

ADDENDUM No. 3

**RESERVOIR AND PUMP STATION No. 2
CITY OF NORTH PLAINS, OREGON
Stantec Project No. 2002300044
September 25, 2019**

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To: Plan Holders

DOCUMENT HOLDERS on the above-named project are hereby notified that this Addendum No. 3 constitutes changes, additions, and/or deletions to the aforementioned contract documents and are by issuance as binding as if originally incorporated in the Contract Documents. All provisions of the Contract Documents not in conflict with Addendum No. 3 shall remain in full force. Bidders shall acknowledge receipt of all addenda on the Bid Form. Failure to do so may subject the Bidder to disqualification. This addendum consists of a total of 34 pages (this Addendum No. 3 two-page cover sheet plus 32 pages of attachments).

Changes to contract document specifications:

In the attachments, items underlined are additions; items bubbled to the right of the page and called out as “deleted” are deletions.

1. Section 00 21 13 Instructions to Bidders
 - a. See attached revisions to pages 4, 6
2. Section 00 41 00 Bid Forms
 - a. See attached revisions to pages 7, 10
3. Section 01 23 00 Alternates
 - a. See attached revisions to page 2
4. Section 28 13 19 Security Access and Surveillance
 - a. See attached revisions to page 3
5. Section 32 31 00 Heavy-Duty Automatic Swing Gate System
 - a. See attached revisions to page 1
6. Section 33 92 20 Ductile Iron Piping
 - a. See attached revisions to page 3
7. Section 43 40 00 Factory-Coated Bolted Steel Water Reservoirs
 - a. See attached revisions to pages 1, 8, 10, 12, 14, 15
8. Section 43 40 02 Field-Coated Welded Steel Water Reservoirs
 - a. See attached revisions to page 1, 5, 6, 10

Changes to contract document drawings:

Changes to drawings are clouded and marked with a triangle indicating the revision number, date, and description.

1. See attached revisions to drawing GC-4.

Clarification:

A full, clean, and current Specification Section 00 41 00 – Bid Forms, is provided for your use.

END OF ADDENDUM

9. **SUBSTITUTE OR "OR EQUAL" ITEMS.** Whenever materials or equipment are specified or described in the Contract Documents by using the name of a particular manufacturer and the name is followed by the words "or equal", the Bidder may write the name of a substitute manufacturer (which the Bidder considers as an "or equal") in the List of Proposed Substitutions in the Bid Forms. These substitute manufacturers will only be considered after award of the Contract. The procedure for the submittal of substitute or "or equal" products is specified in Section 016000 - Products, Materials, Equipment, and Substitutions. The Bidder shall not be relieved of any obligations of the Contract Documents or be entitled to an adjustment in the Contract Price in the event any proposed substitute manufacturer is not subsequently approved.

10. **COMPETENCY OF BIDDERS.** In selecting the lowest responsive, responsible Bidder, consideration will be given to the general competency of the Bidder for the performance of the WORK covered by the Bid. To this end, each Bid shall be supported by a statement of the Bidder's experience as of recent date on the form entitled "INFORMATION REQUIRED OF BIDDER" bound herein.

11. **BASIS OF BID**

A. **Base Bid with Alternates**

1) Bidders shall submit a Bid on a lump sum basis for the base Bid and include a separate price for each alternate described in the Bidding Documents and as provided for in the Bid Form. The price for each additive alternate will be the amount added to the base Bid if Owner selects the alternate.

2) In the comparison of Bids, alternates will be applied in the same order of priority as listed in the Bid Form.

3) Additive Alternates are described in Section 01 23 00 and below:

Additive Alternate 1: Furnish and install vertical extension of reservoir to achieve 2.0 million gallon capacity shown on drawing C-4 / M-8 and including vertical extension of inlet pipeline, ladder, and all reservoir accessories.

Additive Alternate 2: Furnish and install pump / motor / VFD for P-202 and P-204 along with associated discharge piping shown to be future on drawing M-9, I-3.

Additive Alternate 3: Provide Additive Alternate 1 with a glass-fused-to-steel coating described in Specification Section 43 00 00, 2.5 A 1 a).

Additive Alternate ~~4~~: Furnish and install heavy-duty swing gate system with motorized operators and all accessories per Section 323100 and drawings C-1, E-2, E-4 in lieu of chain link gate shown in detail C-102.

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Additive Alternate ~~5~~: Furnish and install vortex plate inside reservoir on outlet piping shown to be future on drawing M-9.

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B. Instrumentation Goods and Services by Portland Engineering Inc. 2020 SE 7th Ave # 200, Portland, OR 97214 (503) 256-7718 shall be included in the Bid. The Control System scope of supply is defined by 40 91 00 and, as a summary includes the supply of the control panels, instrumentation, master SCADA system modifications, software development, and final acceptance testing. The work shall be provided under the supervision of an engineer licensed in the State of Oregon. The CONTRACTOR shall furnish and install conduit and wiring and make all terminations.

cause its rejection as being non-responsive. The Bid forms shall be completed without interlineations, alterations, or erasures in the printed text. Alternative Bids will not be considered unless called for. Oral, telegraphic, or telephonic Bids or modifications will not be considered.

17. WITHDRAWAL OF BID. The Bid may be withdrawn by the Bidder by means of a written request, signed by the Bidder or its properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of Bids prior to the scheduled closing time for receipt of Bids.

18 EVALUATION OF BIDS

A. In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices, and other data, as may be requested in the Bid Form or prior to the Notice of Award.

B. In the comparison of Bids, alternates will be applied in the same order of priority as listed in the Bid Form. To determine the Bid prices for purposes of comparison, Owner shall announce to all bidders a "Base Bid plus alternates" budget after receiving all Bids, but prior to opening them. For comparison purposes alternates will be accepted, following the order of priority established in the Bid Form, until doing so would cause the budget to be exceeded. The Successful Bidder will have the greatest number of alternates selected. In the event that more than one bidder has the highest number of alternates selected, the Successful Bidder will have the lowest price for the accepted alternates. After determination of the Successful Bidder based on this comparative process and on the responsiveness, responsibility, and other factors set forth in these Instructions, the award may be made to said Successful Bidder on its base Bid and any combination of its additive alternate Bids for which Owner determines funds will be available at the time of award.

19. FIRST TIER SUBCONTRACTOR DISCLOSURE

A. Pursuant to ORS 279C.370(2), within two working hours after the date and time of the deadline when bids are due to a contracting agency for a public improvement contract, a bidder shall submit to the contracting agency a disclosure of the first-tier subcontractors that: 1) will be furnishing labor or will be furnishing labor and materials in connection with the public improvement contract; and 2) will have a contract value that is equal to or greater than: a) five percent of the total project bid, or \$15,000, whichever is greater, or b) \$350,000 regardless of the percentage

B. The disclosure of first-tier subcontractors under this subsection must include the name of each subcontractor, the category of work that each subcontractor will perform and the dollar value of each subcontract. The information shall be disclosed in the form provided in this bid document.

C. If the Bidder will not be using any Subcontractors that are subject to the above disclosure requirements, you are required to indicate "None" on the accompanying form.

D. THE OWNER MUST REJECT A BID IF THE BIDDER FAILS TO SUBMIT THE DISCLOSURE FORM WITH THIS INFORMATION BY THE STATED DEADLINE, EVEN IF NO SUBCONTRACTORS ARE LARGE ENOUGH TO BE DISCLOSED PER OAR 125-249-0360.

20. BID REJECTION. The OWNER reserves the right to reject any or all bids not in compliance with all prescribed public bidding procedures and requirements, may reject for good cause any and all bids upon finding of the agency it is in the public interest to do so, and may waive all informalities.

BID PROPOSAL - LUMP SUM (page 1 of 2)

This Bid is in strict accordance with the plans and specifications attached, on the basis of Base Bid with Alternates:

PROJECT NAME: RESERVOIR AND PUMP STATION No. 2

Items	Quantity	Unit	Unit Price \$	Total Price \$ Figures
Base Bid project including 1.0 MG reservoir built for future expansion to 2.0 MG	1	LS		
Additive Alternate No. 1: Reservoir vertical extension to 2.0 MG	1	LS		
Additive Alternate No. 2: Pumps P-202 and P-204	1	LS		
Additive Alternate 3: Provide Additive Alternate 1 with a glass-fused-to-steel coating described in Specification Section 43 00 00, 2.5 A 1 a).	1	LS		
Additive Alternate No. 4: Heavy Duty Swing Gate	1	LS		
Additive Alternate No. 5: Vortex Plate	1	LS		
TOTAL BID PRICE (sum of six items above)				
				(dollars)
In words				

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The undersigned agrees, if awarded the Contract, to execute and deliver to the OWNER within fifteen (15) days after receiving the Contract forms, an Agreement and satisfactory Construction Performance and Construction Payment Bonds each in an amount equal to one hundred percent (100%) of the Contract sum, using forms provided therefore by the OWNER. The Surety requested to issue the Construction Performance Bond will be:

(Name of Surety Company)

(Agent Name & Phone Number)

The undersigned hereby authorizes said Surety to disclose any information to the OWNER concerning the undersigned's ability to supply a Construction Performance Bond in the amount of the Contract.

