Taunton, MA
Wastewater Treatment Facility
Phase I Improvements
CWSRF 4605
Addendum No. 5
August 11, 2021

This Addendum No. 5 forms a part of the Contract Documents and modifies the Bidding Documents dated July 2nd, 2021 as noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject the Bidder to disqualification.

Item 1: Section 09900 PAINTING

DELETE Section 09900 PAINTING in its entirety, pages 09900-01 through 09900-10 and **ADD the attached** Section 09900 PAINTING (REVISED PER ADDENDUM), pages 09900-01 through 09900-08

Item 2: Requests for Information and Clarification: The following questions were received regarding the bidding documents and subsequent addendums. Responses are in red.

1. Drawing SG-1 General Note 15 and Specification Section 02200-2.01-C. Structure Backfill. Please provide the desired width of gravel borrow backfill to be placed and compacted at foundation walls. A particular width of backfill is not required – however, it should be sufficiently wide to allow for appropriate compaction.

2. Regarding the Temporary Pavement called out on drawings C-1.8, C-1.9, and C-1.10 is it the intent of the Phase 1 Improvements to provide Temporary Pavement only or to provide a final base course and asphalt product as indicated in Specification Section 02500 – 1.03 Pavement Schedule? Phase 1 pavement is intended to be temporary, with final pavement installed during Phase 2.

3. Trenching for Yard Pipe on drawings C-1.14 and C-1.15 will be in existing plant access roads. Is it the intent of the Phase 1 Improvements to provide Temporary Pavement only or to provide a final base course and asphalt product as indicated in Specification Section 02500 – 1.03 Pavement Schedule?

and Underground Systems complete and in place. The response in Addendum #2 Q/A #16 confirms this. Is Addendum #3 Item 1 – 16000-1.5B referring the Electrical Contractors to Division 3 for further information regarding concrete items? Is this a similar scenario for excavations and backfilling? The referenced addendum #3 item is indicating that all concrete work is the responsibility of the general contractor, not the electrical contractor. This item was correcting an answer given in Addendum #2.

6. Drawing M-1.3 section 4 shows a new 24” DI pipe penetrating the frost wall of the [illegible] and the bypass channel wall. Drawing SG-2 lists the channel penetration as P-1.2 [illegible] the

13. Drawing M-5.1 requires demolition of the plastic lined Parshall flume and associated concrete fill. Drawing M-5.2 seems to indicate that there is only a very thin amount of concrete fill required in section 3. The scope required for this demolition is unclear. Please confirm that the intent is to demolish the entire Parshall flume and associated concrete to the limits shown on M-5.2 and that the only concrete fill required is to match the existing effluent channel dimensions after flume removal. Confirmed. Concrete fill is only to repair that removed during demolition of the flume.

14. Please confirm that the call out for detail 18/S-5.3 located on the footing plan on S-5.4 should have been labeled detail 42/S-5.4 No. Detail 18/S-5.3 should have been labeled l

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28. P

contractor’s work or the GC’s work? No. This is an existing piece of instrumentation shown for integration with the new SCADA system.

37. Spec 13320 instrument list calls out LE/LIT-9203 in the chem building scum/sanitary wet well.There is no mention of this instrument on M drawings. Is this instrument part of the scope of work? If so, please confirm who is responsible for mounting this instrument? Also, please con- firm that the instrument is located in the manhole outside the south end of the chemical storage building. Yes, this instrument is part of the scope. Correct, the wet well is on the south side of the chemical handling building (shown on sheet C-1.15)

38. Spec 13320 instrument list has two level switches LSH-9350 and LSH-9351. These are not shown on M drawings. Is the electrical contractor or GC responsible for installing these instruments? Instrument is the EC's responsibility to install as shown on Sheet E-2.4

39. Please confirm when backfilling structures, a 2’ wide perimeter band of gravel adjacent to the structure filled to grade is sufficient prior to backfilling with suitable excavated material. Confirmed

END OF DOCUMENT

Attachment: Revised Section 09900

PAINTING

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Paints by the Tnemec Company, Kansas City, Missouri have been used as the basis for the paint schedule, other manufactures considered equal:

1. Valspar Coatings,
2. Carboline.
3. or product deemed equivalent by the Engineer.

2.02 MATERIALS

A. Coatings

1. Ready Mixed, except field catalyzed coatings.
2. Process pigments to a soft paste like consistency, capable of being dispersed to a uniform coating.
3. Readily applied by spray or brush.
4. Dry free of streaks or sags.

