

Upon consideration by the Contractor that a determination of Substantial Completion of the Project, or a designated portion thereof, is completed, the Contractor shall so notify the Project Manager in writing. This notice shall include the Contractor's list of any minor incomplete contract work items to finish the Project. Upon receipt of the written notification, the Project Manager will promptly, by personal inspection, determine the actual status of the work in accordance with the terms of the Contract. If the Project Manager finds that the terms of Substantial Completion of the Contract have not yet been met, the Project Manager will so inform the Contractor. If, instead, the Project Manager determines from the inspection that the work, or the designated portion thereof, has met the terms of Substantial Completion, the Project Manager will issue to the Contractor a "Written Notice of Substantial Completion" along with a Punch List of any deficient work items needing repair or correction. The Contractor agrees to complete all

such corrective work within thirty (30) calendar days after submission of the Punch List to the Contractor by the Project Manager. If the Contractor fails to complete the corrective work within the thirty (30) calendar days, the Contractor is liable to the City in the amount stated in the liquidated damages section of the Contract for each day thereafter until all corrective work is completed. The City shall be entitled to deduct liquidated damages from final payment.

6.11 Final Completion. The Contractor shall notify the Project Manager in writing requesting a designation of Final Completion at the completion of the punch list items related to the Substantial Completion designation, and at the completion of any other items necessary to the completion of the Project. The Project Manager will inspect these remaining items, and upon satisfactory completion, will issue a written "Notice of Final Completion" which shall be subject to the City's Final Acceptance. In the event some items are not ready for the City's Final Acceptance the City may, without waiving any of the City's right to the portion(s) of the Project not yet receiving Final Acceptance, nonetheless provide Final Acceptance for those portion of the items of the Project the City deems appropriate. As stated in Subsection 4.13, the terms of the guarantee commence on the date of the City's Written Notice of Final Acceptance for that portion of the work.

7. MEASUREMENT AND PAYMENT

7.1 General.

7.1.1 All work acceptably completed under the Contract shall be measured by the Project Manager according to United States Standard Measures, and the quantities of work performed or materials furnished shall be computed on the basis of such measurements.

7.1.2 The Contractor shall accept the compensation as herein provided in full payment for furnishing all materials not provided by the City and all labor, tools and equipment; for performing all work under the Contract; for all loss or damage arising from the nature of the Project other than unforeseeable environmental conditions as described in ORS 279C.525, the action of the elements or any unforeseen difficulties which may be encountered during the prosecution of the Project, until its final acceptance by the City.

7.2 Payments. The City shall make monthly progress payments within thirty (30) calendar days for work which has been completed and accepted by the City per ORS 279C.570.

7.3 Final Payment. The City shall retain five percent (5%) of all payments until the entire Project has been given Final Acceptance by the City. The entire Project must be accepted by the City prior to releasing retainage. Upon the City's acceptance of the entire Project, the retainage will be released and the Contractor shall be responsible for the workmanship and materials for one year thereafter as provided in Subsection 4.13.

7.4 City's Right to Withhold Payment. The City may withhold payment in whole or in part on an approved invoice to the extent necessary to protect City from loss due to any of the following causes discovered subsequent to approval of the invoice by the Project Manager or the Project Manager's representative:

7.4.1 Defective work;

7.4.2 Evidence indicating the probable filing of claims by other parties against the Contractor;

7.4.3 Failure of the Contractor to make payments to subcontractors, material suppliers or workers; or

7.4.4 Damage to another contractor.

7.5 Payment for Uncorrected Work. Should the Project Manager direct the Contractor not to correct work that has been damaged or that was not performed in accordance with the Contract Documents, the City may make an equitable deduction from the amount due to the Contractor on the Project in order to compensate the City for the uncorrected work.

7.6 Payment for Extra Work. In any case where the Contractor deems additional compensation is due to the Contractor for work or materials not clearly covered in the Contract Documents or not ordered by the Project Manager according to provisions of the Contract Documents, the Contractor shall notify the Project Manager, in writing, of the Contractor's intention to make a claim in order that such matters may be settled, if possible, or other appropriate action promptly taken. If such notification is not given, or the Project Manager is not afforded proper facilities by the Contractor for keeping strict account of actual cost, then the Contractor hereby waives the claim for such extra compensation. Such notice by the Contractor, and the fact that the Project Manager has kept account of the cost as aforesaid, shall not in any way be construed as proving the validity of the claim. Claims for additional compensation shall be made in itemized detail and submitted, in writing, to the City and Project Manager within ten (10) calendar days following completion of that portion of the Project for which the Contractor makes its claim. In case the claim is found to be just, it shall be allowed and paid under a supplemental agreement to be entered into between the parties to the Contract.

7.7 Release of Liens.

7.7.1 Before the City pays the Contractor for the work included under the Contract, the Contractor shall sign and deliver to the City a release of liens or claims sworn to under oath and duly notarized. The release shall state that the Contractor has satisfied all claims and indebtedness of every nature in any way connected with the Project, including but not limiting the generality of the foregoing, all payrolls, amounts due to subcontractors,

accounts for labor performed and materials furnished, incidental services, liens and judgments.

7.7.2 If any lien or claim remains unsatisfied after payment to the Contractor is made, the Contractor shall refund to the City all monies that the City may be compelled to pay in discharging such a lien or claim, including all costs and reasonable attorneys' fees.

7.8 Acceptance of Payment Constitutes Release. The acceptance by the Contractor of a payment for the invoice shall release the City from all claims and liability to the Contractor for all things done or furnished in connection with the work specified on said invoice, and every act of the City and others relating to or arising out of the Project. No payment, however, final or otherwise, shall operate to release the Contractor or its Sureties from obligations under the Contract, the Performance Bond or the Payment Bond as herein provided.

7.9 Correction of Defective Work. The Project Manager's approval of the invoice for work completed and the City's payment to the Contractor on such invoice, shall not relieve the Contractor of the responsibility for faulty materials or workmanship on said work during the one-year guarantee period as stipulated in Subsection 4.13. The one-year guarantee period for each portion of the Project begins when each portion of the Project receives written notice of Final Acceptance from the City. The City shall promptly give notice of faulty materials or workmanship which are discovered within the one-year guarantee period and the Contractor shall promptly replace any such defects. If the Contractor fails to make the repairs and replacements promptly, the City may do the work, and the Contractor and Contractor's Surety shall be liable for the cost thereof.

8. ENVIRONMENTAL MATTERS

8.1 Contractor Compliance. The Contractor shall comply with, and require its subcontractors to comply with, all applicable federal, state and local statutes, ordinances, orders, rules and regulations relating to the protection of human health and environment, including but not limited to, the use, storage, release, spill, disposal or other handling of petroleum products and other hazardous substances.

8.2. Unanticipated Regulatory Compliance and Site Conditions.

8.2.1 If Contractor is delayed or additional work is required due to the enactment of new or an amendment to existing statutes, ordinances or regulations relating to the prevention of environmental pollution and the preservation of natural resources occurring after submission of the successful Bid, City may, at its sole discretion:

8.2.1.1 terminate the Contract;

8.2.1.2 complete the Project itself;

- 8.2.1.3** use non-City forces already under contract with the City;
 - 8.2.1.4** require that the underlying property owner be responsible for the additional work;
 - 8.2.1.5** call for Bids for a new contractor to provide the necessary services; or
 - 8.2.1.6** issue Contractor a Change Order setting forth the additional work that must be undertaken.
- 8.2.2** If Contractor encounters a condition not referred to in the Contract Documents, not caused by Contractor and not discoverable by a reasonable pre-Bid visual site inspection, and such condition requires compliance with the regulations referred to in Paragraph 8.2.1 above, Contractor shall immediately provide the City notice of the condition. Except as required by any environmental or natural resource regulation, or, in case of an emergency, Contractor shall not commence work or incur any additional job site costs with regard to the condition encountered without written direction from the City. Upon request, Contractor shall estimate emergency or regulatory compliance costs as well as the anticipated delay and costs resulting from the encountered condition, and promptly deliver such estimate to the City for resolution.
- 8.2.3** In the event of an occurrence of an unanticipated site condition as described in Paragraph 8.2.2 above, the City, within a reasonable period of time, may do any of the following at its sole discretion:
- 8.2.3.1** terminate the Contract;
 - 8.2.3.2** complete the Project itself;
 - 8.2.3.3** use non-City forces already under contract with the City;
 - 8.2.3.4** require that the underlying property owner be responsible for the additional work;
 - 8.2.3.5** call for Bids for a new contractor to provide the necessary services; or
 - 8.2.3.6** issue Contractor a Change Order setting for the additional work that must be undertaken.
- 8.2.4** In the event the City terminates the Contract under Subparagraph 8.2.1.1 or 8.2.3.1, Contractor shall be entitled to all costs and expenses incurred to the date of the termination, including overhead and reasonable profits, on

the percentage of the Project completed. Contractor shall not be entitled to profits or consequential damages on the uncompleted portion of the Contract. If the City chooses to issue a Change Order or terminate the Contract for either of the reasons set forth in Paragraph 8.2.1 or 8.2.3, Contractor agrees to provide the City access to Contractor's documentation used to prepare Contractor's Bid in order to assist the City in making the City's determination of the additional compensation to be paid.

9. CHANGE ORDERS.

9.1 Authorized Changes in the Work. Changes to the drawings, specifications, quantities or details of the Project are inherent in the nature of construction and may be necessary or desirable during the course of Project construction. Without impairing or invalidating the Contract, the City may at any time, without notice to any surety, by written order designed or indicated to be a Change Order or a Proposal Request, make any change in the work within the general scope of the Contract, including, but not limited to changes:

9.1.1 In the Plans and Specifications (including drawings and designs);

9.1.2 In the time, method, or manner of performance of the work;

9.1.3 In the City-furnished facilities, equipment, materials, services or site; or

9.1.4 Directing acceleration in the performance of the work.

9.2 Unauthorized Changes in the Work. The Contractor shall not be entitled to an increase in the Contract price or an extension of the Contract times with respect to any work performed that is not required by the Contract Documents as amended, modified or supplemented except in the case of an emergency. In the event of an emergency, the Contractor has seven (7) days to notify the Project Manager of the nature and extent of the emergency. If notification is not provided within seven (7) days, no time adjustment or cost compensation will be allowed.

9.3 Execution of Change Orders. The City and the Contractor shall execute appropriate Change Orders and Proposal Requests and upon receipt of an approved Change Order or Proposal Request, the Contractor shall perform the work as modified. If the Change Order increases the Contract amount, the Contractor shall notify Contractor's Surety of the increase and shall provide the City with a copy of any resulting modification to the Bond documents. Change Order and Proposal Requests shall clearly state all costs and schedule adjustments.

9.4 No Oral Change Orders. No oral order, statement or conduct of the City constitutes a Change Order or entitles the Contractor to an equitable adjustment.

9.5 Change of Contract Price.

- 9.5.1** The Contract price may only be changed by a Change Order.
- 9.5.2** The value of any work covered by a Change Order or of any claim for an adjustment in the Contract price will be determined as follows:
 - 9.5.2.1** Where the work involved is covered by the unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved; or
 - 9.5.2.2** Where the work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum; or
 - 9.5.2.3** Where the work involved is not covered by the unit prices contained in the Contract Documents and agreement to a lump sum is not reached under Subparagraph 9.5.2.2, time and materials basis plus the Contractor's fee for overhead and profit as defined in Paragraph 9.5.3.

9.5.3 Percentage Allowances. For work negotiated and completed on a time and materials basis the Contractor's maximum allowable percentage markup of such costs shall be as follows:

Materials	15%
Equipment	15%
Labor	20%
Special Services	15%

9.5.3.1 When a subcontractor performs work under a time and materials Change Order, the Contractor will be allowed a supplemental markup of 5% on the subcontractor's charges.

9.6 Lump Sum Change Orders. Whenever practicable, changes in Contract price resulting from extra work will be determined by a mutually agreed-upon lump sum price. The Contractor's proposal for such changes must include a detailed breakdown of all labor and materials to be performed by its forces and by the forces of its subcontractors and material suppliers.

Costs for labor, material, rentals, approved services, and for overhead and profit for the Contractor, subcontractor and material suppliers must be calculated as specified under the Subsection 9.7.

When the City desires a price quotation from the Contractor for a proposed change to the Contract, the Project Manager will issue a Proposal Request describing the proposed changes. The Contractor shall respond with a price quote within ten (10) calendar days of the issuance of the Proposal Request.

Contractor's quotations for Change Orders and Proposal Requests must be in writing and firm for a period of thirty (30) calendar days. Any compensation paid in conjunction with the terms of a Change Order compromises the total compensation due the Contractor for the modification defined in the Change Order. By signing the Change Order or Proposal Request, the Contractor acknowledges that the stipulated compensation includes payment for the modification plus all payment for the interruption of schedules, extended overhead, delay or any other impact claim or ripple effect, and by such signing specifically waives any reservation or claim for additional compensation or claim for Contract time extension in respect to the subject Change Order or Proposal Request.

The City's request for quotations on modifications to the work is not considered authorization to proceed with the work prior to the approval of a formal Proposal Request or Change Order, and such request does not justify any delay in existing work.

9.7 Time and Material Change Orders. Whenever the Contractor is directed by written notice from the Project Manager as the City's representative, to perform extra work on a time and material basis, the Contractor shall furnish labor, equipment and materials necessary to complete the work in a satisfactory manner and within a reasonable period of time. For the work performed, payment will be made for the documented actual necessary expense of the following:

9.7.1 Field and office labor, including estimating and procurement personnel and foremen, who are directly assigned to the time and materials work (actual payroll cost, including wages, fringe benefits as established by law). The cost of labor includes any employer payment to or on behalf of the worker for health and welfare, pension, vacation and similar purposes. Where subsistence and travel allowances are required for performance of extra work, the charges consist of the actual amount paid to each worker. No other fixed labor burdens will be considered unless approved in writing by the City.

9.7.2 Material delivered and used on the designated work, including sales tax, if paid by the Contractor or its subcontractor.

9.7.3 Rental or equivalent rental cost of equipment, including necessary transportation, for items having a value in excess of \$100. When equipment is not rented, the equivalent rental cost of equipment is based on the standard rental rates for Contractor-owned equipment, but in no event exceeds the rental rates set forth in the most current edition of the "Equipment Watch Rental Rate Blue Book", published by Penton Media. For equipment not listed in the Blue Book, the rental rate is as listed by the local section of the Associated General Contractors. If the equipment is not listed by the Associated General Contractors, the rental rate will be mutually agreed upon in writing between the Contractor and City prior to the use of the unlisted equipment. The reasonable cost of moving equipment onto

and off the job site may be included, but equipment rental will not be paid when the equipment is inoperative due to breakdowns. Individual pieces of equipment or small tools having a replacement value of \$100 or less are considered as included in the overhead allowances and no additional payment therefore will be made.

When equipment is used on the extra work for less than five (5) business days, hourly rates will be used. Less than thirty (30) minutes of operation are considered ½ hour of operation. When equipment is used on the extra work for more than five (5) business days, weekly rates apply. In this case, less than four (4) hours of operation is considered to be ½ calendar day of operation.

Rental or equivalent rental cost will be allowed for only those days or hours during which the equipment is in actual use. Rental and transportation allowances must not exceed the current rental rates prevailing in the locality. The rentals allowed for equipment are understood to cover all fuel, supplies, repairs, and renewals.

The City reserves the right to furnish such materials and equipment as it deems expedient, and the Contractor has no claim for profit or added fees on the cost of such materials and equipment.

