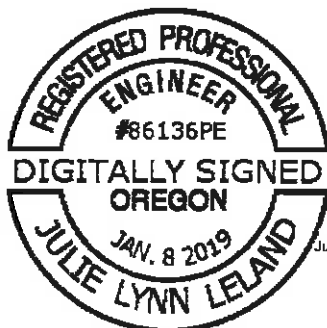


ADDENDUM NO. 3

**City of Harrisburg, Oregon
Contract Documents and Construction Specifications
North and South Treatment Plant**



Julie Lynn Leland

Digitally signed by Julie Lynn Leland
DN:
Email=jll@cranchengineering.com,
C=US, E=jll@cranchengineering.com,
O=Cranch Engineering, Inc.,
U=Springfield, B=ORE, CN=US
Date: 2021.08.10 14:22:53-0700

EXPIRES: 12/31/22

All bidders are hereby notified of the following modification to the contract documents, construction specifications and construction plans. This modification is to become a part of said contract documents, construction specifications and construction plans.

Each proposal shall include specific acknowledgment of receipt of this Addendum in the space provided below. Failure to acknowledge may result in the proposal being rejected as not responsive.

Contractor _____

By _____

Date _____

This Addendum shall supersede all previously issued specifications and drawings wherein it contradicts same. All other conditions remain unchanged. The following changes, modifications, corrections, clarifications, and/or additions as set forth herein shall apply to the above documents and shall be made a part thereof and shall be subject to all of the requirements thereof as though originally specified and/or shown.

Item No.	Reference	Description of Change
Contract Documents		
1.	Volume 1 – Bid Closing Date	The Bid Closing Date will be extended out to August 17th, 2021 at 2PM . Bids will be received at the City Hall of the City of Harrisburg, Oregon 120 Smith Street, Harrisburg, OR 97446. Acceptance of bids will officially close at 2:00 pm Pacific Time, August 17th, 2021 , and immediately after the bids will be publicly opened and read in the City Hall Council Chambers, 354 Smith Street, Harrisburg, Oregon 97446.
2.	Volume 2 – Welded Steel Tank 43 41 13 Section 2.2-A-4	Replace: <i>Specification 43 41 13 Section 2.2-A-4</i> <i>4. Wind load: 65 psf.</i> In Entirety With: <i>Specification 43 41 13 Section 2.2-A-4</i> <i>4. Wind speed: 130 mph.</i>
3.	Volume 2 – Steel Water Storage Tank Paintings 09 97 13.24	Replace Specification in its entirety with attached Specification 09 97 13.24.
Drawings		
4.	Volume 3 – P101N, P901N	Increase City meter connection and gate valve from 1" to 2" diameter. Increase diameter of building supply and main interior pipe supplying the restrooms from 1" to 1 ½".
5.	Volume 3 – P101S, P901S	Increase diameter of building supply and pipe supplying the restroom from 1" to 1 ¼". No change to city meter connection.

Bidders' Questions

No further questions will be answered from this point until after Bid Closing. Please bid the project as you interpret it.

SECTION 09 97 13.24 - STEEL WATER STORAGE TANK PAINTING

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. High-performance coatings and special preparation of tank surfaces.
2. Painting and Coating: Preparing, priming, painting, and staining of surfaces.

B. Related Requirements:

1. Section 09 90 00 - Painting and Coating: Preparing, priming, painting, and staining of surfaces.

1.2 REFERENCE STANDARDS

A. Federal Specification Unit:

1. FS A-A-3054 - Paint, Heat Resisting (204 Degrees C).

B. Master Painters Institute:

1. MPI - Approved Products List.
2. MPI - Architectural Painting Manual.

C. Military Standardization Documents:

1. MIL C-22750D - Coatings: Epoxy Polyamide.

D. SSPC: The Society for Protective Coatings:

1. SSPC - Painting Manual, Volume 2: Systems and Specifications.
2. SSPC-Paint 16 - Coal Tar Epoxy-Polyamide Black (or Dark Red).
3. SSPC-SP 2 - Hand Tool Cleaning.
4. SSPC-SP 3 - Power Tool Cleaning.
5. SSPC-SP 5 - White Metal Blast Cleaning.
6. SSPC-SP 6 - Commercial Blast Cleaning.

