ADDENDUM NO. 2

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Replace Roofs – Laundry & Print Shop
Moberly Correctional Center
Moberly, Missouri
PROJECT NO.: C1913-02

Bid Opening Date: 1:30 PM, Thursday, June 25, 2020

Revised Unit Prices Form is attached. Bidders must use the unit prices form marked REVISED PER ADDENDUM #2 to bid this project.

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. SECTION 004322 – UNIT PRICES FORM
   a. REPLACE with REVISED SECTION 004322 – UNIT PRICES FORM (attached)
   Bidders must the attached revised unit prices form to bid this project.

2. SECTION 012200 – UNIT PRICES
   a. REPLACE with REVISED SECTION 012200 – UNIT PRICES (attached)

3. SECTION 053123 – STEEL ROOF DECKING
   a. Paragraph 1.1.C SUMMARY, Related Sections, ADD as follows:
      2. SECTION 012200 – UNIT PRICES
   b. Paragraph 2.2.A FABRICATION, REVISE as follows:
      A. Metal Form Roof Decking shall be not less than 24-gauge sheet steel (excluding finish), 1-inch depth with fluted profile to match the existing metal roof decking in 36-inch wide sheets.

4. SECTION 075423 – THERMOPLASTIC POLYOLEFIN (TPO) ROOFING
   a. Paragraph 2.3 ROOF INSULATION, REVISE as follows:
      A. Polyisocyanurate Board Insulation: ASTM C 1289 Type II, Class 1, Grade 2 (20 psi) with felt or glass-fiber mat facer on both major surfaces. Mechanically fasten insulation system to substrate in compliance with requirements of FM 1A-90.
      B. Tapered Insulation: Provide factory-tapered insulation boards fabricated to achieve a minimum overall roof slope of ¼ inch per 12 inches. Mechanically fasten insulation system to substrate in compliance with requirements of FM 1A-90.
      C. Provide pre-formed saddles, crickets, tapered edge strips, and other insulation shapes where indicated and required to achieve a minimum overall roof slope of ¼ inch per 12 inches to drain. Fabricate slopes indicated in approved shop drawings. Mechanically-fasten insulation shapes to substrate in compliance with requirements of FM 1A-90.
   b. Paragraph 2.4.C INSULATION ACCESSORIES, REVISE as follows:
      C. Cover Board: ASTM C 1289, Type II, Class 4, Grade 1 (80 psi) High-Density
Polyisocyanurate Insulation Board, ½-inch thick, with coated glass facers. Mechanically fasten cover board system to substrate in compliance with requirements of FM 1A-90.

c. Paragraph 3.1.A.1 SUBSTRATE BOARD, REVISE as follows:
1. Fasten substrate board to deck to resist uplift pressure at corners, perimeter, and filed of roof according to membrane roofing system manufacturer’s written instructions for compliance with the requirements of FM 1A-90.

d. Paragraphs 3.2.B, E, F, INSULATION INSTALLATION, REVISE as follows:
B. Comply with membrane roofing system and insulation system manufacturer's written installation instructions for compliance with the requirements of FM 1A-90.
E. Mechanically-Fastened Insulation: Install each layer of insulation and secure first layer of insulation to roof deck, using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to roof deck type. Fasten each layer of insulation to resist uplift pressure at corners, perimeter and field of roof in compliance with membrane roofing system and cover board system manufacturer’s written installation instructions for compliance with the requirements of FM 1A-90.
F. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset cover board joints from joints of insulation substrate below a minimum of 6 inches in each direction. Loosely butt cover boards together. Comply with membrane roofing system and cover board system manufacturer’s written installation instructions for compliance with the requirements of FM 1A-90.

e. Paragraph 3.4 BASE FLASHING INSTALLATION, ADD as follows:
E. Extend membrane flashing up and over the top of parapets, curbs, expansion joints and other similar features, extending a minimum of 3 inches down the opposite vertical face. Terminate membrane flashing under anchor bars, termination bars, or other types of fasteners in compliance with the membrane roofing system manufacturer's written instructions.

