

# REPLACE ROOFS - LAUNDRY & PRINT SHOP MOBERLY CORRECTIONAL CENTER MOBERLY, MISSOURI

---



**CONNELL ARCHITECTURE, P.C.**

2311 East Walnut Suite B  
Columbia, Missouri 65201  
573-875-2455  
brianconnell@connellarchitecture.com

OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR  
DEPARTMENT OF CORRECTIONS

DESIGNER: CONNELL ARCHITECTURE, P.C.  
2311 EAST WALNUT STREET SUITE B  
COLUMBIA, MISSOURI 65201

PROJECT NUMBER: C1913-02

PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

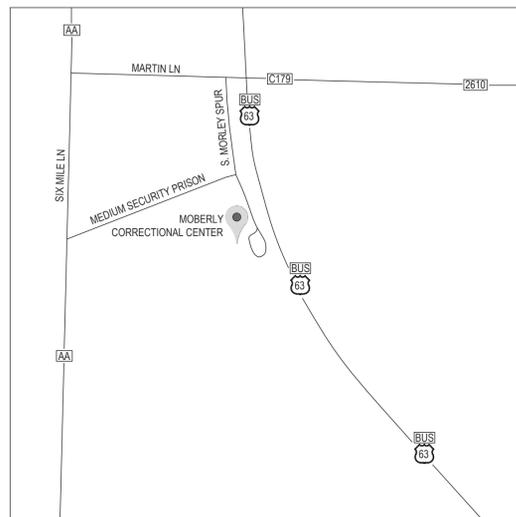
SITE NUMBER: 7005  
ASSET NUMBERS: 9327005030, 9327005031



BRIAN DOUGLAS CONNELL ARCHITECT MO# A-5036



RANDOLPH COUNTY  
MISSOURI



MARTIN LN  
SIX MILE LN  
S. MORLEY SPUR  
MEDIUM SECURITY PRISON  
MOBERLY  
CORRECTIONAL CENTER



1  
G-001

MISSOURI STATE MAP

NOT TO SCALE



2  
G-001

VICINITY MAP - MOBERLY CORRECTIONAL CENTER

NOT TO SCALE

GENERAL NOTES:

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR TO REVIEW THE DRAWINGS TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS FOR APPLICABLE ITEMS OF WORK SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS.

- **DRAWINGS** - THESE DRAWINGS SHALL NOT BE SCALED. REFER TO DIMENSIONS INDICATED, ACTUAL SIZES OF CONSTRUCTION ITEMS, OR OTHER METHODS OF LOCATING CONSTRUCTION. WHERE NO DIMENSION OR METHOD OF DETERMINING A LOCATION IS GIVEN, VERIFY CORRECT LOCATION WITH CONNELL ARCHITECTURE P.C. PRIOR TO INSTALLATION.
- **DIMENSIONS** - DIMENSIONS ON PLANS ARE FROM FACE OF CONCRETE, MASONRY, OR FRAMING UNLESS OTHERWISE NOTED. DIMENSIONS INDICATED AS "CLEAR" SHALL BE A MINIMUM DIMENSION MEASURED FROM FACE OF FINISH MATERIALS.
- **COORDINATION** - GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL TRADES TO ALLOW FOR TIMELY INCLUSION IN THE WORK SO AS NOT TO DELAY THE WORK OR THE WORK OF ANY SUBCONTRACTOR.
- **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, AND NOTIFY CONNELL ARCHITECTURE P.C. OF DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF THE WORK.
- **PRECAUTIONS** - IF UNFORESEEN CONDITIONS ARE DISCOVERED WHICH COULD RESULT IN DAMAGE TO THE STRUCTURE OR INJURY TO ITS OCCUPANTS, REPORT ANY SUCH CONDITION IMMEDIATELY TO THE OWNER AND CONNELL ARCHITECTURE P.C. TAKE PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE AND PROTECT THE OCCUPANTS.
- **HAZARDOUS MATERIALS** - CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE OWNER AND CONNELL ARCHITECTURE, P.C.
- **SITE USAGE** - USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE OWNER AND CONSTRUCTION ADMINISTRATOR. THE CONTRACTOR'S OPERATIONS SHALL NOT OBSTRUCT OR ADVERSELY AFFECT ANY PUBLIC OR ADJACENT OWNER AREAS.
- **EXIT ACCESS** - MAINTAIN FREE, SAFE, AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION AND EXISTING OCCUPIED BUILDINGS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.

CONTRACTOR SHALL FURNISH & INSTALL ALL ROOFING, FLASHING & INSULATION MATERIALS REQUIRED FOR A COMPLETE WATERPROOF INSTALLATION, WHETHER OR NOT ALL SUCH MATERIALS & DETAILS OF INSTALLATION HAVE BEEN SPECIFICALLY MENTIONED OR SHOWN ON THE CONSTRUCTION DRAWINGS. ALL INSTALLATION AND DETAILS TO CONFORM TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS.

