

Crittenden-Livingston County Water District
100,000 Gallon Tank Rehabilitation Project

ADDENDUM No. 1

August 17, 2026

This ADDENDUM to plans, specifications and bidding documents for the subject project modifies the referenced items to the extent described herein. Items not modified by this ADDENDUM remain unchanged and in full effect. Bidders are required to acknowledge receipt of this ADDENDUM on the Bid Form.

1. Technical Specification 01-200 (Tank Rehab: Scope of Work): **Replace** the original specification section with the Attached (8 pages).

END OF ADDENDUM NO. 1 TEXT

This ADDENDUM consists of a total of 9 pages.

TANK REHAB: SCOPE OF WORK

1.0 WORK COVERED BY CONTRACT DOCUMENTS

The work to be performed involves the painting, cleaning and rehabilitation of an existing 100,000 gallon elevated water tank. The tank is located at the Crittenden – Livingston Water District's Water Treatment Facility.

1.1 Historical Overview of the Existing Structure

Manufacturer = Advance Tank 1985

Tank Height = 15.3 feet Diameter: 34 feet

1.2 General Work Overview

Contractors required to field verify all heights and dimensions. It shall be the contractor's responsibility to determine the most appropriate means for applying coatings to the exterior and interior of the tank (*with exception of the specified roll coat to all interior welds*). If tank surfaces are rolled, roller nap inclusions in the coating shall not be allowed. All roller nap and other foreign objects shall be removed (scraped, sanded, ground...) Followed by the application of another coat of finish, primer or both if required. Any and all touched up areas shall color match exactly to the surrounding coatings.

Any and all runs, drips, sags, curtains, etc. shall be brushed out during application or removed (scraped, sanded, ground...) Followed by the application of another coat of finish, primer or both if required. Any and all touched up areas shall color match exactly to the surrounding coatings.

The General Paint Work lump sum item shall include the following:

- **Exterior and Interior:** Clean, paint as specified
- **Concrete Foundation:** The foundation of the tank shall be protected drips, splashes, overspray at all times any and all coatings shall be promptly removed and or cleaned.
- **Grout repair around base of tank:** Remove and replace any and all loose or damaged grout around base of tank, grout shall non-shrink type, mixed according to manufactures directions, applied and struck off even.
- **New screens on vent and overflow pipe**

2.0 TANK INTERIOR

- A. The interior of the tank shall be prepared in accordance with **AWWA D102-21**. The interior shall be solid abrasive blasted and shall be abrasive blasted with a low silica (0.1%) low dust containing material in accordance with **SSPC- SP 10 "Near White Metal Blast Cleaning"**. Once the surface has been prepared, all weld seams shall be investigated. Any welds found to be deficient or that could result in structural failure, or any pits discovered as a result of surface preparation shall be rewelded (followed by grinding of repair to create a flush, consistent surface with the existing steel), pits shall be welded if greater than one half the thickness of the steel wall.

All roof seams that are not seal welded shall be sealed with an ANSI/NSF/CAN Standard 61 approved material that has the elongation factors to compensate for thermal contraction and expansion as weather changes. Backer rod may be utilized in areas larger than 1/4" then filled with material to create a clean continuous seam.

- B. As blast cleaning proceeds, it may become necessary to fill some of the deeper pits in the roof, shell, and floor plates as well as angles behind the compression rings and elsewhere as determined by inspector. Pits found one third to one half the thickness of the steel shall be filled with a material approved by the Consultant prior to application. The filler shall be applied to blast cleaned surfaces and shall be Tnemec 215 Filler & Surfacer, or an NSF Certified equal. Filler shall be applied after the primer. Filling shall be neatly trowled into pits and voids and smoothly finished flush with the adjacent

surfaces. Painting over of these areas will not be allowed until this material has fully cured. Welding new ¼ steel plate over the pit may also repair pits. All plate welding shall be seal welded and ground smooth to create a transition between the plate and the existing steel surface. Pit filling and pit welding shall be bid as a unit price additive alternate.

