

# REPLACE ROOFS - 4 BUILDINGS MOBERLY CORRECTIONAL CENTER MOBERLY, MISSOURI

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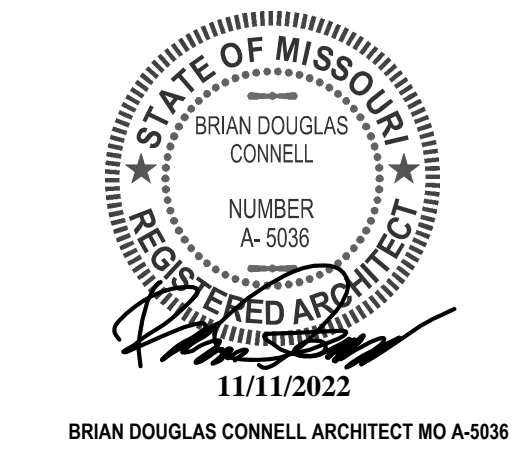
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MICHAEL L. PARSON,  
GOVERNOR  
DEPARTMENT OF CORRECTIONS

DESIGNER: CONNELL ARCHITECTURE, P.C.  
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COLUMBIA, MISSOURI 65201  
PROJECT NUMBER: C1913-01

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

SITE NUMBER: 7005  
ASSET NUMBERS: 9327005022, 9327005023,  
9327005024, 9327005029



ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 000827

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OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT, DESIGN  
AND CONSTRUCTION

MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01  
SITE No. 7005  
ASSET No. 9327005022, 9327005023,  
9327005024, 9327005029

REVISION:	
DATE:	
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REVISION:	
DATE:	
ISSUE DATE:	11/11/2022

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DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

SHEET TITLE:

LOCATION MAPS &  
DRAWING INDEX

SHEET NUMBER:

G-001

SHEET 2 OF 11  
ISSUE DATE: 11/11/2022

## 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** - CONTRACTOR SHALL IMMEDIATELY REPORT ANY UNFORESEEN CONDITIONS DISCOVERED IN THE WORK WHICH COULD RESULT IN DAMAGE TO THE STRUCTURE OR INJURY TO THE OCCUPANTS TO THE OWNER'S REPRESENTATIVE AND CONNELL ARCHITECTURE P.C. IMPLEMENT NECESSARY 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'S REPRESENTATIVE AND CONNELL ARCHITECTURE, P.C.
- SITE UTILIZATION** - USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND CONSTRUCTION ADMINISTRATOR. THE CONTRACTOR'S OPERATIONS SHALL NOT OBSTRUCT OR ADVERSELY AFFECT ANY PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTIES.
- 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.

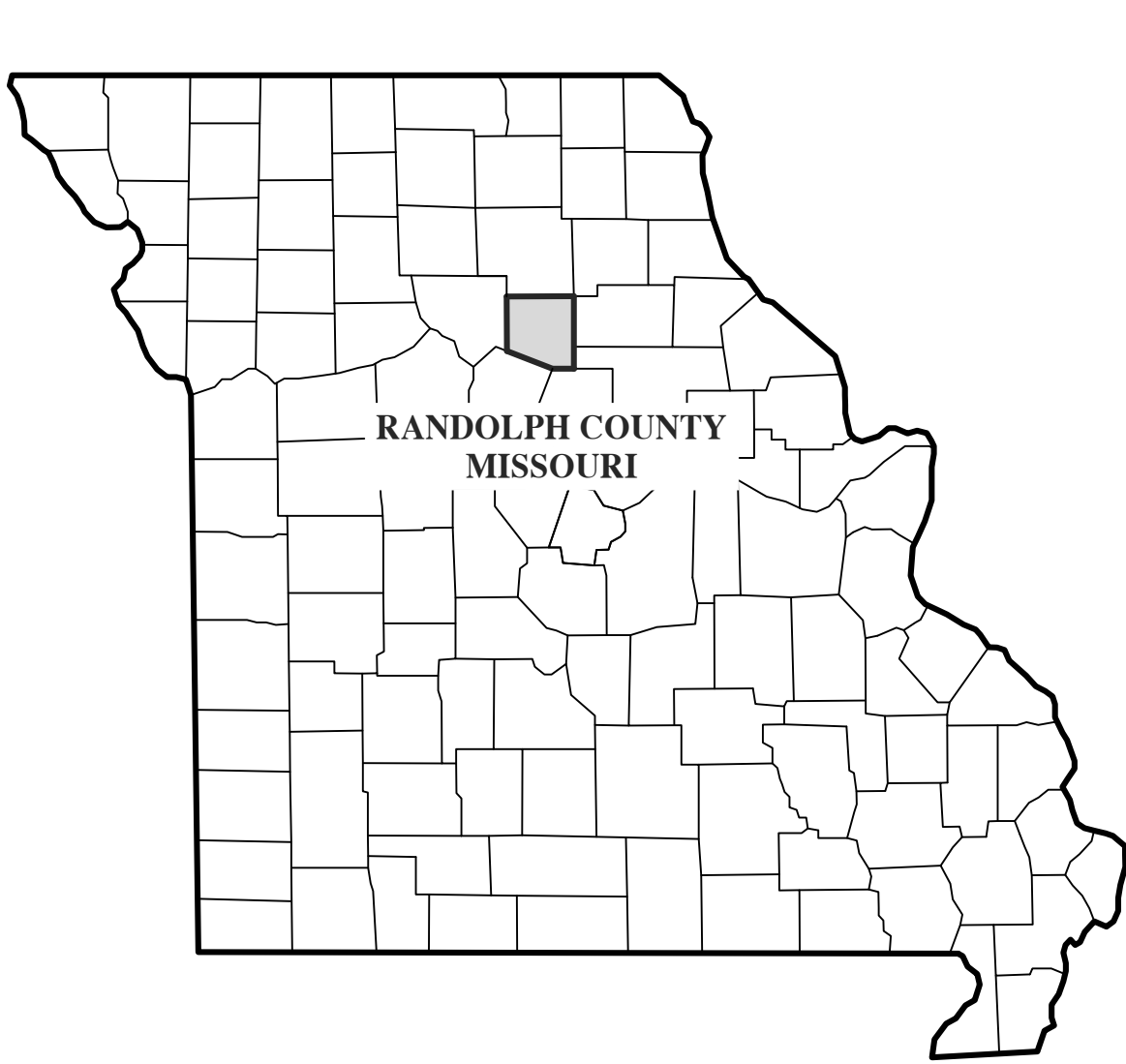
## ROOF REPLACEMENT NOTES:

- ROOF SLOPE:** THE MINIMUM SLOPE ON ANY ROOF PLANE (INCLUDING SADDLES AND CRICKETS) SHALL BE ¼" PER FOOT.
- THERMAL PERFORMANCE:** THE MINIMUM AVERAGE R-VALUE FOR ANY FLAT ROOF AREA SHALL BE R-30, SLOPED ROOFS SHALL BE R-0 ON THE CHAPEL BUILDING, AND R-30 ON THE CONNECTOR / GYM ROOFS.
- WIND UPLIFT RATING:** THE MEMBRANE ROOFING SYSTEM SHALL MEET THE REQUIREMENTS OF FM 1A-90.
- FIRE-RESISTANCE RATING:** THE MEMBRANE ROOFING SYSTEM SHALL ACHIEVE A MINIMUM UL CLASS C WHEN TESTED PER UL 790 (ASTM E 108).

## DRAWING SHEET INDEX:

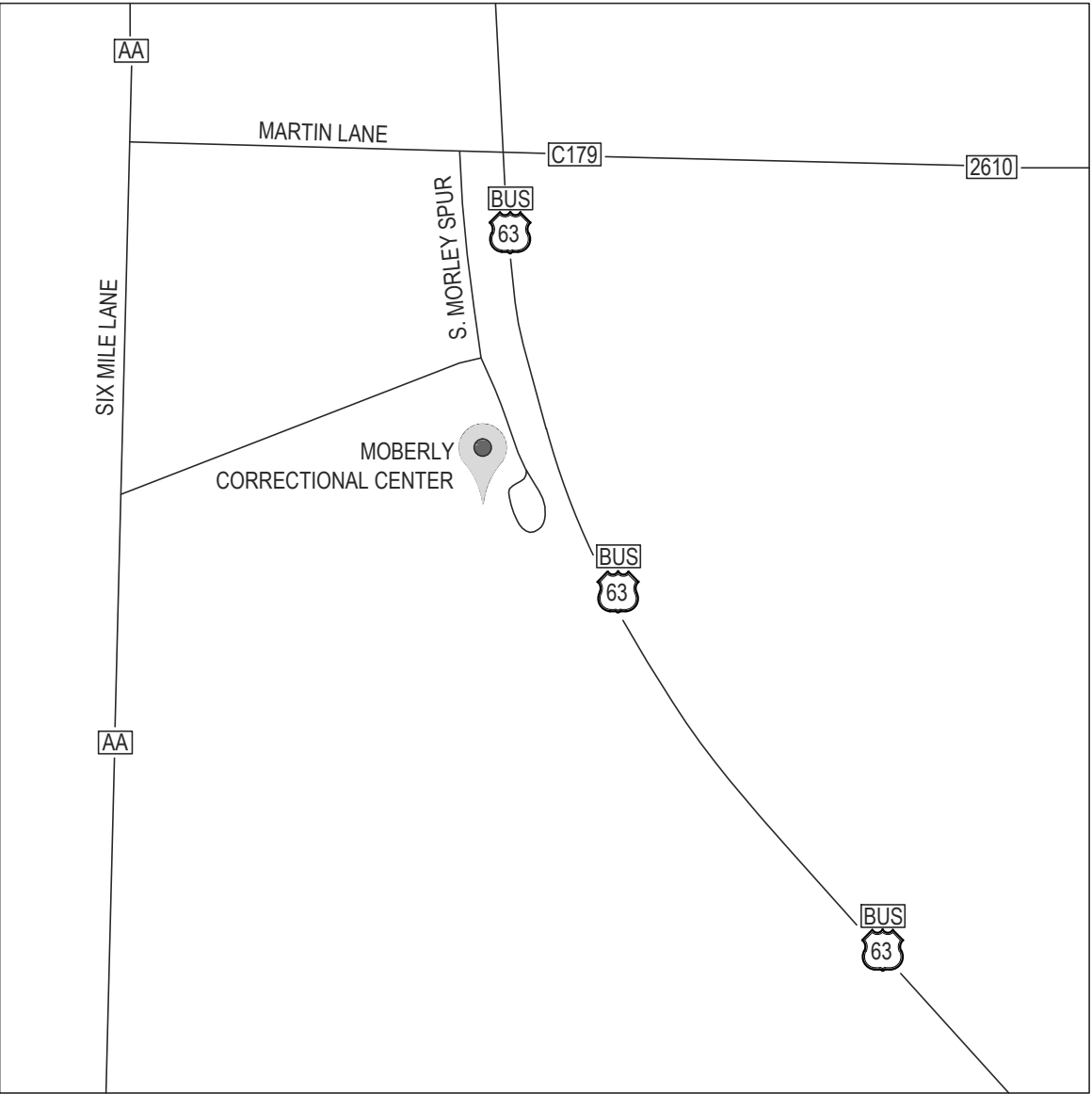
### ARCHITECTURAL SHEETS

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A-102	SIGN SHOP BUILDING No. 14 - ROOF REPLACEMENT PLAN
A-500	FLAT ROOF TPO DETAILS
A-501	TPO ROOF DETAILS
A-502	SLOPED ROOF SHINGLE DETAILS