- 9.7.4** The added fixed fees defined in Paragraph 9.5.3 constitute full compensation for the cost of general supervision, overhead, profit and any other general expense.
- 9.7.5** If a dispute occurs over payment for work provided on a time and material basis, the dispute is not cause for stopping work.
- 9.7.6** The Contractor shall maintain accurate and detailed records for all work performed on a time and materials basis. These records must reflect all the actual necessary expenses pertaining to the extra work and must at all times be available for audit by the City.
- 9.7.7** The Contractor shall make clear distinction in its records between the direct costs of work paid for on a time and materials basis and the costs of other work. The Contractor shall furnish the Project Manager report sheets in duplicate of each day's work that itemize the labor, materials and equipment used, and shall make the report sheets available for the City's review. The daily report sheet must provide names or identifications and classifications of workers, the hours worked, the sizes, types and identification numbers of equipment, and hours operated. Daily report sheets must be signed by the Contractor or its authorized agent and verified by the Project Manager.
- 9.7.8** To receive partial payments and final payment for time and materials work, the Contractor shall submit to the Project Manager, in a manner approved

by the Project Manager, detailed and complete documented verification of the Contractor's and any of its subcontractor's actual cost incurred. Material and rental charges must be substantiated by copies of vendors' invoices. Such costs must be submitted within thirty (30) calendar days after said work has been satisfactorily completed.

SPECIAL PROVISIONS

CITY OF ROSEBURG

SPRUCE ST. – PARROTT ST. IMPROVEMENTS
PROJECT NUMBER 15UR03

ROSEBURG, OREGON



i.e. Engineering, Inc.
809 SE Pine Street
Roseburg, OR 97470
(541) 673-0166

April 4, 2016

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SPECIAL PROVISIONS

WORK TO BE DONE

The work to be done under this contract consists of improvements within Spruce & Parrott Streets, Mosher, Lane, & Cass Ave, for the City of Roseburg, Project No. 15UR03

Construct SE Spruce St. from SE Mosher Ave. to SE Oak Ave., SE Parrott St. from SE Spruce St. to SE Oak Ave. and SE Cass Ave. from SE Parrott St. to SE Flint St. Street reconstruction shall include but not be limited to sewer main, water main, and storm drain replacement.

APPLICABLE SPECIFICATIONS

The Specifications, which are applicable to the work on this project, are:

- APWA/ODOT 2015 edition of the "Oregon Standard Specifications for Construction".

All number references in these special provisions shall be understood to refer to the Sections and subsections of the Standard Specifications and Supplemental Standard Specifications bearing like numbers and to Sections and subsections contained herein in their entirety. Standard Specifications not specifically addressed in these Special Provisions shall be complied with if applicable.

SECTION 00110 - TERMS, ABBREVIATIONS, AND DEFINITIONS

Comply with Section 00110 of the Standard Specifications modified as follows:

00110.00 Meaning of Terms – Add the following after the last bullet:

- This is a City of Roseburg and Roseburg Urban Sanitary Authority project. Substitute terms pertaining to:
 - Transportation Commission with Roseburg City Council
 - Engineer with Public Works Director or her authorized representatives
 - Department with the City of Roseburg
 - Other like terms with City of Roseburg substitutes
 - RUSA (Roseburg Urban Sanitary Authority) shall be substituted on above items for all items related to the Sewer Mainline Improvements.

SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES

Replace Section 00120 with the following:

00120.00 Prequalification of Bidders

The Oregon Department of Transportation (ODOT) will prequalify Bidders according to OAR 734-010 and OAR 731-005-0450. A Bidder must file for prequalification and pay a fee.

Prequalification must be renewed annually. Bidders shall make application for prequalification on standard forms furnished by ODOT's Procurement Office - Construction Contracts Unit, 455 Airport Road SE, Building K, Salem, Oregon 97301-5348 (telephone 503-986-2710). Bidders shall return the completed application and fee to the ODOT Procurement Office - Construction Contracts Unit.

Contracts will only be awarded to Bidders who, at the time of Bid Opening, are prequalified in the Class or Classes of Work specified in the Special Provisions, except that a Bidder whose prequalification has been revoked or revised as provided in ORS 279C.430(4) may also be eligible for Award under that statute if the Project was advertised prior to the revocation or revision. The Agency will consider a Bid from a Bidder whose complete application for prequalification has been received by the ODOT Procurement Office - Construction Contracts Unit at least 10 Calendar Days before the opening of Bids. Bidders shall submit Bids in the same company name used on the prequalification application; provided however, if Bidder's legal name has changed since the submittal of its application for prequalification, it shall submit its Bid under its current legal name with the former name referenced by "formerly known as". The Agency will regularly evaluate the performance of Contractors on its projects for purposes of responding to reference checks, future prequalification and determinations of responsibility.

All bidders and its subcontractors at time of bid submittal shall hold such licenses as required by State Statutes and Federal and Local Laws and Regulations and have a current, valid license issued by the Oregon Construction Contractors Board as required by ORS 701.055.

00120.01 General Bidding Requirements

Each Bid must be submitted on the prescribed Bid Form and delivered as specified in the Advertisement for Bid. The Bid Form must contain Signatures of personnel authorized to submit Bids, modify Bids, or withdraw Bids.

00120.05 Requests for Solicitation Documents

Informational Plans and Specifications (not for bidding) may be obtained from the Engineer at a fee. Copies of the Oregon Standard Specifications may be purchased at the ODOT Procurement Office - Construction, Contractor Plans, 455 Airport Road SE, Building K, Salem, Oregon 97301-5348 (telephone 503-986-6936).

(a) Paper Bids - Solicitation documents, including contract terms, conditions, specifications, all attachments and/or addenda for the Invitation to Bid are available for review at the above contact address. Bid documents will not be mailed to prospective bidders, but may be downloaded from the Oregon Procurement Information Network (ORPIN) through the following internet address: <http://orpin.oregon.gov/open.dll/welcome>. Bidders without access to ORPIN may download the documents at a Plan Center or the City of Roseburg's website at www.cityofroseburg.org under "Bidding Opportunities."

(b) Electronic Bids – Electronic Bids are not accepted by the City of Roseburg.

00120.10 Bid Booklet

The Bid Booklet may include, but is not limited to:

- Bidder's checklist
- Bid Section
- Appendix, which includes required time-sensitive forms, DBE information, sample forms, and other informational pages The Bid Section includes all pages after the Bidder's checklist and before the appendix. The Bid Section may include, but is not limited to:
 - Description and location of the proposed Project
 - Time, date, and location for opening Bids
 - Project completion time
 - Class of Project
 - Class of Work
 - Identification of applicable Supplemental Specifications and Special Provisions
 - Bid statement
 - Certificate of non-collusion
 - Certificate of residency
 - Certificate of compliance with Oregon tax laws
 - Bid Schedule
 - Identification of Bidder(s) and Sureties
 - Bid signature page
 - Bid Bond form
 - First-tier Subcontractor disclosure form

Depending on the Project, other certificates or statements may be bound within the Bid Section. Plans, Specifications, and other documents referred to in the Bid Section will be considered part of the Bid.

00120.15 Examination of Work Site and Solicitation Documents; Consideration of Conditions to be Encountered

Before submitting a Bid, Bidders shall carefully examine the site of the proposed Work, the Bid Booklet, Plans, and Specifications. Bidders should also contact Utility owners to verify all Utilities' anticipated involvement on the Project Site. Bidders are also encouraged to review any subsurface investigation material referenced in 00120.25 that may be available. Submission of a Bid will constitute confirmation that the Bidder has examined the Project Site and Solicitation Documents, finds the Plans and Specifications to be sufficiently detailed and accurate to enable Bidder to properly perform the Work, and understands the conditions to be encountered in performing the Work and all requirements of the Contract.

The Agency and its employees will not be responsible for loss or unanticipated costs suffered by the Bidder because of the Bidder's failure to become fully informed about all conditions of the Work, or failure to request clarification of Plans and Specifications Bidder believes to be erroneous or incomplete.

Any clarification of Plans and Specifications needed by the Bidder shall be requested by email through the Engineer. Requests shall be made no later than five calendars prior to the bid opening for the Agency's reply to reach all Bidders before Bid Closing. Oral explanations or interpretations given before receiving Bids for a Project will not be binding. To be binding, interpretation of the Plans and Specifications by the Agency must be made by written Addendum furnished to all Holders of Bidding Plans according to 00120.30. Notification of erroneous or incomplete Plans or Specifications shall also be submitted to the Engineer.

- Information pertaining to work on this project contact: **Alex Palm**, P.E., Engineer, i.e. Engineering, Inc., 809 SE Pine, Roseburg 97470. Phone: (541) 673-0166; FAX: (541) 440-9392. E-mail: palm@ieengineering.com.

00120.16 Material, Equipment, and Method Substitutions

When the Contract specifies certain Materials, Equipment, and/or methods, the Bidder shall include those Materials, Equipment, and/or methods in the Bid unless the Engineer has issued an Addendum granting approval to substitute. The procedure for requesting approval is as follows:

- (a) Written Request** - If a Bidder proposes to use Materials, Equipment and/or methods other than those specified, the Bidder shall send a written request to the Engineer, at least five Calendar Days prior to Bid Opening, including complete descriptive and technical information on the proposed Materials, Equipment and/or methods.
- (b) Functional Similarity** - Materials and Equipment proposed for substitution shall be similar in design, and equal or better in quality and function to those specified.
- (c) Manufacturer's Information** - If manufacturers' brochures or information is needed, the Bidder shall submit three copies of each with all pertinent information clearly marked.
- (d) Differences** - The Bidder shall specifically note all differences between the specified Materials, Equipment and/or methods and the proposed substitutes.
- (e) Cost** - Where a substitute will result in alteration of the design or space requirements, or any other modifications to the Plans, the Bidder shall include in the substitution request all items of cost for the revised design and construction.
- (f) Notification of Holders of Bidding Plans** - If the Engineer approves any proposed substitution, such approval, and any modifications necessitated to the design and construction by the substitution, will be acknowledged by Addenda. Unless the Engineer has approved substitutions of Materials, Equipment, and/or methods prior to opening of Bids, the Bidder shall furnish the items specified in the Contract. Substitution after Award is specified in 00180.31(b), 00180.31(c), and 00180.31(d).

00120.25 Subsurface Investigations

There was a limited subsurface investigation. A geotechnical report was made by the Gali Group Engineering Consultant. This report is attached to these specifications. It is the contractors' responsibility perform any additional subsurface investigations at their cost and

with required City permits. The City makes no guarantee as to the underground conditions. Asphalt and concrete thickness are known only at the points of investigation.

00120.30 Changes to Plans, Specifications, or Quantities before Opening of Bids

The Agency reserves the right to issue Addenda making changes or corrections to the Plans, Specifications, or quantities. The Agency will provide Addenda only by publishing them on the Agency's web site. See the ODOT web site page included with the Special Provisions for the web site address where the Addenda are available. Addenda may be downloaded from the web site. Bidders shall be responsible for checking the Agency web site for Addenda. Bidders should check the web site weekly until the week of Bid Closing and daily the week of Bid Closing. Bidders, not the Agency, shall be responsible for failure of Bidders to check and download Addenda. Bids shall incorporate all Addenda. Bids may be rejected if opened and found by the Agency to not be based on all Addenda published on the web site before Bid Closing.

00120.40 Preparation of Bids:

(a) General:

- (1) Paper Bids** - For Bids submitted by paper, the Bidders shall not alter, in any manner, the paper documents bound within the Bid Section. Bidders shall complete the certifications and statements included in the Bid Section of the Bid Booklet according to the instructions. Signature of the Bidder's authorized representative thereon constitutes the Bidder's confirmation of and agreement to all certifications and statements contained in the paper Bid Booklet. Entries on the paper documents in the Bid Section shall be in ink or typed. Signatures and initials shall be in ink, except for changes submitted by facsimile (FAX) transmission as provided by 00120.60 (in which case FAX signatures shall be considered originals).

The Bidder shall properly complete and bind all the paper documents in the Bid Section, as specified in 00120.10, between the front and back covers of the Bid Booklet, except that the Bid Bond is not required if another permissible type of Bid guaranty is provided. (see 00120.40(e))

- (2) Electronic Bids** – Electronic Bids are not accepted.

(b) Bidding Considerations - Bidders may refer to the following Subsections for requirements that may affect bidding considerations:

- 00120.80, Preference for Oregon Resident Bidders
- 00130.80, Restrictions on Commencement of Work
- 00150.55, Coordination of Work
- 00150.75, Protection and Maintenance of Work
- 00160.20(a), Buy America
- 00160.20(b), Buy Oregon
- 00180.20, Subcontracting Limitations
- 00180.21, Subcontracting
- 00195.50(a-1), Incidentals
- 00195.00(a), Cost of Insurance and Bonds

(c) Bid Schedule Entries:

(1) Paper Bid Schedule Entries - Using figures, Bidders shall fill in all blank spaces in the paper Bid Schedule. For each item in the paper Bid Schedule, Bidders shall enter the unit price and the product of the unit price multiplied by the quantity given. The unit price shall be greater than zero, shall contain no more than two decimal places to the right of the decimal point, and shall be expressed in U.S. dollars and cents (for example, \$150.25 or \$0.37). Bidders shall also enter the total amount of the Bid obtained by adding amounts for all items in the paper Bid Schedule. Corrections or changes of item entries shall be in ink, with incorrect entry lined out and correct entry entered and initialed.

(2) Electronic Bid Schedule Entries – Electronic Bid Schedules are not accepted.

(d) Bidder’s Address and Signature Pages - Bidders shall include in the Bid the address to which all communications concerning the Bid and Contract should be sent. The Bid must be signed by a duly authorized representative of the Bidder.

(e) Bid Bond - All Bids shall be accompanied by a Bid Bond per the requirements of Section 5.4 of the General Conditions in the amount of 10% of the total amount of the Bid.

(f) Disclosure of First-Tier Subcontractors - If a Bidder’s Bid on a public improvement Project exceeds \$100,000, the Bidder shall, within two working hours of the time Bids are due to be submitted, submit to the Agency, on a form provided by the Agency, a disclosure identifying any first-tier Subcontractors that will furnish labor or labor and Materials, and whose contract value is equal to or greater than:

- 5% of the total Project Bid, but at least \$15,000; or
- \$350,000, regardless of the percentage of the total Project Bid.

For each Subcontractor listed, Bidders shall state:

- The name of the Subcontractor;
- The dollar amount of the subcontract; and
- The category of Work that the Subcontractor would be performing.

If no subcontracts subject to the above disclosure requirements are anticipated, a Bidder shall so indicate by entering “NONE” or by filling in the appropriate check box. For each Subcontractor listed, Bidders shall provide all requested information. An incomplete form will be cause for rejection of the Bid.

The Subcontractor Disclosure Form must be submitted by filling out the Subcontractor Disclosure Form included in the Bid Booklet and submitting it together with the Bid at the time and place designated for receipt of Bid. Or within two hours of the time designated for receiving Bids.

Subcontractor Disclosure Forms submitted will be considered late if not received by the City of Roseburg within two working hours of the time designated for receiving Bids.

Bids not in compliance with the requirements of this Subsection will be considered non-responsive.

00120.45 Submittal of Bids

Bids may be submitted by mail, parcel delivery service, or hand delivery to the offices and addresses, and at the times given in the Bid Booklet. Submit Bids in a sealed envelope marked with the word “Bid”, the name of the Project, and the words “To Be Opened Only by Authorized Personnel” on the outside. If a delivery or courier service is used, the Bidder shall place the sealed envelope containing the Bid inside the delivery or courier service’s envelope. Closing time for acceptance of Bids is at the time on the day of the Bid Opening as stated in the Bid Booklet. Bids submitted after the time set for receiving paper Bids will not be opened or considered. The Agency assumes no responsibility for the receipt and return of late paper Bids.

