## ADDENDUM #2

Project Name: DAS CC Capitol North and South Stairs Repair DAS# 9305.00 RFB 930500-01 Addendum #2 Dated: March 15, 2024

This Addendum forms a part of the bidding and contract documents. This Addendum supersedes and supplements all portions of the original bidding and contract documents dated <u>Feb. 09, 2024</u> with which it conflicts.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM. FAILURE TO DO SO MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

# 1) CLARIFICATIONS

- A. Additional parking information is provided on the attached google earth image. Lot 13 provides ten parking stalls for contractor parking. Lot 13 is card access only. Lot 22 is the designated lot for contractor parking. On street public parking shall be at first come first serve.
- B. The trade contractor is responsible for all overhead protection to accommodate building egress.
- c. The trade contractor is responsible for dust control when working on the interior of the building. The trade contractor shall provide temporary barriers/partitions to separate the construction area from the remainder of the Capitol Building.
- D. The trade contractor is responsible for providing a weatherproof enclosure when the sidewalk light/sky light is removed at the South Stair. The design/engineering of the weatherproof enclosure is the responsibility of the trade contractor.
- E. For removal of lead containing and lead based paint related to sidewalk light/sky light, and steel support components, the trade contractor performing this work shall be required to have a Lead Professional Certification with the State of Iowa. Reference Hazardous Materials Survey located in the appendix of the specifications for related testing.

# 2) PLANS

A. No Items

# **3) SPECIFICATIONS**

A. 32 1313 Description of Change: 32 1313-1 Concrete Paving, Part 2, 2.01 paving assemblies, A, revise to state the following: "Concrete Sidewalks: 4,000 psi (27.6 MPa) 28-day concrete, 5 inches (125 mm) thick, buff color Portland cement, light broom finish.".

# 4) QUESTIONS AND CLARIFICATIONS

A. What is the construction budget for the project? A > \$850,000

# 5) SUBSTITUTION REQUESTS

A. No Items

## 6) ATTACHMENTS

- A. Section 32 1313 Concrete Paving (3 pages)
- B. Additional Parking Information (1 page)

## END OF ADDENDUM

#### SECTION 32 1313 CONCRETE PAVING

## PART 1 GENERAL

## 1.01 SECTION INCLUDES

A. Concrete sidewalks replacement due to construction.

### 1.02 RELATED REQUIREMENTS

A. Section 07 9205 - Joint Sealants: Sealing joints.

#### 1.03 REFERENCE STANDARDS

- A. ACI 211.1 Selecting Proportions for Normal-Density and High Density-Concrete Guide; 2022.
- B. ACI 301 Specifications for Concrete Construction; 2020.
- C. ACI 304R Guide for Measuring, Mixing, Transporting, and Placing Concrete; 2000.
- D. ACI 305R Guide to Hot Weather Concreting; 2020.
- E. ACI 306R Guide to Cold Weather Concreting; 2016.
- F. ASTM A615/A615M Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2020.
- G. ASTM A1064/A1064M Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2018a.
- H. ASTM C33/C33M Standard Specification for Concrete Aggregates; 2023.
- I. ASTM C39/C39M Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2021.
- J. ASTM C94/C94M Standard Specification for Ready-Mixed Concrete; 2020.
- K. ASTM C150/C150M Standard Specification for Portland Cement; 2020.
- L. ASTM D1751 Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types); 2018.
- M. ASTM D1752 Standard Specification for Preformed Sponge Rubber, Cork, and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction; 2018 (Reapproved 2023).

## 1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on joint filler, admixtures, and curing compound.

## PART 2 PRODUCTS

## 2.01 PAVING ASSEMBLIES

A. Concrete Sidewalks: 4,000 psi (27.6 MPa) 28 day concrete, 5 inches (125 mm) thick, buff color Portland cement, light broom finish.

## 2.02 FORM MATERIALS

- A. Wood form material, profiled to suit conditions.
- B. Joint Filler: Preformed; non-extruding bituminous type (ASTM D1751) or sponge rubber or cork (ASTM D1752).

