

## 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 field 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.
          - F. Perimeter Systems – division of Southern Aluminum Finishing Company.
        - 2. Fascia Cover: Fabricated from mill-finish .040 aluminum sheet – metallic color finish similar to existing stainless-steel fascia.

3. Anchor Rail: Factory-formed galvanized steel rail with integral drip-edge cleat and pre-punched fastener slots – 20 gauge.
4. Fasteners: minimum #10 x 2” stainless steel fasteners, spaced per manufacturer’s written instructions for compliance with the requirements of FM 1A-90.
5. Corners: Factory-mitered and mechanically clinched and sealed watertight.
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](mailto: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](mailto: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/planholders/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**

**REVISED PER ADDENDUM #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 2 - PRODUCTS (Not Used)**

**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**

- A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2020.
- B. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials Current Edition, Including All Revisions.

### **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:
  - 1. CertainTeed Corporation: [www.certainteed.com](http://www.certainteed.com).
  - 2. Johns Manville Corporation: [www.jm.com](http://www.jm.com).
  - 3. Owens Corning Corporation; Fiberglas Pipe Insulation ASJ: [www.ocbuildingspec.com](http://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**

- A. ASTM A74 - Standard Specification for Cast Iron Soil Pipe and Fittings 2020.
- B. ASTM C564 - Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings 2020.
- C. NSF 61 - Drinking Water System Components - Health Effects 2019.
- D. NSF 372 - Drinking Water System Components - Lead Content 2016.

#### **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).
- B. NSF 61 - Drinking Water System Components - Health Effects 2019.
- C. NSF 372 - Drinking Water System Components - Lead Content 2016.

### **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:
  - 1. Jay R. Smith Manufacturing Company: [www.jayrsmith.com](http://www.jayrsmith.com)
  - 2. Zurn Industries, LLC: [www.zurn.com](http://www.zurn.com)
  - 3. Watts: [www.watts.com](http://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**

- GENERAL ROOF DEMOLITION NOTES: LAUNDRY / PRINT SHOP BUILDINGS No. 13**
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL OF DEMOLITION MATERIALS WITH OTHER WORK SEQUENCES AND OWNER OCCUPANCY REQUIREMENTS.
  - THE ROOFING CONTRACTOR SHALL CONTRACT WITH MECHANICAL / ELECTRICAL CONTRACTORS TO TEMPORARILY DISCONNECT, REMOVE AND RE-INSTALL ROOF-MOUNTED EQUIPMENT DURING ROOF DEMOLITION AND REPLACEMENT ACTIVITIES. THE CONTRACTOR SHALL COORDINATE TEMPORARY DISRUPTIONS WITH THE FACILITY MANAGER.
  - REMOVE ALL EXISTING ROOFING, FLASHING, BOOTS AND TRIM, INSULATION, AND LIGHTWEIGHT CONCRETE DOWN TO THE EXISTING METAL ROOF DECK.
  - REMOVE ALL EXISTING CANTS, NAILERS, GROUNDS, ETC.
  - REPLACE DAMAGED OR DETERIORATED 2X4 WOOD BLOCKING AT ROOF PARAPET. **BASE BID INCLUDES THE REPLACEMENT OF 1,800 LINEAR FEET OF 2X4 WOOD BLOCKING. REFER TO SECTION 012200 UNIT PRICES.**
  - REMOVE ALL ABANDONED ITEMS (VENTS, PIPES, DUCTS, CURBS, ETC.) AS NOTED ON THE ROOF DEMOLITION PLAN.
  - REMOVE ALL DAMAGED OR DETERIORATED METAL ROOF DECK AND PREPARE SUBSTRATE STRUCTURE TO RECEIVE NEW METAL ROOF DECK. **BASE BID INCLUDES THE REPLACEMENT OF 2,800 SF OF METAL DECK - REPLACEMENT DECK SHALL MATCH PROFILE OF EXISTING METAL ROOF DECK. REFER TO SECTION 012200 UNIT PRICES.**
  - TOTAL ROOF AREA CALCULATION DOES NOT INCLUDE VERTICAL SURFACE AREA OF PARAPET WALLS OR CURBS.

- KEYED ROOF DEMOLITION NOTES: LAUNDRY / PRINT SHOP BUILDINGS No. 13**
- EXISTING ROOF DRAIN TO REMAIN WITH 8" Ø DOME STRAINER TO BE REMOVED
  - EXISTING MULTI-COURSED METAL FASCIA - REMOVE TOP COURSE
  - EXISTING PARAPET TO REMAIN - BASE BID INCLUDES THE REPLACEMENT OF 1,800 LF OF 2x4 BLOCKING. REFER TO SECTION 012200 UNIT PRICES.
  - EXISTING 4" Ø CAST IRON VTR TO REMAIN
  - EXISTING 6" Ø CAST IRON VTR TO BE REMOVED
  - EXISTING 6" Ø CAST IRON VTR TO REMAIN
  - EXISTING 6" Ø FLUE VENT TO REMAIN
  - EXISTING 6" Ø CAST IRON VTR TO BE REMOVED
  - EXISTING 6" Ø CAST IRON VTR TO BE REMOVED
  - EXISTING 12" Ø FLUE VENT TO REMAIN
  - EXISTING 14" Ø FLUE VENT TO REMAIN
  - EXISTING 4" Ø GALVANIZED VTR TO REMAIN
  - EXISTING CURB-MOUNTED EXHAUST VENT TO REMAIN
  - EXISTING CURB-MOUNTED EXHAUST VENT TO BE REMOVED
  - FACE OF EXTERIOR MASONRY WALL BELOW OVERHANG TO REMAIN
  - EXISTING WALL-MOUNTED EXHAUST FLUE TO REMAIN
  - EXISTING ROOF EXPANSION JOINT TO BE REMOVED
  - EXISTING 6" Ø VTR TO REMAIN