ANY AND ALL MATERIALS NOTED "TO REMAIN" ARE EXISTING MATERIALS TO REMAIN UNLESS OTHERWISE NOTED. ANY MATERIAL NOT DESIGNATED "TO REMAIN" SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER, AND REPLACED WITH NEW MATERIALS UNLESS OTHERWISE NOTED.

ROOF REPLACEMENT NOTES:

- **ROOF SLOPE:** THE MINIMUM SLOPE ON ANY ROOF PLANE (INCLUDING SADDLES AND CRICKETS) SHALL BE 1/4" PER FOOT.
- **THERMAL PERFORMANCE:** THE MINIMUM AVERAGE R-VALUE FOR ANY FLAT ROOF AREA SHALL BE R-30
- **ROOF WARRANTY:** THE NEW ROOFING SYSTEMS SHALL BE DESIGNED AND INSTALLED IN A MANNER SUCH THAT THE OWNER MAY ELECT TO PURCHASE A 20-YEAR ROOFING SYSTEM WARRANTY AS AN ALTERNATIVE TO THE 15-YEAR WARRANTY WITHOUT CHANGE TO THE DESIGN CRITERIA.

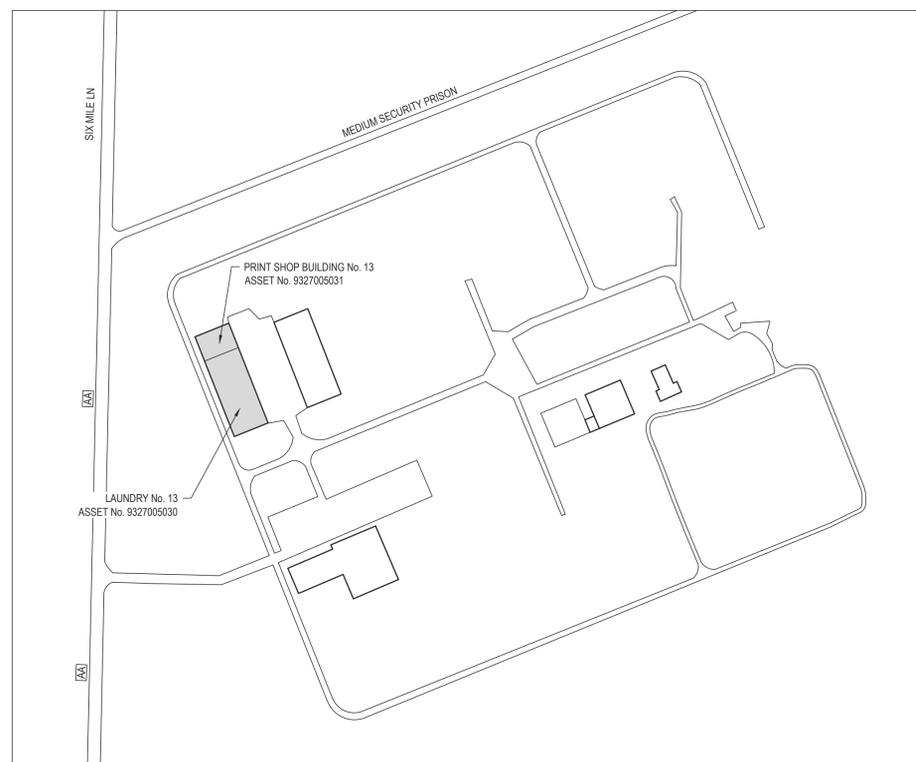
DRAWING SHEET INDEX:

ARCHITECTURAL DRAWINGS

- G-000 COVER PAGE
- G-001 LOCATION MAPS & DRAWING INDEX
- AD-100 LAUNDRY / PRINT SHOP BUILDING No. 13 - ROOF DEMOLITION PLAN
- A-100 LAUNDRY / PRINT SHOP BUILDING No. 13 - ROOF REPLACEMENT PLAN
- A-500 FLAT ROOF TPO DETAILS

MECHANICAL - ELECTRICAL - PLUMBING DRAWINGS

- M-100 LAUNDRY / PRINT SHOP BUILDING No. 13 - MEP ROOF PLAN



PRINT SHOP BUILDING No. 13  
ASSET No. 9327005031

LAUNDRY No. 13  
ASSET No. 9327005030

**ASBESTOS CONTAINING MATERIALS**  
A LIMITED ASBESTOS INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEMS OF THE TWO BUILDINGS INCLUDED IN THE SCOPE OF THIS PROJECT.  
  
ASBESTOS CONTAINING MATERIALS WERE NOT DETECTED ON THE LAUNDRY / PRINT SHOP BUILDING No. 13.  
ASBESTOS ABATEMENT WILL NOT BE REQUIRED ON THIS BUILDING.

**LEAD CONTAINING MATERIALS**  
A LIMITED LEAD INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEMS OF THE TWO BUILDINGS INCLUDED IN THE SCOPE OF THIS PROJECT.  
  
LEAD CONTAINING MATERIALS WERE NOT DETECTED ON THE LAUNDRY / PRINT SHOP BUILDING No. 13.  
LEAD ABATEMENT WILL NOT BE REQUIRED ON THESE BUILDINGS.