00120.60 Revision or Withdrawal of Bids

Information entered into the Bid Booklet by the Bidder may be changed after the paper Bid has been delivered to the City of Roseburg, provided that:

- Changes are prepared according to the instructions identified in the Bid Booklet;
- Changes are received at the same offices, addresses, and times identified in the paper Bid Booklet for submitting Bids;
- The Bid number is included; and
- The changes are submitted in writing or by electronic facsimile (FAX) transmission to the FAX number(s) given in the paper Bid booklet, signed by an individual authorized to sign the Bid. FAX submittals received by the Agency shall constitute an original document.

A Bidder may withdraw its paper Bid after it has been delivered to City of Roseburg, provided that:

- The written withdrawal request is submitted on the Bidder’s letterhead, either in person or by FAX, and includes the Bid number;
- The request is signed by an individual who is authorized to sign the Bid, and proof of authorization to sign the Bid accompanies the withdrawal request; and
- The request is received at the same offices, addresses, and times identified in the paper Bid Booklet for submitting Bids.

00120.65 Opening and Comparing Bids

Bids will be opened and the total price for each Bid will be read publicly at the time and place indicated in the Notice to Contractors and the Bid Booklet. Bidders and other interested parties are invited to be present.

Bids for each Project will be compared on the basis of the total amount of each Bid. The total amount of the Bid will be the total sum computed from quantities listed in the Bid Schedule and unit prices entered by the Bidder.

In case of conflict between the unit price and the corresponding extended amount, the unit price shall govern, and the Agency may make arithmetic corrections on extension amounts.

00120.70 Rejection of Nonresponsive Bids

A Bid will be considered irregular and will be rejected if the irregularity is deemed by the Agency to render the Bid non-responsive. Examples of irregularities include without limitation:

- The Bid Section documents provided are not properly used or contain unauthorized alterations.
- The Bid is incomplete or incorrectly completed.
- The Bid contains improper additions, deletions, alternate Bids, or conditions.
- The Bid or Bid modifications are not signed by a person authorized to submit Bids or modify Bids, as required by 00120.01.
- The Bid is submitted on documents not obtained directly from the Agency's Plans office as identified in the Advertisement, or is submitted by a Bidder who has not been identified by the Agency as a Holder of Bidding Plans, as required by 00120.05.
- A member of a joint venture and the joint venture submit Bids for the same Project. Both Bids may be rejected.
- The Bid has entries not typed or in ink, or has signatures or initials not in ink (save for changes received by FAX as provided by 00120.60).
- Each change or correction is not individually initialed.
- White-out tape or white-out liquid is used to correct item entries.
- The price per unit cannot be determined.
- The Bid guaranty is insufficient or improper.
- The original Bid Bond form is not used or is altered.
- The Oregon Construction Contractors Board registration number and expiration date are not shown on the Bid if required in the Solicitation Document.
- A disclosure of first-tier Subcontractors, if required under 00120.40(f), is not received within two working hours of the time Bids are due to be submitted, or the disclosure form is not complete.
- The Bid does not acknowledge all issued Addenda.
- The Bid contains entries that are not greater than zero.
- The Bid contains entries with more than two decimals to the right of the decimal point.
- The Bid entries are not expressed in U.S. dollars and cents.
- The Agency determines that any Pay Item is significantly unbalanced to the potential detriment of the Agency.

00120.80 Reciprocal Preference for Oregon Resident Bidders

Bidders shall complete the certificate of residency provided by the Agency in the Bid Booklet. Failure to properly complete the form will be cause to reject the Bid.

As used in the certificate of residency and this Subsection, "Resident Bidder" means a Bidder who has:

- Paid unemployment taxes or income taxes in the State of Oregon during any of the 12 calendar months immediately preceding submission of the Bid;
- A business address in the State of Oregon; and
- Certified in the Bid that the Bidder qualifies as a Resident Bidder.

“Nonresident Bidder” means a Bidder who is not a Resident Bidder as defined above. In determining the lowest Bid, the Agency will, for the purpose of awarding the Contract, add a percentage increase to the Bid of a Nonresident Bidder equal to the percentage, if any, of the preference given to that Bidder in the state in which the Bidder resides (ORS 279A.120). The percentage preference applied in each state will be published on or before January 1 of each year by the Oregon Department of Administrative Services. The Agency may rely on these percentages without incurring liability to any Bidder (ORS 279A.120). This increase will only be applied to determine the lowest Bid, and will not cause an increase in payment to the Contractor after Award of the Contract.

00120.90 Disqualification of Bidders

The Bid(s) of a disqualified Bidder will be rejected. Any of the following reasons is sufficient to disqualify a Bidder:

- More than one Bid is submitted for the same Work by an Entity under the same or different name(s).
- Evidence of collusion among Bidders. Participants in collusion will be found not responsible, and may be subject to criminal prosecution.
- Any of the grounds for disqualification cited in ORS 279C.440.

A Bidder will be disqualified if the Bidder has:

- Not been prequalified as required by 00120.00;
- Been declared ineligible by the Commissioner of the Bureau of Labor and Industries under ORS 279C.860;
- Not been registered (licensed) by the Oregon Construction Contractors Board (CCB) or been licensed by the State Landscape Contractors Board before submitting a Bid (ORS 279C.365(1)(k), ORS 701.055, and ORS 671.530). The Bidder’s registration number and expiration date shall be shown in the Bid form, if requested. Failure to furnish the registration number, if requested, will render the Bid non-responsive and subject to rejection. (not required on Federal-Aid projects); or
- Been determined by the CCB under ORS 701.227 not to be qualified to hold or participate in a public contract for a public improvement.

00120.91 Rejection of Bid on Grounds of Nonresponsibility of Bidder

The Bid of a Bidder who is found to be nonresponsible according to the criteria listed in 00130.10 or ORS 279C.375(3) will be rejected.

SECTION 00130 - AWARD AND EXECUTION OF CONTRACT

Comply with Section 00130 of the Standard Specifications, modified and supplemented by the City of Roseburg General Conditions located within this booklet, and modified as follows:

Award of Contract – Notice of award will be sent within 45 calendar days from the opening of proposals.

SECTION 00140 - SCOPE OF WORK

Comply with Section 00140 of the Standard Specifications.

SECTION 00150 - CONTROL OF WORK

Comply with Section 00150 of the Standard Specifications modified as follows:

00150.10 Coordination of Specifications and Plans – Add the following before the first bullet:

- City of Roseburg General Contract Conditions and Special Conditions govern over all Standard Specifications Sections.

00150.15(b) Agency Responsibilities – Replace this subsection, except for the subsection number and title, with the following:

The Engineer will perform the Agency responsibilities described in the Construction Surveying Manual for Contractors, Chapter 1.5 (see Section 00305).

00150.15(c) Contractor Responsibilities – Replace this subsection, except for the subsection number and title, with the following:

The Contractor shall be perform all construction staking.

The Contractor shall perform the Contactor responsibilities described in the Construction Surveying Manual for Contractors, Chapter 1.6 (see Section 00305) and the following:

Perform earthwork including intersections and matchlines and set stakes defining limits for clearing.

00150.50(e) Notification - Add the following paragraph to the end of this subsection:

This Project is located within the Oregon Utility Notification Center area which is a Utilities notification system for notifying owners of Utilities about Work being performed in the vicinity of their facilities. The Utilities notification system telephone number is 811 (or use the old number which is 1 800 332 2344).

00150.60 Construction Equipment Restrictions - Add the following subsection:

00150.60(d) Access and Work Zone – Construction equipment access shall be limited to existing public right-of-way, and easements.

00150.70 Detrimental Operations – Replace the paragraph that begins "The Contractor shall avoid..." with the following paragraph:

The Contractor shall avoid operations whose methods, conditions, or timing may injure people or damage property or the Work. Damage may include without limitation, staining surfaces with mud or asphalt or damaging Utilities and foundations. (also see 00150.60, 00150.75, and Section 00170).

00150.80 Removal of Unacceptable and Unauthorized Work – Replace the paragraphs that begin "The Agency will not pay..." and "If, when ordered by..." with the following two paragraphs:

The Agency will not pay the Contractor for unacceptable Work, except as provided in 00150.25, or for unauthorized work. The Engineer may issue a written order for the correction or removal of such work at the Contractor's sole expense.

If, when ordered by the Engineer, the Contractor fails to correct or remove unacceptable Work or remove unauthorized work, the Engineer may have the correction, removal, or removal and replacement, done by others and deduct the entire cost from monies due or to become due the Contractor under the Contract.

SECTION 00160 – SOURCE OF MATERIALS

Comply with Section 00160 of the Standard Specifications.

SECTION 00165 - QUALITY OF MATERIALS

Comply with Section 00165 of the Standard Specifications modified as follows:

00165.03 Testing by Agency – Replace this subsection, except for the subsection number and title, with the following:

No testing will be performed by the City. All testing shall be the responsibility of the Contractor. The Contractor shall retain and pay for the service of an approved, recognized independent testing laboratory to conduct laboratory tests on materials and field testing to determine the relative compaction of trench backfill, subgrades, and asphalt concrete pavement, as required.

SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES

Comply with Section 00170 of the Standard Specifications modified as follows:

00170.02 Permits, Licenses, and Taxes - Add the following bullets:

- The City of Roseburg requires a Bulk Water Permit to be issued when using fire hydrants or other City devices to obtain water for construction or bulk purposes. A Bulk Water Permit is available from the City of Roseburg Public Works Department.
- City of Roseburg requires a permit for all street closures. Contractor is responsible for obtaining the permit and supplying any supplemental information as requested by the City.
- Contractor shall be licensed to do business in the State of Oregon and the City of Roseburg.

SECTION 00180 - PROSECUTION AND PROGRESS

Comply with Section 00180 of the Standard Specifications, supplemented by the City of Roseburg General Conditions located within this booklet, and modified as follows:

00180.20 Subcontracting Limitations- Replace this subsection, except for the subsection number and title, with the following:

(a) General - The Contractor's own organization shall perform Work amounting to at least 30% of the original Contract Amount. The value of subcontracted Work is the full compensation to be paid to the Subcontractor(s) for all pay items in the subcontract(s).

(b) Own Organization - The term "own organization", as used in Section 00180, includes only employees of the Contractor, Equipment owned or rented by the Contractor, Incidental rental of operated Equipment, truck hauling of materials, and Materials and Equipment to be incorporated into the Work purchased or produced by the Contractor.

(c) Rental of Operated Equipment - The use of Equipment rented with operators, except truck hauling of materials which is addressed in 00180.20(e), will be allowed without a subcontract only when the following requirements are met:

(1) Written Request - The Contractor has submitted to the Engineer a written request describing the work or service to be provided, its estimated cost, and the estimated duration. The Engineer must approve the request before the work or service is provided.

(2) Limitations - The use of Equipment rented with operators is limited to performing minor, Incidental, short-duration work or services under the direct supervision of the Contractor or subcontractor, with Equipment not customarily owned, leased, or operated by a Contractor, or with Equipment that is temporarily unavailable to the Contractor.

(3) Submittals - The Contractor shall provide the Engineer with a copy of the rental agreement or purchase order covering the work or service to be provided. The Contractor shall make certain that the provider of approved work or services submits payrolls required under Section 00170 and complies with applicable Contract provisions, including without limitation 00170.07. The work or service provider will not be considered a subcontractor under the Contract, but will be considered an agent of the Contractor in the performance of work or service.

(4) Revocation of Approval - The Engineer may revoke approval for the work or services provided through rented, operated Equipment at any time the Engineer determines that the work is outside that authorized under 00180.20(c-2). Unless the Contractor promptly submits to the Engineer a subcontract agreement for consent under 00180.21, the work or service provider shall be immediately removed from the Project Site.

00180.40 (b) On-Site Work - Add the following at the end of this subsection:

The Contractor shall perform no On-Site work between noon on the day preceding a legal holiday or holiday weekend and 8:00 a.m. on the day following the legal holiday or the last day of a holiday weekend, except for Thanksgiving, when no work may occur between noon on Wednesday and 8:00 a.m. the following Monday. For this section, legal holidays include: Memorial Day, Labor Day, Veterans Day and Thanksgiving, Christmas, and New Year's Eve Day.

Add the following subsection:

00180.40(c) Specific Limitations - Limitation of operations specified in these special provisions include, but are not limited to the following:

Limitations	Subsection
Cooperation with Utilities	00150.50
Cooperation with Other Contractors	00150.55
Contract Completion Time	00180.50(h)
Traffic Lane Restrictions	00220.40(e)
Special Events	00220.40(e)
Maintenance Under Traffic	00620.43
Opening Sections to Traffic	00745.51

Be aware of and subject to schedule limitations in the Standard Specifications and supplemental Standard Specifications which are not listed in this subsection.

00180.41 Project Work Schedule - After the paragraph that begins "One of the following Type..." add the following paragraph:

In addition to the "look ahead" Project Work schedule, a Type A schedule as detailed in the Standard Specifications is required on this Contract.

00180.50(c) Beginning of Contract Time – Replace this subsection, except for the subsection number and title, with the following:

When the Contract Time is stated in Calendar Days, counting of Contract Calendar Days will begin with the issuance of the Notice to Proceed.

Add the following subsection:

00180.50(h) Contract Time – The Contractor shall complete all Work to be done under the Contract, not later than November 1, 2016.

00180.85(b) Liquidated Damages - Add the following paragraph:

Liquidated damages for failure to complete the Work on time required by 00180.50(h) will be \$1,000.00 per Calendar Day.

SECTION 00199 - DISAGREEMENTS, PROTESTS, AND CLAIMS

Delete Section 00199 of the Standard Specifications. Refer to the City of Roseburg General and Special Conditions.

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

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

00220.03(a) Work Zone Notifications – Delete subsection (a) and substitute the following:

(a) Road Closures – If public streets are to be closed for any duration, obtain the required permits from the City’s Public Works Department and comply with all requirements

including any notification requirements for the affected residences and required public notifications. Generally, provide a 72 hour initial public notification published in the local paper, broadcast on at least one local radio station, and published in the News-Review. Maintain access for residences and school employees.

00220.40(c) Driveways – Add the following bulleted item(s):

- Coordinate with residences when closing access to property at least 24 hours in advance.
- Provide temporary access once excavation is past by use of steel plates, aggregate or other approved method. Protect and delineate access by use of traffic cones.
- Traffic shall not be placed on any driveways until concrete has reached 70-percent of the specified compressive strength. This may require high, early concrete, which will be at the discretion of the Contractor.

00220.40(d) Adjacent to Excavations – Delete the bulleted items and add the following:

- At the end of each working day, backfill the trench in areas completed to match the existing surface with permanent backfill material. Cover with steel plates areas where further work will continue. At the end of each work week, temporary patch excavated trench with AC. After all work is completed and laterals re-connected, complete permanent patch.
- Delineate excavation with traffic cones spaced at 25' max.
- **00220.40(e) Lane Restrictions** - See traffic plan sheets TC.1 thru TC.4

Add the following bullets to the end of the bullet list:

- Provide notice to business and residents of upcoming construction at least 2 weeks, but no more than 4 weeks before construction is expected to begin in front of their property. The notice will be on an approved form or letter. The notice shall include the Project name, the name and address of the Contractor, daytime and emergency phone numbers, daytime Project contact person's name and an emergency contact person's name. If other means of delivery are not effective, the notice shall be hung on a business's or resident's building in a waterproof plastic bag. The notice letter shall be approved by the City prior to disseminating.
- Do not place work zone signs or sign supports that will block existing driveways, walkways or existing bikeways, except at the closure point of a driveway, walkway or bikeway

SECTION 00225 - WORK ZONE TRAFFIC CONTROL

Comply with Section 00225 of the Standard Specifications, modified as follows.