**LAUNDRY / PRINT SHOP BUILDING No. 13  
EXISTING ROOF CORE SAMPLE SCHEDULE**

**LAUNDRY BUILDING ROOF AREA**

**CORE SAMPLE 13-1a:**  
EPDM OVER BROWN AND BLACK FELT OVER RIGID FOAMBOARD INSULATION OVER LIGHTWEIGHT CONCRETE FILL OVER METAL ROOF DECK

**CORE SAMPLE 13-1b:**  
EPDM OVER BROWN AND BLACK FELT OVER RIGID FOAMBOARD INSULATION OVER LIGHTWEIGHT CONCRETE FILL OVER METAL ROOF DECK

**PRINT SHOP ROOF AREA**

**CORE SAMPLE 13-1c:**  
EPDM OVER BROWN AND BLACK FELT OVER RIGID FOAMBOARD INSULATION OVER METAL ROOF DECK

**EXISTING CONDITIONS**

THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE.

**EXISTING LAUNDRY BUILDING ROOF FEATURE SCHEDULE**

DESCRIPTION	QUANTITY
4" Ø CAST IRON VTR	8
5" Ø CAST IRON VTR	2
6" Ø CAST IRON VTR	6
8" Ø CAST IRON VTR	2
12" Ø CAST IRON VTR	1
16" Ø CAST IRON HOTSTACK	1
4" Ø GALVANIZED VTR	1
CURB-MOUNTED EXHAUST VENT (VARIOUS SIZES)	21
INTERNAL ROOF DRAIN WITH STRAINER	13