The undersigned agrees that if awarded the Contract, that it will comply with the provisions of the Contract Documents and will comply with the provisions of ORS 279C.800 and Oregon Prevailing Wage Rates.

Name of project.
Location of project.
Brief description of the work involved.
Contract amount.
Date of completion of contract.
Name, address, and telephone number of architect or engineer.
Name of owner's project engineer.

To be considered for award, the Contractor shall have completed at least three projects of similar type and complexity and comparable value.

This project consists of a 1.0 MG Steel Water Reservoir, Pump Station, Ground Improvements, and Control System.

(7) Base Bid Steel Reservoir Description:

Indicate "Factory Coated Bolted" or "Field Coated Welded":

Indicate Interior Coating Type:

Indicate Exterior Coating Type:

- M. Submit bids for Base Bid and all Alternates listed on Bid Form. Failure to quote an amount, or insertion of the words "no bid," "none" or words of similar meaning, will be considered as not completing the proposal and may constitute disqualification of entire bid, at Owner's discretion. When there is no change in base bid due to using the Alternate, use the words "No Change". The words "No Change" will be interpreted to mean that work described in the Alternate shall be completed at no adjustment or change in cost of Base Bid.
- N. Base Bid and Alternates are exclusive in their scope of work. There is no overlap between or among Base Bid and Alternates. The cost of any item of work shall be included only once, in Base Bid or in Alternates.

1.2 DESCRIPTION OF ADDITIVE ALTERNATES

- A. Additive Alternate 1: Furnish and install vertical extension of reservoir to achieve 2.0 million gallon capacity shown on drawing C-4 / M-8 and including vertical extension of inlet pipeline, ladder, and all reservoir accessories.
- B. Additive Alternate 2: Furnish and install pump / motor / VFD for P-202 and P-204 along with associated discharge piping shown to be future on drawing M-9, I-3.
- C. Additive Alternate 3: Provide Additive Alternate 1 with a glass-fused-to-steel coating described in Specification Section 43 00 00. 2.5 A 1 a).
- D. Additive Alternate 4: Furnish and install heavy-duty swing gate system with motorized operators and all accessories per Section 323100 and drawings C-1, E-2, E-4 in lieu of chain link gate shown in detail C-102.
- E. Additive Alternate 5: Furnish and install vortex plate inside reservoir on outlet piping shown to be future on drawing M-9.

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PART 2 - PRODUCTS NOT USED

PART 3 - EXECUTION NOT USED

END OF SECTION

3. Have two internal drive bays each with a drive of at least 2 terabytes (TB) capacity.
4. Have a port for connection to an external storage device.
5. Have menu programming, independent monitor outputs, and on-screen alphanumeric displays of camera titles, time, and date. The DVR shall provide on-screen programming on the monitor and be provided with any remote needed for setup and operation.
6. The DVR shall have a record lock feature for security and to prevent unwanted tampering.
7. Have an Ethernet port supporting Internet Protocol version 6 (IPv6) and HTTP, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, and FTP protocols for connection to future off-site facilities.
8. ~~(1) HDMI port and (1) VGA port.~~
9. Digital video recorders shall be **Lorex**, or equal.

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B. Cameras

1. Cameras shall have color 4K resolution at day and night. Cameras shall have color night vision in low light conditions. Each camera shall have an active infrared emitter with enough power for 100 feet range in no light conditions for monochrome vision.
2. Cameras shall automatically adjust brightness in changing light conditions, have high dynamic range, automatic white balancing, and digital noise reduction to filter out noise from low-light conditions.
3. Cameras shall have use Power-over-Ethernet (POE) connection to the DVR.
4. Cameras shall be rated for outdoor installation and have metal housing.
5. Provide four outdoor cameras.
6. Provide cables for each camera and any accessories recommended for outdoor locations.
7. Cameras shall be **Lorex**, or equal.

C. Video Monitor

1. Pump Room
 - a. The color video monitor shall feature a 24-inch minimum screen with 4K Ultra HD (UHD) (3840 x 2160) resolution cameras at 30 frames per second (fps). Monitors shall have at least one HDMI video input port. Monitors shall have a power cord with a standard NEMA 15-5 three prong plug. Monitors shall have built-in buttons for power, input selection and volume control. Monitors shall be provided with a remote control.
 - b. The power source shall be 120 VAC, 60 Hz. The monitors shall be UL listed.
 - c. Monitors shall be **Dell, Sony, Samsung**, or equal.

SECTION 32 31 00 – HEAVY-DUTY AUTOMATIC SWING GATE SYSTEM

PART 1 -- GENERAL

1.1 THE REQUIREMENT

- A. The work in this section shall include furnishing all labor, materials, equipment and appliances necessary to complete all Heavy Duty Automatic Swing Gate Systems required for this project in strict accordance with this specification section and drawings. The gate, operator, and controllers shall be specifically designed to complement each other as a system.
- B. Base Bid. The base bid includes a double-leaf chain link gate per detail C-102 along with provisions for a future Heavy-Duty Swing Gate System.
- C. Additive Alternate No. 4. Under additive alternate No. 4, Contractor shall furnish and install heavy-duty swing gate system with motorized operators and all accessories per Section 323100 and drawings C-1, E-2, E-4 in lieu of chain link gate.

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1.2 REFERENCES

- A. **Codes:** All codes, as referenced herein, are specified in Section 01 42 19 - Reference Standards.
- B. **Reference Specifications**
 - 1. 01 33 17 Structural Design, Support, and Anchorage
- C. American Society for Testing and Materials (ASTM) Publications
 - 1. ASTM A653/A653M – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dip Process
 - 2. ASTM B117 – Practice for Operating Salt Spray (Fog) Apparatus
 - 3. ASTM D523 – Test Method for Specular Gloss
 - 4. ASTM D822 – Practice for Conducting Tests on Paint and Related Coatings and Materials Using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus
 - 5. ASTM D1654 – Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
 - 6. ASTM D2244 – Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates
 - 7. ASTM D2794 – Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
 - 8. ASTM D3359 – Test Method for Adhesion by Tape Test
 - 9. ASTM F 2200 -- Standard Specification for Automated Vehicular Gate Construction
 - 10. ASTM F2408 – Ornamental Fences Employing Galvanized Steel Tubular Pickets

- D. Laying Lengths: Nominal pipe laying lengths shall be 20-feet.
- E. Finish: The pipe shall have smooth dense interior surfaces and shall be free from fractures, excessive interior surface crazing, and roughness.
- F. Closures and Correction Pieces: Closures and correction pieces shall be provided as required so that closures may be made due to different headings in the pipe laying operation and so that correction may be made to adjust the pipe laying to conform to pipe stationing on the Drawings. The locations of correction pieces and closure assemblies are indicated. Any change in location or number of said items shall only be as accepted by the ENGINEER.

2.2 SPECIALS AND FITTINGS

- A. Fittings for ductile iron pipe shall conform to the requirements of AWWA C153 or AWWA C110 and shall have a minimum pressure rating of 250 psi.

2.3 DESIGN OF PIPE

- A. The pipe shall be designed, manufactured, tested, inspected, and marked according to AWWA C150 and C 151 except where modified by this Section.
- B. Pipe Dimensions: The pipe shall be of the diameter and class indicated.
- C. Fitting Dimensions: The fittings shall be of the diameter and class indicated.
- D. Joint Design: Ductile iron pipe and fittings for buried pressure service shall be furnished with restrained joints, unless otherwise indicated. Ductile iron pipe and fittings for buried gravity service shall be furnished with mechanical joints or push-on joints as required, unless otherwise indicated. Above ground ductile iron pipe and fittings joints shall be as indicated. Flanged joints or grooved and shouldered joints shall be furnished where required.
 - 1. Mechanical and push-on joints shall conform to AWWA C111.
 - 2. Flanged joints shall conform to AWWA C115. Where threaded flanges are provided, the pipe wall thickness under the cut threads shall not be less than the calculated net thickness required for the pressure class of the pipe.
 - 3. Restrained joints shall be **Flex-Ring or Lok-Ring** restrained joint by **American Ductile Iron Pipe, TR FLEX** or HP Lokrestrained joint by **U.S. Pipe**, or equal. Megalug Series 1100, Romac Grip Ring, or equal are acceptable means of restraint for fittings.
 - 4. Joint restraining devices that impart point loads and/or wedging action on the pipe wall as a means of joint restraint shall not be allowed unless there are no other options for joint restraint available. Under such circumstances, the CONTRACTOR may propose such devices provided the following conditions are met and the request is made as a substitution:
 - a. A formal request for substitution is submitted stating the locations where the devices are intended to be used and a statement from the device manufacturer and the pipe manufacturer that the proposed device is appropriate for the intended installation and is rated at least for the class of the pipe being supplied.