3  
G-001

SITE MAP - MOBERLY CORRECTIONAL CENTER

NOT TO SCALE

ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 000827  
**CONNELL ARCHITECTURE, P.C.**  
Suite B  
2311 East Walnut Street  
Columbia, Missouri  
65201  
573-875-2455 Cell: 573-268-6166  
brianconnell@connellarchitecture.com



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:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:

ISSUE DATE: 5-12-2020

CAD DWG FILE:  
C1913-02-7005-G-A1.dwg  
DRAWN BY: DLV  
CHECKED BY: DLV  
DESIGNED BY: BDC

SHEET TITLE:

LOCATION MAPS &  
DRAWING INDEX

SHEET NUMBER:

G-001

**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 MEMBRANE, MEMBRANE FLASHING, BOOTS AND TRIM.
- REMOVE ALL EXISTING CANTS, NAILERS, GROUNDS, ETC. REPAIR PARAPET NAILERS AS REQUIRED.
- 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 - REPLACE APPROXIMATELY 2,800 SF OF METAL DECK - REPLACEMENT DECK MUST MATCH EXISTING PROFILE.**
- TOTAL ROOF AREA CALCULATION DOES NOT INCLUDE VERTICAL SURFACE AREA OF PARAPET WALLS OR END GABLES.

**KEYED ROOF DEMOLITION NOTES: LAUNDRY / PRINT SHOP BUILDINGS No. 13**

- EXISTING ROOF DRAIN WITH 8" Ø DOME STRAINER TO BE REMOVED
- EXISTING MULTILAYERED METAL FASCIA IS TO REMAIN
- EXISTING PARAPET TO REMAIN
- EXISTING 4" Ø CAST IRON VTR TO REMAIN
- EXISTING CAPPED 4" 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 8" 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
- EXISTING FACE OF EXTERIOR WALL BELOW OVERHANG TO REMAIN
- EXISTING FACE MOUNTED EXHAUST 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 FLAT ROOF AREA**

**CORE SAMPLE 13-1a:**  
EPDM OVER BROWN AND BLACK FELT OVER INSULATION OVER ROOF DECK

**CORE SAMPLE 13-1b:**  
EPDM OVER BROWN AND BLACK FELT OVER INSULATION OVER ROOF DECK

**PRINT SHOP FLAT ROOF AREA**

**CORE SAMPLE 13-1c:**  
EPDM OVER BROWN AND BLACK FELT OVER INSULATION OVER 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