**EXISTING PRINT SHOP ROOF FEATURE SCHEDULE**

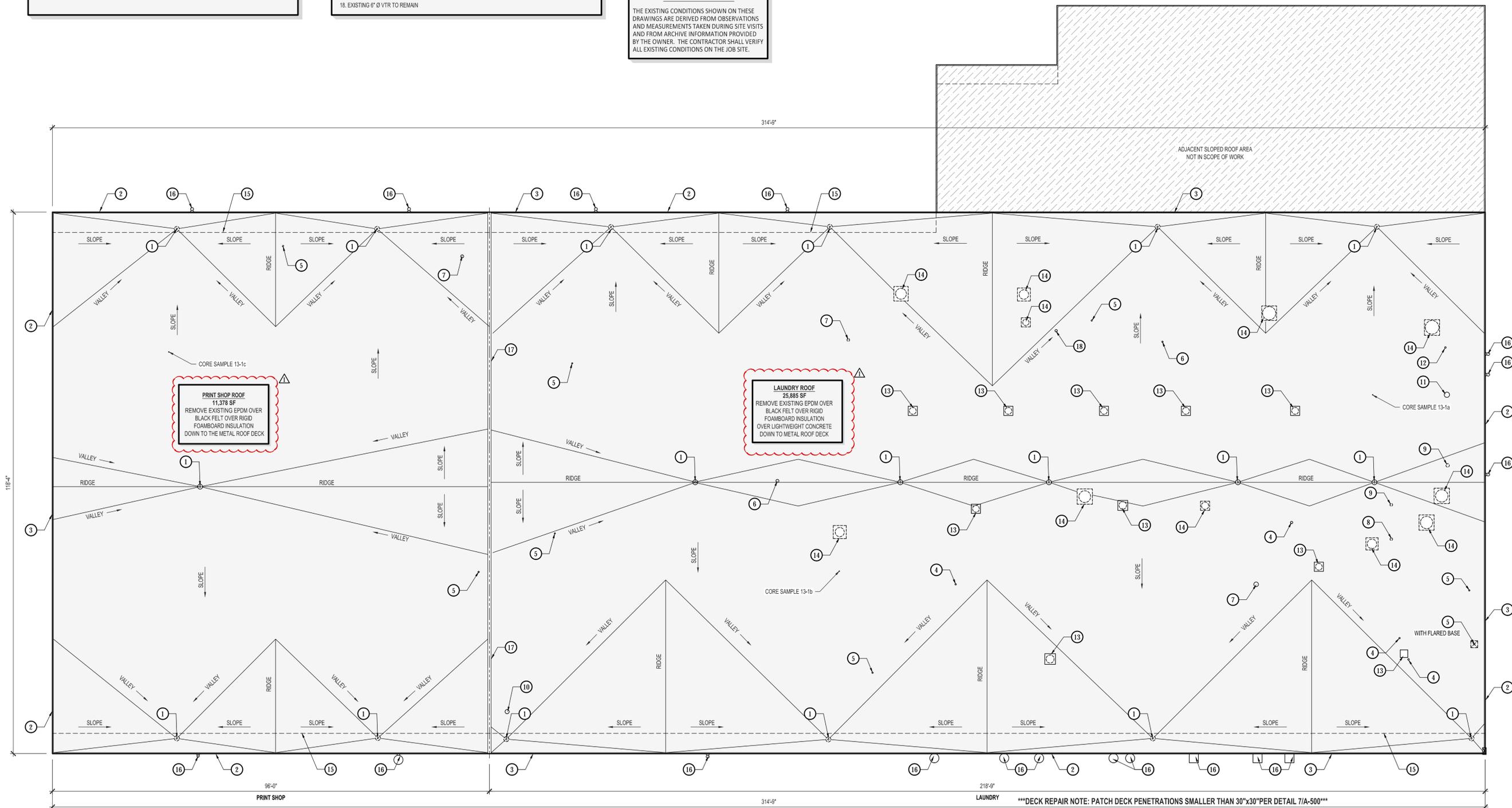
DESCRIPTION	QUANTITY
4" Ø CAST IRON VTR	3
INTERNAL ROOF DRAIN WITH STRAINER	5

**ASBESTOS CONTAINING MATERIALS**

A LIMITED ASBESTOS INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEM OF THE LAUNDRY/PRINT SHOP BUILDING No. 13, AND THE LABORATORY ANALYSIS INDICATES THAT SAMPLES DO NOT CONTAIN ASBESTOS IN REGULATED AMOUNTS IF DISTURBED BY DEMOLITION. ASBESTOS ABATEMENT IS NOT REQUIRED ON THIS BUILDING.

**LEAD CONTAINING MATERIALS**

A LIMITED LEAD INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEM OF THE LAUNDRY/PRINT SHOP BUILDING No. 13, AND THE LABORATORY ANALYSIS INDICATES THAT SAMPLES DO NOT CONTAIN LEAD IN REGULATED AMOUNTS IF DISTURBED BY DEMOLITION. LEAD ABATEMENT IS NOT REQUIRED ON THIS BUILDING.



STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 00827  
**CONNELL ARCHITECTURE, P.C.**  
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OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT, DESIGN  
AND CONSTRUCTION  
MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
LAUNDRY & PRINT  
SHOP BUILDINGS  
MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST,  
MOBERLY, MO 65233

PROJECT No. C1913-02  
SITE No. 7005  
ASSET No. 9327005030, 9327005031

REVISION: **ADDENDUM 2**  
DATE: 6-15-2020  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 5-12-2020

CAD DWG FILE:  
C1913-02-7005-9327005030-9327005031-AD-100  
DRAWN BY: DLV  
CHECKED BY: DLV  
DESIGNED BY: BDC

SHEET TITLE:  
LAUNDRY / PRINT SHOP  
BUILDING No. 13  
ROOF DEMOLITION PLAN

SHEET NUMBER:

**AD-100**



**PRINT SHOP ROOF - DEMOLITION PLAN**  
SCALE: 3/32" = 1'-0" ASSET NUMBER - 9327005031



**LAUNDRY ROOF - DEMOLITION PLAN**  
SCALE: 3/32" = 1'-0" ASSET NUMBER - 9327005030



BRIAN DOUGLAS CONNELL ARCHITECT MO# A-5036

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OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT, DESIGN  
AND CONSTRUCTION  
MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
LAUNDRY & PRINT  
SHOP BUILDINGS  
MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST,  
MOBERLY, MO 65233

PROJECT No. C1913-02  
SITE No. 7005  
ASSET No. 9327005030, 9327005031

REVISION:  $\Delta$  ADDENDUM 2  
DATE: 6-15-2020  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 5-12-2020

CAD DWG FILE:  
C1913-02-7005-9327005030-9327005031-A-100.dwg  
DRAWN BY: DLV  
CHECKED BY: DLV  
DESIGNED BY: BDC

SHEET TITLE:  
LAUNDRY / PRINT SHOP  
BUILDING No. 13  
ROOF REPLACEMENT PLAN

SHEET NUMBER:

**A-100**

**KEYED ROOF REPLACEMENT NOTES: LAUNDRY / PRINT BUILDING No. 13**

1. NEW 8"  $\emptyset$  DOME STRAINER OVER EXISTING ROOF DRAIN
2. EXISTING PARAPET - BASE BID INCLUDES REPLACEMENT OF 1,800 LF OF 2x4 WOOD BLOCKING  $\Delta$
3. EXISTING 4"  $\emptyset$  CAST IRON VTR - EXTEND TO 18" ABOVE ROOF
4. EXISTING 6"  $\emptyset$  FLUE VENT - EXTEND TO 18" ABOVE ROOF
5. EXISTING 14"  $\emptyset$  FLUE VENT VTR TO REMAIN
6. EXISTING 12"  $\emptyset$  FLUE VENT - EXTEND TO 18" ABOVE ROOF
7. EXISTING 4"  $\emptyset$  GALVANIZED VTR - EXTEND TO 18" ABOVE ROOF
8. EXISTING WALL-MOUNTED LIGHT FIXTURE TO REMAIN
9. FACE OF EXTERIOR BRICK WALL BELOW OVERHANG
10. NEW BUILDING IDENTIFICATION SIGNAGE - REFER TO SIGNAGE NOTE ON SHEET A-100
11. EXISTING CURB-MOUNTED EXHAUST VENT - INSTALL NEW CURB FLASHING
12. NEW ROOF EXPANSION JOINT
13. EXISTING MULTI-COURSE METAL FASCIA (BOTTOM TWO COURSES TO REMAIN)  $\Delta$
14. EXISTING EXTERIOR VENT TO REMAIN
15. EXISTING 6"  $\emptyset$  VTR TO REMAIN - EXTEND TO 18" ABOVE ROOF
16. INSTALL NEW SNAP-ON FASCIA SYSTEM @ ROOF PARAPET  $\Delta$
17. INSTALL NEW INTERIOR ROOF DRAIN - MATCH ADJACENT ROOF DRAIN & 4" PVC PIPING DISCHARGE A MINIMUM OF 6' AWAY FROM FACE OF BUILDING  $\Delta$