SECTION 43 40 00 – FACTORY-COATED BOLTED STEEL WATER RESERVOIRS

PART 1 - GENERAL

1.1 SCOPE

- A. The Contractor shall design, provide, and erect a factory coated bolted steel water reservoir and all components, including but not limited to all pipe penetrations and connections to the tank, cathodic protection, pipe and supports, ladders, manholes, railing, access hatches, roof vents and their connections to the tank, complete and operable, in accordance with the Contract Documents.
- B. All steel shall be smelted and produced in the United States of America and meet American Iron and Steel Act requirements. Deleted: , including tank hardware
- C. Base Bid. The base bid includes a complete 1.0 MG reservoir described in the contract documents. The structure of the base bid 1.0 MG reservoir shall be designed to support future extension of the walls vertically upward to achieve a 2.0 G capacity, shown as future in the drawings.
- D. Additive Alternate No. 1. Under additive alternate No. 1, Contractor shall furnish and install vertical extension of reservoir to achieve 2.0 million gallon capacity shown on drawing C-4 / M-8 and including vertical extension of inlet pipeline, ladder, and all reservoir accessories.
- E. Additive Alternate 3: Provide Additive Alternate 1 with a glass-fused-to-steel coating described in Specification Section 43 00 00, 2.5 A 1 a).
- F. The Contractor shall be fully responsible for design, permitting, furnishing and installing the tank, including all appurtenances and the final testing.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. All design and construction of bolted steel reservoir shall conform to the requirements of American Water Works Association (AWWA) D103-09 Standard for Factory-Coated Bolted Carbon Steel Tanks for Water Storage and Section 013317.
- C. Design and construction of water storage tank active corrosion control shall conform to AWWA Standard D104-17 Automatically Controlled, Impressed-Current Cathodic Protection for the Interior Submerged Surfaces of Steel Water Storage Tanks.
- D. Design and construction of tank roof shall conform to ANSI/AWWA D108-10 Aluminum Dome Roofs for Water Storage Facilities.
- E. Disinfection shall conform to ANSI/AWWA C652-11 Disinfection of Water-Storage Facilities.

12. Dormers, doors, and hatches: AA6061-T6, AA6005AT6, AA5086-H34 or AA5052-H36 aluminum, 0.090inch (2 mm) nominal thickness.

2.4 ACCESSORIES

- A. Shell Manhole: Provide two 3-inch, minimum, hinged shell manholes located as shown on the Drawings. The center of the manhole shall be located 30 inches above the bottom of the tank.
- B. Pipe Connections:
 1. Provide inlet nozzle, outlet nozzle with anti-vortex plate, and overflow and drain outlets.
 2. Where pipe connections are shown to pass through tank panels, they shall be field located, saw cut, (acetylene torch cutting or welding is not permitted), and utilize an interior and exterior flange assembly, Tank shell reinforcing shall comply with AWWA D103 latest edition. A single component urethane sealer shall be applied on any cut panel edges or bolt connections.
- C. Overflow Pipe: Provide steel internal overflow pipe, internal weir box, and supports as shown on the Drawings. Overflow pipe assembly shall be powder epoxy lined and coated for corrosion protection.
- D. Ladders:
 1. Fabricate ladders with rails, rungs, landings, and ladder safety systems to meet applicable requirements of OSHA 1910, CFR Part 1910.27, AWWA-D103, ASCE 7-10 Sect. 4.5.4, CCR Title 8-Sect. 32777, and ALI AI4.3.
 - a. Concentrated load of 250 pounds plus 30 percent impact on rungs.
 - b. Maximum rung deflection of 1/360.
 - c. Concentrated load of 250 pounds plus 30 percent impact between consecutive attachments.
 - d. Self-closing gates at landings.
 - e. For additional fabrication requirements see Section 05 50 00, Miscellaneous metalwork
 2. Flat Bar Ladders:
 - a. Punch rails, pass rungs through rails, and weld on outside.
 - b. Weld brackets to the ladder for fastening ladder to wall.
 - c. Hot-dip galvanize steel after fabrication in accordance with ASTM A123/A123M and ASTM A385.
 3. Aluminum Pre-engineered Pipe Ladders:
 - a. Rungs:
 - 1) Aluminum extrusions of Alloy 6063- T6.
 - 2) Nonslip grip surface, 1-inch wide.
 - b. Side Rails: ASTM B429, Alloy 6063- T6, 6105 or 6005 T6, 1-1/2 inches, Schedule 40 pipe or I beam profile with anodized finish, AA M32-C22-A41.
 - c. Fasteners for Ladder Attachments: Stainless or galvanized steel.
 - d. Welded, pop riveted, or glued construction is not acceptable.

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single handrail to vent is required in all circumstances. Provide anchor point for fall protection adjacent to vent.

2. The tank roof shall have one hatch adjacent to the platform at the top of the ladder. Hatch opening shall be curbed, upward opening, 30 inches minimum square. The curb shall extend at least 4 inches above the tank shell. The hatch cover shall be hinged and shall have locking provisions. The hatch cover lip shall extend for a distance of 2 inches down on the outside of the curb.
3. Provide three (3) 4-inch flanged openings accessible from the platform landing to be used for level transmitter and level switch installations. Flanges shall be 6 inches clear of tank roof. Provide with blind flange covers. Make accessible from platform and surround 4-feet in all directions with nonskid surfacing.

- G. Gaskets and sealants shall meet or exceed AWWA, FDA, and EPA standards for potable water, and shall be NSF 61 certified.
- H. All floor and wall penetrations shall include reinforcement plates or "doubblers", with a fully welded, pressure testable interstitial space.
- I. Anchor bolts and stirrups shall be designed and furnished by the tank manufacturer.
1. Anchor bolts shall be cast-in-place type.

2.5 PROTECTIVE COATING

A. General:

1. Walls and floor: Glass, Thermoset Liquid Suspension, or Thermoset Powder per AWWA D103-09.
 - a. Glass-fused-to-steel Coatings in accordance with AWWA D103-09 Sec. 12.4 and this section
 - 1) Surface Preparation
 - a) Sheets shall be steel grit-blasted on both sides to the equivalent of SSPC SP-10 (Near-White Metal Blast Cleaning).
 - b) The surface anchor pattern shall be not less than 1.0 mil (0.001 inches).
 - 2) Sheet edges
 - a) After initial sheet preparation, all full height vertical wall sheets edges shall be rounded prior to coating with glass. Sheet edges must be rounded by grinding to allow the glass to cover the sheet edge in the same manner as the flat portion of the sheet to enable the same glass coating to be applied to all four sides of the sheet and ensure full encapsulation of the sheet edges with a minimum thickness of 5 mils of glass coating. (127 microns).
 - 3) Cleaning
 - a) After fabrication and prior to application of the coating system, all sheets shall be thoroughly cleaned by a caustic wash and hot rinse process followed immediately by hot air drying.
 - b) Inspection of the sheets shall be made for traces of foreign matter, soil particles, grease or rust.

(204° C) for one hour. The sheets will then be examined for signs of fishscale. Any sheet exhibiting fishscale shall be rejected and all sheets from that gage lot will be similarly tested.