00225.02 General Requirements – Delete all paragraphs after the third paragraph of this subsection which begins with Install a 48 inch "TRUCKS" sign....

00225.41(b-4) Temporary Sign Supports - Replace the bullet that begins "Do not tip over TSS..." with the following bullet:

- Do not tip over any TSS that is exposed to traffic, unless approved by the Engineer or the TSS is protected from traffic by a barrier system.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications modified as follows:

SECTION 00305 – CONSTRUCTION SURVEY WORK

Section 00305, which is not a Standard Specification, is included for this Project by Special Provision.

Description

00305.00 Scope - Provide construction survey work according to the current edition on the date of Advertisement, of the ODOT "Construction Surveying Manual for Contractors". This manual is available on the web at:

<http://www.oregon.gov/ODOT/HWY/GEOMETRONICS/Pages/documents.aspx>

Measurement

00305.80 Measurement - No measurement of quantities will be made for construction survey work.

Payment

00305.90 Payment – Construction survey work is a lump sum item. Lump sum payment shall be for all work being performed for construction survey work performed by the Contractor.

Payment will be payment in full for furnishing all material, equipment, labor, and incidentals necessary to complete the work as specified.

No separate or additional payment will be made for any temporary protection and direction of traffic measures including flaggers and signing necessary for the performance of the construction survey work.

No separate or additional payment will be made for preparing surveying documents including but not limited to office time, preparing and checking survey notes, and all other related preparation work.

Costs incurred caused by survey errors will be at no additional cost to the Agency. Repair any damage to the Work caused by Contractor's survey errors at no additional cost to the Agency.

Oregon Bureau of Labor and Industries (BOLI) defines surveyors as a laborer. Therefore, they are included into the current Prevailing Wage Rates.

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

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

00310.00 Scope – This work consists of removing and disposing of man-made materials and cleaning up areas they occupy. This item will include the removal and disposal of existing streets, curbs, sidewalks, fences, retaining walls, drainage, and sewer facilities identified to be removed.

Sawcutting shall be considered incidental work to be included in the removal of structures and obstructions.

00310.02 Exclusions: - Add the following bullets:

- Items to be removed that are wholly or partially located within the alignment of the new pipe installation are considered incidental to other items of work under the Contract.

00310.41 Removal Work:

(a) General - Replace this subsection, except for the subsection number and title, with the following:

Where an abutting structure or part of a structure is to be left in place, make clean, smooth, vertical cuts with a saw or other approved cutting device. Avoid operations that may damage any portion of the remaining structure.

00310.92 Separate Item Basis – Replace this subsection, except for the subsection number and title, with the following:

The accepted quantities of removal work done on a separate item basis will be paid for at the Contract unit price, per unit measurement, for the following items:

PAY ITEM	UNIT OF MEASURE
(a) Removal of Structures and Obstructions.....	Lump Sum
(b) Removal of 6” Concrete Base.....	Square Yard

SECTION 00320 – CLEARING AND GRUBBING

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

00320.80 Measurement – Replace this subsection, except for the subsection number and title, with the following:

Measurement shall be on a separate item basis, measured as follows:

- **Each** – Items will be measured on a unit basis of units removed.

00320.90 Payment – Replace this subsection, except for the subsection number and title, with the following:

PAY ITEM	UNIT OF MEASURE
(a) Clearing and Grubbing... ..	Lump Sum

SECTION 00330 - EARTHWORK

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

00330.93 Payment – Add the following pay item(s):

PAY ITEM	UNIT OF MEASURE
(a) General Excavation.....	Cubic Yard
(b) Structure Excavation.....	Lump Sum

These items include excavating, selecting, handling, hauling, placing, and compacting the materials as specified.

SECTION 00340 - WATERING

Comply with Section 00340 of the Standard Specifications.

SECTION 00350 – GEOSYNTHETIC INSTALLATION

Comply with Section 00350 of the Standard Specifications.

SECTION 00405 - TRENCH EXCAVATION, BEDDING AND BACKFILL

Comply with Section 00405 of the Standard Specifications modified as follows:

00405.01 General – Add the following paragraph after the first paragraph:
Comply with the City of Roseburg requirements when excavating through new asphalt that is less than 5 years old, remove all asphalt for a distance of 10 feet each side of the trench and replace with new asphalt at the same depth. If asphalt is greater than 3 inches, replace in two lifts. Payment will be made according to Section 00495.90.

00405.12 Bedding – Bedding material shall be ¾” – 0 aggregate.

00405.14 Trench Backfill – All trench backfill to be Class B.

00405.42 Rock Excavation – Add the following before the first paragraph:

Rock excavation is described as material that is unable to be excavated using traditional methods and requires either a rock hammer or blasting to excavate the material to the depths as indicated. When rock is encountered and prior to beginning excavation, obtain approval of the Owner as to limits of the rock excavation. The Owner’s decision on the limits of rock excavation is final. Blasting is not allowed on this project if rock is encountered.

00405.46 (c-1) Trench Backfill – General – Replace this subsection, except for the subsection number and title, with the following:

All trench backfill to be Class B.

SECTION 00406 - TUNNELING, BORING, AND JACKING

Comply with Section 00406 of the Standard Specifications.

SECTION 00440 - COMMERCIAL GRADE CONCRETE

Comply with Section 00440 of the Standard Specifications.

SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS

Comply with Section 00442 of the Standard Specifications.

SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications modified as follows:

00445.10 General – Add the following paragraph to this subsection:

Wherever sewer mains cross water lines with less than 18 inches of vertical clearance, the sewer main shall be C900 PVC, DR18 conforming to 02470.40 for the entire distance between manholes. Wherever sewer laterals cross water lines with less than 18 inches of vertical clearance, the sewer lateral shall be C900 PVC or ductile iron pipe for a minimum distance of 9 feet on each side of the waterline, centering the pipe section over the waterline.

00445.11 Materials – Add the following paragraph to this subsection:

All sanitary sewer pipe used on this project shall be 3034, SDR35 Polyvinyl Chloride (PVC) Pipe conform to 02410.70. All service Tee connections shall be gasketed PVC factory fabricated sections meeting the same requirements as the pipe.

Sanitary sewer pipe used as carrier pipe shall be C900 PVC, DR18 conforming to 2470.40.

00445.11(e) Tracer Wire – Tracer wire shall be 12-gauge stranded copper insulated high molecular weight polyethylene (HMW-PE) tracer wire. The HMW-PE insulated cover shall be green and a minimum 45 mil thick. The wire shall be UL rated for 140°F.

00445.43(c) PVC Pipe – Add the following paragraph to this subsection:

Field verify size of existing customer sanitary service laterals prior to placing mainline pipe and required Tee section. Match the Tee to the appropriate service size along with the service pipe size between the mainline and property line. Size shall be 4-inch minimum. If 6-inch line is used into the dwelling, then use 6-inch from the main line. No additional payments will be made for 6" services.

00445.48 Tracer Wire – Add the following paragraph to this subsection:

Tracer wire shall be 12-gauge stranded copper insulated high molecular weight polyethylene (HMW-PE) tracer wire. The HMW-PE insulated cover shall be green and a minimum 45 mil thick. The wire shall be UL rated for 140°F.

00445.70(a) Storm Sewer and Culvert Installations – Replace the sentence that begins “Perform video and...” with the following:

The City will perform a video inspection of the storm sewer pipe. Deflection testing of the storm sewer pipe is not required unless the video inspection indicates a problem.

00445.70(b) Siphon, Irrigation, and Sanitary Sewer Installations – Replace the sentence that begins “Perform video, deflection,” with the following:

Perform deflection and air testing. RUSA will perform a video inspection.

00445.72 (b) Hydrostatic Testing – Delete this subsection.

00445.72 (c) Air Testing – Replace the bullets number (3) and (6) of this subsection with the following:

- (3) Add air slowly to the section of system being tested until the internal air pressure is raised to 4 psi greater than the average back pressure due to groundwater. When acceptable to the engineer, 5 psi may be used to account for groundwater.

- (6) There will be no internal air pressure drop allowed with 3034 PVC pipe.

00445.72 (c) Air Testing – Replace the sentence that begins with “The tested section will be acceptable...” and the remainder of information of this subsection with the following:

The length of the test for 8-inch pipe shall not be less than 3 minutes 47 seconds. The test time of 3:47 shall be used for all lengths of pipe up to 298 feet. For pipe lengths greater than 298 feet, the testing time shall be increased by 0.76 seconds per foot.

00445.74 Video Inspection of Sanitary and Storm Sewers – Delete everything after the first paragraph and substitute the following:

Video inspection of the sanitary sewer will be performed by the RUSA at no cost to the Contractor for the first inspection. Subsequent video inspections will be performed by RUSA at the contractor’s expense.

The City of Roseburg will perform the video inspection of the completed storm sewer prior to final paving. Coordinate with the City for this service. There will be no charge for the first (1st) video inspection. Subsequent video inspections will be performed by the City at the contractor’s expense.

00445.80(a) Pipes – Delete the first paragraph and replace with.. “The quantities of pipe of the various kinds, types, and sizes will be measured on the length basis only and as follows:

- In the length bullet, add ", to the nearest foot" after the word "applicable".

00445.80(j) Video Inspection – Replace this subsection, except for the subsection number and title, with the following:

Video inspection will be performed by the Utility. The contractor will be charged for subsequent testing required due to failing tests and will be deducted from contract payments per 00195.502(a-5).

00445.90 Payment – Add the following pay item(s):

PAY ITEM	UNIT OF MEASURE
(a) _____ inch _____ Pipe, _____ Depth	Foot
(c) Pipe Tees, inch	Each

SECTION 00470 – MANHOLES, CATCH BASINS, AND INLETS

Comply with Section 00470 of the Standard Specifications modified as follows:

00470.10 Materials – Add the following:

Manhole Encapsulation System – Use Wrapid Seal as manufactured by Canusa or approved equal.

Add the following subsection:

00470.10 Precast Concrete Manholes and Bases – Add the following to the end the first paragraph:

Sanitary manhole cone sections shall have a concentric opening.

Modify the third paragraph with: All sanitary manholes shall be 48 inch nominal inside diameter unless specified otherwise. All manhole connections to be factory connectors with non-shrink grout or a cored hole with flexible boot. i.e.: Kor-N-Seal or approved equal. Connections to existing manholes shall be cored or saw cut only.

Add the following to the end of this subsection:

Prior to delivery of precast manhole sections to the job site, perform yard permeability tests at the point of manufacture. Test all manhole sections to be supplied for this project. All test specimens will be mat tested, and shall meet the permeability test requirements of ASTM C 498. The Engineer may require that each manhole be tested per ASTM C 1244 as an alternative to ASTM C 498. All tests shall be observed and certified by a qualified registered professional engineer or certified special inspector provided by the manufacturer.

00470.13 Inside Drop Manhole Connectors – Delete this section and substitute the following:

Inside drops shall conform to the project plans. Inside drop shall use the drop bowl as produced by Reliner-Duran, Inc. or approved equal. Furnish 304 Stainless Steel anchor bolts and stainless steel pipe clamp.

00470.18 Catch Basin and Curb Inlet Water Quality Filter Insert – Furnish new water quality filter inserts for all newly constructed catch basins and curb inlets. Water quality inserts shall provide filtration through a filter screen or filter liner, and hydrocarbon capture shall be effected using a non-leaching absorbent material contained in a pouch or similar removable restraint. Hydrocarbon absorbent shall not be placed at an exposed location at the entry to the filter that would allow blinding by debris and sediment without provision for self-cleaning in operation. Filter shall conform to the dimensions of the inlet in which it is applied, allow removal and replacement of all internal components, and allow complete inspection and cleaning in the field.

Filter support frame shall be constructed of type 304 stainless steel. Filter screen, when used in place of filter liner, shall be type 304 or 316 stainless steel, with an apparent opening size of not less than 4 U.S. mesh. Filter liner, when used in place of filter screen, shall be woven polypropylene geotextile fabric liner with an apparent opening size (AOS) of not less than 40 U.S. mesh as determined by ASTM D 4751. Filter liner shall include a support basket of polypropylene geogrid with stainless steel cable reinforcement. Filter frame shall be rated at a minimum 25-year service life. All other materials, with the exception of the hydrocarbon absorbent, shall have a rated service life in excess of 2 years.

00470.41(a) Precast Concrete Manholes - Bases – Add the following at the end of this subsection:

Manholes being constructed over an existing storm line in addition to this section shall conform to 00490.41.

00470.41 Precast Concrete Manholes – Add the following to the end of the section:

(d) Submittals – Suppliers of precast manholes to provide shop drawings showing the locations and grades of the pipe inlets and outlets.

00470.45 Steps and Ladders – Delete this subsection as steps and ladders are not required.

00470.48 Catch Basin and Curb Inlet Water Quality Filter Insert – Install per manufacturer’s recommendations and as shown on plans.

00470.71 Sanitary Manhole Acceptance Testing – Replace the paragraph that begins “Field test all sanitary sewer manholes....” with the following:

Field test all sanitary sewer manholes for acceptance by vacuum testing after completion of backfilling, compaction, and surface restoration, including paving. If the manhole fails the test, necessary repairs are to be made to the exterior of the manhole. Prior approval by the Engineer of repair methodology is required. Repair and retest the manhole until satisfactory test is obtained. Contractor is responsible for all testing. All testing to be witnessed by RUSA and the Engineer.

00470.71 (a) Hydrostatic Testing – Delete this subsection in its entirety.

00470.90 Payment – Add the following pay item(s):

PAY ITEM	UNIT OF MEASURE
-----------------	------------------------

- (a) Concrete Storm Manhole.....Each
- (b) Concrete Inlets w/ Flogard.....Each
- (c) Concrete Inlets Type G-2.....Each
- (c) Concrete Sanitary MH, _____ DeepEach
- (d) Manhole Drop AssemblyEach

SECTION 00490 – WORK ON EXISTING SEWERS AND STRUCTURES

Comply with Section 00490 of the Standard Specifications modified as follows:

00490.00 Scope - Add the following:

Connection of existing storm sewer pipe to new manholes or new structures and any fittings, pipe, or appurtenances required to make the connection are considered incidental to other items of work under the Contract. The inverts of existing pipes are to be verified and field fit as required. Any invert field adjustments are incidental.

00490.40 General – Delete the last paragraph of this subsection and substitute the following subsection(s):

Bypass pump sanitary sewer flows around the pipe section or manhole being repaired or replaced by plugging existing upstream manholes and/or pipes and pumping the flow around the work to a downstream manhole and/or pipe.

Submit a bypass pumping plan to the Engineer at least two weeks before beginning bypass pumping and obtain approval from the engineer. Use a pump with adequate capacity to handle existing flows. Pumps shall not exceed a noise level of 86 dB at a distance of 50 feet. Do not operate bypass pumps at night except in an emergency. At the end of each working day, temporary tie-ins shall be made between replaced section and existing system. Do not discharge raw sewage onto private property or city streets, or into storm drain systems. The bypass pumping plan shall include an emergency response plan to be followed in the event of a failure of the bypass pumping system.

The pumped sewage shall be in an enclosed hose or pipe that is adequately protected from traffic and shall be redirected in a sanitary sewer system. The contractor shall be liable for all cleanup, damages, and resultant fines in the event of a spill. The contractor shall take all necessary precautions to ensure that no private properties are subjected to a sewage backup or spill. After work is completed, flow shall be returned to the replaced sewer and all temporary equipment removed.

Adjustments to all covers, boxes and manhole lids shall be made prior to paving. They shall not be paved over and raised afterwards.

00490.43 Abandoning Pipe in Place – Replace the paragraph that begins “Fill abandoned pipe...” with the following:

Fill all abandoned pipes with sand or controlled low strength material meeting the requirements of 00442.