7. SSPC-SP 7 - Brush-Off Blast Cleaning.
8. SSPC-SP 10 - Near-White Metal Blast Cleaning.
9. SSPC-SP 11 - Power Tool Cleaning to Bare Metal.

1.3 PREINSTALLATION MEETINGS

- A. Convene a meeting a minimum one week prior to commencing Work of this Section. Meeting shall be attended by Contractor, Owner's representative, Engineer, Coating Applicators, and Manufacturer's representative.
- B. Topics to be discussed at meeting shall include:
 1. A review of Contract Documents shall be made and deviations or differences shall be resolved.
 2. Review items such as environmental conditions, surface conditions, surface preparation, application procedures, and protection following application.
 3. Establish which areas on-site will be available for use as storage areas and working area.
- C. Inspection Services:
 1. The Contractor shall designate a person to fulfill the requirements of the Inspector as described in the FIELD QUALITY CONTROL section. The COATING MANUFACTURER REPRESENTATIVE (Section 3.9) can fulfill these responsibilities.

1.4 SUBMITTALS

- A. Section 01 30 00 - Submittal Procedures: Requirements for submittals.
- B. Shop Drawings: Submit product information related to surface preparation materials that meet specification requirements shown in Part 2, Products.
- C. Product Data:
 1. Submit manufacturer information indicating coating materials, performance ratings and application information.
 2. Include MPI - Approved Products Lists with proposed products highlighted.
- D. Samples: Submit two color samples, illustrating available colors for selection.
 1. Manufacturer's Certificate: Certify that products meet or exceed specified requirements. Materials Resources Certificates:

- a. Certify source for regional materials and distance from Project Site.
- 2. Indoor Air Quality Certificates:
 - a. Certify VOC content for each interior paint and coating.
- E. Manufacturer Instructions: Submit special procedures, perimeter conditions requiring special attention and any other instructions or procedures.
- F. Qualifications Statements:
 - 1. Submit qualifications for manufacturer and applicator.
 - 2. Submit manufacturer's approval of applicator.
- 1.5 CLOSEOUT SUBMITTALS
 - A. Section 01 70 30 – Contract Closeout: Requirements for submittals.
 - B. Section 01 70 20 - Operation and Maintenance Data: Submit maintenance and cleaning requirements for coatings, repair and patching techniques and touch up recommendations.
- 1.6 MAINTENANCE MATERIAL SUBMITTALS
 - A. Section 01 70 30 - Contract Closeout: Requirements for maintenance materials.
 - B. Extra Stock Materials:
 - 1. Furnish 1 gal. of each color of each type of coating specified, for Owner's maintenance use.
 - 2. Label each container with manufacturer's name, product number, color number, and room names and numbers where used.
- 1.7 QUALITY ASSURANCE
 - A. MPI Standards:
 - 1. Comply with indicated MPI standards.
 - 2. Products: Listed in MPI - Approved Products List.
 - B. Maintain 1 copy of each standard affecting Work of this Section on Site.

1.8 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum ten years' documented experience.
- B. Applicator: Company specializing in performing Work of this Section with minimum five years' documented experience and approved by manufacturer. Submit listing of not less than 3 of applicator's most recent applications representing similar scope and complexity to Project requirements. List shall include information as follows:
 - 1. Project name and address
 - 2. Name and phone number of OWNER
 - 3. Name and phone number of CONTRACTOR
 - 4. Name and phone number of ENGINEER
 - 5. Date of completion

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Container Labeling: Include manufacturer's name, type of coating, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Inspection:
 - 1. Accept materials on Site in manufacturer's sealed and labeled containers.
 - 2. Inspect for damage and to verify acceptability.
- D. Store materials in ventilated area and otherwise according to manufacturer instructions.
- E. Protection:
 - 1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
 - 2. Provide additional protection according to manufacturer instructions.