**EXISTING ROOF ASSEMBLY: LAUNDRY / PRINT SHOP BUILDING No. 13**

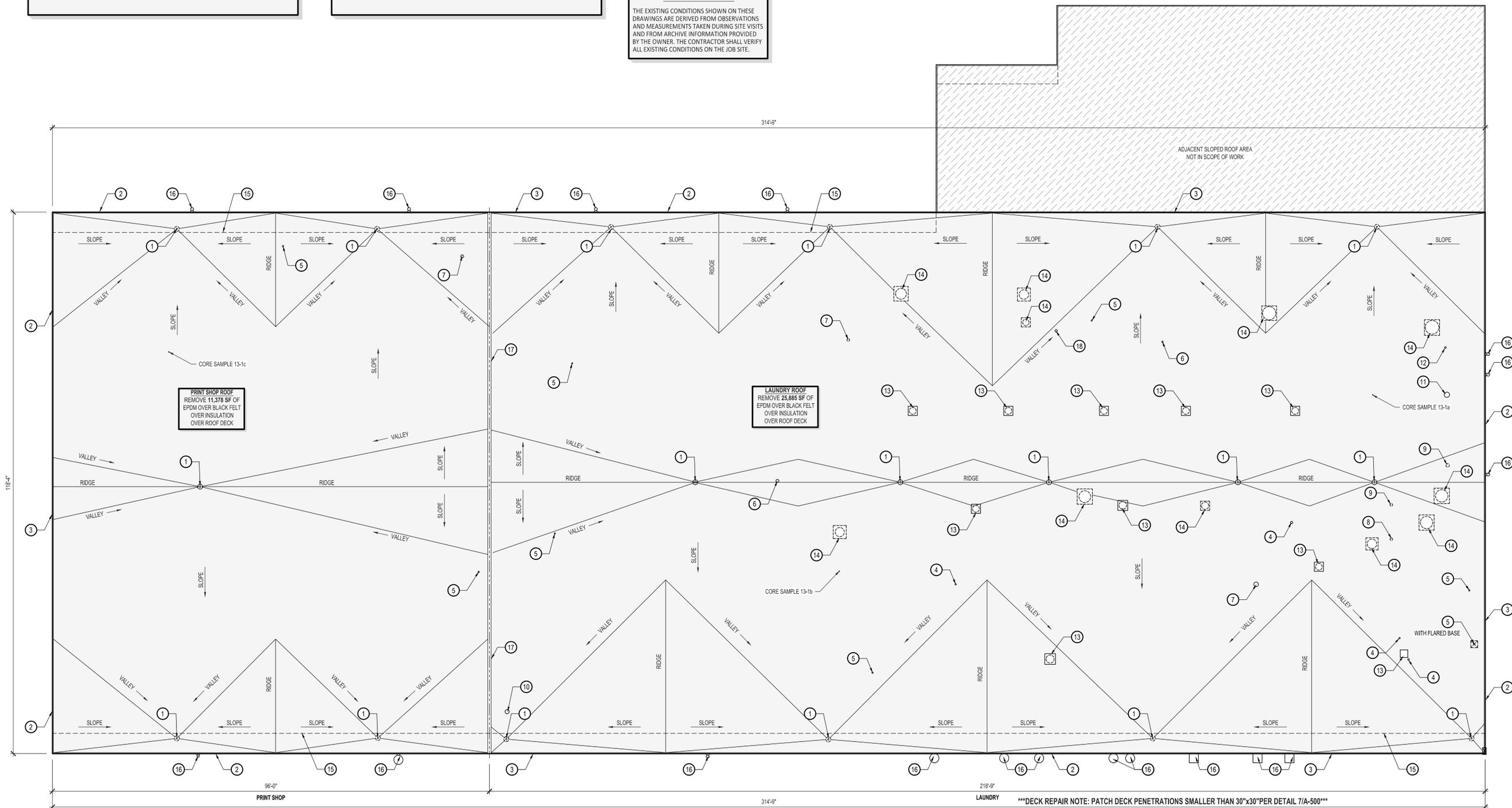
- FLAT ROOF AREA: EPDM OVER BROWN AND BLACK FELT OVER INSULATION OVER ROOF DECK

**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.**  
2311 East Walnut Street  
Columbia, Missouri  
Suite B 65201  
573-875-2455 Cell: 573-268-6166  
brianconnell@connellarchitecture.com

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:  
DATE:  
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**

\*\*\*DECK REPAIR NOTE: PATCH DECK PENETRATIONS SMALLER THAN 30"x30" PER DETAIL 7/A-500\*\*\*  
\*\*\*BASE BID - REPLACE APPROXIMATELY 2,800 SF OF METAL DECK - REPLACEMENT DECK MUST MATCH EXISTING PROFILE\*\*\*



BRIAN DOUGLAS CONNELL ARCHITECT MO# A-5036

ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 00827  
**CONNELL ARCHITECTURE, P.C.**  
2311 East Walnut Street  
Columbia, Missouri  
Suite B 65201  
573-875-2455 Cell: 573-268-6166  
brianconnell@connellarchitecture.com



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:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 5-12-2020

CAD DWG FILE:  
C:\1913-02-7005-9327005030-9327005031-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" Ø DOME STRAINER OVER EXISTING ROOF DRAIN
2. EXISTING PARAPET - REPLACE 2x4 FRAMING AS REQUIRED
3. EXISTING 4" Ø CAST IRON VTR - EXTEND TO 18" ABOVE ROOF
4. EXISTING 6" Ø FLUE VENT - EXTEND TO 18" ABOVE ROOF
5. EXISTING 14" Ø FLUE VENT VTR TO REMAIN
6. EXISTING 12" Ø FLUE VENT - EXTEND TO 18" ABOVE ROOF
7. EXISTING 4" Ø GALVANIZED VTR - EXTEND TO 18" ABOVE ROOF
8. EXISTING MOUNTED LIGHT TO REMAIN
9. EXISTING FACE OF BRICK WALL BELOW OVERHANG
10. NEW ROOF SIGNAGE - REFER TO SIGNAGE NOTE ON A-100
11. EXISTING CURB MOUNTED EXHAUST VENT - INSTALL NEW CURB FLASHING
12. NEW ROOF EXPANSION JOINT
13. EXISTING MULTILAYERED METAL FASCIA IS TO REMAIN
14. EXISTING EXTERIOR VENT TO REMAIN
15. EXISTING 6" Ø VTR TO REMAIN - EXTEND TO 18" ABOVE ROOF

**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 APPROXIMATELY 2,800 SF OF METAL DECK - REPLACEMENT DECK MUST MATCH EXISTING PROFILE