**GENERAL ROOF REPLACEMENT NOTES: LAUNDRY / PRINT BUILDING No. 13**

1. MINIMUM FLAT ROOF SLOPE: 1/4" PER FOOT.
2. MINIMUM AVERAGE R-VALUE R-30 (FLAT ROOF AREA)
3. BASE BID - REPLACE 2,800 SF OF METAL DECK - REPLACEMENT DECK MUST MATCH EXISTING PROFILE. REFER TO SECTION 012200 UNIT PRICES.
4. BASE BID - REPLACE 1,800 LF OF 2x4 WOOD PARAPET BLOCKING. REFER TO SECTION 012200 UNIT PRICES.  $\Delta$

\*\*\*DECK REPAIR NOTE: PATCH DECK PENETRATIONS SMALLER THAN 30x30 PER DETAIL 7/A-500\*\*\*

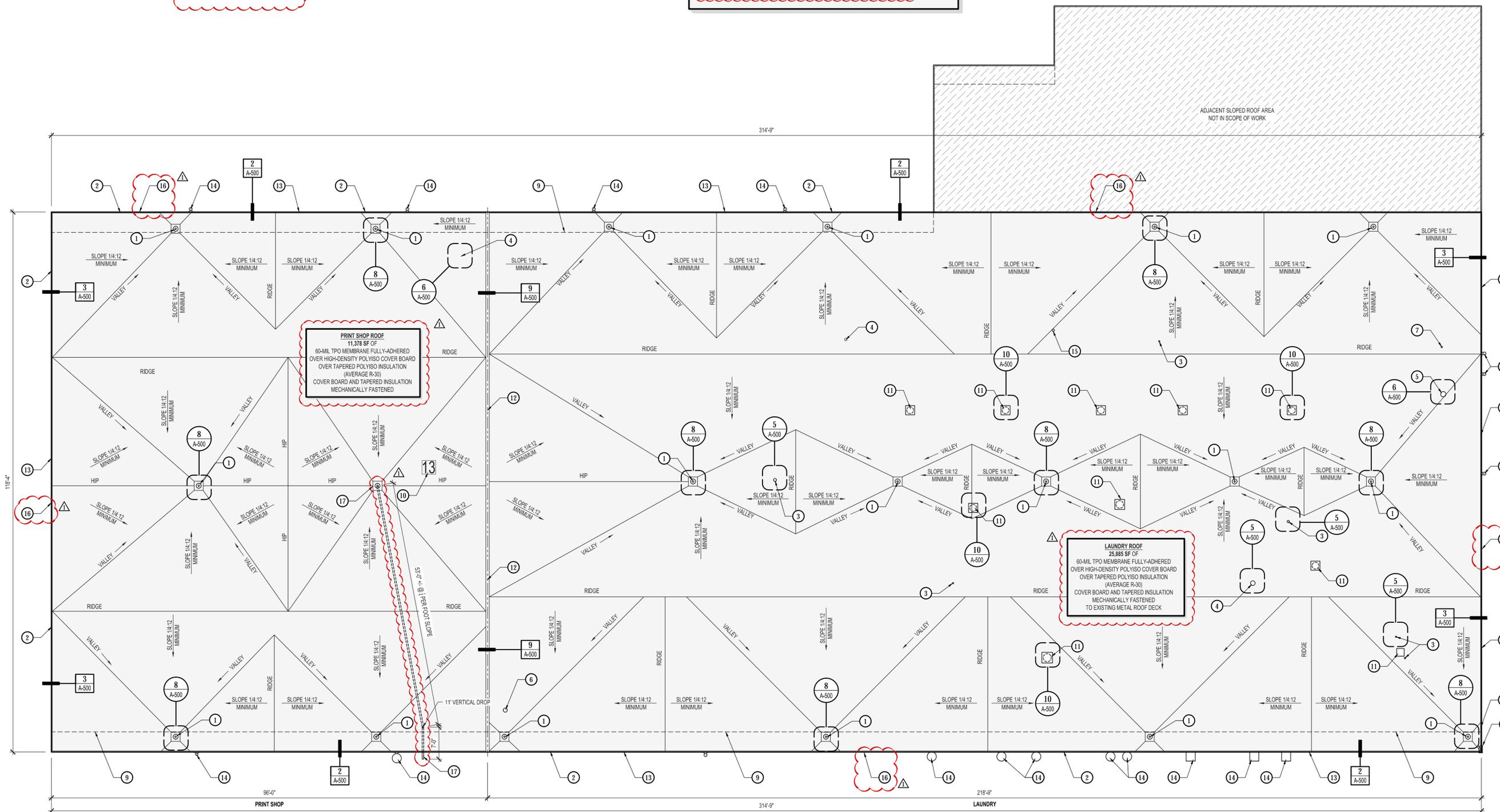
**ROOF SIGNAGE NOTE:**

THE BUILDING IDENTIFICATION SIGNAGE SHALL BE 36"x36" SQUARE METAL SIGN.  
1. FONT SIZE SHALL FIT THE 36"x36" SIGN.  
2. LETTERING AND BACKGROUND SHALL BE REFLECTIVE.  
3. THE BUILDING NUMBER SHALL BE BLACK WITH A REFLECTIVE WHITE BACKGROUND.  
4. METAL: .080 THICKNESS FLAT ALUMINUM WITH 3M #9300, HIP SILVER/WHITE PRISMATIC ENGINEER-GRADE REFLECTIVE SHEETING APPLIED. BUILDING IDENTIFICATION SIGNAGE SHALL BE SECURED TO MANOR THAT MEETS THE ROOF MEMBRANE MANUFACTURER'S REQUIREMENTS AND WARRANTY.