5. SECTION 076200 – SHEET METAL FLASHING AND TRIM
a. Part 2 – PRODUCTS, ADD as follows:
   2.6 METAL FASCIA SYSTEMS
A. Manufactured roof-edge metal fascia system consisting of snap-on aluminum fascia cover in section lengths not exceeding 12 feet and a continuous formed steel anchor rail with integral drip-edge cleat to engage and secure fascia cover. Provide matching pre-formed corner units and all required accessories required to make a complete installation.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include but are not limited to the following:
   A. Hickman Company, W.P.
   B. Johns Manville
   C. Metal-Era, Inc.
   D. Metal-Fab Manufacturing, LLC
   E. National Sheet Metal Systems Inc.
2. Fascia Cover: Fabricated from mill-finish .040 aluminum sheet – metallic color finish similar to existing stainless-steel fascia.
4. Fasteners: minimum #10 x 2” stainless steel fasteners, spaced per manufacturer’s written instructions for compliance with the requirements of FM 1A-90.
6. Splice Plates: Concealed, of same material, finish and shape as fascia cover.

Note: This product specification was previously located in Section 077100, which has been deleted from the project manual.

6. SECTION 077100 – ROOF SPECIALTIES
   a. DELETE this Section in its entirety.

7. DIVISION 220000 PLUMBING
   a. ADD the following specification sections:
      1. SECTION 220719 – PLUMBING PIPING INSULATION (attached)
      2. SECTION 221005 – PLUMBING PIPING (attached)
      3. SECTION 221006 – PLUMBING PIPING SPECIALTIES (attached)

DRAWING CHANGES:

1. SHEET AD-100
   a. REPLACE with the Revised Drawing AD-100 LAUNDRY/PRINT SHOP BUILDINGS NO. 13 Roof Demolition Plan (attached)

2. SHEET A-100
   a. REPLACE with Revised Drawing A-100 Laundry/Print Shop Building No. 13 Roof Replacement Plan (attached)

3. SHEET A-500
   a. REPLACE with Revised Drawing A-500 Flat Roof TPO Details (attached)

4. SHEET M-100
   a. REPLACE with Revised Drawing M-100 Laundry/Print Shop Building No. 13 MEP Roof Plan (attached)

GENERAL COMMENTS:

1. The Pre-Bid Meeting was conducted at the Moberly Correctional Center on May 29, 2020 at 2:00 pm followed by an inspection of the Laundry & Print shop roofs.
2. Bidders needing additional site inspection should contact DOC facility staff Greg Brown at (660) 216-5593, Greg.Brown@doc.mo.gov to make arrangements to enter the facility.
3. Please contact Kelly Copeland, Contract Specialist, at (573) 522-2283, Kelly.Copeland@oa.mo.gov for questions about bidding procedures, MBE/WBE/SDVE Goals, and other submittal requirements.
4. The REVISED deadline for submission of technical questions to Connell Architecture is June 18, 2020 at noon.
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. All correspondence with respect to this project must include the State of Missouri project number as indicated above (C1913-02).
7. Current Planholders list is available online at: https://www.adsplanroom.net/jobs/511/plan-holders/c1913-02-replace-roofs-laundry-print-shop-moberly-correctional-center

8. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, (573) 446-7768 to get plans and specifications.

ATTACHMENTS:

1. Section 004322 – Unit Prices Form
2. Section 012200 – Unit Prices
3. Section 220719 – Plumbing Piping Insulation
4. Section 221005 – Plumbing Piping
5. Section 221006 – Plumbing Piping Specialties
6. Drawing Sheet AD-100 Laundry/Print Shop Building No. 13 Roof Demolition Plan
7. Drawing Sheet A-100 Laundry/Print Shop Building No. 13 Roof Replacement Plan
8. Drawing Sheet A-500 Laundry/Print Shop Building No. 13 Flat Roof Details
9. Drawing Sheet M-100 Laundry/Print Shop Building No. 13 MEP Roof Plan

June 16, 2020

END ADDENDUM NO. 2
1.0 Description

A. For changing specified quantities of work from those indicated by the contract drawings and specifications, upon written instructions of Owner, the following unit prices shall prevail. The unit prices include all labor, overhead and profit, materials, equipment, appliances, bailing, shoring, shoring removal, etc., to cover the finished work of the several kinds of work called for. Only a single unit price shall be given and it shall apply for either MORE or LESS work than that shown on the drawings and called for in the specifications or included in the Base Bid. In the event of more or less units than so indicated or included during construction the total contract price shall be decreased as appropriate or increased by contract change in accordance with General Conditions Article 4.1.

2.0 Unit Prices:

A. Unit Price No. 1 – 1-inch Metal Form Roof Deck Replacement – Laundry Building:

1. Description: Remove existing damaged or deteriorated metal form roof deck discovered during the demolition process and replace with new metal form roof deck in the thickness and profile shown on the drawings and as required to match the thickness and profile of the existing roof deck in accordance with Section 053123 Steel Roof Deck.