1.10 AMBIENT CONDITIONS

- A. Section 01 50 00 - Temporary Facilities and Controls: Requirements for ambient condition control facilities for product storage and installation.
- B. Minimum Conditions: Install in accordance with manufacturers recommendations.
- C. Subsequent Conditions: Maintain above temperature range, 24 hours before, during, and 72 hours after installation of coating.
- D. Provide lighting level of necessary to complete the project.
- E. Restrict traffic from area where coating is being applied or is curing.

1.11 WARRANTY

- A. Section 01 70 40 – Warranties and Bonds: Requirements for warranties.
- B. Include coverage for bond to substrate, degradation of chemical resistance and delamination.

PART 2 PRODUCTS

2.1 PERFORMANCE AND DESIGN CRITERIA

- A. Minimum Performance:
 - 1. This specification lists specific products manufactured by Thnemec Company, Inc. of Kansas City, Missouri. Materials specified herein are cited as a minimum standard of quality that will be acceptable.
 - 2. Materials specified herein shall not preclude consideration of equivalent materials. Equivalent materials shall be submitted to Engineer for consideration and shall be made at least fourteen (14) days prior to the bid date.
 - a. Requests for substitution shall include evidence of satisfactory past performance on water tanks.
 - b. Substitutions will not be considered that change number of coats or do not meet specified total dry film thickness.
 - c. Request for substitution shall include all performance testing for the proposed coatings for comparison to specified products listed.

- d. Paints for interior wet applications must be listed by NSF International as certified for potable water contact in accordance with ANSI/NSF Std. 61, Section 5, Protective (Barrier) Materials

2.2 COMPONENTS

A. Coatings:

1. Description:

- a. Complete multicoat systems formulated and recommended by manufacturer for intended applications and in indicated thicknesses.
- b. Specified number of coats does not include primer or filler coat.

2. Lead content: None.

3. Chromium Content as Zinc Chromate or Strontium Chromate: None.

4. Maximum VOC Content: As required by applicable regulations.

5. Colors: As selected from manufacturer's standard colors.

6. Primer: As recommended by painting system manufacturer.

B. Exterior Treatment – Zinc/Epoxy/Acrylic Polyurethane

Surface Preparation:

- 1. All welded and abraded areas shall receive a blast cleaning in accordance with SSPC SP10 Near White Blast Cleaning

2. Fabrication Defects:

- a. Correct steel and fabrication defects revealed by surface preparation.
- b. Remove weld spatter and slag
- c. Round sharp edges and corners of welds to a smooth contour
- d. Smooth weld undercuts and recesses.
- e. Grind down porous welds to pinhole-free metal.
- f. Remove weld flux from surface.

3. Ensure surfaces are dry.

4. Interior, Wet Substrate: Remove visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter in accordance with SSPC-SP 10/NACE 2.
5. Exterior: Remove visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter in accordance with SSPC-SP 10/NACE 2.
6. Abrasive Blast-Cleaned Surfaces: Coat abrasive blast-cleaned surfaces with primer before visible rust forms on surface. Do not leave blast-cleaned surfaces uncoated for more than 8 hours.
7. Shop Primer: Prepare shop primer to receive field coat in accordance with manufacturer's instructions.

C. Interior Treatment– Zinc/Epoxy/Epoxy

1. Surface Preparation: SSPC-SP10/NACE 2 Near-White Metal Blast Cleaning The removal of all grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter by compressed air nozzle blasting, centrifugal wheels or other specified method. Discoloration caused by certain stains shall be limited to no more than 5 percent of each unit area. Unit area is approximately 9 in2.
2. Prime Coat: Apply one full coat of Tnemec Series 91-H2O Hydro-Zinc. This coating shall be applied at a dry film thickness of 2.5 to 3.5 mils per coat. Tnemec Series 94-H2O may be substituted for 91-H2O.
3. Intermediate Coat: Apply one full coat of Tnemec Series N140. This coating shall be applied at a dry film thickness of 6.0 – 9.0 mils per coat. Color shall be 1255 Beige.
4. Finish Coat: Apply one full coat of Tnemec Series N140 POTA-POX Plus. This coating shall be applied at a dry film thickness of 6.0 – 9.0 mils. Color shall be selected by the Owner.