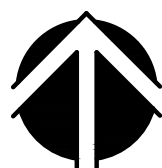
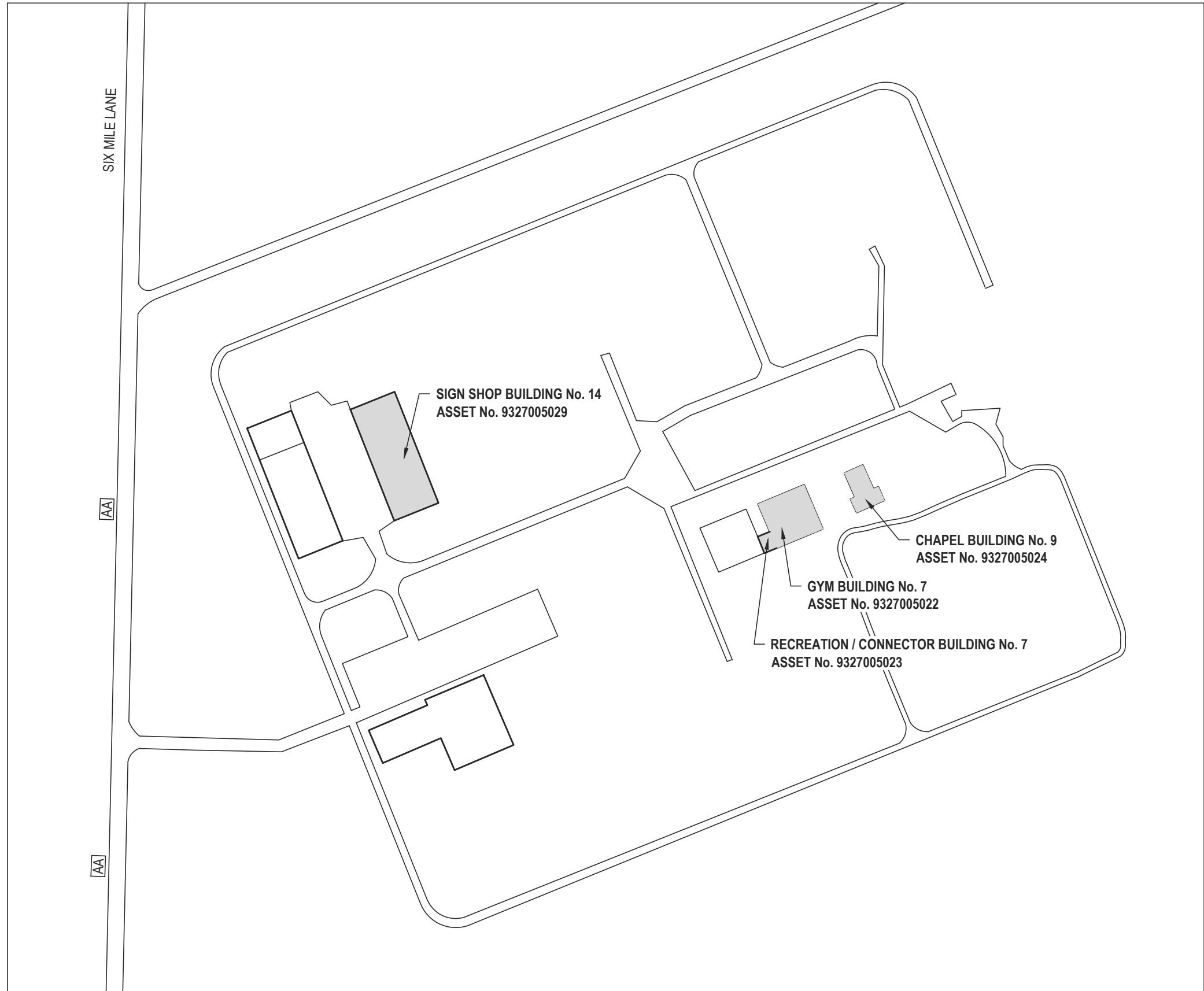
1  
G-001

MISSOURI STATE MAP  
NOT TO SCALE



2  
G-001

VICINITY MAP - MOBERLY CORRECTIONAL CENTER  
NOT TO SCALE



3  
G-001

SITE MAP - MOBERLY CORRECTIONAL CENTER  
NOT TO SCALE

### ASBESTOS CONTAINING MATERIALS

A LIMITED ASBESTOS INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEMS OF ALL FOUR BUILDINGS INCLUDED IN THE SCOPE OF THIS PROJECT.

ASBESTOS CONTAINING MATERIALS WERE NOT DETECTED ON THE RECREATION / CONNECTOR & GYM BUILDING No. 7, CHAPEL BUILDING No. 9, AND THE SIGN SHOP BUILDING No. 14. ASBESTOS ABATEMENT WILL NOT BE REQUIRED ON THESE BUILDINGS.

IN ALL INSTANCES REFER TO PROJECT MANUAL SECTION 028213 - ASBESTOS ABATEMENT FOR FULL DETAIL.

### LEAD CONTAINING MATERIALS

A LIMITED LEAD INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEMS OF ALL FOUR BUILDINGS INCLUDED IN THE SCOPE OF THIS PROJECT.

LEAD CONTAINING MATERIALS WERE DETECTED ON THE CHAPEL BUILDING No. 9 (LEAD FLASHING AT VENT PENETRATIONS) AND THE SIGN SHOP BUILDING No. 14 (LEAD FLASHING AT VENT PENETRATIONS). LEAD ABATEMENT WILL BE REQUIRED ON THESE BUILDINGS.

LEAD CONTAINING MATERIALS WERE NOT DETECTED ON THE RECREATION / CONNECTOR & GYM BUILDING No. 7. LEAD ABATEMENT WILL NOT BE REQUIRED ON THESE BUILDINGS.

IN ALL INSTANCES REFER TO PROJECT MANUAL SECTION 028333 - LEAD ABATEMENT FOR FULL DETAIL.

GENERAL DEMOLITION NOTES: RECREATION/CONNECTOR & GYM BUILDING No. 7

1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL OF DEMOLITION MATERIALS WITH OTHER WORK SEQUENCES AND THE OWNER'S OCCUPANCY REQUIREMENTS.
2. REMOVE ALL EXISTING ASPHALT SHINGLES AND UNDERLAYMENT DOWN TO SUBSTRATE NOTED TO REMAIN.
3. REMOVE ALL EXISTING PERIMETER METAL COPING, FLASHING, COUNTERFLASHING, SHEET METAL CLEATS, FASTENERS, AND SEALANT UNLESS OTHERWISE NOTED.
4. REMOVE ALL EXISTING ROOF-TO-WALL BASE FLASHING, COUNTERFLASHING, REGLETS, FASTENERS AND SEALANT.
5. REMOVE ALL EXISTING DAMAGED OR DETERIORATED WOOD BLOCKING, CANTS, NAILERS, GROUNDS, ETC.
6. REMOVE ALL ABANDONED ROOF-MOUNTED ITEMS (EXHAUST FANS, VENTS, CONDUITS, PIPES, DUCTS, CURBS, ETC. AS NOTED ON THE ROOF DEMOLITION PLAN.
7. TOTAL ROOF AREA CALCULATION DOES NOT INCLUDE ROOF-TO-WALL FLASHING AT VERTICAL SURFACES.

KEYED DEMOLITION NOTES: RECREATION/CONNECTOR & GYM BUILDING No. 7

1. REMOVE ALL SHEET METAL GUTTERS AND DOWNSPOUTS
2. REMOVE EXISTING ROOF-TO-WALL FLASHING
3. REMOVE EXISTING ROOF-TO- WALL FLASHING AT METAL WALL PANELS
4. EXISTING LOW-VOLTAGE SPEAKER WIRE TO BE RELOCATED BY OWNER
5. EXISTING COAXIAL CABLE TO BE RELOCATED BY OWNER
6. EXISTING ROOF- MOUNTED LIGHT FIXTURE - REMOVE & REINSTALL
7. EXISTING ELECTRIC CONDUIT ATTACHED TO RAKE FASCIA - REMOVE & REINSTALL
8. EXISTING 4" Ø CAST IRON VTR TO REMAIN
9. EXISTING CURB- MOUNTED EXHAUST VENT TO REMAIN
10. EXISTING ROOF-MOUNTED LIGHTNING ROD TO REMAIN

RECREATION /CONNECTOR & GYM BUILDING No. 7  
EXISTING ROOF CORE SAMPLE SCHEDULE

RECREATION/CONNECTOR GABLE (SLOPED) ROOF AREA

ROOF CORE No. 1

ASPHALT SHINGLES OVER 30# FELT UNDERLAYMENT OVER 1/2" PLYWOOD NAILING SHEET OVER 3" POLYISO INSULATION BOARD OVER BASE SHEET MOPPED TO STRUCTURAL TECTUM PANEL DECK. OVERALL DEVELOPED THICKNESS = 4" (NOT INCLUDING THICKNESS OF TECTUM PANEL)