2. Unit of Measurement: Per Square Foot.

3. Quantity included in Base Bid: 2,800 sf (Laundry Building No. 13)

$____________________ per square foot

B. Unit Price No. 2 – 2x4 Wood Blocking Replacement:

1. Description: Remove existing damaged or deteriorated 2x4 wood blocking discovered during the demolition process at the roof perimeter and replace with new preservative-treated 2x4 wood blocking in the thickness and profile shown on the drawings and as required to match the thickness and profile of the existing 2x4 wood blocking at the perimeter of the roof in accordance with Section 061000 – Rough Carpentry.

2. Unit of Measurement: Per Linear Foot.

3. Quantity included in Base Bid: 1,800 linear feet

$____________________ per square foot
SECTION 012200 – UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract including General and Supplementary Conditions and other Division 1 Specification Sections apply to this Section.

B. Section 011000 – Summary of Work. The Base Bid includes the removal and replacement of existing damaged or deteriorated roof deck on the Laundry Building and the removal and replacement of existing damaged or deteriorated 2x4 wood blocking at the roof parapet on the entire building. Quantities of Units to be included in the Base Bid are indicated in this Section and on the Drawings.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for Unit Prices.

B. Related Sections include the following:
   1. Division 1 Section "Allowances" for procedures for using Unit Prices to adjust quantity allowances.
   2. Division 1 Section "Contract Modification Procedures" for procedures for submitting and handling Contract Changes.
   3. Section 061000 – Rough Carpentry

1.3 DEFINITIONS

A. Unit Price is a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

A. Unit Prices include all necessary material plus cost for delivery, installation, insurance, overhead, and profit.

B. Measurement and Payment: Refer to individual Specification Sections for work that requires establishment of Unit Prices. Methods of measurement and payment for Unit Prices are specified in those Sections.

C. Owner reserves the right to reject Contractor's measurement of Work in-place that involves use of established Unit Prices and to have this work measured by the Owner's representative and/or the Architect.

D. List of Unit Prices: A list of Unit Prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each Unit Price.
PART 3 - EXECUTION

3.1 LIST OF UNIT PRICES

A. Unit Price No. 1: 1-inch Metal Form Roof Deck Replacement – Laundry Building:
   1. Description: Remove existing damaged or deteriorated metal form roof deck discovered during the demolition process and replace with new metal form roof deck in the thickness and profile shown on the drawings and as required to match the thickness and profile of the existing roof deck in accordance with Section 053123 Steel Roof Deck.
   2. Unit of Measurement: Per Square Foot.
   3. Quantity included in Base Bid: 2,800 sf (Laundry Building No. 13)

B. Unit Price No. 2: 2x4 Wood Blocking Replacement:
   1. Description: Remove existing damaged or deteriorated 2x4 wood blocking discovered during the demolition process at the roof perimeter and replace with new preservative-treated 2x4 wood blocking in the thickness and profile shown on the drawings and as required to match the thickness and profile of the existing 2x4 wood blocking at the perimeter of the roof in accordance with Section 061000 – Rough Carpentry.
   2. Unit of Measurement: Per Linear Foot.
   3. Quantity included in Base Bid: 1,800 linear feet

END OF SECTION 012200
SECTION 220719 - PLUMBING PIPING INSULATION

PART 1 GENERAL
1.01 SECTION INCLUDES
   A. Piping insulation.

1.02 REFERENCE STANDARDS

PART 2 PRODUCTS
2.01 REGULATORY REQUIREMENTS
   A. Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84 or UL 723.

2.02 GLASS FIBER
   A. Manufacturers:
      3. Owens Corning Corporation; Fiberglas Pipe Insulation ASJ: www.ocbuildingspec.com

PART 3 EXECUTION
3.01 INSTALLATION
   A. Install in accordance with manufacturer's instructions.

END OF SECTION 220719
SECTION 221005 - PLUMBING PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Pipe, pipe fittings, specialties, and connections for piping systems.
      1. Storm water.
      2. Pipe hangers and supports.

1.02 REFERENCE STANDARDS

1.03 QUALITY ASSURANCE
   A. Perform work in accordance with applicable codes.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS
   A. Potable Water Supply Systems: Provide piping, pipe fittings, and solder and flux (if used),
      that comply with NSF 61 and NSF 372 for maximum lead content; label pipe and fittings.

2.02 STORM WATER PIPING, BURIED WITHIN 5 FEET (1500 MM) OF BUILDING
   A. Cast Iron Pipe: ASTM A74 service weight.
      1. Fittings: Cast iron.
      2. Joint Seals: ASTM C564 neoprene gaskets, or lead and oakum.