00490.47 (c) – Modify the following bullets:

- Delete the bullet that reads “Connect to structure with watertight joint.”
- Add a bullet that reads “Core or sawcut or breakout opening in the existing structure, as required. The pipe connection opening shall be a minimum of 2-inches greater in dimension in all directions, than the outer pipe dimensions. To breakout the opening, the contractor shall drill ½-inch diameter holes all the way through the catch basin wall, spaced at three-inches on center, in a general circular pattern, around the desired opening. The contractor can then use a sledge, jack, or rotor hammer to breakout the opening.”
- Add a bullet that reads “After thoroughly cleaning the new pipe location, grout in the new pipe to provide watertight seal, and when applicable, smooth flow into and through existing the existing structure.”

00490.90 Payment – Add the following pay item(s) and paragraph(s):

PAY ITEM	UNIT OF MEASURE
(a) Connect New Pipe to Existing Pipe ____ inch.....	Each
(b) Connect New __ inch Pipe to Existing__ Inch Pipe w/ Inserta tee.....	Each
(c) Abandon pipe with slurry	LF
(d) Filling Abandoned Pipe In-Place	Foot

In item (i) the size of pipe will be inserted in the blank. Item (i) includes payment for all required labor and fittings required to make connection between different sized and types of pipes.

SECTION 00495 - TRENCH RESURFACING

Comply with Section 00495 of the Standard Specifications modified as follows:

00495.40(a) – Add the following after the first paragraph:

Comply with the City of Roseburg requirements when excavating through new asphalt that is less than 5 years old, remove all asphalt for a distance of 10 feet each side of the trench and replace with new asphalt at the same depth. If asphalt is greater than 3 inches, replace in two equal lifts.

00495.40(g) – Add the following after the first sentence.

Remove and replace existing concrete sidewalk, curbs and driveways to the closest existing joint each side of trench.

00495.80 Measurement - In the paragraph that begins "The quantities of trench resurfacing...", replace the third sentence with the following sentence and bullets:
The width will be the nominal inside diameter of the pipe rounded up to the nearest foot plus:

- 24 inches for pipes less than 8 inch in diameter.
- 36 inches for pipes between 8 inch and 36 inch in diameter, inclusive.
- Surfacing removed as required by Section 00405.01/00495.40(a) will be measured at full width removed.

- When required by the project plans or specifications, surfacing removed will be measured at the full width or to the nearest joint as specified.

00495.90 Payment – Add the following pay items to this section:

- a) Trench Resurfacing Square Yard
- b) Concrete Sidewalk Square Foot
- c) Concrete Driveways Square Foot
- d) Concrete Curb and Gutter Lineal Foot

Item a) includes resurfacing of trenches located within sections currently surfaced with asphalt.

Item b) includes replacing concrete sidewalk sections removed for the installation of service laterals.

Item c) includes replacing concrete driveway and approaches removed for the installation of service laterals.

Item d) includes replacing concrete curbs or curb and gutter removed for the installation of service laterals.

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor and incidentals necessary to complete the work as specified.

No separate or additional payment will be made for replacement of disturbed landscape items.

SECTION 00530 – STEEL REINFORCEMENT FOR CONCRETE

Comply with Section 00530 of the Standard Specifications.

SECTION 00540 – STRUCTURAL CONCRETE

Comply with Section 00540 of the Standard Specifications.

SECTION 0C596 - CAST-IN-PLACE CONCRETE RETAINING WALLS

Section 0C596, which is not a Standard Specification, is included in this Project by Special Provision.

Description

0C596.00 Scope - This work consists of furnishing and constructing nonproprietary cast-in-place concrete retaining walls as shown and specified.

0C596.03 Definitions:

Batter - The slope of the wall face from vertical that is expressed as degrees or as a ratio of the horizontal change in inches for each 12 inches of vertical change. A vertical face has a zero batter.

Nonproprietary Retaining Wall System - A retaining wall system that is not a patented or trademarked and is shown on the plans.

Retained Backfill - Backfill within a distance of H/2 behind the rear face of a retaining wall. H is the total height of the wall excluding the footing.

Retaining Wall System - An engineered system of structural and geotechnical components that restrains a mass of earth. The terms retaining wall system, retaining structure, and retaining wall are used interchangeably.

Semi-Gravity Cantilever Retaining Wall System - A retaining wall composed of a cast-in-place reinforced concrete flexural stem and base slabs that resist the moments and shears to which they are subjected and depends on concrete self weight and from the weight of backfill over it's heel for stability.

0C596.05 Submittals - Submit complete working drawings according to 00150.35 at least 30 Calendar Days before beginning construction of cast-in-place retaining walls, including the following:

Unstamped working drawings for the cast-in-place walls.

Field verify existing ground elevations and bottom of wall elevations before preparing and submitting working drawings. Obtain the Engineer's written approval before beginning construction of the wall system.

Materials

0C596.10 Quality Control - Provide quality control according to Section 00165.

0C596.11 Backfill:

(a) Granular Structure Backfill - Furnish dense graded 1" - 0 or 3/4" - 0 aggregate base material for walls meeting the requirements of 02630.10 and the following:

(1) Material Passing No. 200 Sieve - The amount of material passing the No. 200 sieve shall not exceed 15 percent by weight. Test according to AASHTO T 27 and AASHTO T 11.

(2) Plasticity Index - The plasticity index of the material passing the No. 40 sieve shall not exceed 6. Test according to AASHTO T 90.

(b) Pipe Drain Backfill - Furnish granular drain backfill material for drainage pipes meeting the requirements of 00430.11.

0C596.12 Concrete:

(a) Cast-in-Place Concrete for Semi-Gravity Cantilever Retaining Walls - Furnish Class 4000 - 3/4 structural concrete meeting the requirements of Section 00540.

0C596.13 Steel - Furnish steel reinforcement for concrete meeting the requirements of Section 00530.

0C596.14 Geosynthetics - Furnish Type 1, Level B, drainage geotextile for subsurface drainage systems according to Section 02320.

Labor

0C596.30 Quality Control Personnel - Provide technicians with CAgT and CDT certifications.

Construction

0C596.40 General - Construct cast-in-place concrete retaining walls as shown.

0C596.41 Excavation and Foundation Preparation - Perform excavation and prepare backfill wall foundations according to Section 00510 and the following:

Grade the foundation level for a width equal to the combined width of the wall footing plus 1.0 foot on each side.

Place backfill material in nearly horizontal layers not more than 8 inches thick.

Do not construct backfill when the backfill, the foundation, or the embankment on which it would be placed is frozen, or unstable.

0C596.42 Compaction - Compact according to the following:

(a) Equipment - Provide the following compaction equipment:

(1) Backfill Within 3 Feet Behind Wall - Walk behind vibratory roller compactor with a single smooth drum, vibratory plate compactor, or rammer/tamper plate compactor; each with a gross static weight of not more than 1,000 pounds and a total compaction static plus dynamic force of not more than 5,000 pounds.

(2) Backfill More Than 3 Feet Behind Wall - Vibratory roller compactor with a single smooth drum, vibratory plate compactor, or rammer/tamper plate compactor.

(b) Maximum Density and Optimum Moisture Content - Determine maximum density and optimum moisture content of the granular structure backfill material according to AASHTO T 99 Standard Proctor Method A, with coarse particle correction according to AASHTO T 224.

(c) Moisture Content - Prepare the granular structure backfill material to within minus 4% to plus 2% of optimum moisture content at the time of compacting. Add water to material that does not contain sufficient moisture and thoroughly mix. Remove excess moisture by manipulation, aeration, drainage, or other means before compacting.

(d) Density:

(1) Backfill Within 3 Feet Behind Wall - Compact to 95% of maximum density using the required number of passes determined according to 0C596.42(e-1).

(2) Backfill More Than 3 Feet Behind Wall - Compact to 95% of maximum density determined according to 0C596.42(e-2).

(e) Testing Methods and Frequency:

(1) Test Pad Method - Before placing the wall backfill, determine the number of passes necessary to achieve the specified density by constructing a test pad that is at least 5 feet wide, 15 feet long, and 3 feet in final depth. Construct test pad fill in layers no more than

8 inches thick using the same equipment and methods that will be used to compact the wall backfill. Perform at least one density test according to AASHTO T 310 on each test pad layer. Construct and test a new test pad when changes in material occur or different equipment is used during the construction of the wall backfill.

(2) Nuclear Gauge Method - Test in-place field density according to AASHTO T 310. Test at the frequency required in the ODOT Manual of Field Test Procedures.

(f) Deflection Requirement - Conduct at least one deflection test, witnessed by the Engineer on each compacted layer of backfill according to ODOT TM 158. If the tested layer exhibits yielding, deflection, reaction, or pumping, rework the area to provide acceptable test results before placing the next layer.

0C596.43 Wall Construction:

(a) Wall Drainage - Construct wall drainage according to Section 00430.

(b) Cast-in-Place Semi-Gravity Cantilever Retaining Walls - Construct cast-in-place concrete semi-gravity retaining walls as shown.

Measurement

0C596.80 Measurement – Measurements will be based on the exposed surface area of the retaining walls.

The estimated quantity of retaining walls are:

Area

Project total: 1,700 sq. ft.

Excavation below elevations shown will be measured according to 00510.80(b).

Payment

0C596.90 Payment - The accepted quantities of work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

Pay Item Unit of Measurement

(Modify this list of pay items to only include project specific pay items. Delete those that are not required on the project. Re-alphabetize the list if necessary.)

(a) Retaining Wall, Cast-In-Place Concrete Semi-Gravity Cantilever Price per sq. ft.

Payment limits will be based on the street facing vertical face of exposed wall area.

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

Excavation below elevations shown will be paid for according to 00510.90(c).

No separate or additional payment will be made for:

excavation, shoring, grading, specified backfill, fabric, wall drainage systems, concrete and reinforcement for concrete

SECTION 00610 – RECONDITIONING EXISTING ROADWAY

Comply with Section 00610 of the Standard Specifications.

SECTION 00640 – AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications.

Pay Item Unit of Measurement

- (a) Aggregate Base Ton
- (b) Aggregate Sub Base. Ton

SECTION 00705 – EMULSIFIED ASPHALT PRIME COAT AND EMULSIFIED ASPHALT FOG COAT

Comply with Section 00705 of the Standard Specifications.

SECTION 00744 - MINOR HOT MIXED ASPHALT CONCRETE (MHMAC) PAVEMENT

Comply with Section 00744 of the Standard Specifications modified as follows:

00744.12 Mix Type and Broadband Limits – All asphalt shall be Level 3, ½”-ACP.

00744.90 Payment – Add the following paragraph:

Payment includes preparation of subgrade. There is no separate payment for trench resurfacing. There will be no payment made for asphalt required for electrical conduit trenches.

SECTION 00749 - MISCELLANEOUS ASPHALT CONCRETE STRUCTURES

Comply with Section 00756 of the Standard Specifications.

00749.91 Method "A" - Weight and Extras Basis - The items to be paid for under Method "A" are:

- Pay Item Unit of Measurement
- (a) Extra for Asphalt Approaches Each

Asphalt and base rock shall be paid for under other bid items. Extra work required to work in the confines of the small areas shall be paid for under this bid item.

SECTION 00756 - PLAIN CONCRETE PAVEMENT

Comply with Section 00756 of the Standard Specifications.

SECTION 00759 – MISC. PORTLAND CEMENT CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications modified as follows:

00759.12 Sidewalk Ramp Treatment – Add the following paragraph to the end of this subsection.

Truncated domes to be approved for fresh concrete installation on the QPL.

00759.46 Concrete - Construct the structures between suitable forms or by the extrusion method. Place concrete according to Section 00440 subject to this Section

Curb and gutter shall be poured in a monolithic pour in all locations. The sidewalk shall be poured in a monolithic pour with the curb and gutter in all locations that do not require a planter between the curb and sidewalk.

00759.90 Payment – Add the following pay item(s) and paragraph(s):

PAY ITEM	UNIT OF MEASURE
(a) Curb and Gutter.....	Lineal Feet
(b) Extra for Monolithic Curb and Gutter.....	Lineal Feet
(c) Driveways (lowered or partially lowered).....	Square Feet
(d) Sidewalks	Square Feet
(e) Truncated domes.....	Each

Driveways shall be paid for as on a square feet area basis as defined in details. Driveways on lowered sidewalk and partially lowered sidewalk shall be paid on the same bid item labeled Concrete Driveways.

Sidewalk ramps are incidental to sidewalk construction and are not paid separately. Truncated domes are paid separately.

Full panel sidewalk replacement is required. Limit of payment for sidewalks is from the back of curb to the back of sidewalk. Payment for sidewalk does not include curb and gutter. All work for curb and gutter is paid for on a lineal feet basis.

Weep holes in the sidewalk & curb and the connection to existing private drains shall be considered incidental to the sidewalk work and shall be included in the sidewalk bid item for payment.

SECTION 00850 – COMMON PROVISIONS FOR PERMANENT PAVEMENT MARKINGS

Comply with Section 00850 of the Standard Specifications.

SECTION 00851 – PAVEMENT MARKING REMOVAL

Comply with Section 00851 of the Standard Specifications, modified as follows.

00851.40 General - In the paragraph that begins "Remove durable and non durable pavement...", delete the sentence that begins "Remove durable markings by steel..."

00851.90 Payment - Add the following to the end of this section.

Removal of curb paint shall be paid for under item (a).

SECTION 00855 – PAVEMENT MARKERS

Comply with Section 00855 of the Standard Specifications.

SECTION 00860 – LONGITUDINAL PAVEMENT MARKINGS - PAINT

Comply with Section 00860 of the Standard Specifications, modified as follows:

00860.90 Payment: Add the following to the end of this section.

PAY ITEM	UNIT OF MEASURE
(a) Longitudinal Pavement Markings.....	Lineal Feet
(b) Paint Curb and Gutter.....	Lineal Feet

Payment for painted curbs will be paid for under this section by the foot. Payment for curbs includes paint for the full front and top of curb.

SECTION 00867 – TRANSVERSE PAVEMENT MARKINGS - LEGENDS AND BARS

Comply with Section 00867 of the Standard Specifications.

SECTION 00905 – REMOVAL AND REINSTALLATION OF EXISTING SIGNS

Comply with Section 00905 of the Standard Specifications.

SECTION 00930 – METAL SIGN SUPPORTS

Comply with Section 00930 of the Standard Specifications with the following modification:

Comply with the typical sign post support installation detail on SD.2.

SECTION 00940 – SIGNS

Comply with Section 00940 of the Standard Specifications.

Section 01050 – Fences

Comply with Section 001050 of the Standard Specifications with the following modifications, additions or deletions:

Description

01050.00 Scope – Add the following:

- Wood fences and gates.

Materials

01050.10 Materials – add the following note on materials for wooden fences:

All new wood fences for this project shall be constructed using select/premium #1 grade cedar materials (1x6 fence boards, 4x4 posts & 2x4 rails). Use Simpson Strong-Tie model #FB24Z Z-max 2-inch x 4-inch 20-gauge galvanized fence bracket for post-rail connections. Any fasteners in contact with preservative-treated wood shall be of hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper. All 6' tall wood fences shall be constructed with (3) 2x4 rails. Field verify post & rail locations. Set posts in concrete to a minimum depth of 1'-6" below finish grade.