B. Accessories

1. Linseed Oil, Shellac, Turpentine, Thinners to be of commercial quality, compatible to coatings used.

2.03 COLORS AND FINISHES

A. Colors selected by the Owner from color chips submitted by the Contractor for review. The selection shall be in the form of a color schedule indicating the colors to be used on the various surfaces. The colors used in the final Work shall match the selected color chips.

B. In general the finish coat shall be gloss or semi-gloss on metal work and flat finish on masonry, wood and drywall surfaces.

PART 3 EXECUTION

3.01 EXAMINATION

A. Site Verification of Conditions

1. Verify surfaces are ready to receive work in accordance with manufacturers recommendations.
2. Report conditions which may affect proper application to Engineer.
3. Measure moisture content of substrates.
4. Do not apply coatings when moisture exceeds levels below:
   a. Plaster and Gypsum wallboards 12 percent.
   b. Masonry and Concrete 12 percent
   c. Wood 14 percent

d. Prime bare steel.

12. Stainless steel surfaces shall not be painted.

3.03 COATING APPLICATION

A. General

1. Apply in accordance with manufacturers recommendations.
2. Apply each coat to uniform finish.
3. Apply each coat slightly darker than preceding coat, unless instructed otherwise by the Engineer.
4. Sand lightly between coats.
5. Allow preceding coat to dry prior to application of next coat.
6. Prime back surfaces of all woodwork.

3.04 MECHANICAL AND ELECTRICAL EQUIPMENT

A. General

1. Paint shop primed equipment with compatible finish coat.
2. Remove or mask items not to be painted.
3. Prime and finish all associated pipes, and ducts, both insulated and exposed, all hangers, brackets, collars and supports, unless items are pre finished.
4. Do not paint identification markings or tags on equipment.
5. Paint exposed conduit and piping in finished areas.
6. Paint both sides and edges of plywood mounting boards.
7. Reinstall all trim, fittings, plates ect. After painting is complete.

B. Color Code

1. Piping and equipment in accordance with Article 3.06 of this specification.

C. Identification

1. Label piping by contents and arrows indicating direction of flow.
2. Labels to be twenty feet (20) apart maximum, and within each space through which pipe line passes.
3. Adjacent to each side of walls which pipeline penetrate.
4. Adjacent to valves, equipment, and pumps.
5. Locate labels where they are unobstructed from view and visible from valves.
6. Colors to be white or black as appropriate for the substrate.
7. Letters, numbers and flow arrows to be stenciled to pipeline and equipment or die cut from vinyl film as approved by the Engineer.
8. Lettering size as follows:

Pipe Diameter in Inches	Size of Letters in Inches
3/4 to 1-1/4	1/2
1-1/2 to 2	3/4
2-1/2 to 6	1-1/2
8 to 10	2-1/2
Over 10	3

D. Metal tags

1. Pipelines smaller than 3/4 inches in diameter and for valves, securely fasten brass tags, 2-1/2 inches x 1/2 inches, with etched lettering filled with enamel paint.

2. 1st coat: V69 Epoxoline, DFT 2.0 to 4.0 mils.
3. 2nd coat: 1095 Endurashield, DFT 1.5 to 3.0 mils.

E. Concrete, and Concrete Block Masonry (New)

1. 1st coat: Tnemec Series 180 Tneme-Crete WB, DFT 8.0 mils.
2. 2nd coat: Tnemec Series 180 Tneme-Crete WB, DFT 8.0 mils.