The interior of the tank shall be abrasive blasted to an SSPC-10 Near-White Metal.

Coating System shall be performance equal with the specified zinc/epoxy paint product(s) as follows:

Primer:	Tnemec:	Series 93-H ₂ O Tnemec-Zinc or equal applied at 2.5 to 3.5 dry mils.
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Color:	Greenish/Grey
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Stripe Coat:	Tnemec:	Series 21 Epoxoline (or equal) applied by brush and scrubbed into all weld seams. In addition to weld seams, all edges, corners, bolts, rivets, pits shall receive a stripe coat.
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Color:	White
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Finish Coat	Tnemec:	Series 21 Epoxoline (or equal) applied at 10.0 to 16.0 dry mils in one or two coats. Total Minimum DFT: 12.5 dry mils
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Color:	Delft Blue
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Contractor shall provide a holiday free coating system.

All roof rafters, beams, supports, sidewall connections that have not been seal welded shall be sealed with a ANSI/NSF/CAN-61/600 approved caulking material. So as to create a smooth unbroken area that cannot be accessed by moisture. All of these areas shall be sealed following the application of the finish coat. Once it has cured to a point that it can withstand traffic without causing damage.

Contractor shall utilize a containment system that conforms to the SSPC Guide 6 “*Guide for Containing Debris Generated During Paint Removal Operations*”. Contractor shall bear all responsibility for any and all emissions that are not controlled by the containment system. The Owner and the Consultant shall not be held responsible for any emissions generated by the contractor

3.0 TANK EXTERIOR

The tank exterior shall be prepped and painted in accordance with the Owner’s approved Bid Method; options listed below. For all Bid Methods, the paint manufacturer utilized shall furnish an extended 15-year warranty to the owner for color and gloss retention, adhesion and corrosion resistance for the exterior coating system in accordance with the following:

1. Check, crack, blister or delaminate from the substrate.
2. Allow the substrate to corrode in excess of 1% of the surface area being coated as measured in accordance with ASTM D 610-95 “Standard Test Method for Evaluating Degree of Rusting on Painted Surfaces” for a period of five (5) years from substantial completion date or corrode in excess of an additional 0.5% per year for balance of the warranty coverage period.
3. Change color more than 5 DE Hunter units as determined in accordance with ASTM D 2244 by comparing the affected exposed coating cleaned with water and a soft cloth with unexposed Original Project Color Standards maintained the Manufacturer and the Owner.
4. Exhibit loss of gloss in excess of 24 units as measured by a gloss meter in accordance with ASTM D523-89 with 60 degree geometry.
5. Chalk in excess of a rating of 8 as measured in accordance with ASTM D4214, Method A.

The paint manufacturer shall also furnish an extended 10-year material warranty to the owner for corrosion resistance and not to check, crack, blister or delaminate from the substrate for the interior coating system in accordance with the following:

1. Check, crack, blister or delaminate from the substrate
2. Allow the substrate to corrode in excess of 1% of the surface area being coated as measured in accordance with ASTM D 610-95 "Standard Test Method for Evaluating Degree of Rusting on Painted Surfaces" for a period of five (5) years from substantial completion date or corrode in excess of an additional 0.5% per year for balance of the warranty coverage period.

A. BASE BID METHOD – FULL BLAST & REPAINT

Exterior Painting System - The tank exterior shall receive a paint system equal to the system(s) as described below. 100% of the tank exterior shall be abrasive blasted as per SSPC-SP6/NACE 3 Commercial Blast Cleaning or ISO Sa 2 Thorough Blast Cleaning with a minimum angular anchor profile of 1.5 mils. All surfaces shall be clean dry, and free of contaminants.