**EXISTING CONDITIONS**

THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE.

ROOF CONTOUR MAP HAS ADJUSTED  $\Delta$



**1**  
A-100  
**PRINT SHOP ROOF - REPLACEMENT PLAN**  
SCALE: 3/32" = 1'-0"  
ASSET NUMBER - 9327005031

**2**  
A-100  
**LAUNDRY ROOF - REPLACEMENT PLAN**  
SCALE: 3/32" = 1'-0"  
ASSET NUMBER - 9327005030



BRIAN DOUGLAS CONNELL ARCHITECT MO# A-5036

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OFFICE OF  
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MANAGEMENT, DESIGN  
AND CONSTRUCTION

MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
LAUNDRY & PRINT  
SHOP BUILDINGS  
MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST,  
MOBERLY, MO 65233

PROJECT No. C1913-02  
SITE No. 7005  
ASSET No. 9327005030, 9327005031

REVISION: **ADDENDUM 2**  
DATE: **6-15-2020**  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: **5-12-2020**

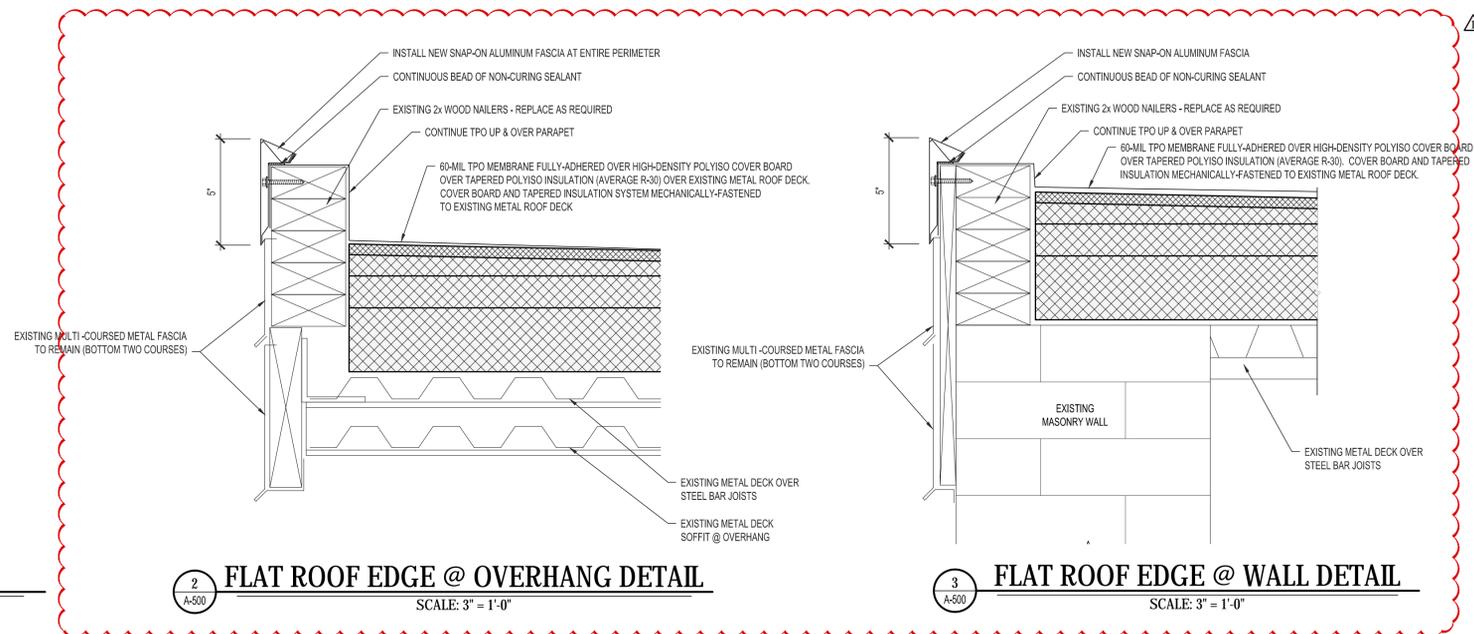
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C1913-02-7005-A-500  
DRAWN BY: DLV  
CHECKED BY: DLV  
DESIGNED BY: BDC

SHEET TITLE:

FLAT ROOF  
TPO DETAILS

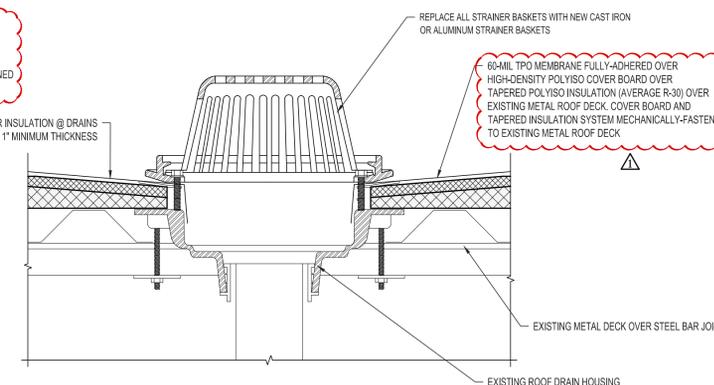
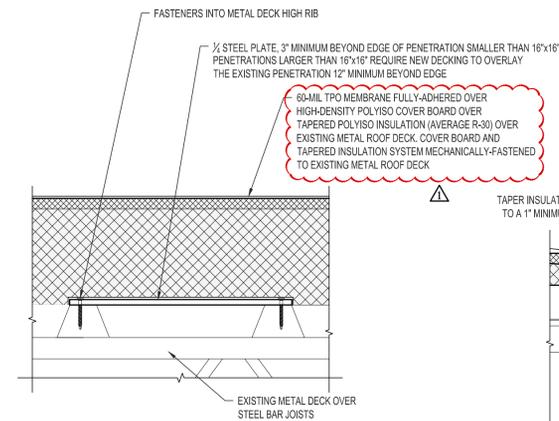
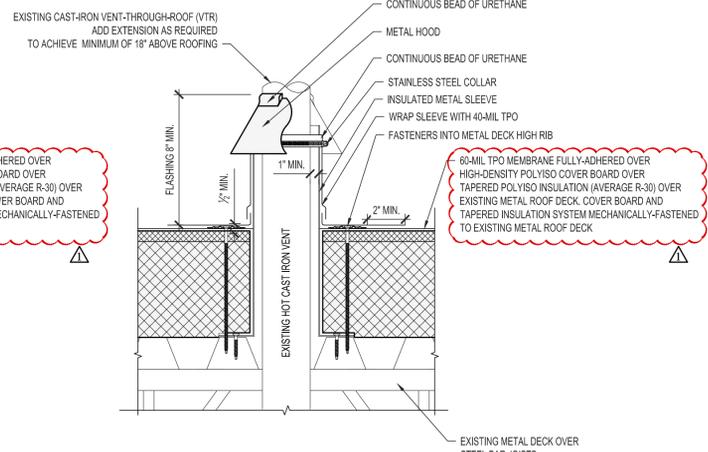
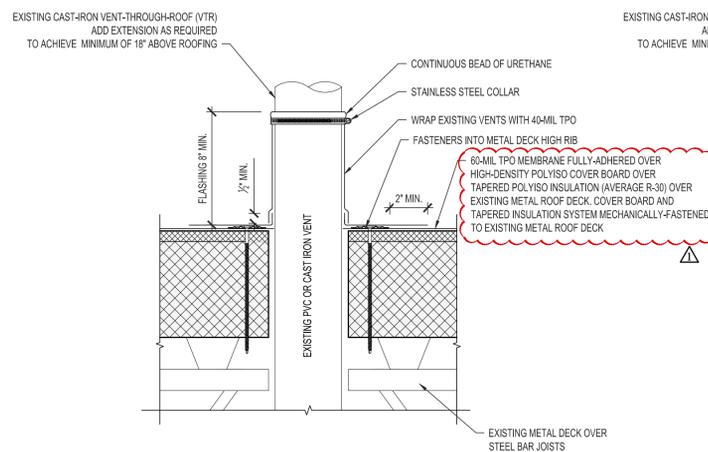
SHEET NUMBER:

**A-500**



**1 DETAIL OMITTED**  
SCALE: 3" = 1'-0"

**4 DETAIL OMITTED**  
SCALE: 3" = 1'-0"

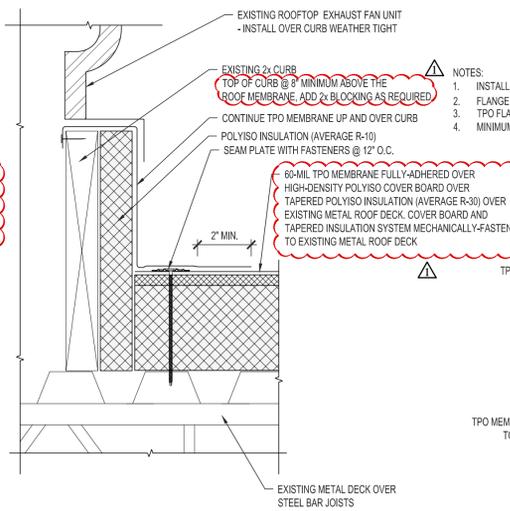
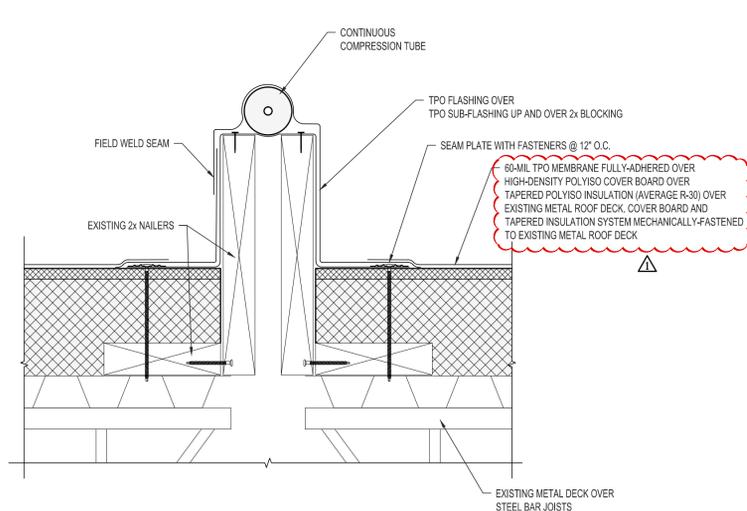