GYM GABLE (SLOPED) ROOF AREA

ROOF CORE No. 2

ASPHALT SHINGLES OVER 30# FELT UNDERLAYMENT OVER 1/2" PLYWOOD NAILING SHEET OVER MOPPED-DOWN MULTI-PLY BUILT-UP ROOF OVER STRUCTURAL GYPSUM PANEL DECK. OVERALL DEVELOPED THICKNESS = 2" (NOT INCLUDING THICKNESS OF GYPSUM PANEL)

EXISTING GYM BUILDING No. 7  
ROOF FEATURE SCHEDULE

Description	Quantity
Gutters	132 LF

EXISTING RECREATION/CONNECTOR BUILDING No. 7  
ROOF FEATURE SCHEDULE

Description	Quantity
4" Ø Cast Iron VTR	1
Exhaust Vent	1
Gutter	57 LF

ASBESTOS CONTAINING MATERIALS

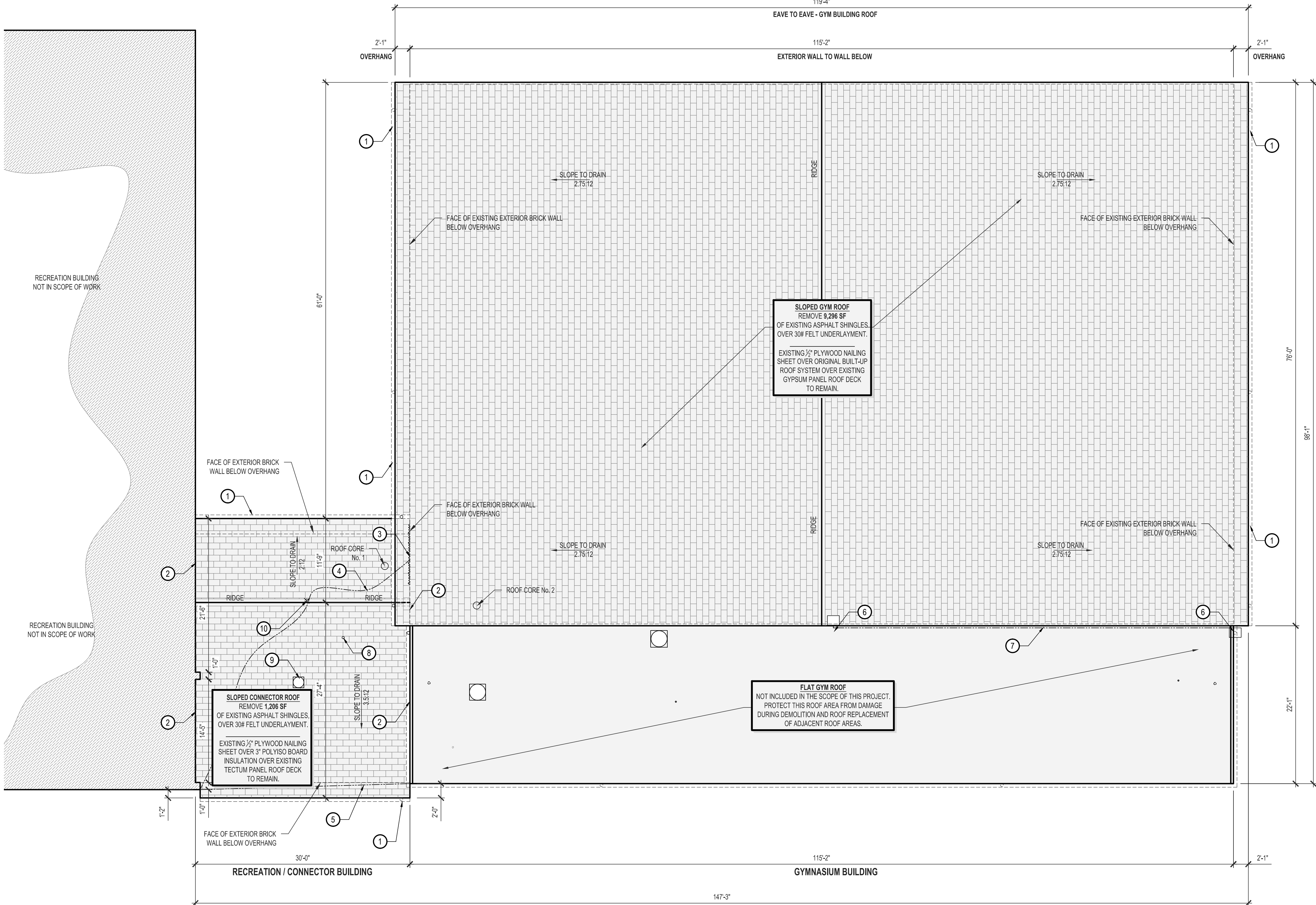
A LIMITED ASBESTOS INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEMS OF THE RECREATION/CONNECTOR & GYM BUILDING No. 7, AND THE LABORATORY ANALYSIS INDICATES THAT SAMPLES **DO NOT** CONTAIN ASBESTOS. ASBESTOS ABATEMENT IS NOT REQUIRED ON THIS BUILDING.

LEAD CONTAINING MATERIALS

A LIMITED LEAD INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEMS OF THE RECREATION/CONNECTOR & GYM BUILDING No. 7 AND THE LABORATORY ANALYSIS INDICATES THAT SAMPLES **DO NOT** CONTAIN LEAD. LEAD ABATEMENT IS NOT REQUIRED ON THIS BUILDING.

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  
AD-100

RECREATION / CONNECTOR ROOF - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

ASSET NUMBER - 9327005023



2  
AD-100

GYM ROOF - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

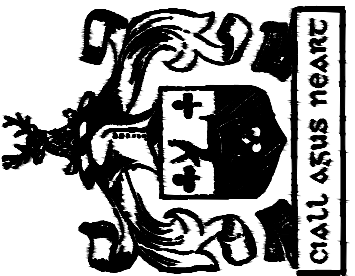
ASSET NUMBER - 9327005022

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

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REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01

SITE No. 7005

ASSET No. 9327005022,  
9327005023

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
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ISSUE DATE: 11/11/2022

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DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

SHEET TITLE:

RECREATION / CONNECTOR &  
GYM BUILDING No. 7  
ROOF DEMOLITION PLAN

SHEET NUMBER:

AD-100

SHEET 3 OF 11  
ISSUE DATE: 11/11/2022



1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL OF DEMOLITION MATERIALS WITH OTHER WORK SEQUENCES AND THE OWNER'S OCCUPANCY REQUIREMENTS.
2. THE ROOFING CONTRACTOR SHALL CONTRACT WITH MECHANICAL / ELECTRICAL CONTRACTORS TO TEMPORARILY DISCONNECT REMOVE AND RE-INSTALL ROOF-MOUNTED EQUIPMENT AND FIXTURES DURING ROOF DEMOLITION AND REPLACEMENT ACTIVITIES. THE CONTRACTOR SHALL COORDINATE TEMPORARY DISRUPTIONS WITH THE FACILITY MANAGER.
3. REMOVE ALL EXISTING ASPHALT SHINGLES AND UNDERLAYMENT DOWN TO ROOF SUBSTRATE NOTED TO REMAIN, PREPARED TO RECEIVE NEW ROOF SYSTEM.
4. REMOVE ALL EXISTING MODIFIED BITUMEN MEMBRANE, MEMBRANE FLASHING, BOOTS, TRIM AND INSULATION DOWN TO ROOF SUBSTRATE NOTED TO REMAIN.
5. REMOVE ALL EXISTING PERIMETER METAL COPING, FLASHING, COUNTERFLASHING, SHEET METAL CLEATS, FASTENERS, AND SEALANT UNLESS OTHERWISE NOTED.
6. REMOVE ALL EXISTING ROOF-TO-WALL BASE FLASHING, COUNTERFLASHING, REGLET, FASTENERS AND SEALANT.
7. REMOVE ALL EXISTING DAMAGED OR DETERIORATED WOOD BLOCKING, CANTS, NAILERS, ETC.
8. REMOVE ALL ABANDONED ITEMS (VENTS, PIPES, DUCTS, CURBS, ETC. AS NOTED ON THE ROOF DEMOLITION PLAN.
9. TOTAL ROOF AREA CALCULATION DOES NOT INCLUDE VERTICAL SURFACE AREA OF FLASHING AT PARAPETS OR WALLS.
10. REMOVE ALL EXISTING GUTTERS AND DOWNSPOUTS

1. EXISTING SHEET METAL GUTTERS AND DOWNSPOUTS TO BE REMOVED
2. EXISTING 4" Ø CAST IRON VENT TO REMAIN
3. EXISTING 3" Ø CAST IRON VENT TO REMAIN
4. EXISTING WALL- MOUNTED LIGHT FIXTURE TO REMAIN
5. EXISTING ROOF- TO- WALL FLASHING TO BE REMOVED
6. EXISTING CANOPY ROOF DRAIN & STRAINER TO BE REMOVED AND REPLACED WITH NEW DRAIN
7. EXISTING MEMBRANE- TO- SHINGLE TRANSITION TO BE REMOVED

**CORE SAMPLE 1:**  
MULTI-PLY MODIFIED BITUMEN BUILT-UP ROOF MEMBRANE (ROOF 3) OVER FELT BASE SHEET  
OVER PERLITE COVER BOARD OVER BUILT-UP ROOF MEMBRANE (ROOF 2) OVER POLYISO  
INSULATION OVER BUILT-UP ROOF MEMBRANE (ROOF 1) OVER EPS INSULATION OVER  
EXISTING CONCRETE ROOF DECK. AVERAGE THICKNESS = 5¾" (NOT INCLUDING CONCRETE DECK)