- b. Thermoset Liquid Suspension Coatings
 - 1) Apply thermoset liquid suspension in compliance with AWWA D-103-09 Section 12.5 and this section.
 - 2) Coatings in contact with water shall be certified through NSF-61.
 - 3) All interior surfaces of the tank shall receive one coat of amine-cured thermoset epoxy with minimum DFT of 2 mils.
 - 4) The exterior surfaces of the tank shall receive one coat of epoxy primer with minimum DFT of 2 mils.
 - 5) The interior surfaces of the tank shall receive a second coat of amine-cured epoxy of 5-mil (127-um) minimum dry film thickness for a total of 7 mils on the interior.
 - 6) The exterior surfaces of the tank shall receive a finish coat of acrylic baking enamel and be thermally cured. Minimum dry film thickness of the finish coat shall be 4 mils (76 um) for a total minimum DFT of 6 mils on the exterior.
 - 7) Coated surfaces shall be inspected for any visible defect or holiday and coating thickness verified by a nondestructive mil-thickness test (Mikrotest or equal). Interior coating inspection shall include a holiday detection test in accordance with AWWA D-103 Section 12.9 and solvent rub test, in accordance with ASTM D5402 for organic coatings and ASTM D4752 for ethyl silicate (inorganic) zinc-rich primers. Any coating defect shall be repaired and shall pass inspection prior to shipment.
- c. Thermoset Powder Coatings
 - 1) Apply thermoset powder in compliance with AWWA D-103-09 Section 12.6 and this section.
 - 2) Coatings in contact with water shall be certified through NSF-61.
 - 3) Interior and exterior surfaces shall be dry-powder coated by electrostatic application with a powder coating.
 - 4) The interior shall have a minimum dry film thickness of 7-mils. The exterior shall have a prime coat of 3 mils minimum DFT and a topcoat of 3 mils minimum DFT for a total minimum DFT of 6 mils.
 - 5) Coated surfaces shall be inspected for any visible defect or holiday and coating thickness verified by a nondestructive mil-thickness test (Mikrotest or equal). Interior coating inspection shall include a holiday detection test in accordance with AWWA D-103 Section 12.9 and solvent rub test, in accordance with ASTM D5402 for organic coatings and ASTM D4752 for ethyl silicate (inorganic) zinc-rich primers. Any coating defect shall be repaired and shall pass inspection prior to shipment.

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2.6 CORROSION CONTROL

- A. A sacrificial anode cathodic protection system shall be designed and installed per AWWA D106 and NACE SP0196-2015 minimum requirements, using the specific conductance values below.

traffic shall be permitted to walk / travel on the floor surface. Tank to be constructed utilizing synchronized (hydraulic screw) jacking process, which keeps construction crews at grade level for safety and point access quality control. Any coating damage will be repaired per manufacturer's recommendations. No backfill shall be placed against the tank sidewall during or after the construction process.

B. Foundation:

1. Tank foundation shall be a reinforced concrete mat foundation of the size and configuration shown on the Drawings.
2. Anchor bolts shall be cast-in-place.

C. Sidewall Structure

1. Prior to a liquid test, all surface areas shall be visually inspected by the Engineer.
2. An electrical leak test shall be performed during erection using a wet sponge 9 volt leak detection device. All electrical leak points found on the inside surface shall be repaired in accordance with manufacturer's published touch up procedure.

D. Roof

1. Seal and firmly clamp dome panels in an interlocking manner.

3.3 FIELD TESTING AND INSPECTION

A. General: Interior of tank, including floor, shall be clean and free from dirt, foreign substance and debris. Testing shall not start until all materials are fully cured.

B. Bottom: ~~Demonstrate leak-tightness prior to erecting walls.~~

Deleted: Vacuum test seams in floor plates prior and d

C. Holiday Test: Perform a holiday test on all coated surfaces.

D. Shell: Test by filling with water to elevation of overflow. Completed storage tank shall show no leaks at end of 24-hour test period and conforming to Section 017410. No charge will be made for water required to fill tank.

1. Any leaks disclosed by this test shall be corrected by the authorized dealer in accordance with the manufacturer's recommendations at no additional cost to Owner.
2. Water remaining from unsuccessful testing shall be properly disposed of by Contractor.

Deleted: The maximum allowable leakage shall be 5 gallons per hour. ¶

E. Disinfection:

1. General: After testing has been satisfactorily completed, tank shall be disinfected.

2. Standards: Disinfecting of interior surfaces shall be performed in accordance with AWWA C652-02 "Disinfection of Water Storage Facilities" using chlorination method number two or number three. Any residual water discharged to the Overflow and Stormwater Pond shall be dechlorinated prior to discharge. Disinfection shall not take place until tank sealant is fully cured.
3. After disinfection, the tank shall be filled to the overflow level and allowed to stand for 5 days, minimum. Water in the tank shall be tested in accordance with OHA regulations to confirm absence of bacteria. The tank may be placed into service once acceptable test results are received.

F. Cathodic Protection System Energizing:

1. After the system is installed and the tank is filled, the cathodic protection constructor shall provide start-up service which includes energizing, testing, and adjusting the system for optimum performance of the cathodic protection system. This start-up service shall be in performed in accordance with ANSI/AWWA D104 Section 5.2 Testing. This start-up service shall be coordinated with the Engineer.

3.4 WARRANTY

- A. The tank manufacturer shall warrant the tank against any defects in workmanship, materials, and coatings for a period of five (5) years from the date of beneficial use by Owner. In the event any such defect should appear, it will be reported in writing to the manufacturer within one week following the end of the warranty periods.

END OF SECTION 43 40 00

SECTION 43 40 02 – FIELD-COATED WELDED STEEL WATER RESERVOIRS

PART 1 -- GENERAL

1.1 THE SUMMARY

- A. The CONTRACTOR shall design and provide welded steel water reservoirs and tanks, and all components, including but not limited to all pipe penetrations and connections to the tank, spiral steel stairs, ladders, manholes, railing, access hatches, roof vents and their connections to the tank, complete and operable, in accordance with the Contract Documents.
- B. All design and construction shall conform to the requirements of AWWA D100-11 and Section 01 33 17.
- C. All shop drawings and calculations shall be signed and stamped by a Structural or Civil engineer registered in the State where the project is located.
- D. Structural shop/fabrication drawings and calculations shall be submitted for review and approval prior to any ordering or fabrication.
- E. All steel shall be smelted and produced in the United State of America and meet American Iron and Steel Act requirements.
- F. Base Bid. The base bid includes a complete 1.0 MG reservoir described in the contract documents. The structure of the base bid 1.0 MG reservoir shall be designed to support future extension of the walls vertically upward to achieve a 2.0 G capacity, shown as future in the drawings.
- G. Additive Alternate No. 1. Under additive alternate No. 1, Contractor shall furnish and install vertical extension of reservoir to achieve 2.0 million gallon capacity shown on drawing C-4 / M-8 and including vertical extension of inlet pipeline, ladder, and all reservoir accessories.
- H. The Contractor shall be fully responsible for design, permitting, furnishing and installing the tank, including all appurtenances and the final testing.

Deleted: , including tank hardware

1.2 CONTRACTOR SUBMITTALS

- A. Furnish submittals in accordance with Section 01 33 00 - Contractor Submittals.
- B. Shop Drawings and Design Calculations: Shop drawings and design calculations shall include the following:
 - 1. Manufacturer's qualification submittal
 - 2. Prior to submitting for permits, the tank supplier shall submit the following to the Engineer for approval. Design stamped by Oregon Registered Engineer shall demonstrate compliance with AWWA D-100, the Oregon Structural Specialty Code, the IBC, and any other applicable code:
 - a. Detailed design calculations for the tank including all tank accessories and appurtenances, exclusive of the concrete foundation
 - b. Complete design calculations and details for the anchorage of the tank to the foundation.

Deleted: 3

4. The tank details shall be designed to eliminate unwelded joints that will promote corrosion, pockets that will accumulate rain water, and attachments to the shell which result in excessive localized stresses due to welding or imposed loads. The contact surfaces between the roof rafters and roof plates and the interior roof plate lap joints shall be seal welded.

Deleted: The exceptions to this requirement are the roof rafters and internal roof plate lap joints.

Deleted: primed before erection in accordance with Section 09 96 00 - Protective Coating

5. Seismic design shall be in accordance with Section 13 of AWWA D100. The seismic design values to be used shall be per Section 01 33 17.

6. Design Loads

a. Per criteria in Section 01 33 17.

7. If snow loads are required for design, full or unbalanced snow loads shall be used where such snow load will result in larger members or connections.

8. The overall height indicated on the drawings may not satisfy the freeboard required by the design. The contractor's engineer shall be calculated freeboard for each tank based on the above design criteria. All tank roof (plate, beams), shell components and their connections shall be designed for additional loading due to the restriction of the freeboard as required by the design.

9. All interior elements, columns, beams, ladders and pipes and their connections shall also be designed for additional seismic load due to submerged conditions.

10. The shell stresses shall also be calculated for additional stresses due to "kicker type" beam connections, anchor bolt seat connections, and shall be reinforced, if required.

11. The tank shall be anchored to its foundation with ductile anchor bolts, unless otherwise noted on the drawings.

12. The anchor bolts and their connections shall be designed to behave in a ductile manner during a seismic event. Anchor bolts shall be designed in accordance with both AWWA D-100 and ACI 318-Appendix D requirements.

13. The anchor bolts shall conform to ASTM F1554. The anchor bolts shall have a lock nut at top. Anchor bolts embedded in concrete shall be headed bolts or terminated with a washer plate and double nuts (one on each side of washer plate).