Payment

01050.90 Payment - The accepted quantities of fences, protective fences, gates, and associated items performed under this Section will be paid for according to the following:

(a) Wooden Fence - Wooden fence and gates will be paid for at the Contract unit price, per unit of measurement, for the following items:

Pay Item	Unit of Measurement
(a) ___ Wooden Fence	Foot
(b) ___ Foot Wooden Single Gates	Each

(b) Chain Link Fence - Chain link fence and gates will be paid for at the Contract unit price, per unit of measurement, for the following items:

Pay Item	Unit of Measurement
(a) ___ Chain Link Fence	Foot
(b) ___ Foot Chain Link Single Gates	Each

SECTION 01140 –POTABLE WATER PIPE AND FITTINGS

Comply with Section 01140 of the Standard Specifications modified as follows:

01140.80 Measurement – Replace the entire paragraph that begins “In addition to measurement of the pipe...” with the following:

There will be no additional allowance for factory-fabricated bends, sleeves, reducers, couplings, tees, or crosses. These shall be measured at their nominal length and included with the nominal pipe length measured.

01140.90 Payment – Add the following paragraph(s):

Item (b) will not be used for this project. All restrained and non-restrained joint potable water pipe will be paid under item (a). Any restrained joints are incidental to item (a).

SECTION 01160 – HYDRANT AND APPURTENANCES

Comply with Section 01160 of the Standard Specifications modified as follows:

01140.90 Payment - Add the following paragraphs to the end of this subsection: New pipe for hydrant connections to new mains is incidental to the above items.

SECTION 01170 –POTABLE WATER SERVICE CONNECTIONS, 2 INCH AND SMALLER

Comply with Section 01170 of the Standard Specifications modified as follows:

01170.41 Reconnecting Existing Services – Add the following paragraphs to the end of this subsection:

Existing meters are to be utilized for reconnecting of services. Meters are to be relocated as required. All other fittings, meter boxes, and miscellaneous materials are to be new. Pack joint fittings are to be used at all connection to existing service lines. PVC and glued fittings are not allowed.

01170.90 Payment – Add the following paragraph to the end of this subsection:

Measurement and payment for Water Service Reconnections or New Water Service Connection will be made on a unit price basis for each size and type installed, as stated on the Bid Form. The unit price shall include compensation for the service saddle, corporation stop and angle meter valve, removing existing meter box as well as sitting new meter box, associated excavation, backfill, tapping and all other work required for a complete installation and service reconnection. The unit price shall include up to 40 feet of service line on the City side of the meter and up to 5 feet on the customer side of the meter.

SECTION 02415 - PLASTIC PIPE

Comply with Section 02415 of the Standard Specifications modified as follows:

02415.10 Corrugated Polyethylene Pipe - Furnish corrugated polyethylene pipe meeting the following requirements:

Corrugated polyethylene storm sewer pipe AASHTO M 294, Type S or D

Furnish soil tight joints for corrugated polyethylene pipe.

02415.50 Polyvinyl Chloride Pipe - Furnish polyvinyl chloride pipe (PVC) subsurface drain pipe and fittings meeting the requirements of ASTM D 2729. Furnish PVC sanitary, storm, culvert, siphon, and irrigation pipe and fittings with 2 feet or more cover that have a minimum pipe stiffness of 46 psi or a minimum SDR of 35 and meet the requirements of sewer pipe ASTM D 3034.

SECTION 02450 –MANHOLE AND INLET MATERIALS

Comply with Section 02450 of the Standard Specifications modified as follows:

02450.30 Metal Frames, Covers, Grates, and Ladders –Delete all references to steps within manholes as they are not required.

Manhole cover shall conform to Roseburg Urban Sanitary Authority standard manhole lid as cast by East Jordan Iron Works, Product Number 00260368, Catalog Number 2603C or approved equal. See project plans.

SECTION 02470 –POTABLE WATER PIPE MATERIALS

Comply with Section 02470 of the Standard Specifications modified as follows:

02470.20(a) General – Replace the sentence that begins “All other ductile iron pipe...” with the following:

4 and 6-inch Ductile Iron Pipe shall be Class 51. 8-inch & Larger Ductile Iron Pipe shall be Class 50. Joints shall conform to AWWA C111/A21.11-00 for push on rubber gasket joints and shall be Tyton® or approved equal. Unless otherwise noted, the pressure rating shall be 350 p.s.i. minimum. Joint gaskets including gasket lubricant shall be furnished with the fittings.

02470.30 Steel Pipe 6 Inches and Larger: Delete this subsection.

02470.35 Steel Pipe Under 6 Inches: Delete this sub section.

02470.40 Polyvinyl Chloride (PVC) Pipe 4” Inches and Larger: Delete this sub section.

02470.45 Polyvinyl Chloride (PVC) Pipe Under 4 Inches: Delete this sub section.

02470.60(a) Marking Tape – Replace the sentence that begins “The width of the tape shall...” with the following:

Marking tape shall be a minimum of 6-inches in width.

02470.60(b) Detectable Marking Wire – Replace this subsection, except for the subsection number and title, with the following:

Detectable marking wire shall be No. 12 AWG Stranded Copper Wire with high molecular weight polyethylene (HMWPE) insulation. The HMWPE insulated cover shall be blue in color and have a minimum thickness of 45 MILS. Wire shall be UL rated for 140 degrees Fahrenheit. Joints or splices shall be waterproof.

SECTION 02475 –POTABLE WATER FITTINGS MATERIALS

Comply with Section 02475 of the Standard Specifications

SECTION 02480 –POTABLE WATER VALVE MATERIALS

Comply with Section 02480 of the Standard Specifications modified as follows:

02480.20(a) Minimum Pressure – Replace the sentence that begins “Gate valves shall meet...” with the following sentence:

Gate valves shall meet the requirements of AWWA C515.

Add the following subsection:

02480.20(c) Approved Manufacturers – Approved manufacturers of gate valves include American Flow Control Series 2500, American AVK Series 65 or an approved equal.

02480.25 Valve Boxes – Replace this subsection, except for the subsection number and title, with the following:

Valve boxes shall be Rich Style 931 with ductile iron upper and lower sections or approved equal. All lids are to be stamped or cast with a “W” or “Water”.

02480.26 Valve Stem Extension – Replace the sentence that begins “Valve with an operating nut more than...” with the following sentences:

Valves with an operating nut more than 4 feet below grade shall have a fiberglass valve extension to raise the operating nut to within 1 foot of the ground surface. Approved manufacturers include Fiberplas© Fiberglass valve can extension, manufactured by Pipeline Products, or approved equal.

02480.30(b) sleeves - Replace this subsection, except for the subsection number and title, with the following:

Tapping sleeves shall be stainless steel with a full circumferential seal.

SECTION 02485 –HYDRANT AND APPURTENANCE MATERIALS

Comply with Section 02485 of the Standard Specifications modified as follows:

2485.10 Fire Hydrants – Add the following paragraph to the end of this section:

Approved hydrant manufacturers include American Flow Control Waterous Pacer WB-67-250, American AVK Series 2780 Nostalgic or an approved equal.

2485.30(b) Nozzle Features – Replace the sentence that begins “Hydrants shall have two 2 ½ inch....” with the following:

Hydrants shall have two 2-1/2 inch diameter hose nozzles and one 4-1/2 inch diameter pumper nozzle. Pumper nozzle shall be fitted with a 5” Storz adapter Model No. HPHA5045CAP.

SECTION 02490 –POTABLE WATER SERVICE CONNECTION MATERIALS, 2 INCH AND SMALLER

Comply with Section 02490 of the Standard Specifications modified as follows:

02490.20 Saddles– Replace this subsection, except for the subsection number and title, with the following:

Service saddles shall be nylon coated ductile iron with stainless steel straps with a pressure rating up to 350 psi. Saddles used for 1 inch services shall be single strap Romac 101NU or approved equal. Saddles for 2-inch services shall be double strap Romac 202NU or approved equal.

02490.30 Corporation Stops – Replace this subsection, except for the subsection number and title, with the following:

Corporation stops shall be of the “key type” and shall be made of bronze alloy. Valve shall have pack joint fittings for service pipe. Corporation stops for direct tapping shall have AWWA tapered thread inlet and outlet connections compatible with polyethylene tubing. Corporation stops used with 1-inch outlet saddles shall have either AWWA tapered thread or male iron pipe thread inlets and outlet connections with polyethylene tubing. Thread patterns for the saddle outlet and corporation stop inlet shall be the same. Corporation stops used with 2-inch outlet saddles shall have male iron pipe thread inlets and outlet connections compatible with connecting service pipes. Corporation stops shall be Model F1001 as manufactured by Ford Meter Box Company or the equivalent from A.Y. McDonald Manufacturing Company.

02490.40 (b) Polyethylene Tubing Service Pipe – Replace this subsection, except for the subsection number and title, with the following:

Polyethylene tubing service pipe shall meet the requirements of AWWA C901. Tubing shall be high molecular mass with a 200 psi rating. Tubing used for 5/8x3/4 and 1-inch meter assemblies shall be 1-inch Dia. SDR 7 (PE 3408) Iron Pipe Size. Tubing used for 1-1/2-inch and 2-inch meter assemblies shall be 2-inch Dia. SDR 7 (PE 3408) Iron Pipe Size.

02490.40 Service Pipe and Fittings – Add the following subsections:

02490.40 (d) Polyvinyl Chloride (PVC) Service Pipe 2 Inch and Under - Polyvinyl chloride (PVC) 2 inches and under in diameter shall meet the requirements of ASTM D 2241. Pipe material shall be PVC 1120, PVC 1220, or PVC 2120, and shall be Schedule 80, or as specified or indicated. Joints shall be rubber gasket pack joint with axial restraint meeting the requirements of AWWA C800. Solvent welded pipe joints will not be allowed.

02490.40(e) Angle Meter Valves – Angle meter valves shall be of the “key Type” and shall be made of bronze alloy. Valve shall have pack joint fittings for service pipe and a meter swivel nut. Valve shall be quarter turn and shall have a lock wing. Angle meter valves shall be Model KV63 as manufactured by Ford Meter Box Company or the equivalent from A.Y. McDonald Manufacturing Company.

02490.70 Meter Boxes: - Replace this subsection, except for the subsection number and title, with the following:

- (a) **Single 5/8 inch X 3/4 inch Service:** Meter box shall be Armorcast P6000485 with cover and drop-in read lid.
- (b) **Dual 5/8 inch X 3/4 inch Service:** Meter box shall be Armorcast A6000490 with cover and drop-in read lid.
- (c) **1 inch Service:** Meter box shall be Armorcast A6001946PCX12 with cover and drop-in read lid.
- (d) **1-1/2 inch and 2 inch Service:** Meter box shall be Armorcast A6001640PCX12 with cover and drop-in read lid.



THE GALLI GROUP
Engineering Consulting

**GEOTECHNICAL INVESTIGATION AND
PAVEMENT DESIGN REPORT
SPRUCE & PARROTT STREETS
ROSEBURG, OREGON**

For: Alex Palm
i.e. Engineering
P.O. Box 1271
Roseburg, OR 97470

By: **THE GALLI GROUP**
612 NW Third Street
Grants Pass, OR 97526
(541) 955-1611

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THE GALLI GROUP
Engineering Consulting

GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN REPORT SPRUCE AND PARROTT STREETS ROSEBURG, OREGON

1.0 INTRODUCTION

In accordance with your authorization, we have completed our field investigation and office evaluation for sections of SE Spruce and SE Parrott Streets in southeast Roseburg, Oregon. The purpose of the subsurface investigation was to verify existing asphalt section thicknesses, to obtain samples of the underlying soils for various laboratory testing and to provide recommendations for pavement section designs for the two streets.

The following report sections outline 1) our understanding of the project, 2) our field investigation, 3) estimated traffic data and 4) our geotechnical recommendations and section designs for construction of the new and/or reconstructed roadway sections.

2.0 SITE AND PROJECT DESCRIPTION

We understand the project to consist of improvement or reconstruction of the existing distressed pavements in the subject two streets. These streets have had traffic loading for about 15 to 20 years. The asphalt sections have performed reasonably well for the soil type and traffic load. We understand that the north portion of Parrott, from Hwy 138 on the north to SE Lane Avenue on the south, would be mostly residential vehicular traffic. Spruce, from Hwy 138 on the north down to Lane Avenue and then Parrott from Lane south to Mosher, has a high percent of truck traffic. The area is relatively flat with a gentle slope.

The purpose of the investigation and study would be to determine the existing conditions and then to provide recommendations for upgrading the pavements on the two streets.

Please see Figure 1, Vicinity Map and Figure 2, Site Plan, for the site location and details.

3.0 FIELD EXPLORATION

On July 9, 2015 our Staff Engineer and drilling crew accomplished a total of five (5) borings in the two streets. Traffic control flagging and signage in accordance with ODOT's Oregon Temporary Traffic Control Handbook were provided as outlined in our encroachment permit. We also obtained a City permit for lane closures during the drilling operations.

Site soils were investigated utilizing exploratory borings drilled with an ATV-mounted drill rig. A total of five (5) cores through the surface asphalt and borings through the

base rock and into the subgrade soils were accomplished at the locations shown on the Site Plan. The borings were advanced to depths of between 4.5 and 4.9 feet beneath the surface of the asphalt.

Our representative located the borings, observed and logged subsurface soil and groundwater conditions and collected samples for transport to the office and laboratory. Samples of the upper soils units were obtained during drilling operations by utilizing the Standard Penetration test (SPT) and by using the larger auger to obtain bulk samples. SPT sampling entails driving a 2-inch diameter split-spoon sampler into the bottom of the boring by dropping a 140-pound weight a distance of 30 inches. The number of blows that it takes to drive the split-spoon the last 12 inches of an 18-inch drive is called the SPT "N-value." These values can be used to correlate soil densities and strengths with data from thousands of other projects.

A detailed log of each hole was kept and is presented in Appendix A, Boring Logs, at the end of this report. Upon completion, each hole was backfilled with compacted soil and rock spoils to just below the bottom of the AC layer. The holes were then "topped" with compacted cold patch asphaltic concrete. For additional detail of the soils conditions encountered at the site, please see the attached Appendix A, Boring Logs at the end of this letter report.

4.0 SUBSURFACE CONDITIONS

Asphalt/Soil. The five (5) borings encountered variable, but somewhat uniform conditions between individual boring locations.

Asphaltic Concrete (AC), Base Rock (ASB) & Subgrade Soils

The following tables outline the asphalt and base rock thicknesses found at the boring locations. It also provides the subgrade soil types encountered.

Boring No.	Approximate Location	A.C. Thickness (Inches)	Base Rock (Inches)	Subbase Rock (Inches)	Subgrade Soils
B-1	Parrott 175' N of Mosher	3½ (2¼/1¼)	3½	15	GrCl
B-2	Parrott 260' N of Lane	3 (1½/1½)	4	5	SiCl
B-3	Parrott 110' S of Oak	2	6"Concrete	--	SiCl
B-4	Spruce 140' S of Oak	4 (2/2)	4	13	SaCl
B-5	Spruce 250' N of Lane	2	3	11	Cl

Si = Silt; Sa = Sand; Cl = Clay; Gr = Gravel

Densities: SPT N-Values were 5,6 or 7 at Subgrade Elevations.

The AC was placed in 1 or 2 lifts. Please see the Boring Logs in Appendix A for additional information.

Soils conditions were somewhat variable but all were basically a dark Clay soil with portions of silt, sand or gravels. All the SPT N-Values taken at from 1.5 feet to 3.0 feet were relatively similar (5,6 or 7). Therefore, the subgrade soils along the entire length of both roads can reasonably be assumed to be similar for asphalt section design.

While the layers are shown as having distinct boundaries in the boring logs, in nature they may grade slowly from one soil type to another. Soil conditions will also vary between the boring locations. For additional detail of the soils conditions encountered at the site, please see the Boring Logs in Appendix A at the end of this report.

Groundwater. No free groundwater or seepage was encountered in the borings. These were drilled at the end of the driest summer in many decades. Therefore it is likely that some water would be found in the base rock layers during wet months.