Coating System shall be performance equal with the specified zinc/urethane/fluoropolymer paint product(s) as follows:

Primer	Tnemec (or equal): Series 93-H ₂ O Hydrozinc applied at 2.5 to 3.5 dry mils. Color: TBD
Intermediate:	Tnemec (or equal): Series 1095-color Endura-Shield applied at 2.0 to 3.0 dry mils. Color shall be in the same color family but noticeable different than the finish coat. Color: TBD
Finish:	Tnemec (or equal): Series 700-color Hydroflon applied at 2.0 to 3.0 dry mils. Color: Delft Blue
Logos:	Tnemec (or equal) Series 700-color Hydroflon applied at 2.0 to 3.0 dry mils. Additional coats may be required to achieve proper hide. Color: TBD; Confer with Owner prior to Ordering.
DFT:	Tnemec (or equal) DFT shall not be less than 6.5 dry mils. The DFT specified shall be obtained; additional coats shall be applied at the contractor's expense, to achieve the specified DFT

4.0 SURFACE PREPARATION

In all cases, surfaces shall be primed and or treated, as specified the same day they are prepared. A prepared surface, which becomes corroded or contaminated, shall be re-prepared before painting at no additional cost to the OWNER.

Dust from cleaning operations shall be properly removed by dry methods such as vacuuming or dry air blast, while not reducing the quality of the cleaned surface.

CONTRACTOR shall have on the job at all times at least one (1) copy of the latest SSPC pictorial standards, which shall be followed.

For ferrous metals, surface preparation shall consist of on or more of the methods contained in the methods supplied.

Abrasives utilized for blasting operations shall contain less than 0.01% free silica during and following blasting operations. Contractor is responsible for all cleanup and removal of blasting media following operations, as well as total removal from Owners' site. Media shall be profiled and documentation submitted to Consultant prior to media leaving site.

Abrasive shall be of the correct size to create the desired profile from the coatings manufactures data sheet.

5.0 EQUIPMENT AND PROCEDURES

At least 10 days prior to commencing field painting, the CONTRACTOR shall submit to CONSULTANT for review and acceptance a list of major items of equipment and procedures he proposes for painting.

The CONTRACTORS procedure for painting shall include the chronological sequence of operations.

Equipment list shall include make and capacity of compressor, make and capacity of abrasive blasting and spraying equipment.

Compressor shall be capable of delivering a minimum of 100 psi at the nozzle, at maximum working height of tank during blasting operations.

Effective oil and water separators, and a air drier shall be used in all lines serving spray painting and abrasive blasting operations to remove oil and moisture from the compressed air.

6.0 MIXING OF COATINGS:

Owner shall designate an area where all coatings shall be stored and mixed only. All mixing shall be done over a double tarped area. *Any and all spills shall be reported to the Owner immediately at the time of incidence. Contractor shall bear responsibility, as well as all costs associated with cleanup and removal of any contaminated area (s).*

7.0 PAINTING

Skilled, experienced painters on properly prepared surfaces shall do all painting. All surfaces, which are not to be coated, shall be protected.

The CONTRACTOR shall be responsible for the compatibility of all paints used in work.

8.0 VENTILATION

Ventilation is essential to remove vapors during application and curing of coatings.

Ventilation shall be exhausted from lowest portion of tank with top openings kept clear.

During coating applications the capacity of the ventilating fans shall be at least 400 cfm per gallon of coating applied per hour.

The ventilation requirements are to ensure proper curing of the applied coatings and are not to be taken as requirements to insure worker safety.

Following the application of the final interior coating the tank shall be force ventilated by mechanical means from the lowest possible point for a minimum of 48 hours, ventilation shall be such that it creates a total turn over on the interior of the tank a least once per hour.

9.0 QUALITY ASSURANCE

9.1 Manufacture:

The Owner has specified coating manufactures listed above to provide acceptable coating products for the project.

Alternate products may be considered, Contractor shall submit in writing detailed explanation for requesting product change, along with pricing of product. If product is accepted any and all savings shall revert back to owner. Contractor shall bear any and all costs associated with evaluation of product by

consultant, which may include but not limited too research, and testing by independent laboratories for product performance, and equality of those specified.

Only approved thinners from coatings manufacture shall be used at all times.