2.2 FALL PROTECTION

A. A welded steel clip on safety bracket, one per each quadrant (4 total) shall be provided and design for a minimum factored load of 5000 pounds in any direction. The shell and beams shall be designed for this loading.

2.3 TANK SHELL WELDING

A. Welds joining shell plates and wetted roof plates shall have complete joint penetration and fusion and shall be double-welded from both sides. The use of low-hydrogen electrodes is mandatory for manual welding of shell plates, for permanent attachments to the shell plates, for fittings, and for welds joining the shell plates to the bottom plates. Shell plates shall be rolled, regardless of material thickness.

2.4 ROOF AND COLUMNS

- A. The roof shall be designed for the minimum live load and shall have a pitch as indicated. Lateral bracing of rafter compression flanges shall not be assumed to be provided by friction between roof sheets and rafters. Rafters and bridging between rafters shall be designed of standard structural steel shapes (angles, bent plates, channels, or wide flange, strap plate or rods are not acceptable). The minimum roof plate thickness shall be 3/16-inch.
- B. Columns shall be fabricated from steel pipe sealed at both ends. Column bases shall be fabricated from steel plate and provided with the necessary gusset plates to distribute the load uniformly. The base plates shall be designed for a maximum foundation loading of 2,000 pounds per square foot, exclusive of the weight of water. The column bases shall not be welded to the bottom plates but shall be prevented from lateral movement by angle clips welded to the bottom plates. Where column base plates are placed over lap joints, filler plates shall be used to provide full bearing under the base. Structural steel shapes shall not be used for column bases.
- C. Nuts and bolts used for erection purposes shall be hot-dip galvanized after fabrication. Bolts inside the reservoir that support permanent loads, ladders, or appurtenances shall be Type 316L stainless steel.

2.5 TANK BOTTOM

- A. The tank bottom, including sketch and annular plates, shall be fabricated from steel plate not less than 1/4-inch thick. Annular bottom plates shall be provided per Section 13 of AWWA D100, except that the butt-welded joints shall be double-welded from both sides. The minimum annular plate width shall be determined by AWWA D100, Section 13.

2.6 ACCESSORIES

- A. Accessories such as inside and outside ladders, inlet, outlet, drainpipe, manhole through the shell, manhole through the roof, vent, tapped connections for pressure gauge and level transmitter, solar panels, and liquid level indicator shall be provided, located as indicated. The CONTRACTOR shall design and detail all tank accessories and appurtenances.
- B. Piping fittings, flanges, couplings, and appurtenances shall conform to Sections 43 10 50 - Piping, General, and 33 92 10 - Steel Pipe, Specials, and Fittings. Outside ladders shall extend to within 6-inches of the footing. Except as otherwise indicated, exterior ladders, bolts, and other exterior miscellaneous metal appurtenances shall be galvanized. Interior ladders, nuts and bolts, clips, and support angles shall be of Type 316L stainless steel.
- C. Design of the access manhole in the lowest ring of the shell shall conform to API 650 - Welded Steel Tanks for Oil Storage, and shall be hinged as indicated. Each tank shall have a minimum of two 30-inch diameter manholes.
- D. Submerged bolts inside the tank shall be Type 316L stainless steel.
- E. The roof hatch, stair, handrail, and guard rails shall be hot-dip galvanized after fabrication, unless noted otherwise on drawings.
- F. Ladders:
 - 1. Fabricate ladders with rails, rungs, landings, and ladder safety systems to meet applicable requirements of OSHA 1910, CFR Part 1910.27, AWWA-D100, ASCE 7-10 Sect. 4.5.4, CCR Title 8-Sect. 32777, and ALI A14.3.

Deleted: 6

Deleted: 30-inch diameter manholes are acceptable for the 2.0 million gallon tank configuration.

Deleted: 3

3.2 FABRICATION AND WELDING

- A. In assembly and during welding, the component parts shall be adequately clamped, supported, and restrained to minimize distortion and to control dimensions. Weld reinforcement shall be per AWWA D100.
- B. Upon completion of welding, weld spatter, flux, slag, burrs left by attachments, and excessive weld reinforcement shall be removed. Welds shall be repaired to produce a workmanlike appearance with uniform weld contours and dimensions. External corners and edges shall be ground to a minimum 1/16-inch radius. Internal corners and edges shall be ground to a minimum 1/8-inch radius, except that the internal roof plate edges shall be ground to a minimum 1/16-inch radius before application of prime coating.

3.3 FIELD TESTING AND INSPECTION

- A. General: Interior of tank, including floor, shall be clean and free from dirt, foreign substance and debris. Testing shall not start until all materials are fully cured.
- B. Bottom: Vacuum test seams in floor plates prior and demonstrate leak-tightness prior to erecting walls.
- C. Holiday Test: Perform a holiday test on all coated surfaces.
- D. Shell: Test by filling with water to elevation of overflow. Completed storage tank shall show no leaks at end of 24-hour test period and conforming to Section 017410. No charge will be made for water required to fill tank.
 - 1. Any leaks disclosed by this test shall be corrected by the authorized dealer in accordance with the manufacturer's recommendations at no additional cost to Owner.
 - 2. Water remaining from unsuccessful testing shall be properly disposed of by Contractor.

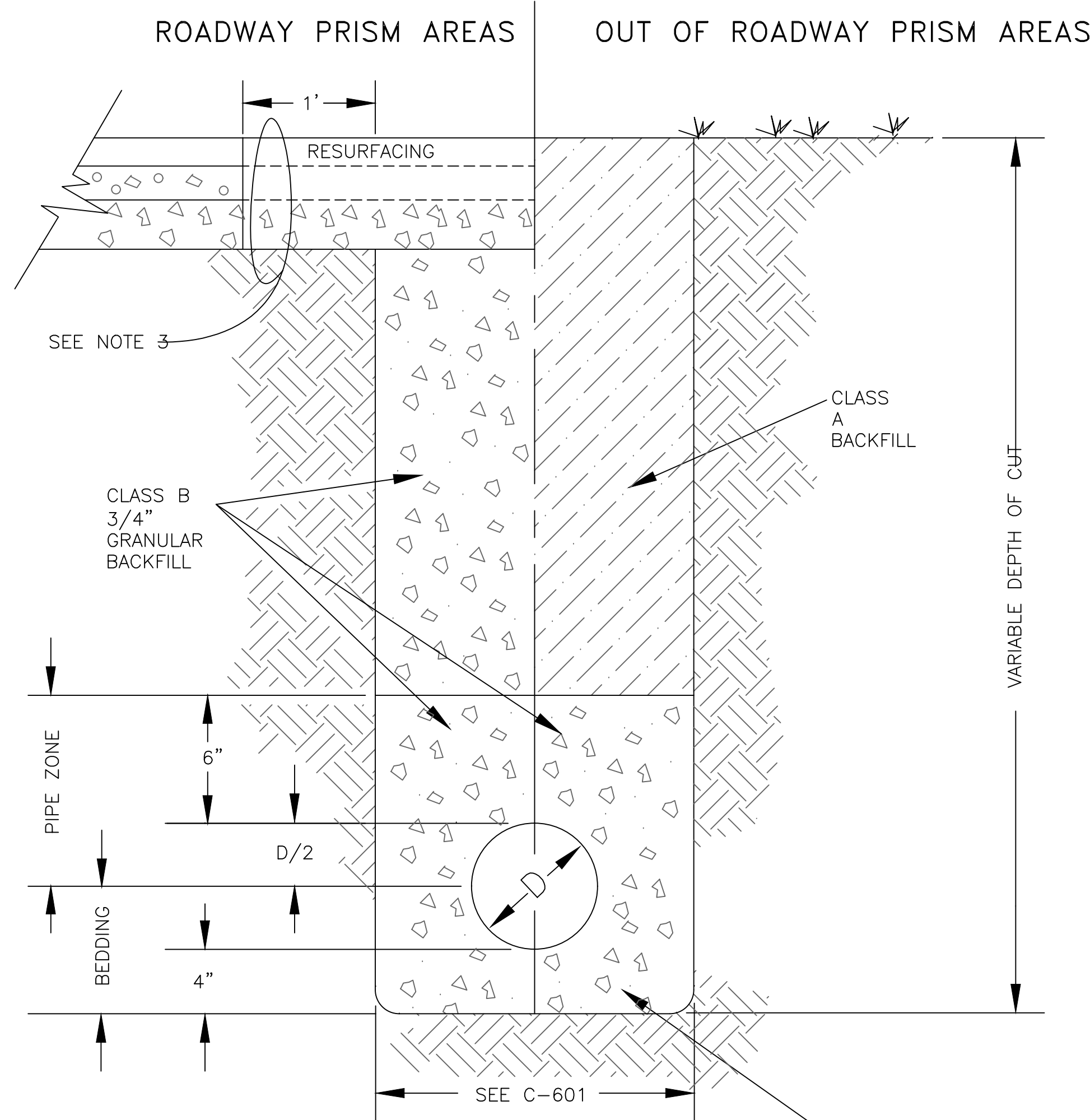
Deleted: The maximum allowable leakage shall be 5 gallons per hour. ...

