



**CITY OF GRANTS PASS
GRANTS PASS, OREGON**

WRP DIGESTER HEAT EXCHANGER REPLACEMENT PROJECT

CLIENT PROJECT NO. SE6405

**ADDENDUM NO. 2
TO THE
CONTRACT DOCUMENTS**

FEBRUARY 28, 2022

Digitally signed by Harold W. Gresh
Date: 2022.02.28 13:58:44-08'00'



EXPIRES: 06/30/23



Bidders on the above-named project are hereby notified that the Bidding Documents are modified as indicated below. Bidders are required to acknowledge receipt of this Addendum in the space provided on the Document 00410 - Bid Form.

This Addendum shall become part of the Contract and provisions of the Contract apply.

SPECIFICATIONS

The following sections are modified as indicated below.

1. SECTION 01500 – TEMPORARY FACILITIES AND CONTROLS:
 - a. Change Temporary Dewatering System Loading Scenario 1 to 250 GPM.
 - 1) Replace 300 with 250 in paragraph 1.07 F.2.a.1).
 - b. Conveyors for cake handling shall be enclosed.
 - 1) Add the word, “enclosed” before conveyors in paragraph 1.07 F.2.a.7).
 - c. Add requirement for temporary covers for cake hauling truck/roll-off bin.
 - 1) Add the following sentence to the end of paragraph 1.07 F.2.a.7):
 - a) Cake hauling truck/bin shall be enclosed with a permanent or temporary cover sufficient to contain odors until hauled from plant site.
2. SECTION 03923 – CONCRETE REPAIR MORTAR:
 - a. Add specification section in its entirety.
3. SECTION 13215 – DIGESTER CLEANING:
 - a. Remove sludge screen requirement for sludge that the Owner is handling.
 - 1) Replace paragraph 1.04 B.5 with the following:
 - a) Owner will handle and remove all sludge down to elevation 897.50 prior to handing over to Contractor.

HEX DRAWINGS - VOL 3 OF 4

The following drawings for Volume 3 of 4 are modified as indicated below.

1. DRAWING G004 – OVERALL SITE PLAN:
 - a. Owner will handle installing topsoil.
 - 1) Replace General Note No. 3 with the following:
 - a) CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS RESULTING FROM CONSTRUCTION WORK, RESTORING GRADE AND IRRIGATION PIPING TO ORIGINAL CONDITION. FINAL GRADE SHALL BE FINE GRADED. OWNER WILL INSTALL TOPSOIL, SEED, AND REPLACE LANDSCAPING.

2. DRAWING G008 – GENERAL MECHANICAL NOTES:
 - a. Clarify concrete repair.
 - 1) Last sentence for existing work and demolition note 4A shall be replaced with the following:
 - a) CONTRACTOR SHALL REPAIR AREAS OF DEMOLISHED CONCRETE PER S204/TYP WITH PRODUCT SPECIFIED IN SPECIFICATION 03923.
3. DRAWING 61A101 – GAS BLENDER BUILDING FLOOR & REFLECTED CEILING PLAN:
 - a. CMU Water Repellent for CMU shall be exterior only.
 - 1) Amend Finish Schedule PT3 to be Exterior Only.

DC DRAWINGS - VOL 4 OF 4

The following drawings for Volume 4 of 4 are modified as indicated below.

1. DRAWING G004 – OVERALL SITE PLAN:
 - a. Owner will handle installing topsoil.
 - 1) Replace General Note No. 3 with the following:
 - a) CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS RESULTING FROM CONSTRUCTION WORK, RESTORING GRADE AND IRRIGATION PIPING TO ORIGINAL CONDITION. FINAL GRADE SHALL BE FINE GRADED. OWNER WILL INSTALL TOPSOIL, SEED, AND REPLACE LANDSCAPING.
2. DRAWING G008 – GENERAL MECHANICAL NOTES:
 - a. Clarify concrete repair.
 - 1) Last sentence for existing work and demolition note 4A shall be replaced with the following:
 - a) CONTRACTOR SHALL REPAIR AREAS OF DEMOLISHED CONCRETE PER S204/TYP WITH PRODUCT SPECIFIED IN SPECIFICATION 03923.

New Section

SECTION 03923^{AD2}

CONCRETE REPAIR MORTAR

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Concrete repair mortar.