**CORE SAMPLE 2:**  
60-MIL EPDM MEMBRANE OVER TAPERED INSULATION OVER METAL DECK.

MAIN ROOF AREA	
Description	Quantity
4" Ø Cast Iron VTR	1
Gutters	125 LF

Description	Quantity
3" Ø Cast Iron VTR	1
4" Ø Cast Iron VTR	2
Gutter	126 LF

Description	Quantity
Internal Drain	2

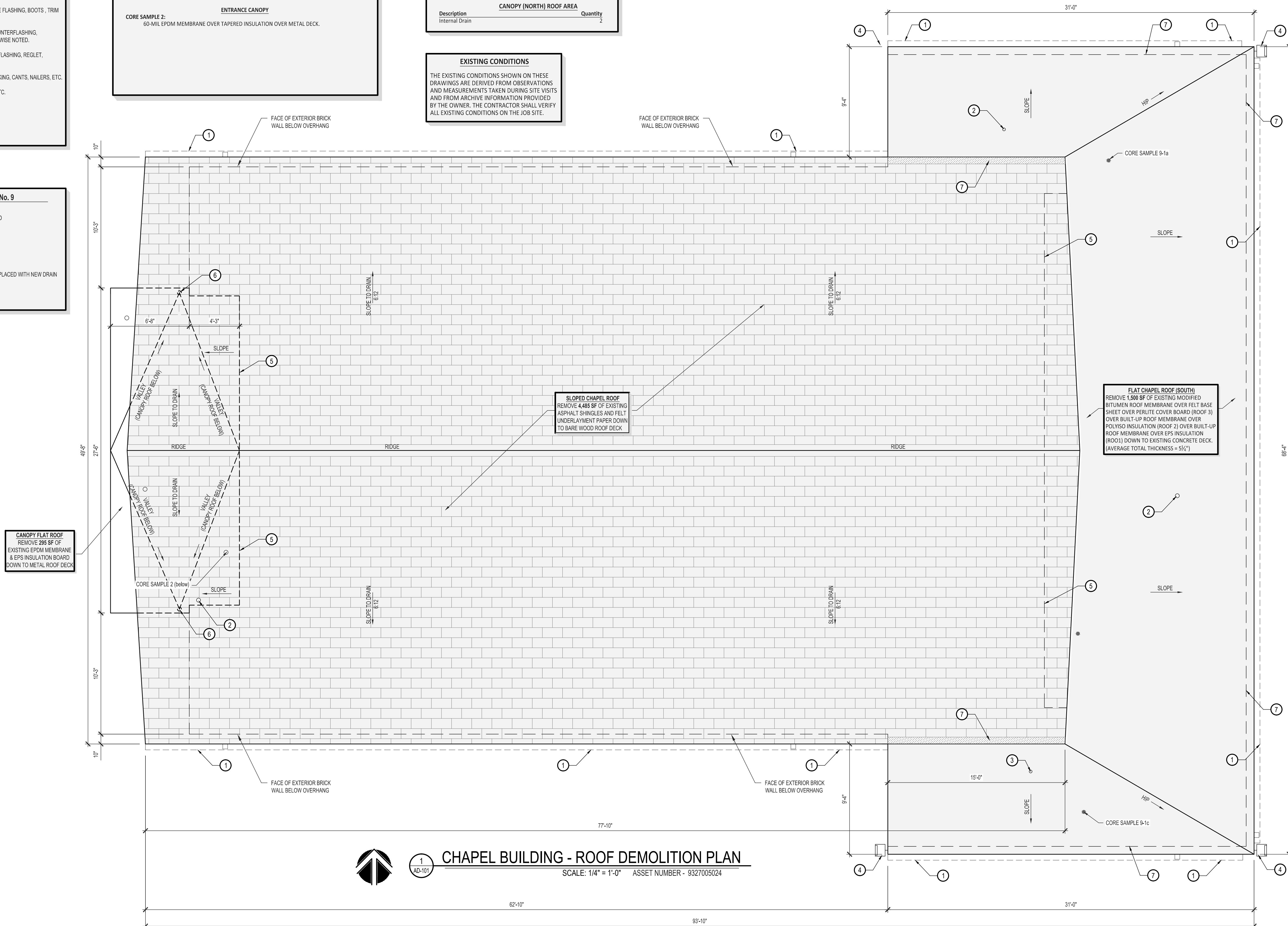
THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE.

A LIMITED ASBESTOS INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEMS OF THE CHAPEL BUILDING No. 9, 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.**

A LIMITED LEAD INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEM OF THE CHAPEL BUILDING No. 9, AND THE LABORATORY ANALYSIS INDICATES THAT SAMPLES **DO** CONTAIN LEAD IN REGULATED AMOUNTS IF DISTURBED BY DEMOLITION (LEAD FLASHING AT VENT PENETRATIONS).  
**LEAD ABATEMENT IS REQUIRED ON THIS BUILDING.**  
IN ALL INSTANCES REFER TO PROJECT MANUAL SECTION 028333 - LEAD ABATEMENT

- 1. SLOPED ROOF AREAS:** ASPHALT SHINGLES OVER 30# FELT UNDERLAYMENT OVER EXISTING WOOD DECKING.
- 2. FLAT ROOF AREA (SOUTH ROOF AREA):** MULTI-PLY MODIFIED BITUMEN MEMBRANE OVER PERLITE ROOF BOARD (ROOF 3) OVER BUILT-UP ROOF MEMBRANE OVER POLYISO INSULATION (ROOF 2) OVER BUILT-UP ROOF MEMBRANE OVER XPS INSULATION (ROOF 1) OVER THE EXISTING CONCRETE ROOF DECK. (3 ROOF SYSTEMS)
- 3. FLAT ROOF AREA (ENTRANCE CANOPY):** 60-MIL EPDM FULLY-ADHERED TO TAPERED EPS INSULATION OVER EXISTING 1½" TYPE B STEEL ROOF DECK.



1  
AD-101

SCALE: 1/4" = 1'-0"      ASSET NUMBER - 9327005024





**GENERAL ROOF DEMOLITION NOTES - SIGN SHOP BUILDING No. 14**

1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL OF DEMOLITION MATERIALS WITH OTHER WORK SEQUENCES AND THE OWNER'S OCCUPANCY REQUIREMENTS.
2. 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.
3. REMOVE ALL EXISTING MEMBRANE, MEMBRANE FLASHING, BOOTS AND INSULATION DOWN TO BARE LIGHTWEIGHT CONCRETE ROOF DECK.
4. EXISTING 3-COURSE METAL FASCIA - REMOVE TOP COURSE, BOTTOM 2 COURSES TO REMAIN.
5. REMOVE ALL EXISTING DAMAGED AND DETERIORATED 2x WOOD CANTS, NAILERS, GROUNDS, ETC.
6. REMOVE ALL ABANDONED ITEMS (VENTS, PIPES, CURBS, ETC.) AS NOTED ON ROOF DEMOLITION PLAN.
7. TOTAL ROOF AREA CALCULATION DOES NOT INCLUDE VERTICAL SURFACE AREA OF FLASHING AT PARAPET AND WALLS.

**KEYED ROOF DEMOLITION NOTES - SIGN SHOP BUILDING No. 14**

1. EXISTING ROOF DRAIN WITH 8" Ø DOME STRAINER TO REMAIN
2. EXISTING 3-COURSE METAL FASCIA - REMOVE TOP COURSE, BOTTOM 2 COURSES TO REMAIN
3. EXISTING 2x WOOD PERIMETER BLOCKING TO REMAIN
4. EXISTING 4" Ø CAST IRON VTR TO REMAIN
5. EXISTING CURB-MOUNTED EXHAUST VENT TO BE REMOVED
6. EXISTING WALL-MOUNTED EXHAUST FLUE TO REMAIN
7. EXISTING EXHAUST FLUE SUPPORT INTO PITCH POCKET (TYPICAL 4 LOCATIONS) TO REMAIN
8. EXISTING EXTERIOR EXHAUST FLUE TO REMAIN

**SIGN SHOP BUILDING No. 14  
EXISTING ROOF CORE SAMPLE SCHEDULE**

**CORE SAMPLE 1:**  
MULTI-PLY MODIFIED BITUMEN OVER ½" PERLITE COVER BOARD OVER TAPERED POLYISO INSULATION OVER BASE SHEET OVER 2" LIGHTWEIGHT CONCRETE OVER 1½" TYPE B STEEL ROOF DECK. TOTAL THICKNESS OF EXISTING ROOF SYSTEM IS 15" AT THIS SAMPLE LOCATION (NOT INCLUDING LIGHTWEIGHT CONCRETE)

**CORE SAMPLE 2:**  
MULTI-PLY MODIFIED BITUMEN OVER ½" PERLITE COVER BOARD OVER TAPERED POLYISO INSULATION OVER BASE SHEET OVER 2" LIGHTWEIGHT CONCRETE OVER 1½" TYPE B STEEL ROOF DECK. TOTAL THICKNESS OF EXISTING ROOF SYSTEM IS 5" AT THIS SAMPLE LOCATION (NOT INCLUDING LIGHTWEIGHT CONCRETE)

EXISTING SIGN SHOP BUILDING No. 14 ROOF FEATURE SCHEDULE	
DESCRIPTION	QUANTITY
4" Ø CAST IRON VTR	2
INTERNAL ROOF DRAIN	10
CURB-MOUNTED EXHAUST VENT	1