Any and all spills shall be reported to the Owner immediately at the time of incidence. Contractor shall bear responsibility, as well as all costs associated with cleanup and removal of any contaminated area (s).

9.2 Applicator Qualifications

All coatings related work shall be performed only by competent blasters and painters. They shall be qualified, skilled, experienced craftsmen. In the acceptance or rejection of completed painting, no allowance will be made for lack of skills on the part of the craftsmen. If workmen exhibit lack of experience they may not be allowed to work on project.

9.3 Field Quality Control

Paint film thickness shall be subject to measurement by the Consultant with Dry Mil Gauges, wet film gauge, low or high voltage meter, and/or applicable measuring instruments acceptable to the Consultant. If dry film thickness is found to be less than specified, or coverage is not uniform, the Contractor shall apply additional paint to correct thickness or appearance at no additional cost to the Owner.

9.4 Compatibility

- A. The Contractor shall be responsible for the compatibility of all paints used in the Work. A compatible paint will be considered a paint which precludes adverse effects related to bonding, drying delamination, scaling, lifting, and bleeding.
- B. In cases where shop-applied primers and coatings on materials and equipment furnished by suppliers are products different from those described in the Specifications, the Contractor shall verify compatibility with the specified field-applied coating system.
- C. Where thinning is necessary, only the products of the manufacturer furnishing the paint, and products for thinning purposes only, will be allowed.

9.5 Thickness and Spreading Rates

- A. Minimum dry mil thickness per coat (MDMTPC) and/or spreading rates in square feet per gallon shall be governed by the manufacturer's current data sheets or literature containing recommendations or instructions regarding these values. These recommended dry mil thickness and/or spreading rate values will be considered requirements to be met same as if set out herein these Specifications and Contract Documents and must be included with material list submittals before Consultant grants approval to use any paint materials. Do not exceed manufacturer's recommended coverage rates.
- B. The number of coats to be applied are specified herein and shall govern. Where the total dry film thickness is specified, this thickness shall govern over the MDMTPC.

9.6 Reference Standards

- A. SSPC/NACE (AMPP) surface preparation standards shall be on-site clearly visible to all workmen.
- B. A copy of project specifications shall be on job site at all times for workmen.

10.0 SUBMITTALS

Copy of manufactures technical information for coatings used on project. Shipping list with batch numbers for all coatings and thinners as well as shelf life delivered to site. SDS sheets for all products on site shall be on site at all times.

A. Manufacturer Name: Contractor shall submit manufacturer's name and brand of coating materials proposed to be used for field painting of this project in accordance with Section 01300.

B. Materials List:

1. Before any materials are delivered to the job site, submit to the Engineer a complete list of all materials proposed to be furnished including quantities, types and descriptions of paint for each part of the project. Material list shall make reference to the specified paint systems and the paint schedule for each paint product proposed to be used. In cases where paint materials other than those described in the Specifications are proposed, a materials list will not be considered as acceptance of such substitute materials; further data will be required as specified herein.
2. Two (2) copies of the full range of colors available in each of the proposed products shall be submitted with the materials list.

C. Manufacturer's Data: In any case where material is of manufacturer other than that listed as an Acceptable Manufacturer's (Article 1.10), the Contractor shall submit the following data to the Engineer for review prior to placing the material order:

1. Example of past performance of paints under similar conditions (case histories).
2. Types of paint.
3. Percentage of solids by volume.
4. Recommended usage.
5. Current recommended method of application published by manufacturer (Data Sheet and Material Safety Data Sheets).
6. Paint manufacturer's certificate for each coating proposed for use attesting that the coatings meet the specifications in this Section and are proper for the proposed application.
7. Paint manufacturer's specifications and data sheets and application instructions for each coating proposed for use on the interior and exterior of the tank including the coating for the logo/emblem.

D. Color Samples:

1. Where standard stock chart colors are not satisfactory, furnish color samples. All tinting and matching shall be the satisfaction of the Consultant.
2. Color samples shall be provided to the Consultant.