**5 PLUMBING VENT FLASHING DETAIL**  
SCALE: 3" = 1'-0"

**6 HOT STACK FLASHING DETAIL**  
SCALE: 3" = 1'-0"

**7 ROOF DECK REPAIR DETAIL**  
SCALE: 3" = 1'-0"

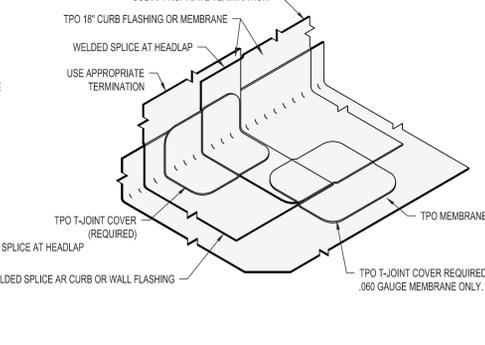
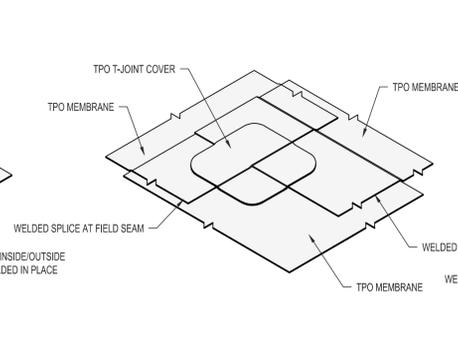
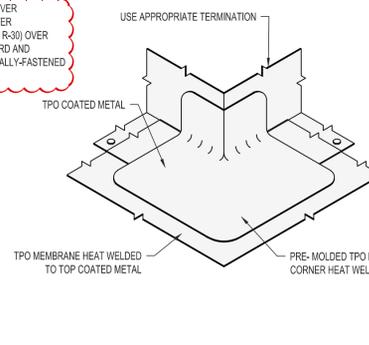
**8 FLAT ROOF DRAIN DETAIL**  
SCALE: 3" = 1'-0"



- NOTES:
1. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
  2. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" FROM EDGE OF WOOD
  3. TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED TPO INSIDE/OUTSIDE CORNER
  4. MINIMUM SPICE OVERLAP PER MANUFACTURER RECOMMENDATIONS

- NOTES:
1. T-JOINT COVER REQUIRED FOR A .060 GAUGE MEMBRANE ONLY.
  2. TPO FLASHING (UNSUPPORTED) (4"x4" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER.
  3. MINIMUM SPICE OVERLAP PER MANUFACTURER RECOMMENDATIONS

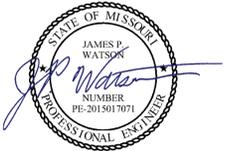
- NOTES:
1. TPO FLASHING (UNSUPPORTED) (4"x4" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER.
  2. MINIMUM SPICE OVERLAP PER MANUFACTURER RECOMMENDATIONS



**9 FLAT ROOF EXPANSION JOINT DETAIL**  
SCALE: 3" = 1'-0"

**10 FLAT ROOF TO CURB DETAIL**  
SCALE: 3" = 1'-0"

**11 TYPICAL FLAT ROOF LAPPING DETAILS**  
SCALE: NOT TO SCALE



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ENGINEERING**

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**OFFICE OF  
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**REPLACE ROOFS,  
LAUNDRY & PRINT  
SHOP BUILDINGS  
MOBERLY CORRECTIONAL  
CENTER**

5201 SOUTH MORLEY ST,  
MOBERLY, MO 65233

**PROJECT NO. C1913-02  
SITE NO. 7005  
ASSET NO. 9327005030, 9327005031**

REVISION: ADDENDUM 1  
DATE: 06 - 15 - 2020  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 05 - 12 - 2020

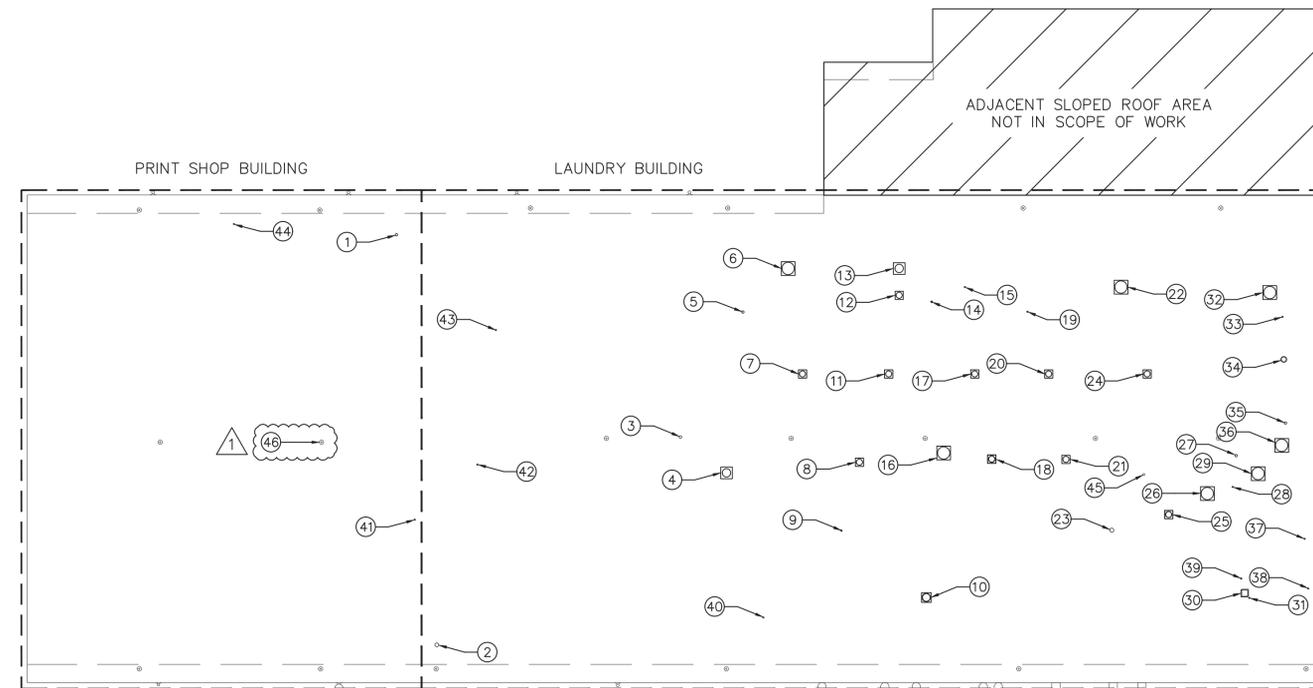
CAD DWG FILE:  
C1913-02-7005-9327005030-9327005031-M-100.dwg  
DRAWN BY: ACW  
CHECKED BY: JPW  
DESIGNED BY: JAP