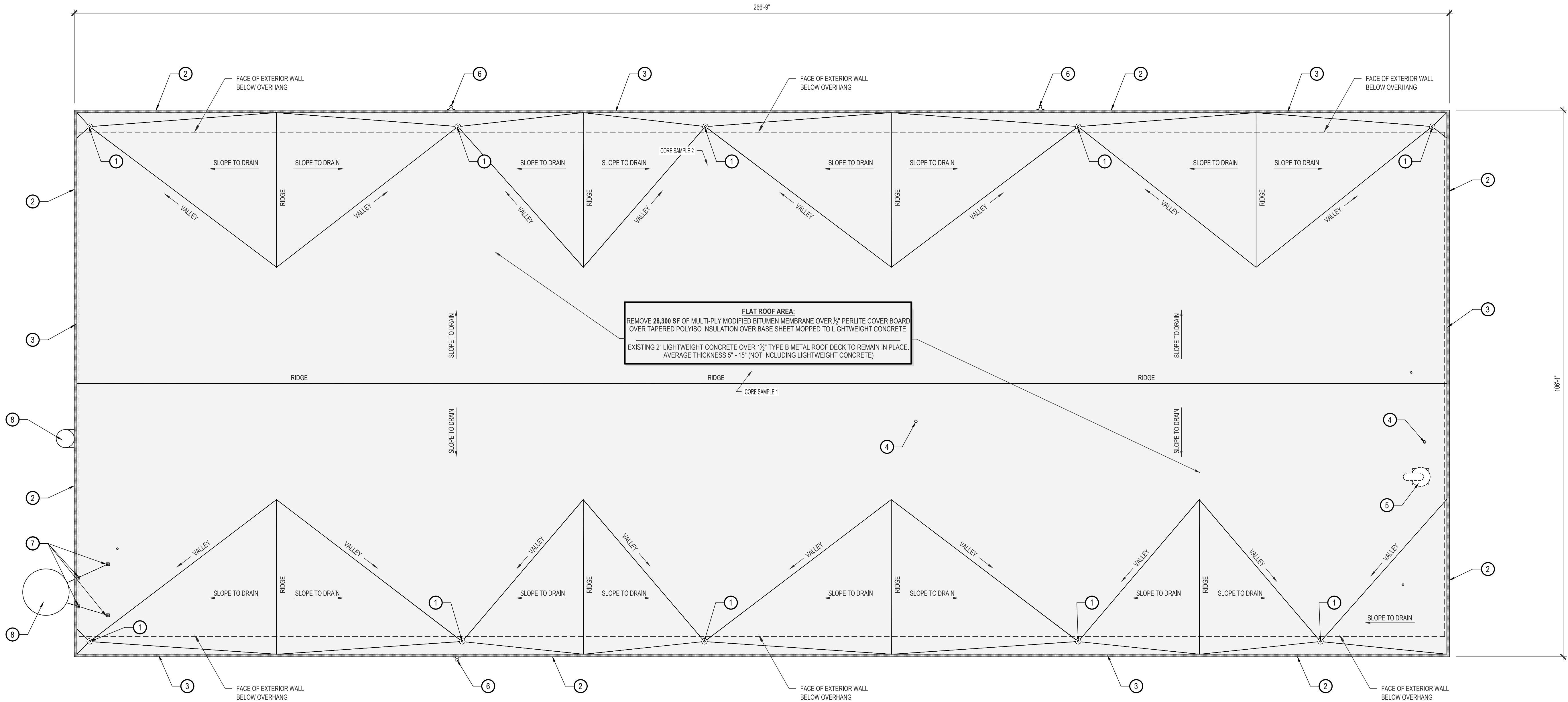
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**EXISTING ROOF ASSEMBLY: SIGN SHOP BUILDING No. 14**

1. **FLAT ROOF AREA:** MULTI-PLY MODIFIED BITUMEN MEMBRANE OVER ½" PERLITE COVER BOARD OVER POLYISO TAPERED INSULATION OVER BASE SHEET OVER 2"-3" LIGHTWEIGHT CONCRETE OVER TYPE B METAL DECK. THICKNESS VARIES FROM 4½" TO 15".

**ASBESTOS CONTAINING MATERIALS**  
A LIMITED ASBESTOS INSPECTION WAS PERFORMED ON THE EXISTING ROOF SYSTEM OF THE SIGN SHOP BUILDING No. 14, 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 SIGN SHOP BUILDING No. 14, AND THE LABORATORY ANALYSIS INDICATES THAT SAMPLES **DO** CONTAIN LEAD IN REGULATED AMOUNTS IF DISTURBED BY DEMOLITION. **LEAD ABATEMENT IS REQUIRED ON THIS BUILDING.** IN ALL INSTANCES REFER TO PROJECT MANUAL SECTION 028333 - LEAD ABATEMENT FOR FULL DETAILS.

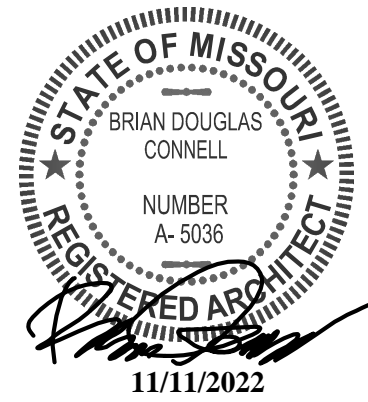


1  
AD-102

**SIGN SHOP ROOF - DEMOLITION PLAN**

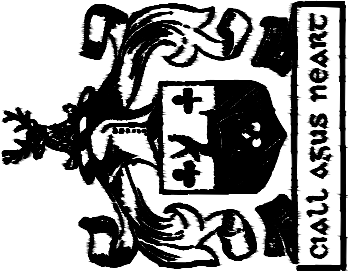
SCALE: 3/32" = 1'-0" ASSET NUMBER - 9327005029

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 000827  
**CONNELL ARCHITECTURE, P.C.**  
Suite B  
2311 East Walnut Street  
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65201  
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OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT, DESIGN  
AND CONSTRUCTION

MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01

SITE No. 7005

ASSET No. 9327005029

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

ISSUE DATE: 11/11/2022

CAD DWG FILE:  
C1913-01-7005-9327005029-AD-102.dwg  
DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

SHEET TITLE:

SIGN SHOP BUILDING No. 14  
ROOF DEMOLITION PLAN

SHEET NUMBER:

AD-102

SHEET 5 OF 11  
ISSUE DATE: 11/11/2022

KEYED ROOF REPLACEMENT NOTES: CONNECTOR & GYM BUILDING No. 7

1. NEW 7" TYPE-D 24-GAUGE SHEET METAL BOX GUTTER
2. NEW 4"x6" 24-GAUGE SHEET METAL DOWNSPOUT
3. NEW ROOF-TO-WALL FLASHING BELOW
4. NEW CRICKET AT ROOF- TO- WALL JUNCTION
5. EXISTING 4" Ø CAST IRON VTR - EXTEND TO 18" ABOVE ROOF
6. RE-INSTALL EXISTING ROOF-MOUNTED LIGHT FIXTURE
7. RE-INSTALL ELECTRICAL CONDUIT TO FACE OF RAKE FASCIA
8. SNOWGUARDS - NEW PRE-MOLDED TPO OUTSIDE CURB CORNER WELDED TO TPO MEMBRANE
9. EXISTING CURB- MOUNTED EXHAUST VENT
10. NEW FLASHING AT ROOF-TO- WALL CONDITION - REFER TO DETAILS 7/A-501
11. NEW BUILDING IDENTIFICATION SIGNAGE - REFER TO DETAIL 3/A-100 ON THIS DRAWING SHEET
12. RE-INSTALL EXISTING LIGHTNING ROD AT ROOF RIDGE
13. NEW ALUMINUM SHEET METAL WRAP OVER EXISTING WOOD RAKE FASCIA

GENERAL ROOF REPLACEMENT NOTES:

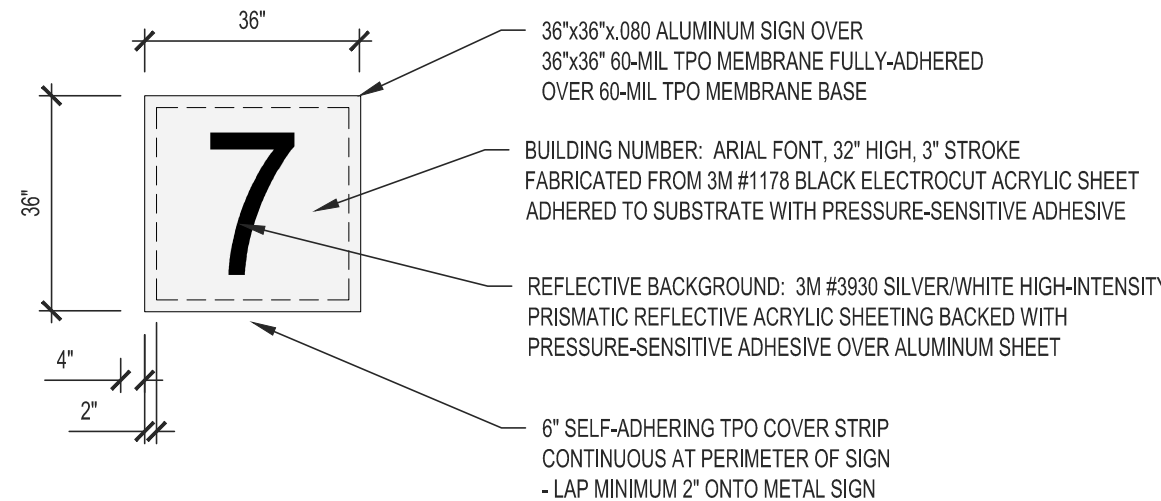
- CONNECTOR & GYM BUILDING No. 7
1. MINIMUM FLAT ROOF SLOPE:  $\frac{1}{4}$ " PER FOOT.
  2. MINIMUM AVERAGE R-VALUE R-30 (EACH ROOF AREA)
  3. WIND UPLIFT RATING: FM 1A-90
  4. FIRE-RESISTANCE RATING: UL CLASS C

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.

BUILDING IDENTIFICATION SIGNAGE NOTE:

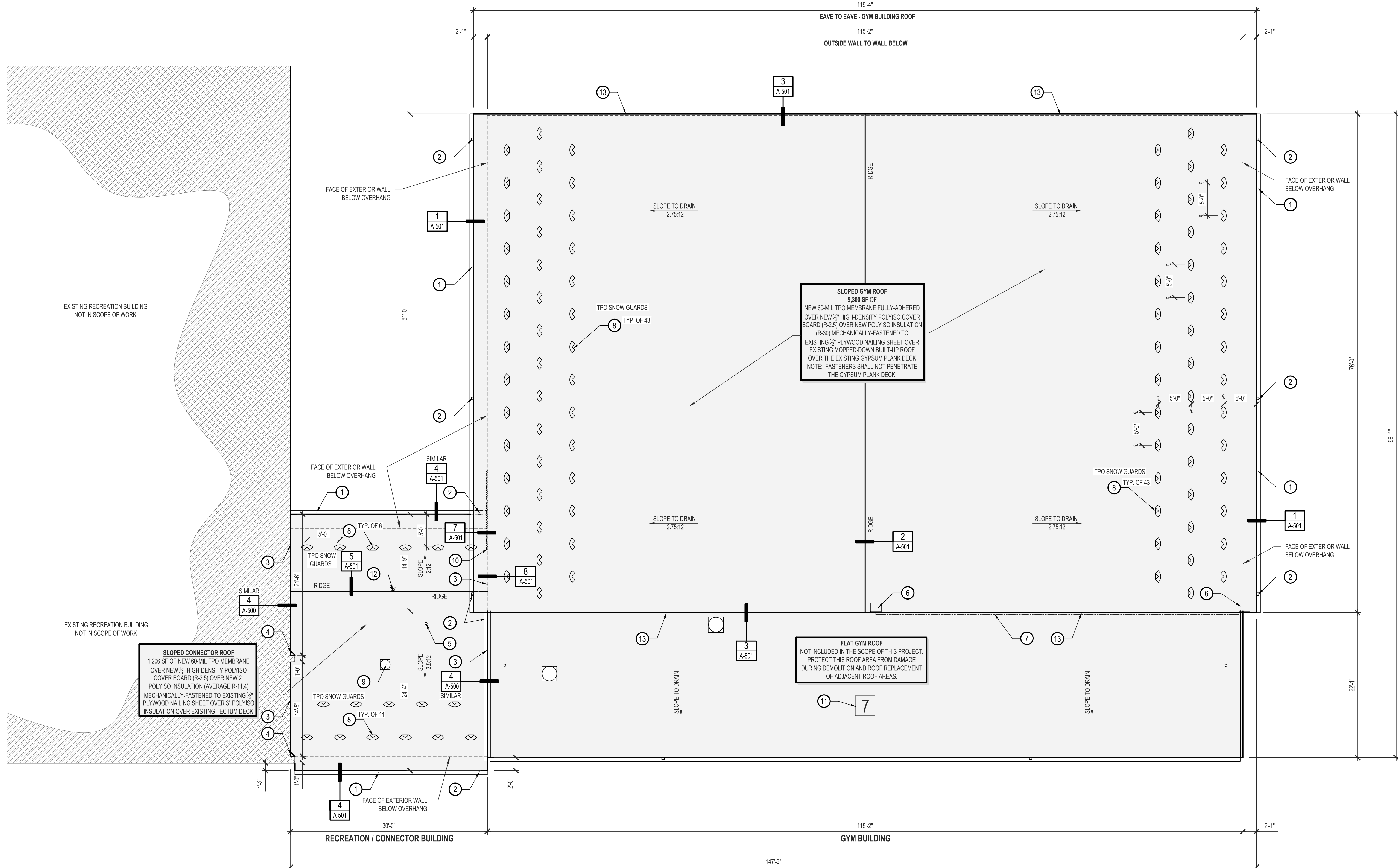
1. LETTERING AND BACKGROUND SHALL BE REFLECTIVE.
2. SIGN SHALL BE FABRICATED FROM 36" x 36" x .008" ALUMINUM SHEET WITH SMOOTH FINISH.
3. THE CHARACTERS BUILDING NUMBER SHALL BE ARIAL FONT, MINIMUM 32" HIGH WITH 3" STROKE, FABRICATED FROM 3M #1178 BLACK ELECTROCUIT ACRYLIC SHEET WITH PRESSURE-SENSITIVE ADHESIVE BACK APPLIED OVER REFLECTIVE BACKGROUND.
4. REFLECTIVE BACKGROUND SHALL BE 3M #9330 SILVER/WHITE HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING WITH PRESSURE-SENSITIVE ADHESIVE APPLIED TO ALUMINUM SHEET.
5. SIGN SHALL BE FULLY-ADHERED TO TPO WALK P/NO LAMINATED TO THE TPO MEMBRANE WITH ADHESIVE COMPATIBLE WITH THE ROOF MEMBRANE MANUFACTURER'S WARRANTY.



3  
A-100

BUILDING IDENTIFICATION SIGN PLAN

NOT TO SCALE



1  
A-100

RECREATION / CONNECTOR - ROOF REPLACEMENT PLAN

SCALE: 1/8" = 1'-0"

ASSET NUMBER - 9327005023

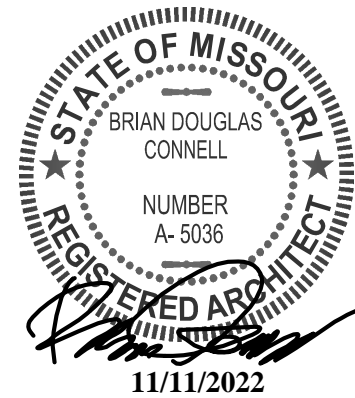


2  
A-100

GYM BUILDING No. 7 - ROOF REPLACEMENT PLAN

SCALE: 1/8" = 1'-0" ASSET NUMBER - 9327005022

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 000827

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MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01

SITE No. 7005

ASSET No. 9327005022,  
9327005023

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 11/11/2022

CAD DWG FILE:  
C:\1913-01-7005-9327005022-9327005023-A-100.dwg  
DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

SHEET TITLE:

RECREATION / CONNECTOR &  
GYM BUILDING No. 7  
ROOF REPLACEMENT PLAN

SHEET NUMBER:

A-100

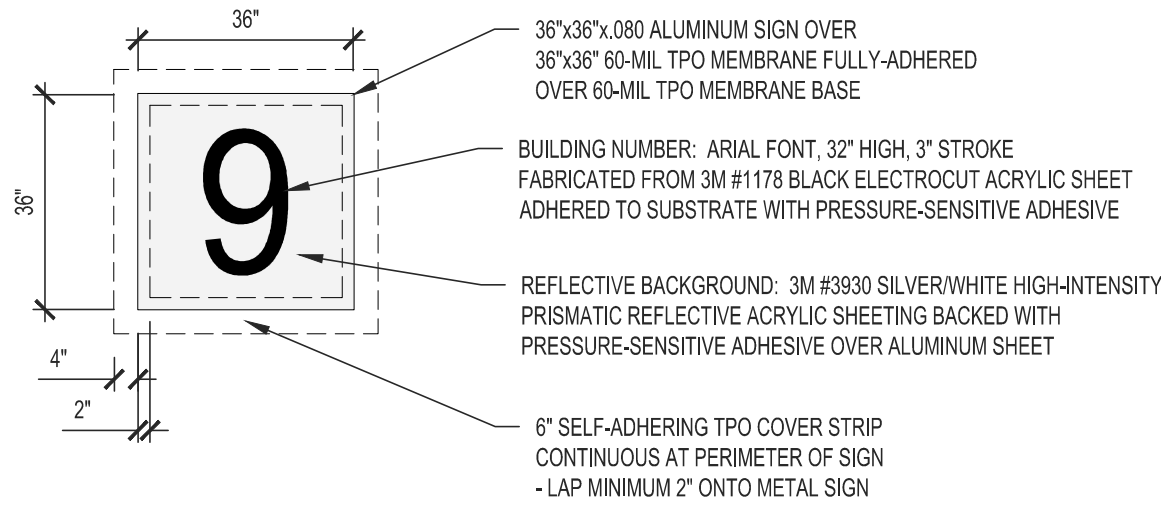
SHEET 6 OF 11  
ISSUE DATE: 11/11/2022



2  
A-101

## BUILDING IDENTIFICATION SIGN PLAN

NOT TO SCALE



### BUILDING IDENTIFICATION SIGNAGE NOTE:

1. LETTERING AND BACKGROUND SHALL BE REFLECTIVE.
2. SIGN SHALL BE FABRICATED FROM 36" x 36" x .080" ALUMINUM SHEET WITH SMOOTH FINISH.
3. THE CHARACTERS (BUILDING NUMBER) SHALL BE ARIAL FONT, MINIMUM 32" HIGH WITH 3" STROKE FABRICATED FROM 3M #1178 BLACK ELECTROCUAT ACRYLIC SHEET WITH PRESSURE-SENSITIVE ADHESIVE BACK APPLIED OVER REFLECTIVE BACKGROUND.
4. REFLECTIVE BACKGROUND SHALL BE 3M #3930 SILVER/WHITE HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING WITH PRESSURE-SENSITIVE ADHESIVE APPLIED TO ALUMINUM SHEET.
5. SIGN SHALL BE FULLY-ADHERED TO TPO WALK PAD LAMINATED TO THE TPO MEMBRANE WITH ADHESIVE COMPATIBLE WITH THE ROOF MEMBRANE MANUFACTURER'S WARRANTY.