## 2.03 REINFORCEMENT

A. Steel Welded Wire Reinforcement: Plain type, ASTM A1064/A1064M; in flat sheets; unfinished.

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B. Dowels: ASTM A615/A615M, Grade 40 - 40,000 psi (280 MPa) yield strength; deformed billet steel bars; unfinished finish.

## 2.04 CONCRETE MATERIALS

- A. Obtain cementitious materials from same source throughout.
- B. Cement: ASTM C150/C150M, Normal Type I Portland cement, gray color.
- C. Fine and Coarse Mix Aggregates: ASTM C33/C33M.

#### 2.05 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.
- B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI 301.
  - 1. For trial mixtures method, employ independent testing agency acceptable to Architect for preparing and reporting proposed mix designs.
- C. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended by manufacturer.
- D. Concrete Properties:
  - 1. Compressive strength, when tested in accordance with ASTM C39/C39M at 28 days; 3000 psi (20.7 MPa).

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify compacted subgrade is acceptable and ready to support paving and imposed loads.
- B. Verify gradients and elevations of base are correct.

#### 3.02 SUBBASE

A. Prepare subbase in accordance with State of Iowa Highways standards.

#### 3.03 PREPARATION

A. Moisten base to minimize absorption of water from fresh concrete.

## 3.04 FORMING

- A. Place and secure forms to correct location, dimension, profile, and gradient.
- B. Place joint filler vertical in position, in straight lines. Secure to formwork during concrete placement.

#### 3.05 REINFORCEMENT

- A. Place reinforcement at top of slabs-on-grade.
- B. Interrupt reinforcement at contraction and expansion joints.
- C. Place dowels to achieve pavement and curb alignment as detailed.

## 3.06 COLD AND HOT WEATHER CONCRETING

- A. Follow recommendations of ACI 305R when concreting during hot weather.
- B. Follow recommendations of ACI 306R when concreting during cold weather.
- C. Do not place concrete when base surface temperature is less than 40 degrees F (4 degrees C), or surface is wet or frozen.

#### 3.07 PLACING CONCRETE

- A. Place concrete in accordance with ACI 304R.
- B. Ensure reinforcement, inserts, embedded parts, formed joints are not disturbed during concrete placement.

## 3.08 JOINTS

- A. Align curb, gutter, and sidewalk joints.
- B. Place 3/8 inch (10 mm) wide expansion joints at 20 foot (6 m) intervals and to separate paving from vertical surfaces and other components and in pattern indicated.
- C. Provide scored joints.
  - 1. To match existing joint layout.
- D. Saw cut contraction joints 3/16 inch (5 mm) wide at an optimum time after finishing. Cut 1/3 into depth of slab.

## 3.09 FINISHING

A. Sidewalk Paving: Light broom, texture perpendicular to direction of travel with troweled and radiused edge 1/4 inch radius (6 mm radius).

## 3.10 TOLERANCES

- A. Maximum Variation of Surface Flatness: 1/4 inch (6 mm) in 10 ft (3 m).
- B. Maximum Variation From True Position: 1/4 inch (6 mm).

## 3.11 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 01 4000 Quality Requirements.
  - 1. Provide free access to concrete operations at project site and cooperate with appointed firm.
  - 2. Tests of concrete and concrete materials may be performed at any time to ensure conformance with specified requirements.
- B. Maintain records of placed concrete items. Record date, location of pour, quantity, air temperature, and test samples taken.

#### 3.12 PROTECTION

- A. Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, and mechanical injury.
- B. Do not permit pedestrian traffic over pavement for 7 days minimum after finishing.

## END OF SECTION

DAS CC Capitol North and South Stairs Repair Des Moines, IA DAS Project #9305.00

#### DAS Bid #RFB930500-01



## Parking:

Lot 13 will have 10 parking stalls available for contractor parking. Lot 13 is Card Access only.

Lot 22 is the designated lot for contractor parking. On street public parking shall be at first come first serve.