3.4 Disinfection:

- A. General: After testing has been satisfactorily completed, tank shall be disinfected.
- B. Standards: Disinfecting of interior surfaces shall be performed in accordance with AWWA C652-02 "Disinfection of Water Storage Facilities" using chlorination method number two or number three. Any residual water discharged to the Overflow and Stormwater Pond shall be dechlorinated prior to discharge. Disinfection shall not take place until tank sealant is fully cured.
- C. After disinfection, the tank shall be filled to the overflow level and allowed to stand for 5 days, minimum. Water in the tank shall be tested in accordance with OHA regulations to confirm absence of bacteria. The tank may be placed into service once acceptable test results are received.

3.5 Cathodic Protection System Energizing:

- A. After the system is installed and the tank is filled, the cathodic protection constructor shall provide start-up service which includes energizing, testing, and adjusting the system for optimum performance of the cathodic protection system. This start-up service shall be in performed in accordance with ANSI/AWWA D104 Section 5.2 Testing. This start-up service shall be coordinated with the Engineer.

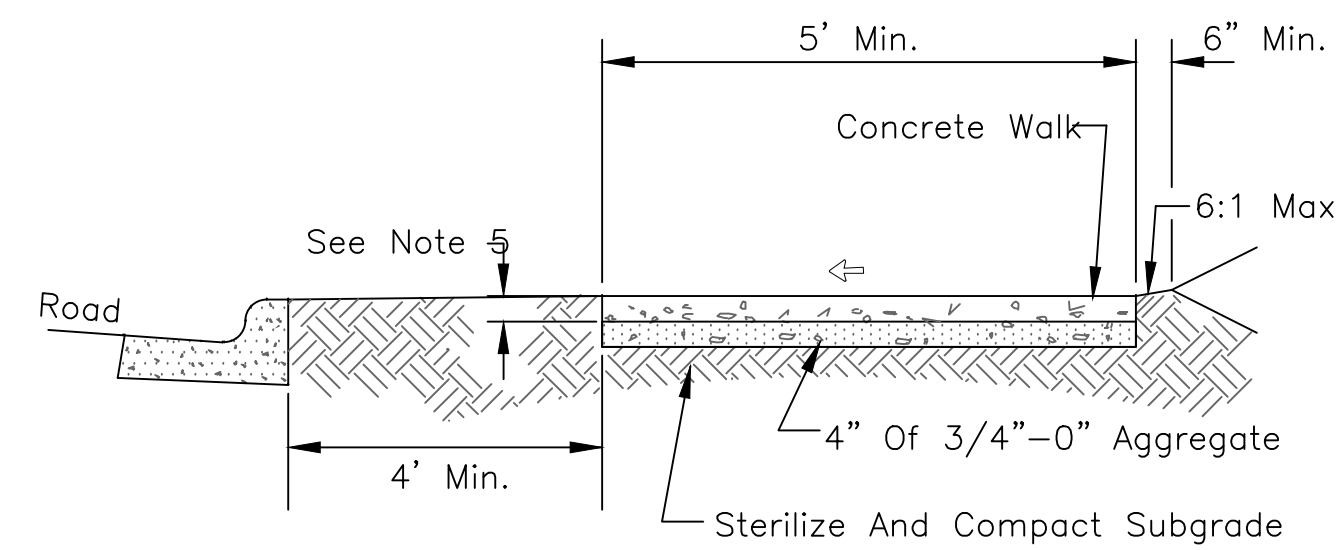
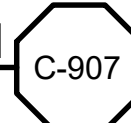


BACKFILL IN ROADWAY PRISM AREAS

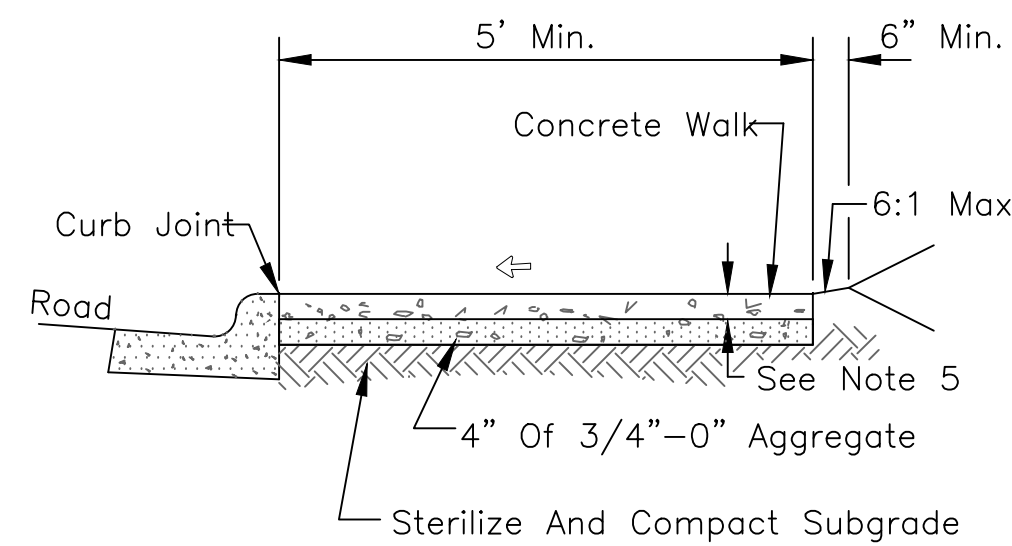
NOTES:

1. MINIMUM BACKFILL COMPACTION REQUIREMENTS: TOP 3' OF BACKFILL, 95% OF T-99; BELOW 3', 90% OF T-99.
2. AFTER BACKFILL AND T-CUT PATCH, A MILL AND FILL 2" THICK MAY BE REQUIRED TO MAINTAIN THE TRAVEL LANE INTEGRITY.
3. RESTORE WITH DESIGN OR EXISTING ROAD STRUCTURAL SECTION. WHEN A.C. THICKNESS IN EXISTING ROAD SECTION IS LESS THAN 3", A MINIMUM 3" OF A.C. IS REQUIRED.
4. PAVING GEOTEXTILE MAY BE REQUIRED BY INSPECTION STAFF ON THE BOTTOM OF THE FINAL LIFT AT ANY JOINTS BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT SECTIONS. THE PAVING GEOTEXTILE SHOULD CONSIST OF PROPEX PETOMAT 4598 OR PETOTAC 4591 OR AN APPROVED EQUAL. PAVING GEOTEXTILE SHOULD BE PLACED OVER ANY CRACKS THAT ARE OBSERVED IN THE EXISTING PAVEMENT AFTER MILLING AND BEFORE PLACEMENT OF THE NEW OVERLAY.