2.3 SURFACE PREPARATION MATERIALS

A. Abrasives

1. Abrasives used in blast cleaning operations shall be clean, well graded, non- metallic, and free of contaminants which would interfere with adhesion of the coatings to the substrate material.
2. Selection of abrasive size and type shall be based upon the type, grade, and surface condition of the steel to be cleaned and on the finished surface to be produced for the subsequent paint system.
3. Blast cleaning abrasives shall meet or exceed the following minimum criteria:

<u>Description</u>	<u>Criteria</u>
Shape	Angular
Hardness (Mohr Scale)	8
Specific Gravity	3.3
Bulk Density (1lbs/cu. ft.)	110
Free Silica (% by wt.)	0

4. Blast cleaning abrasive particle size shall be that which will produce a 2.0-mil (.002-inch) anchor profile on the substrate metal or in accordance with recommendations of the manufacturers of the specified coating system to be applied, subject to approval by the ENGINEER.
5. Blast cleaning abrasive manufacturer: Blast cleaning abrasives shall be Kleen Blast Abrasive as manufactured by Kleen Blast, Green Diamond Abrasive as manufactured by Green Diamond Sand Products or approved equal.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 70 30 - Contract Closeout: Requirements for application examination.
- B. Substrates:
 1. Verify that substrate surfaces are ready to receive Work of this Section as indicated by coating manufacturer.
 2. Obtain and follow manufacturer instructions for examination and testing of substrates.

3.2 PREPARATION

- A. Section 01 70 30 - Contract Closeout: Requirements for application preparation.
- B. Provide a minimum of two days' notice to Owner in advance of spray painting to notify public and private property owners.
- C. Contractor will be responsible and pay for all damage to public and private property which is a result of falling particles of metal, paint, or other materials which may fall during painting operations.
- D. Clean surfaces of loose foreign matter.
- E. Remove substances that would bleed through finished coatings; if removal is not possible, seal surface with shellac.

- F. Remove finish hardware, fixture covers, and accessories and store.
- G. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent.
- H. Ferrous Metal:
 - 1. Solvent clean.
 - 2. Remove loose rust, loose mill scale, and other foreign substances.
 - 3. Hand Tools: Comply with SSPC-SP 2.
 - 4. Power Tools: Comply with SSPC-SP 3.
 - 5. Blasting: Comply with SSPC-SP 10.

3.3 APPLICATION

- A. Comply with MPI - Architectural Painting Manual.
- B. Apply primer to each surface, unless specifically not required by coating manufacturer.
- C. Apply coatings to specified thicknesses.
- D. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in color, texture, or finish.
- E. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

3.4 FIELD QUALITY CONTROL

- A. Section 01 40 00 - Quality Requirements: Requirements for inspecting and testing.

3.5 CLEANING

- A. Collect waste material that may constitute fire hazard, place in closed metal containers, and remove daily from Site.
- B. Clean surfaces immediately of overspray, splatter, and excess material.
- C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

3.6 PROTECTION

- A. Section 01 70 30 - Contract Closeout: Requirements for protecting finished Work.

- B. Protect adjacent surfaces and materials not receiving coating from overspray.
- C. Mask when necessary to provide adequate protection and repair damage.

3.7 BRUSH COATS AND NON-SKID SURFACING

- A. Specifications pertaining to brush coats and non-skid surfacing are as follows:

- 1. Brush Coats:

- a. All welds, laps, edges, inside angles, and irregular surfaces shall receive a brush coat of the specified product prior to application of each complete coat.
- b. Paint may be applied as a spray stripe coat and back brushed by hand.
- c. Coatings shall be brushed in multiple directions to ensure penetration and coverage, as directed by the ENGINEER.

- 2. Non-Skid Surfaces:

- a. Applied after the full prime coat has cured.
- b. Where shown on the Drawings or specified elsewhere in this Section, a non-skid surface shall be applied to a portion of the reservoir roof surface.

- 3. Application:

- a. Broadcast over a wet coat of the finish topcoat specified herein.
- b. Following curing of coating/sand mixture, non-skid surface area shall be top coated with the same finish coating.