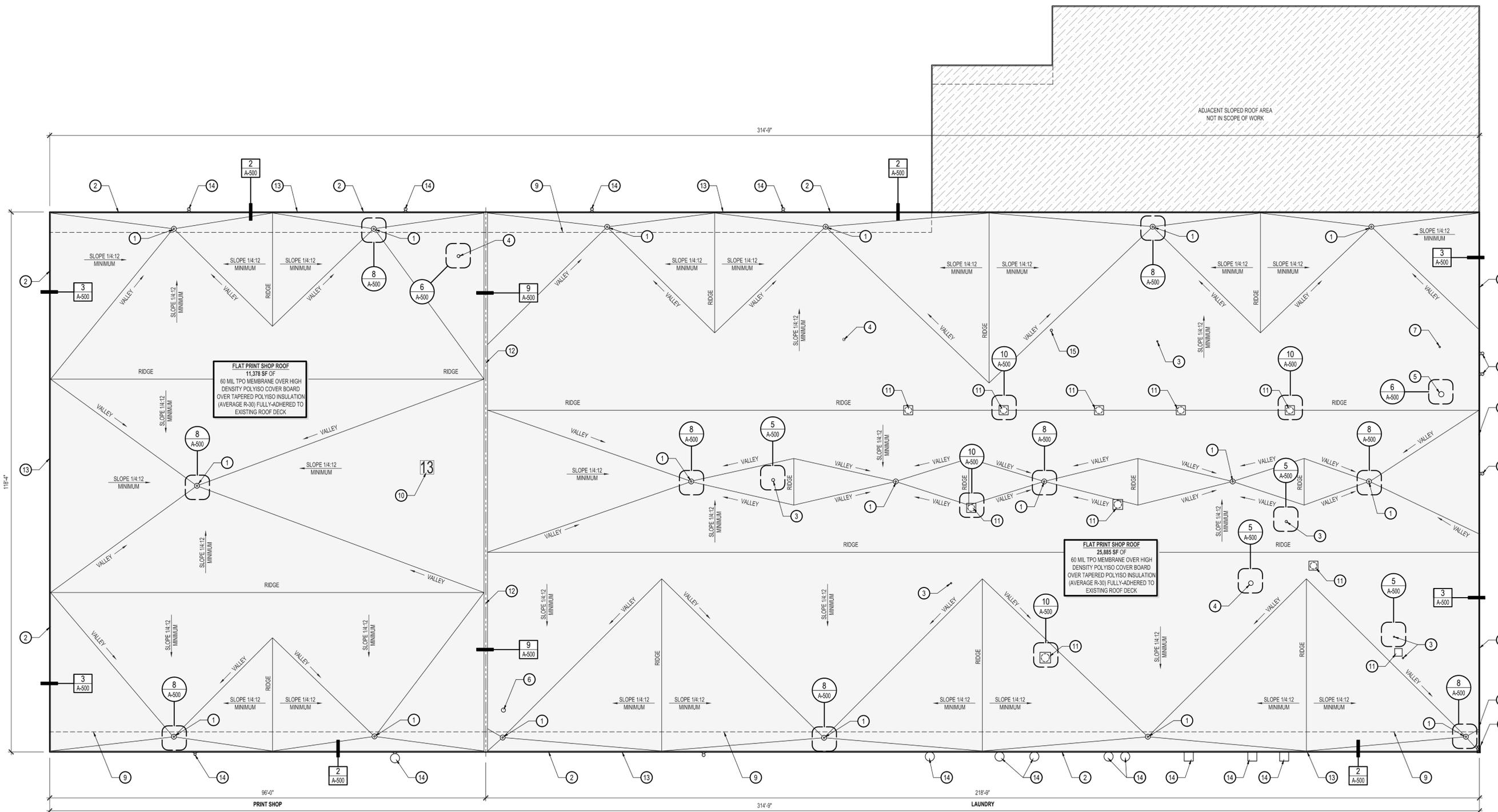
\*\*\*DECK REPAIR NOTE: PATCH DECK PENETRATIONS SMALLER THAN 30x30 PER DETAIL 7/A-500\*\*\*

**ROOF SIGNAGE NOTE:**

- THE BUILDING SIGNAGE SHALL BE 36"x36" SQUARE.
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 THICK FLAT ALUMINUM WITH 3M #8930 HP SILVER/WHITE PRISMATIC ENGINEER GRADE REFLECTIVE SHEETING APPLIED. SIGNAGE SHALL BE SECURED TO ROOF IN MANNER THAT MEETS THE ROOF MEMBRANE MANUFACTURERS 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.



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

ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 000827  
**CONNELL ARCHITECTURE, P.C.**  
2311 East Walnut Street  
Suite B  
Columbia, Missouri 65201  
573-875-2455 Cell: 573-268-6166  
brianconnell@connellarchitecture.com



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:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 5-12-2020

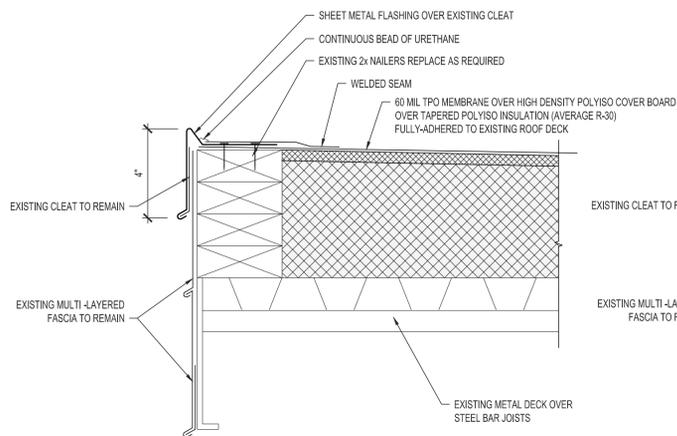
CAD DWG FILE:  
C1913-02-7005-A-500  
DRAWN BY: DLV  
CHECKED BY: DLV  
DESIGNED BY: BDC