### KEYED ROOF REPLACEMENT NOTES: CHAPEL BUILDING No. 9

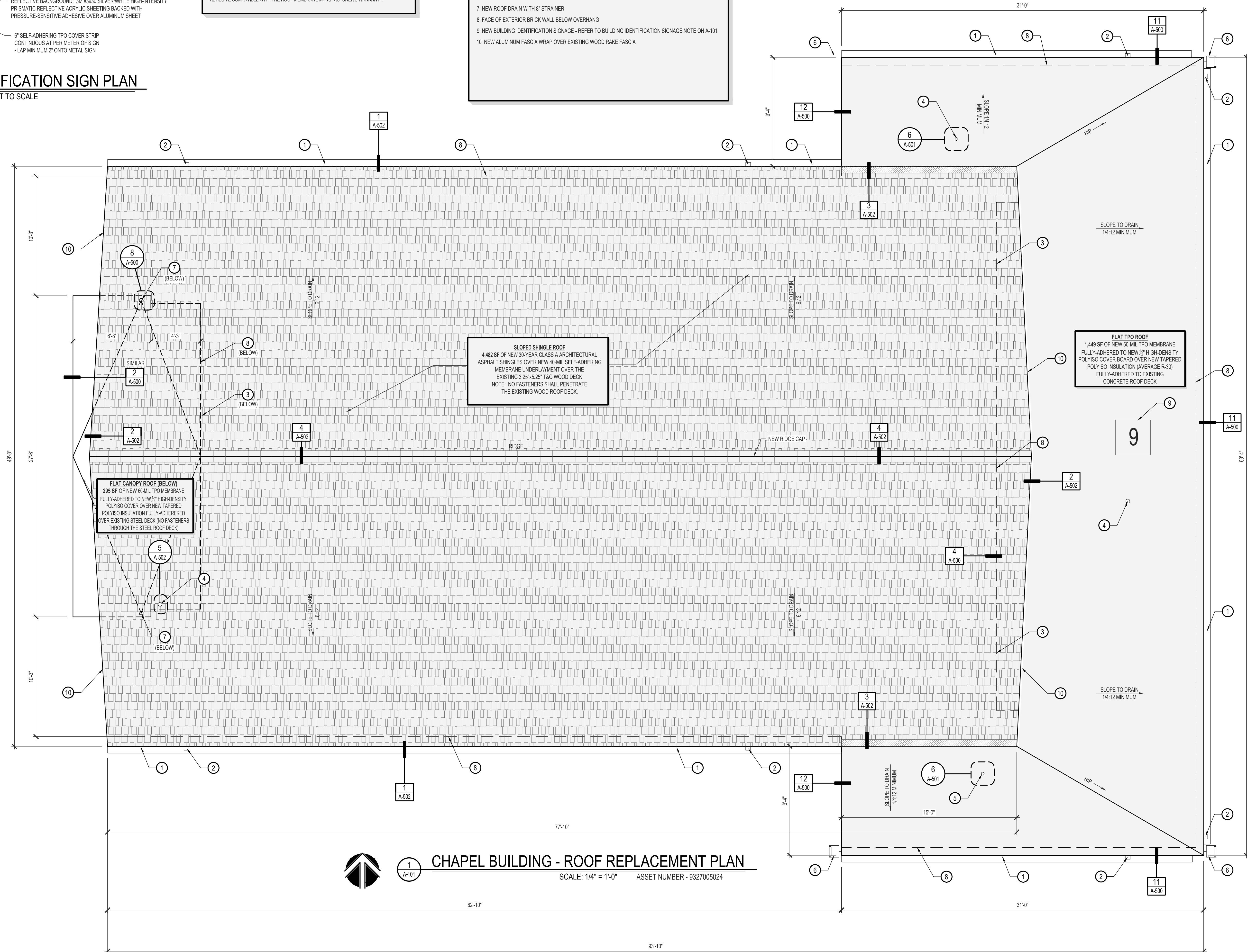
1. NEW 7" TYPE-D STEEL SHEET METAL BOX GUTTER
2. NEW 5"x4" STEEL SHEET METAL DOWNSPOUT
3. NEW ROOF-TO-WALL FLASHING BELOW
4. EXISTING 4" Ø CAST IRON VTR - EXTEND TO 18" ABOVE ROOF
5. EXISTING 3" Ø CAST IRON VTR - EXTEND TO 18" ABOVE ROOF
6. EXISTING WALL-MOUNTED LIGHT FIXTURE TO REMAIN
7. NEW ROOF DRAIN WITH 8" STRAINER
8. FACE OF EXTERIOR BRICK WALL BELOW OVERHANG
9. NEW BUILDING IDENTIFICATION SIGNAGE - REFER TO BUILDING IDENTIFICATION SIGNAGE NOTE ON A-101
10. NEW ALUMINUM FASCIA WRAP OVER EXISTING WOOD RAKE FASCIA

### GENERAL ROOF REPLACEMENT NOTES: CHAPEL BUILDING No. 9

1. MINIMUM FLAT ROOF SLOPE: 1/4" PER FOOT.
2. MINIMUM AVERAGE R-VALUE R-30 (FLAT ROOF AREA)
3. MINIMUM AVERAGE R-VALUE R-0 (SLOPED ROOF AREA)
4. WIND UPLIFT RATING: FM 1A-90
5. FIRE-RESISTANCE RATING: UL CLASS C

### 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-101

## CHAPEL BUILDING - ROOF REPLACEMENT PLAN

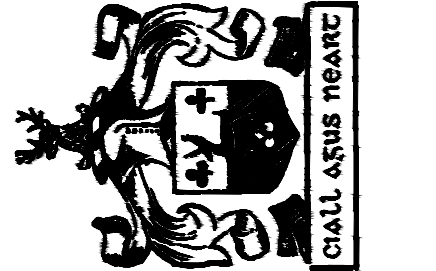
SCALE: 1/4" = 1'-0" ASSET NUMBER - 9327005024

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

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MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01  
SITE No. 7005  
ASSET No. 9327005024

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 11/11/2022

CAD DWG FILE:  
C1913-01-7005-9327005024-A-101.dwg  
DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

SHEET TITLE:

CHAPEL BUILDING No. 9  
ROOF REPLACEMENT  
PLAN

SHEET NUMBER:

A-101

SHEET 7 OF 11  
ISSUE DATE: 11/11/2022

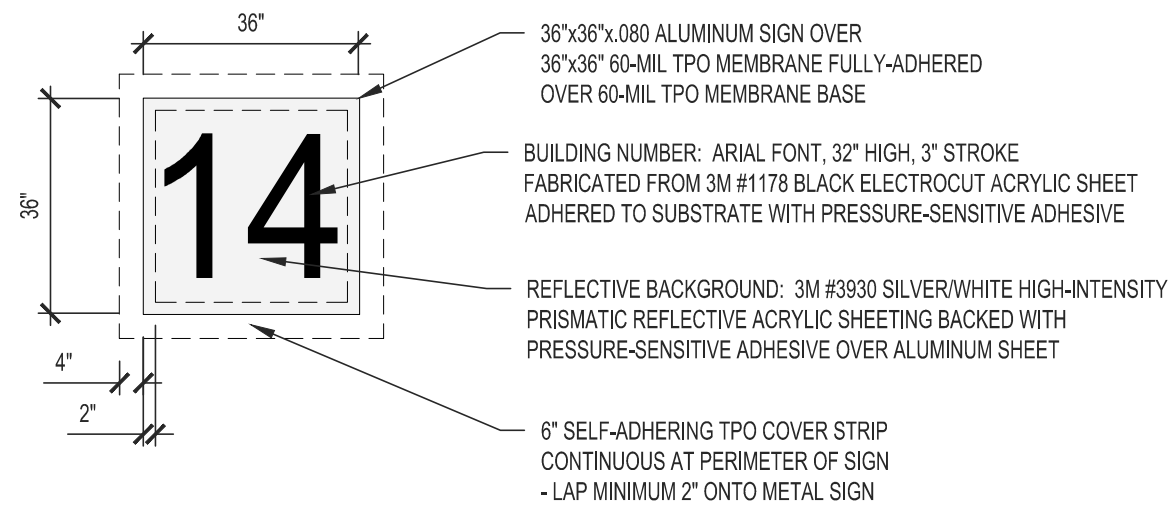




2  
A-102

## BUILDING IDENTIFICATION SIGN PLAN

NOT TO SCALE



### BUILDING IDENTIFICATION SIGNAGE NOTE:

1. LETTERING AND BACKGROUND SHALL BE REFLECTIVE.
2. SIGN SHALL BE FABRICATED FROM 36" x 36" x .080" ALUMINUM SHEET WITH SMOOTH FINISH.
3. THE CHARACTERS (BUILDING NUMBER) SHALL BE ARIAL FONT, MINIMUM 32" HIGH WITH 3" STROKE, FABRICATED FROM 3M #1178 BLACK ELECTRODUT ACRYLIC SHEET WITH PRESSURE-SENSITIVE ADHESIVE BACK APPLIED OVER REFLECTIVE BACKGROUND.
4. REFLECTIVE BACKGROUND SHALL BE 3M #3930 SILVERWHITE HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING WITH PRESSURE-SENSITIVE ADHESIVE APPLIED TO ALUMINUM SHEET.
5. SIGN SHALL BE FULLY-ADHERED TO TPO WALK PAD LAMINATED TO THE TPO MEMBRANE WITH ADHESIVE COMPATIBLE WITH THE ROOF MEMBRANE MANUFACTURER'S WARRANTY.

### KEYED ROOF REPLACEMENT NOTES: SIGN SHOP BUILDING No. 14

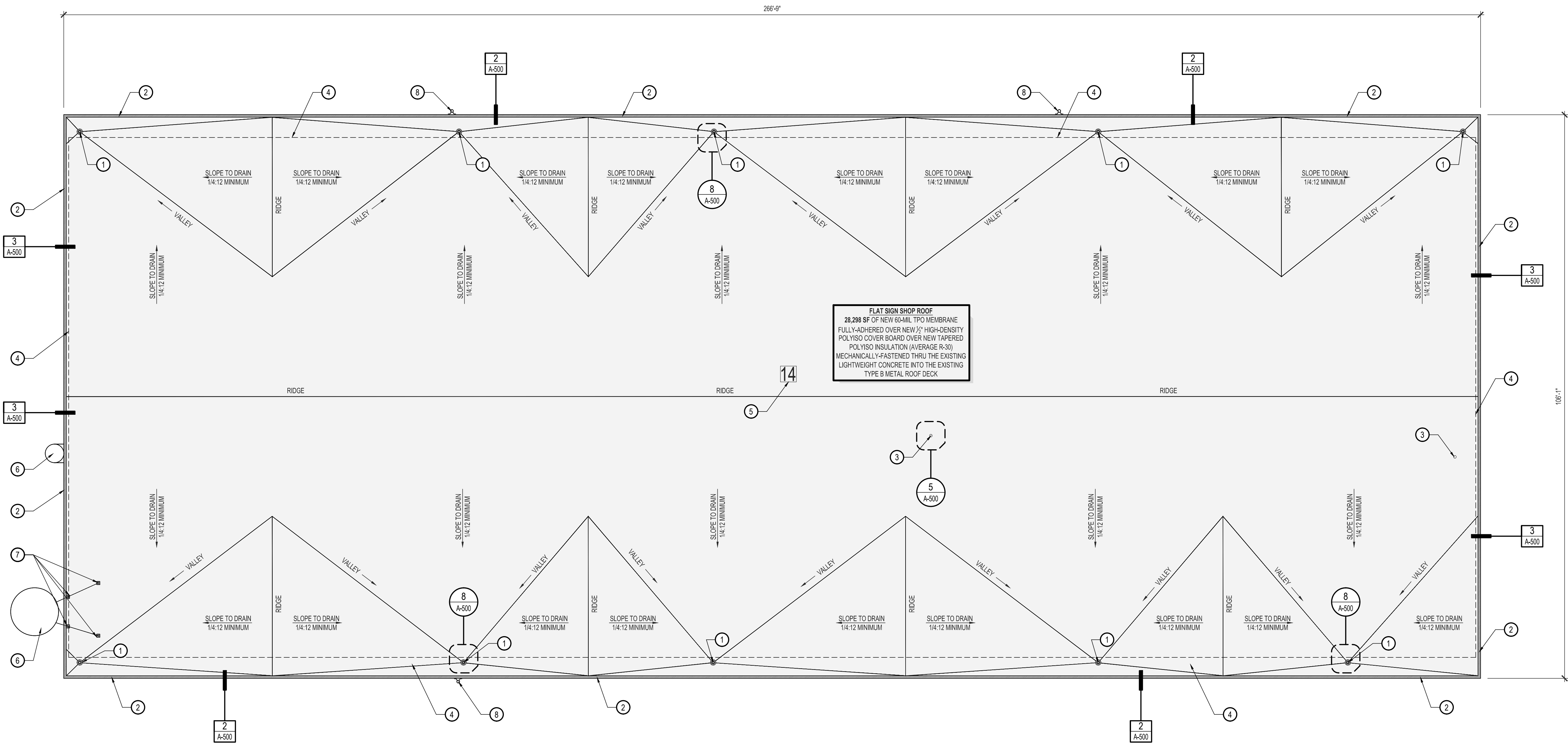
1. NEW 8" Ø DOME STRAINER OVER EXISTING ROOF DRAIN
2. EXISTING PARAPET - REPLACE DAMAGED 2x4 FRAMING AS REQUIRED
3. EXISTING 4" Ø CAST IRON VTR - EXTEND TO 18" ABOVE ROOF
4. FACE OF EXTERIOR BRICK WALL BELOW OVERHANG
5. NEW BUILDING IDENTIFICATION SIGNAGE - REFER TO BUILDING IDENTIFICATION SIGNAGE NOTE ON A-103
6. EXISTING WALL-MOUNTED EXHAUST FLUE TO REMAIN
7. EXISTING EXHAUST FLUE SUPPORT INTO ROOF-MOUNTED PITCH POCKET - TYPICAL OF 4 LOCATIONS
8. EXISTING WALL-MOUNTED EXHAUST FLUE TO REMAIN