ROADWAY TRENCH AND RESTORATION



SIDEWALK AWAY FROM CURB



SIDEWALK ADJACENT TO CURB

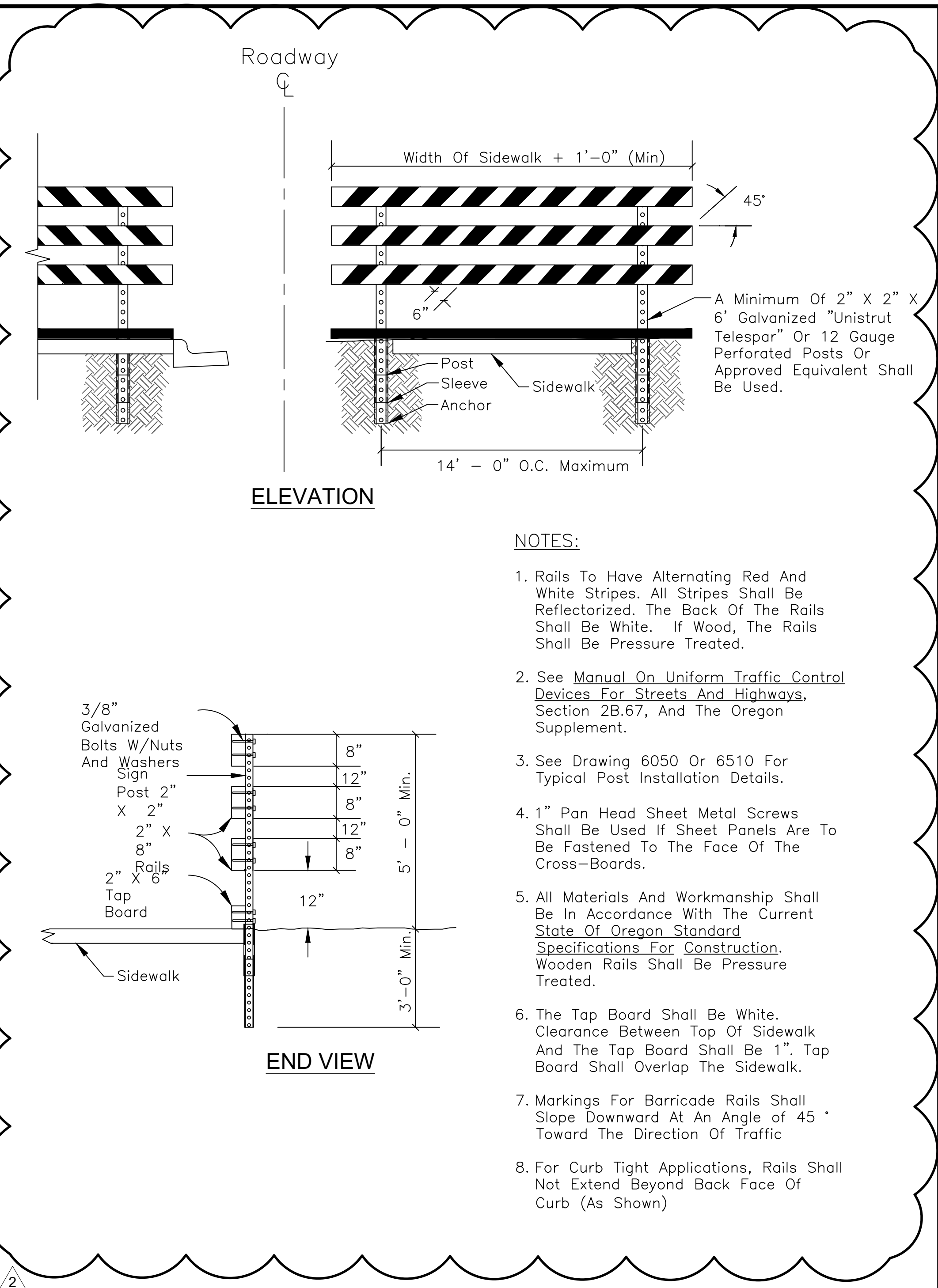
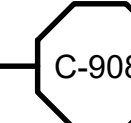
LEGEND:

- ↘ Slope 1.5% Max Design
 - ↘ Slope 2% Max Finish
- Grade

Notes:

1. Use Oregon Commercial Grade Concrete Per Section 00440.
2. Panel Dimensions To Be Nominal 5 Feet Or As Directed By Engineer. Trowel Finish (shined) Perimeters Of Each Panel. Broom Finish All Panels.
3. Place Expansion Joints Adjacent To Driveway Approaches, Utility Vaults, Drainage Inlets, Sidewalk Ramps, Curb Joints And At Spacing Not To Exceed 100 Feet.
4. Trowel Surfaces At Curb Joints With A Minimum 1/2" Radius.
5. Place 4" Thick Sidewalk. Place 6" Thick Sidewalk When Sidewalk Is Intended As A Portion Of Driveway, Or As Directed By The Engineer.
6. Extend Drain Blockouts In Curbs To Back Of Sidewalk With 3" Dia. Plastic Pipe At 2% Max. Slope. Install Construction Joint Over Pipe.
7. At Each CG-30 And CG-48 Inlet Location, Place A 10 Ft. Long #4 Bar Centered Between Back Of The Inlet Structure And Back Of Walk. Install Joints And Rebar At Direction Of Engineer.
8. Design Slopes May Be Exceeded To Fit Existing Conditions, Not To Exceed Grade Slope.

P.C. CONCRETE SIDEWALK



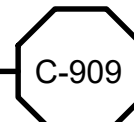
ELEVATION

END VIEW

NOTES:

1. Rails To Have Alternating Red And White Stripes. All Stripes Shall Be ReflectORIZED. The Back Of The Rails Shall Be White. If Wood, The Rails Shall Be Pressure Treated.
2. See Manual On Uniform Traffic Control Devices For Streets And Highways, Section 2B.67, And The Oregon Supplement.
3. See Drawing 6050 Or 6510 For Typical Post Installation Details.
4. 1" Pan Head Sheet Metal Screws Shall Be Used If Sheet Panels Are To Be Fastened To The Face Of The Cross-Boards.
5. All Materials And Workmanship Shall Be In Accordance With The Current State Of Oregon Standard Specifications For Construction. Wooden Rails Shall Be Pressure Treated.
6. The Tap Board Shall Be White. Clearance Between Top Of Sidewalk And The Tap Board Shall Be 1". Tap Board Shall Overlap The Sidewalk.
7. Markings For Barricade Rails Shall Slope Downward At An Angle Of 45° Toward The Direction Of Traffic
8. For Curb Tight Applications, Rails Shall Not Extend Beyond Back Face Of Curb (As Shown)

SIDEWALK BARRICADE TYPE III, STEEL POSTS



Wednesday, September 25, 2019 1:35:09 PM C:\PW\WORK\DIR\0486963\CNS_RFS_GC_2_IFB.DWG JOHNSON, ANDREW (PORTLAND)

REV	DATE	BY	DESCRIPTION
2	9/25/19	BB	ADDENDUM #3
1	9/1/19	BB	ISSUED FOR BID

SCALE	NO SCALE
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	T BAILEY
DRAWN	T BAILEY
CHECKED	G HARRIS

ISSUED FOR BID - SEPTEMBER 2019

ANY PRINTS NOT BEARING THIS STAMP MAY HAVE BEEN PRINTED PRIOR TO ADVERTISING AND CANNOT BE CONSIDERED AS BID DOCUMENTS



CITY OF NORTH PLAINS

RESERVOIR AND PUMP STATION NO 2
GENERAL CIVIL
STANDARD DETAILS - III

SHEET
GC-4
2002300044

SECTION 00 41 00 - BID FORMS

BID

BID TO: CITY OF NORTH PLAINS OREGON

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the OWNER in the form included in the Contract Documents to perform the WORK as specified or indicated in said Contract Documents entitled RESERVOIR AND PUMP STATION No. 2.
2. Bidder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the Notice Inviting Bids and Instructions to Bidders, dealing with the disposition of the Bid security.
3. This Bid will remain open for the period stated in the "Notice Inviting Bids" unless otherwise required by law. Bidder will enter into an Agreement within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders", and will furnish the insurance certificates, Payment Bond, and Performance Bond required by the Contract Documents.
4. Bidder has examined copies of all the Contract Documents including the following addenda (receipt of all of which is hereby acknowledged):

Number		Date	

Failure to acknowledge Addenda shall render the Bid non-responsive and shall be cause for its rejection.

5. Bidder has familiarized itself with the nature and extent of the Contract Documents, WORK, Site, locality where the WORK is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the WORK and has made such independent investigations as Bidder deems necessary.

To all the foregoing, and including all Bid Forms contained in this Bid, said Bidder further agrees to complete the WORK required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefor the Contract Price based on the Total Bid Price(s) named in the aforementioned Bid Forms.

Dated: _____ Bidder: _____

By: _____

(Signature)

Title: _____

**BID CERTIFICATE
(if Corporation)**

STATE OF _____)
) SS:
COUNTY OF _____)

I HEREBY CERTIFY that a meeting of the Board of Directors of the _____

a corporation existing under the laws of the State of _____, held on
_____, 20_____, the following resolution was duly passed and adopted:

"RESOLVED, that _____, as

_____ President
of this Corporation, be and is hereby authorized to execute the Bid dated _____,
20___, to the CITY OF NORTH PLAINS OREGON by this Corporation and that his/her
execution thereof, attested by the Secretary of this Corporation, and with the Corporate
Seal affixed, shall be the official act and deed of this Corporation."

Indicate whether the undersigned is a "Resident" or "Non-Resident" Bidder as defined by ORS
279A.120: _____

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the
corporation this _____, day of _____, 20_____.

Secretary

(SEAL)

BID CERTIFICATE
(if Limited Liability Company)

STATE OF _____)
) SS:
COUNTY OF _____)

I HEREBY CERTIFY that a meeting of the Members or Managers of _____

a limited liability company existing under the laws of the State of _____, held on _____, 20____, the following resolution was duly passed and adopted:

"RESOLVED, that _____, as

_____ of this limited liability company, be and is hereby authorized to execute the Bid dated _____, 20___, to the CITY OF NORTH PLAINS OREGON by this limited liability company and that his/her execution thereof, attested by _____ shall be the official act and deed of this limited liability company."