SHEET TITLE:  
FLAT ROOF  
TPO DETAILS

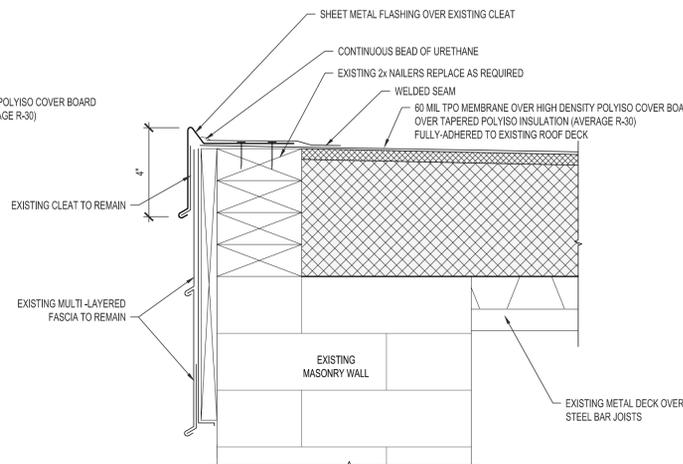
SHEET NUMBER:

A-500

5 OF 6



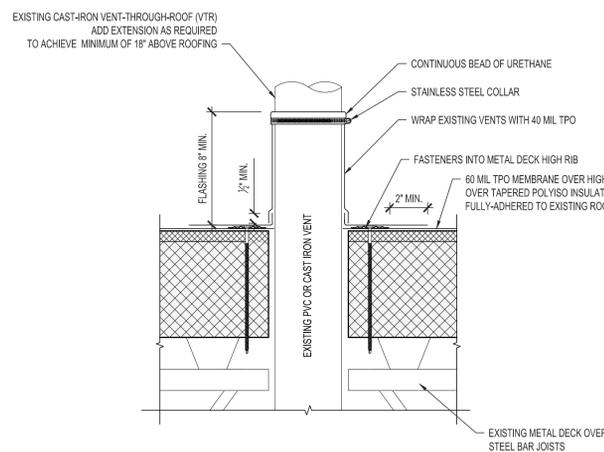
2 FLAT ROOF EDGE @ OVERHANG DETAIL  
SCALE: 3" = 1'-0"



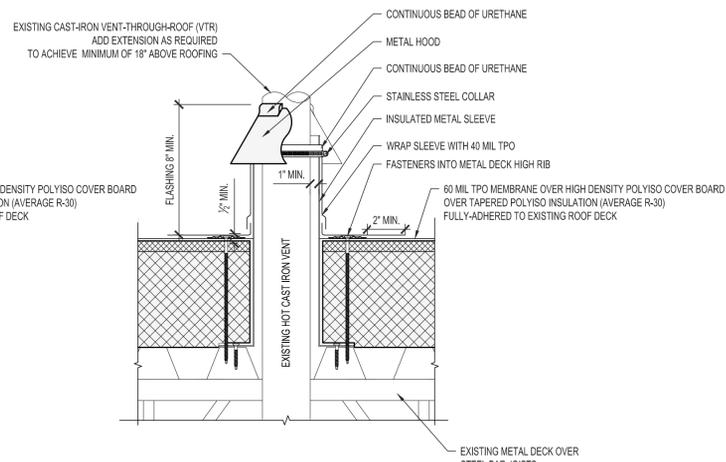
3 FLAT ROOF EDGE @ WALL DETAIL  
SCALE: 3" = 1'-0"

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

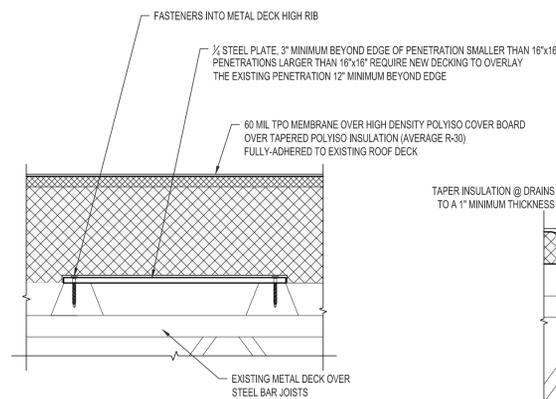
4 DETAIL OMITTED  
SCALE: 3" = 1'-0"



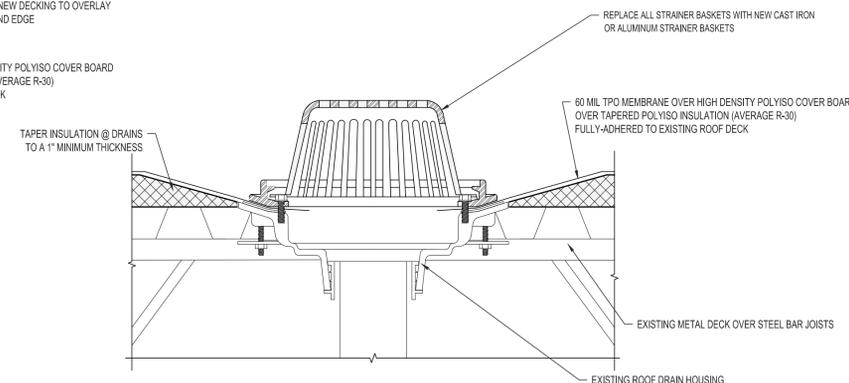
5 PLUMBING VENT FLASHING DETAIL  
SCALE: 3" = 1'-0"