**SHEET TITLE:**

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

**SHEET NUMBER:**

**M-100**



PRINT SHOP ROOF - MEP PLAN

SCALE: 1/32" = 1'-0" ASSET NUMBER - 932705031

LAUNDRY ROOF - MEP PLAN

SCALE: 1/32" = 1'-0" ASSET NUMBER - 932705030

**GENERAL NOTES**

1. REFERENCED CODES IN EFFECT: 2018 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL PLUMBING CODE, 2018 INTERNATIONAL FUEL GAS CODE, 2018 INTERNATIONAL FIRE CODE, & 2017 NATIONAL ELECTRIC CODE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EQUIPMENT/PENETRATION LOCATIONS AND DETAILS/REQUIREMENTS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION/DETAILS REGARDING ROOF DRAINS.
4. FIELD VERIFY EXACT SIZING, LOCATION, AND CONDITION OF MATERIAL AT EACH ROOF PENETRATION PRIOR TO PERFORMING WORK.
5. FIELD VERIFY THAT EACH ROOF PENETRATION NOTED TO BE REMOVED/UNINSTALLED IS NOT OR WILL NOT BE USED BY UTILITIES BELOW PRIOR TO PERFORMING WORK.
- 5.1. EXTEND/MODIFY ANY OF THE FOLLOWING EXISTING UTILITY TERMINATIONS (AS NECESSARY):
  - 5.1.1. ALL INTAKE AND EXHAUST SOURCES MUST BE SEPARATED BY A MINIMUM OF 10' AND SHALL TERMINATE AT LEAST 18" ABOVE ROOF UNLESS NOTED OTHERWISE.
  - 5.1.2. ALL GAS VENTS SHALL TERMINATE AT LEAST 24" ABOVE ROOF WITH A UL-LISTED CAP OR ROOF ASSEMBLY.
  - 5.1.3. ALL TYPE-II EXHAUST (HEAT/STEAM) TERMINATIONS SHALL TERMINATE AT LEAST 30" ABOVE ROOF.
  - 5.1.4. ALL PLUMBING VENT STACKS SHALL TERMINATE AT LEAST 18" ABOVE ROOF. CAST IRON VENTS SHALL BE EXTENDED VIA WELDED EXTENSIONS.

**KEY NOTES**

- |   |   |   |
|---|---|---|
| <ol style="list-style-type: none"> <li>① → 6" FLUE VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>② → 12" INTAKE TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>③ → 5" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>④ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>⑤ → 6" FLUE VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>⑥ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>⑦ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>⑧ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>⑨ → 4" CAST IRON VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>⑩ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>⑪ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>⑫ → EXISTING DOWNBLAST EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>⑬ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>⑭ → 6" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>⑮ → 4" SEWER VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>⑯ → EXISTING DOWNBLAST EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> </ol> | <ol style="list-style-type: none"> <li>⑰ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>⑱ → EXHAUST VENT TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>⑲ → 5" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>⑳ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>㉑ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>㉒ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>㉓ → 6" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>㉔ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>㉕ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> <li>㉖ → BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>㉗ → 8" CAST IRON VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉘ → 6" CAST IRON VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉙ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>㉚ → EXISTING DOWNBLAST EXHAUST FAN TO REMAIN. DISCONNECT POWER AND UNINSTALL, REINSTALL ON NEW CURB AND RECONNECT POWER (MODIFY/LENGTHEN EXISTING CIRCUIT AS NECESSARY). SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</li> </ol> | <ol style="list-style-type: none"> <li>⑳ → 4" CAST IRON STEAM VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>㉑ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>㉒ → 4" (~7' TALL) VENT FLUE TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>㉓ → 14" CAST IRON VENT FLUE TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>㉔ → 8" CAST IRON VENT WITH HOOD TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉕ → EXISTING BELT-DRIVEN EXHAUST FAN TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS. DEMO EXISTING CONDUIT/CONDUCTORS BACK TO NEAREST J-BOX.</li> <li>㉖ → 4" CAST IRON VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉗ → 16"x 16" TO 4" CAST IRON VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉘ → 4" PLUMBING VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> <li>㉙ → 4" CAST IRON PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉚ → 4" CAST IRON PLUMBING PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉛ → 4" CAST IRON PLUMBING PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉜ → 4" CAST IRON PLUMBING PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</li> <li>㉝ → 4" CAST IRON VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</li> </ol> |
|---|---|---|

④⑥ → NEW INTERIOR ROOF DRAIN AND PIPING TO MATCH ADJACENT. ⚠