Indicate whether the undersigned is a is a "Resident" or "Non-Resident" Bidder as defined by ORS 279A.120: _____

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the this limited liability company this _____, day of _____, 20_____.

Secretary

(SEAL)

**BID CERTIFICATE
(if Partnership)**

STATE OF _____)
) SS:
COUNTY OF _____)

I HEREBY CERTIFY that a meeting of the Partners of the _____

a partnership existing under the laws of the State of _____, held on
_____, 20____, the following resolution was duly passed and adopted:

"RESOLVED, that _____, as
General Partner of the Partnership, be and is hereby authorized to execute the Bid
dated _____, 20____, to the CITY OF NORTH PLAINS OREGON by
this Partnership and that his/her execution thereof, attested by the General Partner
shall be the official act and deed of this Partnership."

Indicate whether the undersigned is a "Resident" or "Non-Resident" Bidder as defined by ORS
279A.120: _____

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____, day of _____,
20_____.

General Partner

(SEAL)

**BID CERTIFICATE
(if Joint Venture)**

STATE OF)
) SS:
COUNTY OF)

I HEREBY CERTIFY that a meeting of the Principals of the _____

_____ a joint venture existing under the laws of the State of _____, held on
_____, 20____, the following resolution was duly passed and adopted:

"RESOLVED, that _____, as
_____ of the Joint Venture,
be and is hereby authorized to execute the Bid dated _____,
20____, to the CITY OF NORTH PLAINS OREGON by this Joint Venture and that his/her
execution thereof, attested by the _____ shall be the
official act and deed of this Joint Venture."

Indicate whether the undersigned is a is a "Resident" or "Non-Resident" Bidder as defined by ORS
279A.120: _____

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____, day of _____,
20_____.

Managing Partner

(SEAL)

BID PROPOSAL - LUMP SUM (page 1 of 2)

To: Mr. Andy Varner, City Manager, City of North Plains, 31360 NW Commercial Street, North Plains, Oregon 97113.

Date: _____

The undersigned bidder declares that the only persons or parties interested in this proposal are those named herein, that this proposal is in all respects fair and without fraud and that it is made without collusion with any representatives of the OWNER.

The bidder further declares that: a) it has examined the plans, specifications, and other proposed contract documents; b) it has determined the extent, character, and location of the proposed Work, the nature and type of excavation to be done, the location and condition of existing streets and roadways giving access to the site of the Work, and topography of the site of the Work; and c) it has personally inspected the site of the Work and has satisfied itself as to the conditions of the Work and understands the listing of materials included herein is brief and is intended only to associate the said quantities with detailed requirements of the contract documents.

Contractor shall furnish all material, tools, equipment, appliances, and labor, and perform all work as described in these Contract Documents entitled: City of North Plains, Reservoir and Pump Station No. 2, including all specified work appurtenant thereto, and in connection with this project for the OWNER within the time limit specified, and in accordance with plans, specifications and change order documents prepared by the ENGINEER for the sums set forth in the following schedule of prices, it being understood that the unit prices are independent of the exact quantities involved and that they represent a true measure of the labor and materials required to perform the Work.

The successful bidder agrees that if this proposal is accepted, bidder will execute the required documents and supply the required submittal information as specified herein, within the time frames established herein.

The successful bidder agrees to be substantially complete with all work within 580 calendar days of the Notice to Proceed, and achieve final completion within 30 calendar days after issuance of the Certificate of Substantial Completion including punch list items.

In the event the successful bidder fails to achieve Substantial Completion or Final Completion of the project within the time limits specified or extended time limits as agreed upon, liquidated damages shall be paid to the OWNER or deducted from the amounts due the Contractor, at the rate described in the bid documents.

The project will be awarded based on the low responsive bid for the bid items within the OWNER'S budget as described in Section 00 21 13 Instructions to Bidders.

BID PROPOSAL - LUMP SUM (page 1 of 2)

This Bid is in strict accordance with the plans and specifications attached, on the basis of Base Bid with Alternates:

PROJECT NAME: RESERVOIR AND PUMP STATION No. 2

Items	Quantity	Unit	Unit Price \$	Total Price \$ Figures
Base Bid project including 1.0 MG reservoir built for future expansion to 2.0 MG	1	LS		
Additive Alternate No. 1: Reservoir vertical extension to 2.0 MG	1	LS		
Additive Alternate No. 2: Pumps P-202 and P-204	1	LS		
Additive Alternate 3: Provide Additive Alternate 1 with a glass-fused-to-steel coating described in Specification Section 43 00 00, 2.5 A 1 a).	1	LS		
Additive Alternate No. 4: Heavy Duty Swing Gate	1	LS		
Additive Alternate No. 5: Vortex Plate	1	LS		
TOTAL BID PRICE (sum of six items above)				
				(dollars)
In words				

The undersigned agrees, if awarded the Contract, to execute and deliver to the OWNER within fifteen (15) days after receiving the Contract forms, an Agreement and satisfactory Construction Performance and Construction Payment Bonds each in an amount equal to one hundred percent (100%) of the Contract sum, using forms provided therefore by the OWNER. The Surety requested to issue the Construction Performance Bond will be:

(Name of Surety Company)

(Agent Name & Phone Number)

The undersigned hereby authorizes said Surety to disclose any information to the OWNER concerning the undersigned's ability to supply a Construction Performance Bond in the amount of the Contract.

The undersigned agrees that if awarded the Contract, that it will comply with the provisions of the Contract Documents and will comply with the provisions of ORS 279C.800 and Oregon Prevailing Wage Rates.

INFORMATION REQUIRED OF BIDDER

The Bidder shall furnish the following information. Additional sheets shall be attached as required. Failure to complete Item Nos. 1, 3, and 6, will cause the Bid to be non-responsive and may cause its rejection. In any event, no award will be made until all of the Bidder's General Information is delivered to the OWNER.

(1) Contractor's name and address:

(2) Contractor's telephone number: _____

Contractor's fax number: _____

(3) Contractor's license: Primary classification _____

Oregon State License No. and Expiration Date _____

Specialty classifications held, if any: _____

Name of Licensee, if different from (1) above: _____

(4) Name, address, and telephone number of surety company and agent who will provide the required Bonds on this contract:

(6) ATTACH TO THIS BID a list of 3 projects completed by the Contractor during the last 5 years involving work of similar type and complexity. The list shall include the following information as a minimum:

Names, address, and telephone number of owner.

Name of project.
Location of project.
Brief description of the work involved.
Contract amount.
Date of completion of contract.
Name, address, and telephone number of architect or engineer.
Name of owner's project engineer.

To be considered for award, the Contractor shall have completed at least three projects of similar type and complexity and comparable value.

This project consists of a 1.0 MG Steel Water Reservoir, Pump Station, Ground Improvements, and Control System.

(7) Base Bid Steel Reservoir Description:

Indicate "Factory Coated Bolted" or "Field Coated Welded":

Indicate Interior Coating Type:

Indicate Exterior Coating Type:

Certification Regarding Lobbying

(Awards to Contractors and Subcontractors in Excess of \$100,000)

The undersigned certifies, to the best of his or her knowledge and belief, that:

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

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

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

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

Signed _____
Title _____
Date _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS,

That _____ as Principal, and _____ as Surety, are held and firmly bound unto **CITY OF NORTH PLAINS OREGON**, hereinafter called "OWNER," in the sum of _____ dollars,

for the payment of which sum, well and truly to be made, we jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the Bidding schedule(s) of the OWNER's Contract Documents entitled **RESERVOIR AND PUMP STATION No. 2**.

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders" enters into a written Agreement on the form of Agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, and performs in all other respects the agreement created by this Bid, then this obligation shall be null and void, otherwise it shall remain in full force and effect. The Surety stipulates and agrees that the obligation of said Surety shall in no way be impaired or affected by an extension of the time within which the OWNER may accept such Bid and Surety further waives notice of any such extension. In the event suit is brought upon this Bond by said OWNER and OWNER prevails, said Principal and Surety shall pay all costs incurred by said OWNER in such suit, including reasonable attorney's fees and costs to be fixed by the court.

SIGNED AND SEALED, this _____ day of _____, 20____

(Principal)

(SEAL) _____ (SEAL)
(Surety)

By: _____
(Signature)

By: _____
(Signature)

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

SUPPLEMENT

A. The supplement listed below, and following "End of Bid Forms," is part of this Specification.

- 1. First-tier Subcontractor Disclosure Form

- END OF BID FORMS -