2.03 STORM WATER PIPING, ABOVE GRADE
   A. Cast Iron Pipe: ASTM A74 service weight.
      1. Fittings: Cast iron.
      2. Joint Seals: ASTM C564 neoprene gaskets, or lead and oakum.

PART 3 EXECUTION

3.01 PREPARATION
   A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
   B. Remove scale and dirt, on inside and outside, before assembly.
   C. Prepare piping connections to equipment with flanges or unions.

3.02 INSTALLATION
   A. Install in accordance with manufacturer's instructions.
   B. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

3.03 SCHEDULES
   A. Pipe Hanger Spacing:
      1. Metal Piping:
         a. Pipe Size: 4 inches (100 mm) to 6 inches (150 mm):
            1) Maximum Hanger Spacing: 10 ft (3 m).
            2) Hanger Rod Diameter: 5/8 inch (15 mm).

END OF SECTION 221005
SECTION 221006 - PLUMBING PIPING SPECIALTIES

PART 1 GENERAL
1.01 SECTION INCLUDES
   A. Drains.

1.02 RELATED REQUIREMENTS
   A. Section 221005 - Plumbing Piping.
   B. Section 224000 - Plumbing Fixtures.

1.03 REFERENCE STANDARDS
   A. ASME A112.6.4 - Roof, Deck, and Balcony Drains 2008 (Reaffirmed 2012).

PART 2 PRODUCTS
2.01 GENERAL REQUIREMENTS
   A. Specialties in Potable Water Supply Systems: Provide products that comply with NSF 61 and NSF 372 for maximum lead content.

2.02 DRAINS
   A. Manufacturers:
      2. Zurn Industries, LLC: www.zurn.com
      3. Watts: www.watts.com
   B. Roof Drains:
      1. Assembly: ASME A112.6.4.
      2. Body: Cast iron with sump.
      3. Strainer: Removable polyethylene or cast iron dome.

PART 3 EXECUTION
3.01 INSTALLATION
   A. Install in accordance with manufacturer's instructions.

END OF SECTION
FLAT ROOF EDGE @ OVERHANG DETAIL
FLAT ROOF EDGE @ WALL DETAIL
DETAL OMITTED

PLUMBING VENT FLASHING DETAIL
HOT STACK FLASHING DETAIL
ROOF DECK REPAIR DETAIL
FLAT ROOF DRAIN DETAIL
FLAT ROOF EXPANSION JOINT DETAIL
FLAT ROOF TO CURB DETAIL
TYPICAL FLAT ROOF LAPPING DETAILS

SCALE: 3" = 1'-0"

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
5201 SOUTH MORLEY ST,
MOBERLY, MO 65233
OFFICE OF
ADMINISTRATION
MANAGEMENT, DESIGN
AND CONSTRUCTION
MISSOURI DEPARTMENT
OF CORRECTIONS

BRIAN DOUGLAS CONNELL ARCHITECT MO# A-5036
CONNELL ARCHITECTURE, P.C.
5-12-2020
5-12-2020
6-15-2020
ADDENDUM 2

PROJECT No. C1913-02
SITE No. 7066
ASSET No. 122190059/007201023
REVISION: A
DATE: 12-31-2019
REVISION: 0
ISSUE DATE: 12-31-2020
CHECKED BY:

DRAWN BY:
DESIGNED BY:

DATE:
REVISION:
DATE:
REVISION:
DATE:

CAD DWG FILE:
C1913-02-7005-A-500
DLV

PAGE 5 OF 6
REPLACE ROOFS, LAUNDRY & PRINT SHOP BUILDINGS
M OBERLY CORRECTIONAL CENTER
201 N. BEARNHART DR., MOBERLY, MO 65270
573-234-4492  phone
www.j-squaredeng.com
office@j-squaredeng.com

C1913-02
C1913-02-7005-9327005030-9327005031-M-100.dwg

05-12-2020
M-100
6 of 6

LAUNDRY / PRINT SHOP BUILDING No. 13 - MEP ROOF PLAN
ACW
JPW
JAP

ADDENDUM 1
06-15-2020

LAUNDRY BUILDING
PRINT SHOP BUILDING

PRINT SHOP ROOF - MEP PLAN
LAUNDRY ROOF - MEP PLAN

1. CAST FOR SLOPE DECK TO REPAIR PROVIDE A ROLL OF ROOF AND FLASHING.
2. CAST FOR SLOPE DECK TO REPAIR PROVIDE A ROLL OF ROOF AND FLASHING.
3. CAST FOR SLOPE DECK TO REPAIR PROVIDE A ROLL OF ROOF AND FLASHING.
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