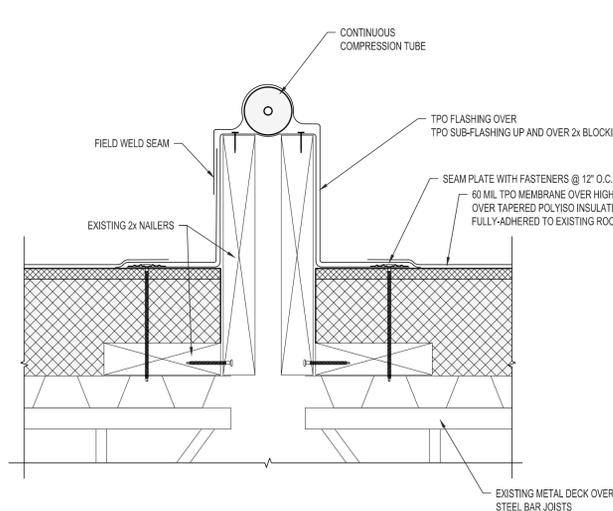
6 HOT STACK FLASHING DETAIL  
SCALE: 3" = 1'-0"



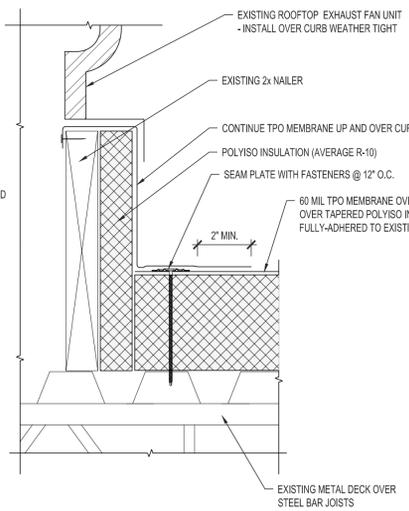
7 ROOF DECK REPAIR DETAIL  
SCALE: 3" = 1'-0"



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

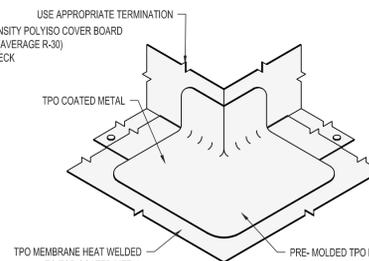


9 FLAT ROOF EXPANSION JOINT DETAIL  
SCALE: 3" = 1'-0"

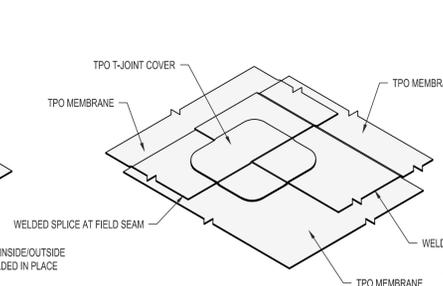


10 FLAT ROOF TO CURB DETAIL  
SCALE: 3" = 1'-0"

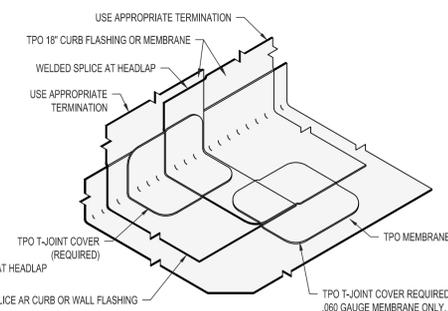
- NOTES:
1. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
  2. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" FROM EDGE OF WOOD
  3. TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED TPO INSIDE/OUTSIDE CORNER
  4. MINIMUM SPLICE OVERLAP PER MANUFACTURER RECOMMENDATIONS



- 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 SPLICE 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 SPLICE OVERLAP PER MANUFACTURER RECOMMENDATIONS



11 TYPICAL FLAT ROOF LAPPING DETAILS  
SCALE: NOT TO SCALE



MAY 12, 2020  
JAMES P. WATSON, PE MO NO. 2015017071



**J-SQUARED  
ENGINEERING**

MO Certificate of Authority #2018029680  
2401 Bernadette Drive, Suite 201  
Columbia, Missouri 65203  
573-234-4492 phone  
www.j-squaredeng.com  
office@j-squaredeng.com

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: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: **05 - 12 - 2020**