1.02 REFERENCES

- A. American Association of State Highway and Transportation Officials (AASHTO):
 - 1. T277 - Standard Method of Test for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration.
- B. ASTM International (ASTM):
 - 1. C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-inch or [50-mm] Cube Specimens).
 - 2. C293 - Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading).
 - 3. C496 - Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens.
 - 4. C882 - Standard Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear.

1.03 SUBMITTALS

- A. Product Data.
- B. Manufacturer's Instructions.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle packaged materials in the manufacturer's original, sealed containers.
- B. Clearly identify each container with the manufacturer's name, name and type of product, and batch numbers.
 - 1. Remove damaged material from the site.
- C. Store and condition the specified product as recommended by the manufacturer.
- D. Store materials subject to damage by dirt and moisture in a clean, dry location, off the ground and suitably protected.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. The following or equal:
 - 1. Sika, SikaTop 123 Plus.

2.02 DESIGN AND PERFORMANCE CRITERIA

- A. General: Composed of pre-packaged polymer-modified portland cement mortar used to perform shallow repairs on horizontal, vertical, and overhead applications.
- B. Design requirements:
 - 1. Provide material suitable for performing in environments subject to corrosive attack by chlorides and sulfates, freeze/thaw cycles, low permeability, and abrasion resistant.
 - 2. Capable of being poured in place or troweled in place to suit the conditions encountered.

2.03 MATERIALS

- A. Water: Potable, clean, and not detrimental to mortar.

2.04 MANUFACTURED UNITS

- A. Component A shall be a liquid polymer emulsion with an acrylic copolymer base and additives:
 - 1. pH: 4.5 to 6.5.
 - 2. Film forming temperature: 73 degree Fahrenheit maximum.
 - 3. Tear strength: 950 pounds per square inch minimum.
 - 4. Elongation at break: 500 percent minimum.
 - 5. Particle size: Less than 0.1 micron.
- B. Component A shall contain an organic, penetrating corrosion inhibitor that has been independently proven to reduce corrosion in concrete.
 - 1. The corrosion inhibitor shall not be calcium nitrite, and shall have a minimum of 5 years of independent field-testing to document performance on actual construction projects.
- C. Component B shall be a blend of selected portland cements, specially graded aggregates, admixtures for controlling setting time, water reducers for workability, and an organic accelerator.
- D. Materials shall be supplied as a factory-blended unit.
- E. Placeable in 1/8 inch to 1-1/2 inch depth per lift for vertical applications and 1/8 inch to 1 inch in depth for overhead applications.

- F. Typical properties of the mixed concrete repair mortar:
 - 1. Working time: Approximately 10 to 15 minutes.
 - 2. Finishing time: 20 to 60 minutes.
 - 3. Color: Concrete gray.

- G. Properties of the cured concrete repair mortar:
 - 1. Compressive strength: In accordance with ASTM C109 modified:
 - a. 1 day: 3,500 pounds per square inch minimum.
 - b. 7 days: 6,000 pounds per square inch minimum.
 - c. 28 days: 7,000 pounds per square inch minimum.
 - 2. Flexural strength: 2,000 pounds per square inch at 28 days in accordance with ASTM C293.
 - 3. Splitting tensile strength: 900 pounds per square inch at 28 days in accordance with ASTM C496.
 - 4. Bond strength: 2,200 pounds per square inch at 28 days in accordance with ASTM C882 modified.
 - 5. Permeability: 500 coulombs in accordance with AASHTO T 277
 - 6. Wet mix density: Approximately 132 pounds per cubic feet.
 - 7. Shall not produce a vapor barrier.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Mix in accordance with manufacturer's instructions.

- B. At the time of application, substrate shall be saturated surface dry with no standing water.

- C. Install in accordance with manufacturer's installation instructions.

- D. Apply only when ambient conditions of moisture, temperature, humidity, and wind are favorable for curing:
 - 1. Do not allow to dry out during placement.
 - 2. Use water misting when required to prevent material from drying out before curing is started.

- E. Moist cure with wet burlap or a fine mist for 7 days.

- F. During the curing process, protect from rain, wind, or freezing as required. Keep sufficient covering on hand at all times for protection.

END OF SECTION

^{AD2} Addendum No. 2