E. Experience Records:

1. Shortly after the award of the Contract, the Contractor shall submit experience records of the paint applicator and that of the paint manufacturer.
2. The Contractor shall submit a list of not less than five (5) utility or industrial installations which he has painted during the last five (5) years. This list shall include the names of the owners, the installations painted, responsible officials, and architects or engineers of record for the project.
3. Applicators and/or manufacturers whose submissions indicate, in the judgment of the Consultant, that they have not had the experiences required to perform the Work will not be acceptable.

11.0 PRODUCT DELIVERY, STORAGE AND HANDLING

11.1 Deliver all materials to job site in original, new and unopened containers. Bearing the manufactures name and labels.

- Name of material
- Manufactures Stock number and date of manufacture
- Manufactures name
- Contents by volume
- thinning instructions
- Application instructions

- Color name and number

11.2 Storage of materials:

- Store only acceptable project materials on project site
- Store according to manufactures recommendation
- Comply with all State and Federal health and fire hazard regulations.
- Store only acceptable materials on project site.
- Store only in a suitable and designated area restricted to the storage of paint materials and related equipment.
- Comply with all applicable health and fire regulations regarding the storage of paint materials.
- Storage of material shall comply with the manufacturer's specifications; however, storage shall be at a **minimum temperature of 50 degrees F.**

SDS sheets shall be in a bound set on job-site at all times, available to emergency personnel if required.

12.0 ENVIRONMENTAL REQUIREMENTS FOR APPLICATION OF COATINGS:

- Apply paints only when temperature of surfaces to be painted and surrounding air temps are between 55 and 90 degrees Fahrenheit unless otherwise permitted by paint manufactures printed instructions.
- Application of coatings will not be permitted in snow, rain, fog, mist or when the relative humidity exceeds 85%; or when the surface temp of substrate is less than 5 degrees Fahrenheit above the dew point; or to damp or wet surfaces.
- Painting will not be allowed during periods of inclement weather.
- Ambient temperature is above 95 degrees
- The CONTRACTOR at all times shall provide adequate illumination in areas where painting operations are in progress. **Lighting shall be OSHA approved and explosion proof.**
- Comply with manufacturer's recommendations as to environmental conditions under which painting systems can be applied.
- Do not apply finish to areas where dust and/or mist is being generated.

13.0 DISINFECTION

After curing at least the minimum number of days required by the paint manufacture, the CONTRACTOR shall wash the tank interior with an adequate volume of water to thoroughly wet all the interior surfaces including those above the high water level. All water will be removed and disposed of in accordance with approved regulations.

It is the CONTRACTORS responsibility after washing and curing to completely disinfect the interior portion of the tank, per AWWA C652(Method 2; spray method).

The Owner shall take and send water samples to the laboratory, but shall assume no responsibility for the sampling technique or the care of the samples. The stored tank water shall comply with Current STATE, USEPA, and AWWA standards for organic, inorganic, and biological contaminants as influenced by the operations of the CONTRACTOR.

14.0 TANK GRAPHIC

The Contractor shall apply the Owner's logo on the refurbished water tank bowl, matching existing size and colors, unless instructed otherwise. Tank graphics shall consist of finish coat material applied at 2-3 mils dry film thickness in colors to be selected by the Owner. Two coats may be needed to achieve proper hide depending on logo colors selected. Graphics shall consist of a logo in the text style and colors matching existing layout. The graphic shall be located on two sides of the tank as indicated on the

plans. The Contractor shall submit a layout drawing to the Engineer for approval before proceeding with the work.

15.0 WARRANTY

CONTRACTOR shall provide a **one year** on all aspects of work performed on project. An AMPP Certified (Level 2 or 3) Third Party firm shall conduct warranty inspection. The Contractor shall be responsible for scheduling the inspection. Any deficiencies shall be corrected at no cost to the owner, all costs for repair shall be incurred by the contractor and shall include the use of outside inspection personnel to verify to owner that repair work has been completed as needed.

END OF SECTION 01-200