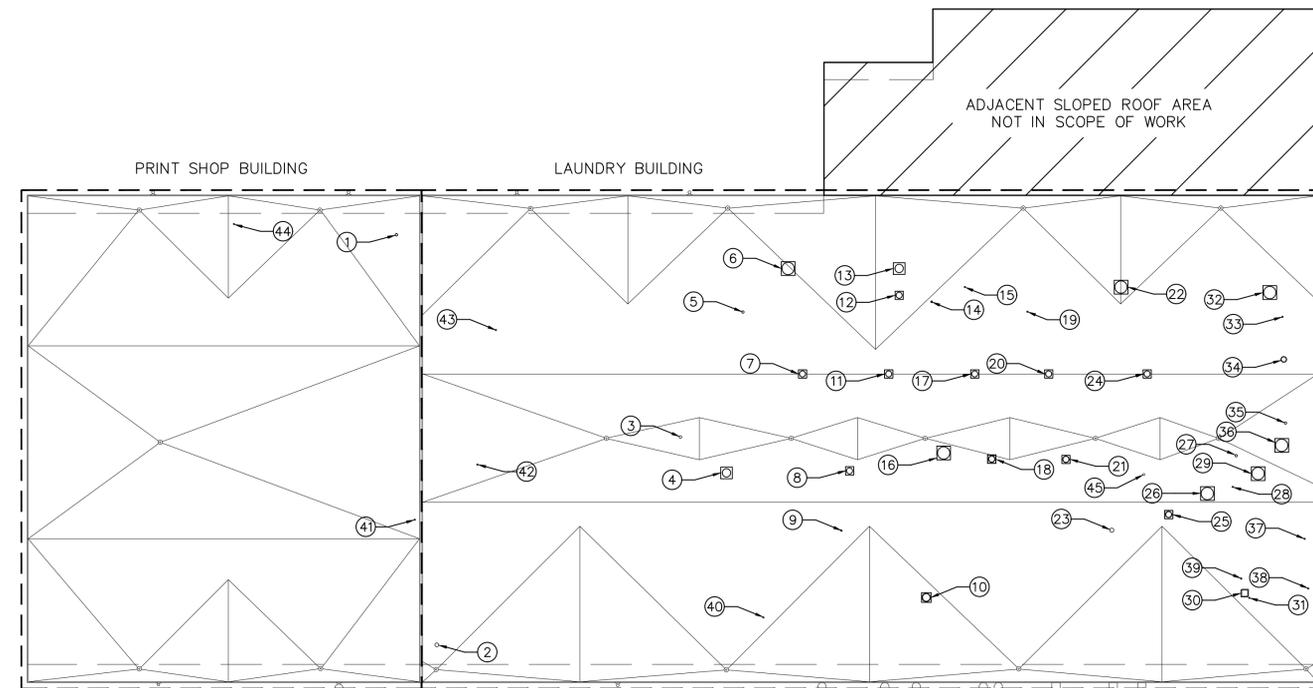
CAD DWG FILE:  
C1913-02-7005-9327005030-9327005031-M-100.dwg  
DRAWN BY: ACW  
CHECKED BY: JPW  
DESIGNED BY: JAP

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: 2012 INTERNATIONAL MECHANICAL CODE, 2012 INTERNATIONAL PLUMBING CODE, 2012 INTERNATIONAL FUEL GAS CODE, 2012 INTERNATIONAL FIRE CODE, & 2011 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

- |  |  |  |
|--|--|--|
| <p>① → 6" FLUE VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>② → 12" INTAKE TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>③ → 5" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>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.</p> <p>⑤ → 6" FLUE VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>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.</p> <p>⑦ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>⑧ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>⑨ → 4" CAST IRON VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>⑩ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>⑪ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>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.</p> <p>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.</p> <p>⑭ → 6" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>⑮ → 4" SEWER VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>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.</p> | <p>⑰ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>⑱ → EXHAUST VENT TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>⑲ → 5" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>⑳ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>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.</p> <p>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.</p> <p>㉓ → 6" VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>㉔ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>㉕ → ROOF VENTILATOR TO REMAIN. REINSTALL ON NEW CURB. SEE ARCHITECTURAL PLANS FOR ROOF/CURB DETAILS.</p> <p>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.</p> <p>㉗ → 8" CAST IRON VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>㉘ → 6" CAST IRON VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>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.</p> <p>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.</p> | <p>⑳ → 4" CAST IRON STEAM VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>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.</p> <p>㉒ → 4" (~7' TALL) VENT FLUE TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>㉓ → 14" CAST IRON VENT FLUE TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>㉔ → 8" CAST IRON VENT WITH HOOD TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>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.</p> <p>㉖ → 4" CAST IRON VENT (CAPPED) TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>㉗ → 16"x 16" TO 4" CAST IRON VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>㉘ → 4" PLUMBING VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> <p>㉙ → 4" CAST IRON PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>㉚ → 4" CAST IRON PLUMBING PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>㉛ → 4" CAST IRON PLUMBING PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>㉜ → 4" CAST IRON PLUMBING PLUMBING VENT TO BE REMOVED/UNINSTALLED. SEE ARCHITECTURAL PLANS FOR ROOF REPAIR DETAILS.</p> <p>㉝ → 4" CAST IRON VENT TO REMAIN. PROVIDE &amp; INSTALL NEW BOOT AND FLASHING.</p> |
|--|--|--|