F. Concrete, and Concrete Block Masonry (New), (Clear finish)

1. 1st coat: Tnemec Prime-A-Pell H20.
2. 2nd coat: Tnemec Prime-A-Pell H20.

G. Asphalt

1. 1 coat Traffic Marking Paint.

3.08 INTERIOR COATING SYSTEM SCHEDULE

A. Concrete Block

1. 1st coat: Tnemec 130-6602 Spray then back roll.
2. 2nd coat: Tnemec V69 Epoxoline, DFT 6.0 mils.
3. 3rd coat: Tnemec V69 Epoxoline, DFT 6.0 mils.

B. Concrete Walls and Ceilings

1. 1st coat: Tnemec V69 Epoxoline, DFT 6.0 mils.
2. 2nd coat: Tnemec V69 Epoxoline, DFT 6.0 mils.

C. Drywall

1. 1st coat: Tnemec 151 Elasto-Grip Sealer
2. 2nd coat: Tnemec Series 1029 Enduratone.
3. 3rd coat: Tnemec Series 1029 Enduratone.

D. Wood (to be painted)

1. 1st coat: Tnemec 151 Elasto-Grip.
2. 2nd coat: Tnemec Series 1029 Enduratone.
3. 3rd coat: Tnemec Series 1029 Enduratone.

E. Metals, Structural Steel, Piping, Railways, Equipment, ect.

1. Shop surface preparation: SSPC-SP-6, Blast profile 1.5 - 2.0 mils.
2. 1st coat; (Shop applied)-Tnemec 1 Omnithane, DFT 3.0 mils.
3. 2nd coat (Field applied)-Tnemec Series N69 Epoxoline, DFT 3.0 to 4.0 mils.
4. 3rd coat (Field applied)-Tnemec Series 1095 Endura Shield, DFT 1.5 to 2.5 mils.

F. PVC Piping

1. Surface preparation: Scarify prior to coating.
2. 1st coat: Tnemec Series N69 Epoxoline, DFT 1.5 to 2.0 mils.
3. 2nd coat: Tnemec Series N69 Epoxoline, DFT 1.5 to 2.0 mils.

G. Non-ferrous Metals (Galvanized, Copper, ect.)

1. Surface preparation: Per SSPC SP #16 Standard.
2. 1st coat: Tnemec N69 Epoxoline, DFT 1.5 to 3.0 mils.
3. 2nd coat: Tnemec 1095 Endurashield, DFT 2.0 to 3.0 mils.

H. Canvas and Cotton Insulation Coverings.

1. 1st coat: Tnemec 151 Elasto-Grip.
2. 2nd coat: Tnemec Series 1026 Enduratone.
3. 3nd coat: Tnemec Series 1026 Enduratone.

I. Interior concrete tanks in contact with potable water.

1. Surface preparation: SSPC-SP-13, with ICRI CSP #4
2. 1st coat: Surface entire concrete with Tnemec 217 or 218 Surfacer.
3. 2nd coat: Tnemec Series 22 Epoxoline white, DFT 25.0-35.0 mils.

3.09 CHEMICAL MIXING, FEED AND STORAGE AREA

A. Concrete Containment walls, tank pads and floors.

1. Surface preparation: SSPC-SP-13, with ICRI CSP #4
2. 1st coat: Fill large voids with Tnemec 215 Filler/Surfacer.
3. 2nd coat: Prime all surfaces with Tnemec Series 201 Epoxoline, DFT 6.0-8.0.
4. 3rd coat: Tnemec Series 282 Tneme-Glaze Gray DFT 8.0-10.0.
5. 4th coat: Tnemec Series 282 Tneme-Glaze Gray DFT 8.0-10.0.

Note: Detail all cracks per Tnemec Stratashield Detail requirements.

A. Concre[illegible]