Based on experience in this area, groundwater tends to “perch” on top of the underlying denser layer. The upper clay may “soften” and become easily disturbed when subjected to construction traffic during these times of wet weather. If construction is accomplished during the wet winter months, it is possible that the surficial fine-grained soils will become disturbed and unworkable if the subgrade is not “protected” from construction traffic.

5.0 CONVENTIONAL LABORATORY TESTING

In order to provide information for pavement evaluation and design we conducted the following laboratory testing program:

- Expansion Index
- Moisture Content Determinations
- California Bearing Ratio (CBR) Analysis

Tested CBR values were 6.8 in B-1 and 7.0 in B-2. The CBR values indicate poor to moderate support for pavements for the soil. These tests are used to quantify the resistance to shearing of the subgrade soil compared with crushed stone over soil subgrades when subjected to wheel loads. The Expansion Index tests had EI values of 49 for B-1 and 86 for B-2. These indicate the soils are moderately to highly expansive.

Specific test result sheets are included in Appendix B, Laboratory Test Results.

6.0 ASPHALTIC PAVEMENT RECOMMENDATIONS

We understand that the project could include overlays and complete reconstruction of pavements for these roads. Below we have provided general recommendations for the preparation of pavement areas and several recommended pavement sections for various objectives.

6.1 SUBGRADE SOILS

Our subsurface investigation of the project indicates that the majority of the project is underlain by silty Clay and sandy Clay. Subgrade soils are typically evaluated with the California Bearing Ratio (CBR) test or by R-Value testing. These tests are used to quantify the resistance to shearing of the subgrade soil compared with crushed stone when subjected to wheel loads.

Our firm obtained representative samples of the underlying soils. As described earlier in this report, the tested material had a CBR value of 11, from 6.8 to 7.0, which indicates poor to moderate subgrade support for pavement structures. This can be converted to an R-Value of approximately 20 to 25. However, typical standard design generally requires the use of an R-Value of 3 when subgrade soils are expansive. Based on the expansiveness of the soil and our experience with similar soils, we utilized an equivalent R-Value of 5 for the design of pavements on this project.

6.2 PAVEMENT CONSTRUCTION CONSIDERATIONS

Site preparation, construction materials, and construction technique all play a critical role in the performance of the completed project pavements.

6.2.1 General Recommendations

Subgrade Preparation. Subgrade preparation, where required, should begin with removal of debris and loose and disturbed soils. All debris and organic material should be disposed of properly and is not permitted as subgrade or fill material.

The subgrade should be shaped to a uniform surface running reasonably true to established line and grade described in the contract documents. Areas so specified must be redensified and/or backfilled with structural fill. It is important that dense, stable conditions of the subgrade be maintained until the subgrade is covered with the 1-inch minus crushed rock or is tilled with cement or FDR.

Subgrade preparation should include cleaning and proofrolling to identify soft and disturbed subgrade areas. We recommend a woven support fabric be placed between the soils and the asphalt section base rock as listed in the section design. **Note:** Areas of obvious severe pavement distress should have the subgrade over-excavated and be repaired with compacted crushed rock.

After subgrade preparation is completed, the upper 12 inches of exposed subgrade prepared for the pavement structure should demonstrate at least 92 percent of the maximum dry density, as determined by the Standard Proctor test.

Soft or loose materials disturbed during the demolition process, incapable of achieving the compaction criteria should be removed to appropriate bearing materials prior to

placing structural fill (based on judgment by our on-site engineer). Where loose or softened subgrade areas are identified, the area should be over-excavated and replaced with imported granular fill with less than 7 percent passing the number 200 sieve.

It should be noted that in no case should construction trucks be allowed to “run” directly on top of the subgrade soils. This would most likely result in the disturbance of the subgrade soils due to the heavily loaded vehicles (which would result in additional over-excavation to remove softened soils). We recommend covering the subgrade soils with at least 12 inches of crushed rock or jaw-run “shale” over the fabric prior to construction truck traffic traversing the area. Therefore, construction traffic must be carefully coordinated in order to minimize disturbance to the underlying fine-grained soils.

Note: Clay Subgrade: All areas that have an exposed subgrade consisting of the clay or clayey soils must be kept moist and in a fully swelled condition. This will likely require light sprinkling if the work is done in the warmer months. Covering dried out expansive clay soils can result in future swell related problems.

Wet Weather Construction. We recommend that for construction during wet weather, in all construction roads and drive lanes, the subgrade should be covered with a woven geotextile support fabric (GEOTEX 250ST or equivalent) and a minimum of 12 inches of imported granular crushed fill (such as jaw-run shale). Compaction of the fill should not begin until a minimum of 12 inches of rock is placed above the fabric. This should provide an adequate working surface and help protect the subgrade from damage from construction traffic. Construction traffic should not be allowed to traverse the area until the minimum of 12 inches of compacted material has been placed and compacted.

Preparation of subgrade and rock placement during dry weather typically yields a better asphaltic concrete section.

Geotextile Fabric Placement. When the subgrade has been properly prepared, it should be covered with the woven geotextile support fabric. We recommend a fabric such as ACF180 and ACF200 (heavy duty roads) or equivalent. The fabric should be laid longitudinally with the roadway. All ends and edges should be overlapped a minimum of 5 and 2 feet, respectively. Fabric layout generally is best when the “runs” align with the lane traffic directions.

Care must be taken to not damage the fabric. In no case shall track vehicles be allowed on the fabric. At least 12 inches of rock should be over the fabric prior to allowing truck traffic in the area. Then the traffic should be light to protect the subgrade. Be careful not to disturb the subgrade when compacting the rock.

Materials. All materials used and construction techniques applied at the site must result in conditions as assumed for design of the pavement sections. We recommend materials used in the pavement support sections be as follows:

Aggregate Base Rock

- Crushed Rock (¾ or 1" Minus); R=80 or greater; Well Graded (No Gaps)
- Exceeds the fracture, durability and sand equivalent requirements outlined in Section 00641 of the Oregon Standard Specifications for Construction
- Maximum passing the No. 200 sieve = 5%
- Compacted to 95% of the maximum dry density as determined by ASTM D698 or AASHTO T-99

Aggregate Subbase Rock

- Crushed (jaw run) hard "Shale" (4" to 6" Minus Jaw-Run) or Crushed Rock (2" to 4" Minus); R=50 or greater; Angular and Reasonably Well Graded
- Exceeds the fracture, durability and sand equivalent requirements outlined in Section 00641 of the Oregon Standard Specifications for Construction
- Maximum passing the No. 200 sieve ≤ 10% Total; ≤ 5% Clay Size
- During wet weather; passing No. 200 sieve ≤ 5%.
- Compacted to 95% of the maximum dry density as determined by ASTM D698 or AASHTO T-99; initial lift may not attain 95% due to soft subgrade; Engineer to decide in the field.
- Care must be taken to avoid very silty subbase that will not support construction loads, especially when wet.

We recommend avoiding the use of soft rock or subrounded and/or sandy gravel materials for the aggregate base, since they typically do not perform well in supporting asphaltic pavement sections (i.e., usually do not meet CBR requirements).

Installation of utilities and other site work, which may compromise the integrity of the completed base rock section, should be avoided when possible. Therefore, utilities which must cross through these areas should be placed and backfilled prior to placing the 1" minus aggregate base rock section.

We recommend that the finished subgrade and subbase be viewed and that base rock be tested for density and stability by a representative of The Galli Group prior to placement of asphalt at the site.

Asphaltic Concrete. We recommend the project specifications and plans specify the use of Dense Graded Hot Mix Asphalt Concrete (HMAC). Standard HMAC mixes used for roadways by Roseburg and Douglas County should work well. We recommend all aspects of the asphaltic paving be accomplished in accordance with applicable ODOT standards and recommendations.

Drainage. As discussed earlier, during wetter periods of the year, water could appear in the base rock. This usually comes from emergent groundwater that enters into the base rock. As the water moves downslope in the AC it can build up and create a pressure head which will force it up through the cracks in the AC at places.

To help elevate this a series of subdrains should be installed along the streets. These should extend to 6 inches to 12 inches below the bottom of the subbase rock in order to intercept the shallow seepage. A good spacing between the subdrains must be determined that will achieve the required removal of the seepage.

Adequate provision should be made to direct surface water away from the pavement section and subgrade. Ponded water adjacent to the roadway can saturate the subbase resulting in loss of support. Therefore, we recommend the areas along the edge of the roadway be well drained. All paved areas should be sloped and drainage gradients maintained to carry surface water to catch basins or ditches for transmission off the roadway.

Maintenance. Pavement life can be extended by providing proper maintenance and overlays as needed. Cracks in the pavement should be filled to prevent intrusion of surface water into the subbase. Asphalt pavements typically require seal coats or overlays after 15 to 20 years to maintain structural performance and aesthetic appearance.

6.2.2 Cement Treated Subgrade (CTS) Recommendations

Based on recent construction experience and review of the soil samples, the onsite soils are similar in nature to those encountered in southern Oregon and appear suitable for cement treatment and stabilization.

Subgrade Preparation. Subgrade preparation should begin with removal of debris, deleterious matter and vegetation. All debris and organic material should be disposed of properly, and is not permitted as subgrade or fill material. Any surficial topsoil layers and/or disturbed soils should be removed until total depths are such that the surficial disturbed layer will be entirely pulverized and utilized as the cement treated layer. The onsite soils could also be reused as structural fill (preferably with cement treatment) where needed.

All aspects of the cement treatment application, mixing, watering and compaction should be observed and tested by the Geotechnical Engineer or his representative to verify compliance with project specifications.

Cement-Treatment Requirements. Should it be economically feasible to use cement treatment to “stabilize” and strengthen the onsite subgrade soils, we recommend the following for the final design of the project and for incorporation into the project specifications.

- Spread cement at the pre-determined percent (minimum of 7 percent for this project) evenly across the areas to be treated. The percent cement should be based on a dry soil unit weight of 120 pounds per cubic foot. We recommend that the spread rate be checked periodically during the construction process.
- Soils are to be well pulverized to the full recommended depth. The equipment used must be able to completely pulverize the soil to the required depth. The depth is

measured from the surface downward, prior to the pulverization of the soil. The depth should be checked at several locations during the construction process.

- Adequate water must be added and mixed into full depth of pulverized soil to hydrate the cement properly and allow compaction at near optimum. A water truck should be available to provide adequate moisture for full hydration of the cement as it “reacts” with the soil and to maintain a moisture content near or slightly above optimum during the compaction process.
- Stabilized soils are to be compacted with a large, vibratory sheepsfoot and smooth roller from the surface such that the top 12 inches reaches a minimum of 98% of the maximum dry density, in accordance with ASTM D-558 (Standard Proctor). We strongly recommend the contractor utilize both sheepsfoot (or segmented pad) and smooth drum rollers to accomplish the compaction process. Nuclear density testing is recommended to verify that the compaction specifications are met. All compaction operations of the cement-treated subgrade shall be completed within 2 hours from the start of mixing.
- During the initial “cure” of the treated-materials, the CTS material shall be “protected” in such a manner as to prevent equipment from marring, permanently deforming, or damaging completed work. The base and final lifts of AC can be placed any time after finishing, as long as the treated base is sufficiently “stable” to support the required construction equipment without marring or permanent distortion of the surface.
- Allow the cement-treated subgrade to “cure” for at least 5 days before allowing heavy truck traffic and construction equipment to utilize the reconstructed roadway. If the CTS subgrade is not paved immediately (which holds moisture in the treated soils), the contractor shall periodically water and keep the exposed subgrade moist during the first 3 to 4 days.

6.2.3 Utility Installation

Installation of utilities and other site work (such as subdrains) which may compromise the integrity of the completed cement treated subgrade should be avoided when possible. Therefore, when possible, utilities which must cross through the cement treated areas should be placed (at least 12 inches below bottom of anticipated pulverizing) prior to stabilizing the subgrade soils. However, areas which must be trenched following cement treatment should be backfilled with compacted granular import (crushed rock) or a lean slurry mix up to the bottom of the base rock section.

7.0 ADDITIONAL SERVICES AND LIMITATIONS

7.1 ADDITIONAL SERVICES

Additional services by The Galli Group are recommended to help insure that design recommendations are correctly interpreted in final project design and to help verify compliance with project specifications during the construction process. For this project we anticipate additional services could include the following:

- Additional lab testing to help refine final design.
- Discussions with client for selecting final reconstruction method(s).
- Additional investigation and testing if needed.
- Review of final construction plans and specifications for compliance with geotechnical recommendations and good construction practices.
- Possible project team meetings to clarify issues and proceed smoothly into and through the construction process.
- Observation of over-excavated areas below asphalt and recompaction, structural fill placement, subgrade proofrolling, pavement subgrade and aggregate base.
- Observation of drainage installation.
- Inspection and testing for cement treatment of soils for CTS and FDR, if used.
- Inspection and testing services including asphaltic concrete inspection and testing, base rock density testing, materials testing and other construction observation and quality control testing required for the project.
- Periodic construction field reports, as requested by the client and required by the building department.

We would provide these additional services on a time-and-expense basis in accordance with our Standard Fee Schedule and General Conditions in place at the time of construction. If our firm is not utilized to provide these construction-related services, we cannot be held responsible for decisions made by others.

7.2 LIMITATIONS

The asphaltic concrete, base rock and soil units encountered and presented in the report are those found at the specific locations investigated. Conditions could vary between the locations explored.

The analyses, conclusions and recommendations contained in this report are based on site conditions and development plans as they existed at the time of the study, and assume soils and groundwater conditions exposed and observed at the specific boring locations during our investigation are representative of soils and groundwater conditions throughout the alignment. If during construction, subsurface conditions or assumed design information is found to be different, we should be advised at once so that we can review this report and reconsider our recommendations in light of the changed conditions. If there is a significant lapse of time between submission of this report and the start of work at the site, or if conditions have changed due to acts of God or construction at or adjacent to the site, it is recommended that this report be reviewed in light of the changed conditions and/or time lapse.

This report was prepared for the use of the City of Roseburg and its team in the design and construction of the subject Parrott and Spruce Street improvements. It should be made available to contractors for information and factual data only. This report should not be used for contractual purposes as a warranty of site subsurface conditions. It should also not be used at other sites or for projects other than the one intended.

We have performed these services in accordance with generally accepted geotechnical engineering practices in southern Oregon at the time the study was accomplished. No other warranties, either expressed or implied, are provided.

THE GALLI GROUP
GEOTECHNICAL CONSULTING



Bill Galli, P.E., G.E.
Senior Principal Engineer



LEGEND

B-1
 BORING NUMBER AND APPROXIMATE LOCATION



0 150 300



SCALE IN FEET

SITE AERIAL PROVIDED BY GOOGLE EARTH



THE GALLI GROUP
 GEOTECHNICAL CONSULTING
 612 NW 3rd Street
 Grants Pass, OR 97526

SITE PLAN WITH BORING LOCATIONS

SPRUCE-PARROT ROADWAY STUDY
 ROSEBURG, OREGON

DATE: JULY 2015
 JOB NO: 02-5083-01
 REV: 7/24/2015 7:02 AM
 PREPARED BY: MG3

5083 Spruce Parrot Roseburg - 02 - Site Plan.dwg

FIGURE:

2

APPENDIX A

BORING LOGS

BORING LOGS

Please note that the soil descriptions given below are representative of how the field representative observed and classified them at the time of exploration. However, these should not be used as a guarantee of subsurface conditions across the site. Any interpretation or estimates made by others based on these logs, is done at their risk.