- 4. Locations:

- a. On a 3-foot wide strip extending from the roof access hatch to the vent at the center of tank roof.
- b. On a 3-foot wide strip around the roof vent at the tank center.
- c. On a 3-foot wide strip around the roof's access hatch.

3.8 ATMOSPHERIC CONDITIONS

- A. No coatings shall be applied under the following limitations:

- 1. Temperature: If temperatures are anticipated to be as noted below within eight hours after application of the coating.

2. Epoxy Coatings: Surface to be coated is below 55 degrees Fahrenheit (F). Exceptions may be approved by ENGINEER with concurrence from manufacturer if material is "low temperature" type.
 3. Inorganic Zinc or Urethane Finishes: Surface to be coated is below 40 degrees F.
 4. When the temperature is less than 5 degrees F above the dew point.
 - a. The dew point shall be measured by use of an instrument such as a sling psychrometer in conjunction with U.S. Department of Commerce Weather Bureau Psychrometric Tables or other instrument acceptable to the ENGINEER.
 5. When the temperature of the surface to be coated is above 125 degrees F for all coating types.
- B. Surfaces: When the surfaces to be coated are wet or damp or there is the presence of rain, snow, fog, or mist coatings shall not be applied.
- C. If any of the above adverse conditions are present, the coating or paint application shall be postponed until conditions are favorable. The day's coating or paint application shall be completed in time to permit the film.

3.9 COATING MANUFACTURER'S REPRESENTATIVE PARTICIPATION-COATING INSPECTOR

A. Painting/Coating Manufacturer's Representative:

1. Services of the paint/coating manufacturer's representative shall be provided at no additional expense to the OWNER.
2. Reporting from the paint manufacturer's representative shall not preclude the ENGINEER from making independent assessments of the quality of Work. The ENGINEER will make the final decision as to the acceptability of the paint/coating systems.
3. Responsibilities:
 - a. Make periodic site visits throughout the course of the surface preparation and the painting/coating application.
 - b. Schedule all site visits with the ENGINEER.
 - c. Minimum Site Visits:
 - 1) Inspect typical shop and field steel preparation prior to primer applications.
 - 2) Inspect finished primer applications prior to application of intermediate coats.

- 3) Inspect each intermediate coat prior to application of subsequent finish coats.
 - 4) Inspect final coats and report to the ENGINEER the representative's assessment of the paint system's suitability and acceptability for the intended service.
- d. Prepare and submit written reports directly to the ENGINEER immediately following each site visit.
- 1) Reports shall identify the representative's observations relative to the quality of the surface preparation and painting/coating work.
 - 2) Reports shall address any conditions observed which have the potential to adversely impact the finished painting/coating system's integrity and performance.
 - 3) Any such findings shall be immediately remedied by the CONTRACTOR.

3.10 COLLECTION, MONITORING AND DISPOSAL OF REGULATED WASTES

- A. Unless otherwise indicated on the Plans or in the Specifications, all abrasive blasting material and byproducts, paints, solvents and containers, and any other discarded materials or equipment shall remain the property of the CONTRACTOR and shall be disposed of in a manner compliant with applicable Federal, State, and local laws and regulations governing disposal of all wastes generated by the CONTRACTOR in the prosecution of this work.

3.11 PAINTING REQUIREMENTS

- A. Paint top surfaces of all purlins, rafters, beams and all other roof structural members prior to the roof plate installation.
- B. Paint lower side of roof plates prior to installation.
- C. Caulk all unwelded roof plate and structural member laps, prior to painting.
- D. Caulking material; polyurethane sealant; PRC Permapad RC-270, Vulkem 921, or equal - Apply in accordance with the manufacturer's instructions.
- E. Paint the underside of floor plates prior to laying down on the base material.
- F. At columns, paint the top side of floor plates and the underside of column base plates prior to column erection.

3.12 PAINTING

- A. Perform interior and exterior cleaning, preparation, and painting in accordance with AWWA D102 and Section 09 90 00.
- B. Provide a first anniversary inspection of the tank painting, including testing and any required repair work, at no additional cost to the Owner.

END OF SECTION