B-1

0.0 – 0.4	Asphaltic Concrete, 2 lifts, 2 ¼" over 1 ¼".
0.4 – 0.6	¾" Minus Aggregate Base
0.6 – 1.9	Dense, gray brown, clayey 2 ½" Subbase Crushed Rock; moist.
1.9 – 4.0	Medium stiff, dark gray, gravelly CLAY; moist. SPT 1.9' – 3.4'; 3/3/4; N = 7 SPT 3.4' – 4.9'; 2/2/4; N = 6
4.0 – 4.9	Medium stiff, light brown, silty CLAY; moist.

No Free Groundwater or Seepage Encountered.
Bottom of Boring at 4.9 Feet.

B-2

0.0 – 0.3	Asphaltic Concrete, 2 lifts, 1 ½" over 1 ½".
0.3 – 0.6	Dense, gray brown, ¾" minus crushed Aggregate Base.
0.6 – 1.0	Medium dense to dense, gray brown, clayey 3" minus subrounded Subbase Rock; moist.
1.0 – 4.0	Medium stiff, gray, silty CLAY; moist. SPT 1.5' – 3.0'; 2/3/4; N = 7 SPT 3.0' – 4.5'; 4/6/7; N = 13
4.0 – 4.5	Stiff, brown, silty CLAY; moist.

No Free Groundwater or Seepage Encountered.
Bottom of Boring at 4.5 Feet.

B-3

- 0.0 – 0.2 Asphaltic Concrete, 1 lift, 2".
 0.2 – 0.7 Portland Cement Concrete Slab, 6".
 0.7 – 4.5 Medium stiff, dark gray, silty CLAY; moist.
 SPT 1.5' – 3.0'; 2/3/4; N = 7
 Becomes light Brown at 3.0 feet
 SPT 3.0' – 4.5'; 2/2/5; N = 7

No Free Groundwater or Seepage Encountered.
 Bottom of Boring at 4.5 Feet.

B-4

- 0.0 – 0.3 Asphaltic Concrete, 2 lifts, 2" over 2".
 0.3 – 0.7 Dense, gray brown, ¾" Aggregate Base.
 0.7 – 1.8 Medium Dense to Dense, brown to black, Sand and Gravel; dry to slightly moist. Very dense subrounded cobbles at 1.2 feet.
 1.8 – 4.8 Medium stiff, gray, sandy CLAY; moist, brown clay in tip.
 SPT 1.8' – 3.3'; 3/3/4; N = 7
 SPT 3.3' – 4.5'; 2/4/5; N = 9

No Free Groundwater or Seepage Encountered.
 Bottom of Boring at 4.8 Feet.

B-5

- 0.0 – 0.2 Asphaltic Concrete, 1 lift, 2" lift.
 0.2 – 0.4 Dense, 2" minus crushed Aggregate Base.
 0.4 – 1.3 Dense, brown, clayey, subrounded 2" minus, Sand and Gravel Subbase; 6" cobbles at 1.0'.
 1.3 – 4.5 Medium stiff to stiff, gray CLAY; moist.
 SPT 1.5' – 3.0'; 4/2/3; N = 5
 SPT 3.0' – 4.5'; 4/5/8; N = 13

No Free Groundwater or Seepage Encountered.
 Bottom of Boring at 4.5 Feet.

APPENDIX B

LABORATORY TEST RESULTS



THE GALLI GROUP

Geotechnical Consulting

612 Northwest Third Street,
Grants Pass, Oregon 97526

Client: ei Engineering
Project: Spruce Parrott Road
Test: ASTM D-1883, California Bearing Ratio (CBR)
Soil Type: Gray-brown, sandy, silty Clay

Date: 7/22/15
Date Sampled: 7/9/15
Job No.: 02-5083-01
Sample: B-1 @ 1.9' to 3.5'

CBR Value: 6.8

Swell: 0.7%

Compacted utilizing ASTM D-698 (Standard Proctor) at 19.5 % moisture

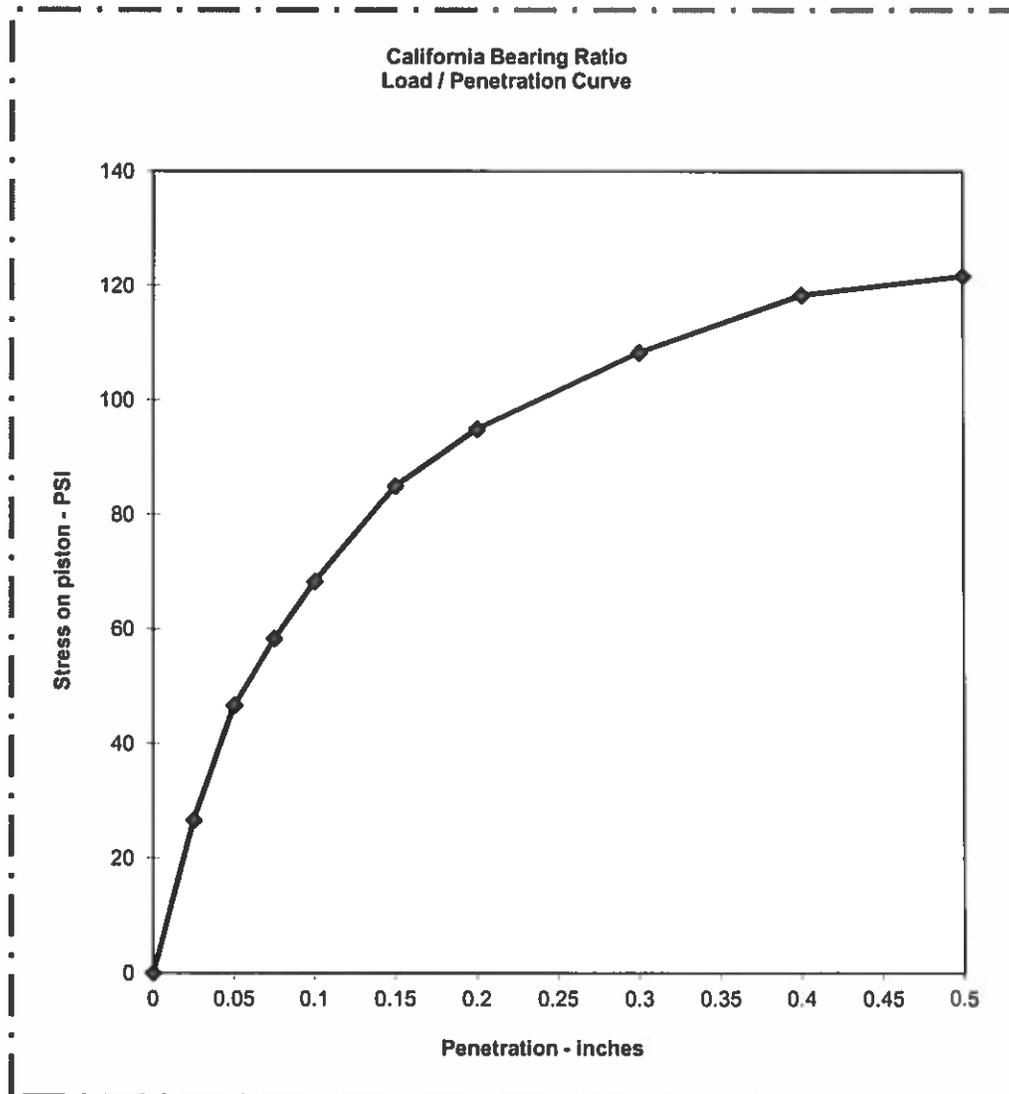
Tested Dry Density: 107.6 pcf @ 96.2% of Maximum Laboratory Density

Surcharge on sample: 12.6 pounds

Sample soaked 49.75 hours

Average moisture of sample after soaking: 19.5%

Moisture after soaking- upper 1" of sample: 18.7%



By: Aaron Reeser



THE GALLI GROUP

Geotechnical Consulting

612 Northwest Third Street,
Grants Pass, Oregon 97526

Client: ei Engineering
Project: Spruce Parrott Road
Test: ASTM D-1883, California Bearing Ratio (CBR)
Soil Type: Gray, silty Clay

Date: 7/22/15
Date Sampled: 7/9/15
Job No.: 02-5083-01
Sample: B-2 @ 1.5' to 3.0'

CBR Value: 7.0

Swell: 1.1%

Compacted utilizing ASTM D-698 (Standard Proctor) at 24.4 % moisture

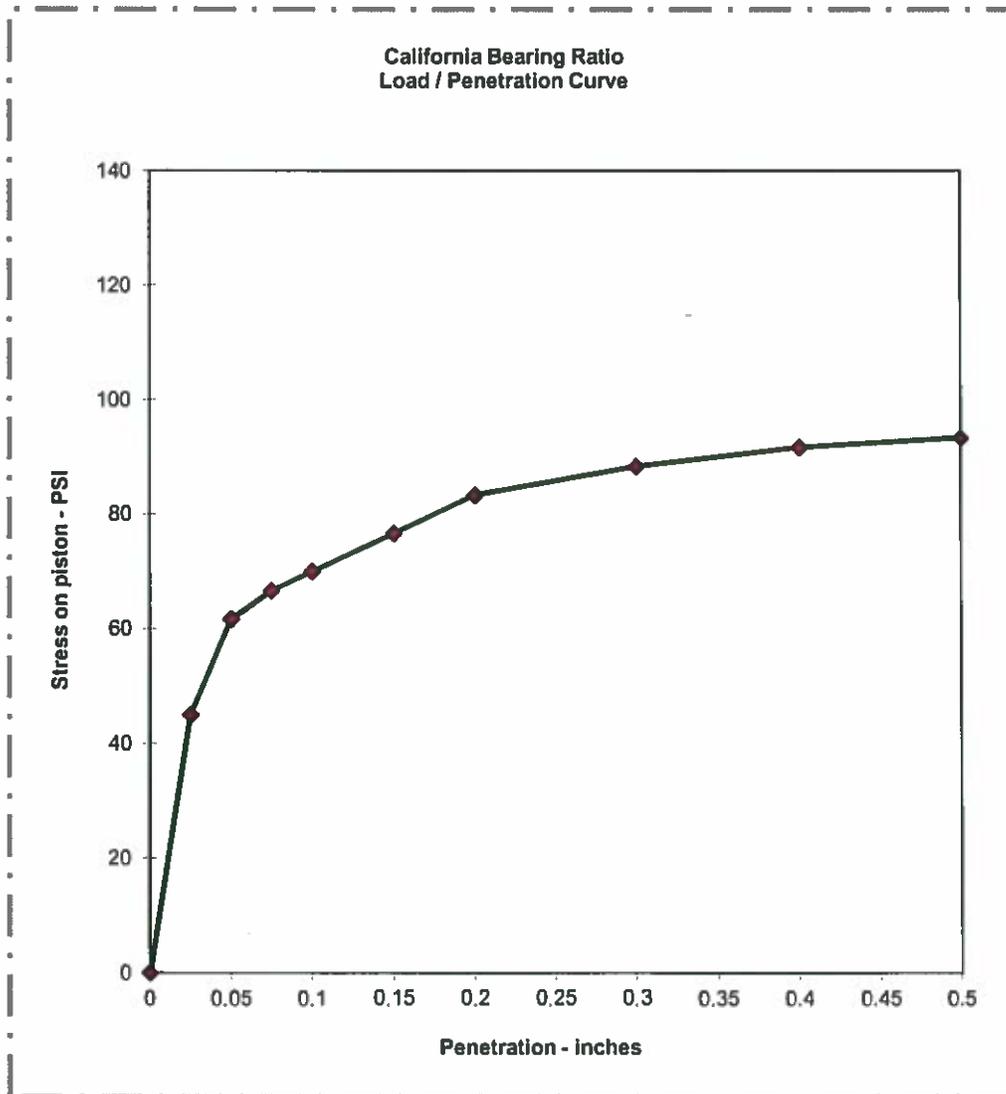
Tested Dry Density: 95.6 pcf @ 94.5% of Maximum Laboratory Density

Surcharge on sample: 12.6 pounds

Sample soaked 50 hours

Average moisture of sample after soaking: 26.6%

Moisture after soaking- upper 1" of sample: 27.0%



By: Aaron Reeser



THE GALLI GROUP
Geotechnical Consulting

Expansion Index Worksheet (ASTM D-4829)

Client: ie Engineering
Project Spruce Parrott Road
Job No: 02-5083-01
Test Date: 7/22/2015
Sample Location: B-1 @ 1.9' to 3.5'
Sample Date: 7/9/2015
Description of Soil: Gray-brown, sandy, silty Clay

Expansion Index measured (El_m):

$El_m = \Delta H / H_{orig} * 1000$
begin dial 0.0153
end dial: 0.0623
El_m: 47

Weight of ring (g): 365.3
Wt. Wet sample in ring(g): 747.2
Sample Wet Weight (g): 381.88
Sample Length (in.): 1
Sample Diameter (in.): 4.01
Volume of sample (ft³): 0.007309
Sample Unit Wt. (PCF): **115.1**
Sample Dry Unit Wt. (PCF): **101.9**

Saturation (S):

$S = (SG)(w) / \gamma_d / (SG) * 62.4 - \gamma_d$
SG: 2.7
 γ_d : 101.9
%w : 13.0
S = 54

As prepared for testing:

can no. G-8
wet weight of soil + can (g) 599.72
dry weight of soil + can (g) 552.98

weight of can (g) 192.07
weight of dry soil (g) 360.91
weight of water (g) 46.74
moisture content (% of dry weight) 13.0

El₅₀ Calculation:

$El_{50} = El_m - (50 - S_m) * [(65 + El_m) / (220 - S_m)]$
El_M 47
S 54
El₅₀ = 49

After testing:

can no. G-7
wet weight of soil + can (g) 608.79
dry weight of soil + can (g) 528.76
weight of can (g) 191.62
weight of dry soil (g) 337.14
weight of water (g) 80.03
moisture content (% of dry weight) 23.7

#4 + (dry wt.) 0.57
#4 - (dry wt.) 4.87
% Passing #4 Sieve = 89.5

Tested By Aaron Reeser



THE GALLI GROUP
Geotechnical Consulting

Expansion Index Worksheet (ASTM D-4829)

Client: ie Engineering
Project Spruce Parrott Road
Job No: 02-5083-01
Test Date: 7/22/2015
Sample Location: B-2 @ 1.5' to 3.0'
Sample Date: 7/9/2015
Description of Soil: Dark gray, silty Clay

Expansion Index measured (Elm):

$$El_m = \Delta H / H_{orig} * 1000$$

begin dial 0.0187
end dial: 0.0970
El_m: 78

Weight of ring (g): 191.6
Wt. Wet sample in ring(g): 566.1
Sample Wet Weight (g): 374.53
Sample Length (in.): 1
Sample Diameter (in.): 4.01
Volume of sample (ft³): 0.007309
Sample Unit Wt. (PCF): **112.9**
Sample Dry Unit Wt. (PCF): **97.5**

Saturation (S):

$S = (SG)(w) / \gamma_d / (SG) * 62.4 - \gamma_d$
SG: 2.7
 γ_d : 97.5
%w : 15.7
S = 58

As prepared for testing:

can no. G-6
wet weight of soil + can (g) 558.02
dry weight of soil + can (g) 508.05

weight of can (g) 190.36
weight of dry soil (g) 317.69
weight of water (g) 49.97
moisture content (% of dry weight) 15.7

El₅₀ Calculation:

$El_{50} = El_m - (50 - S_m) * [(65 + El_m) / (220 - S_m)]$
El_M 78
S 58
El₅₀ = 86

After testing:

can no. G-9
wet weight of soil + can (g) 597.23
dry weight of soil + can (g) 505.59
weight of can (g) 191.60
weight of dry soil (g) 313.99
weight of water (g) 91.64
moisture content (% of dry weight) 29.2

#4 + (dry wt.) 0
#4 - (dry wt.) 4.32
% Passing #4 Sieve = 100.0

Tested By Aaron Reeser