### ROOF REPLACEMENT NOTES: SIGN SHOP BUILDING No. 14

1. MINIMUM FLAT ROOF SLOPE: 1/4" PER FOOT.
2. MINIMUM AVERAGE R-VALUE R-30 (FLAT ROOF AREA)
3. WIND UPLIFT RATING: FM 1A-90
4. FIRE-RESISTANCE RATING: UL CLASS C

### EXISTING CONDITIONS

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1  
A-102

## SIGN SHOP - ROOF REPLACEMENT PLAN

SCALE: 3/32" = 1'-0"

ASSET NUMBER - 9327005029

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY: 000827  
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MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01

SITE No. 7005

ASSET No. 9327005029

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

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

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

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

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

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

ISSUE DATE: 11/11/2022

CAD DWG FILE: C1913-01-7005-9327005029-A-102.dwg

DRAWN BY: BDC

CHECKED BY: BDC

DESIGNED BY: BDC

SHEET TITLE:

SIGN SHOP BUILDING No. 14

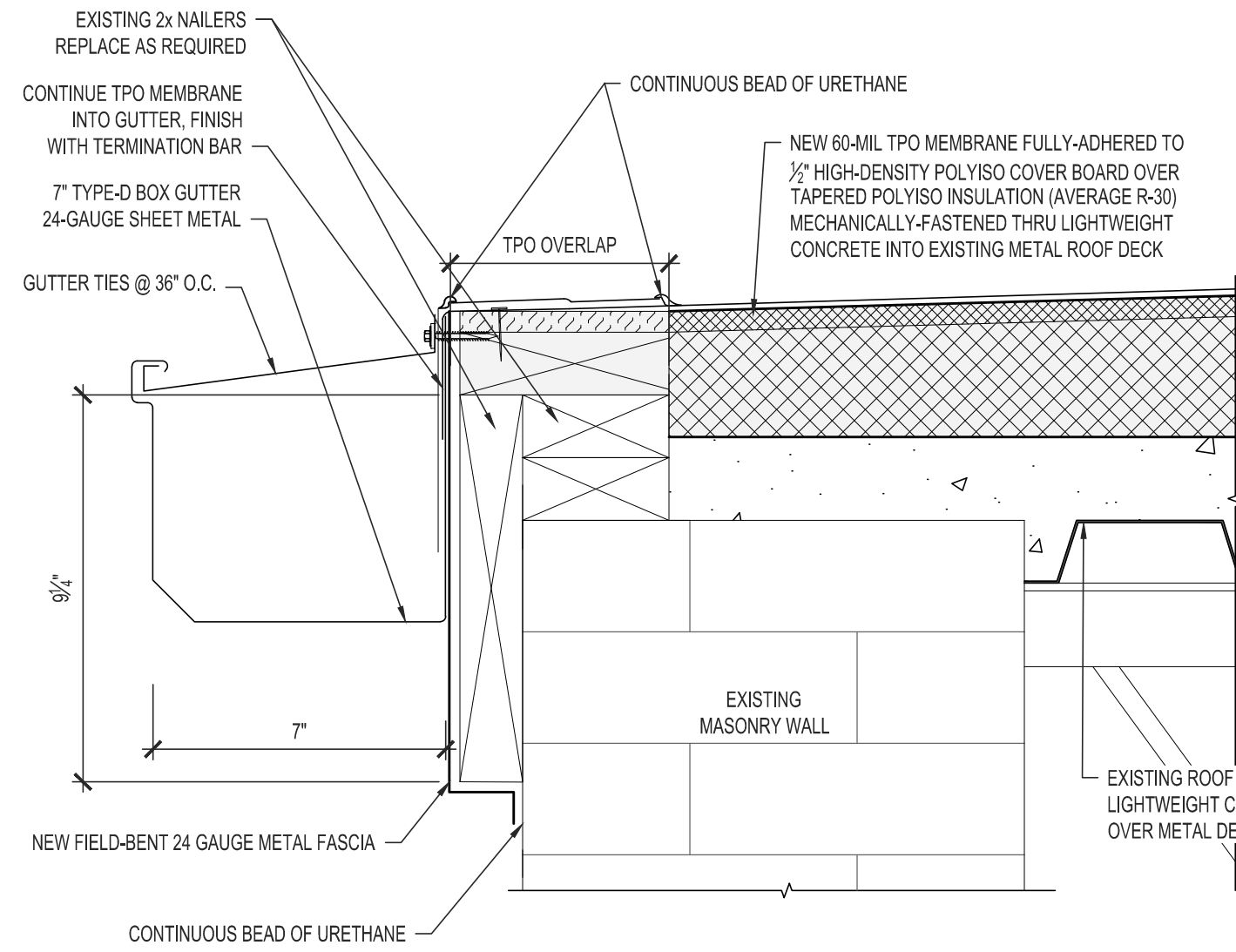
ROOF REPLACEMENT PLAN

SHEET NUMBER:

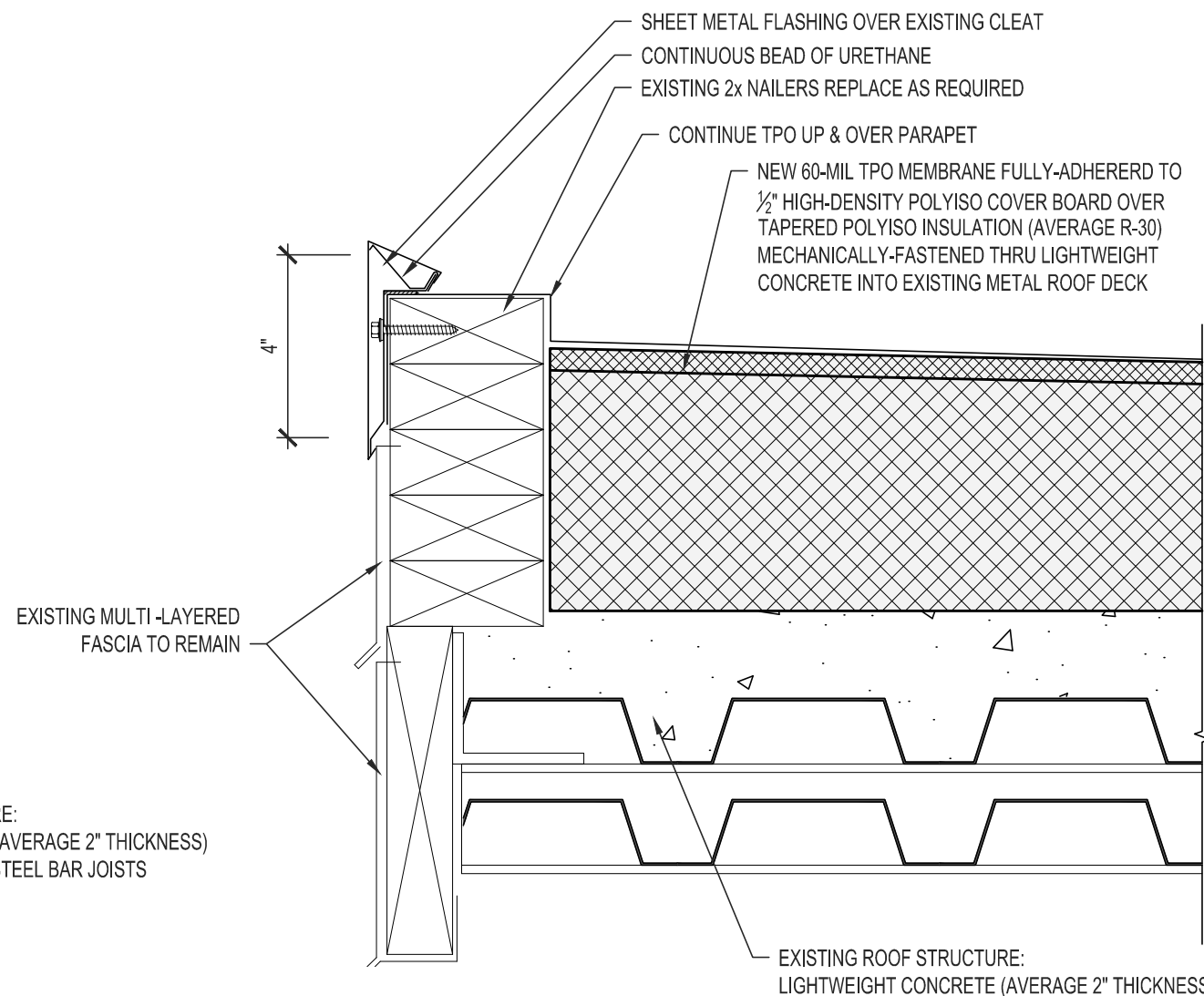
# A-102

SHEET 8 OF 11

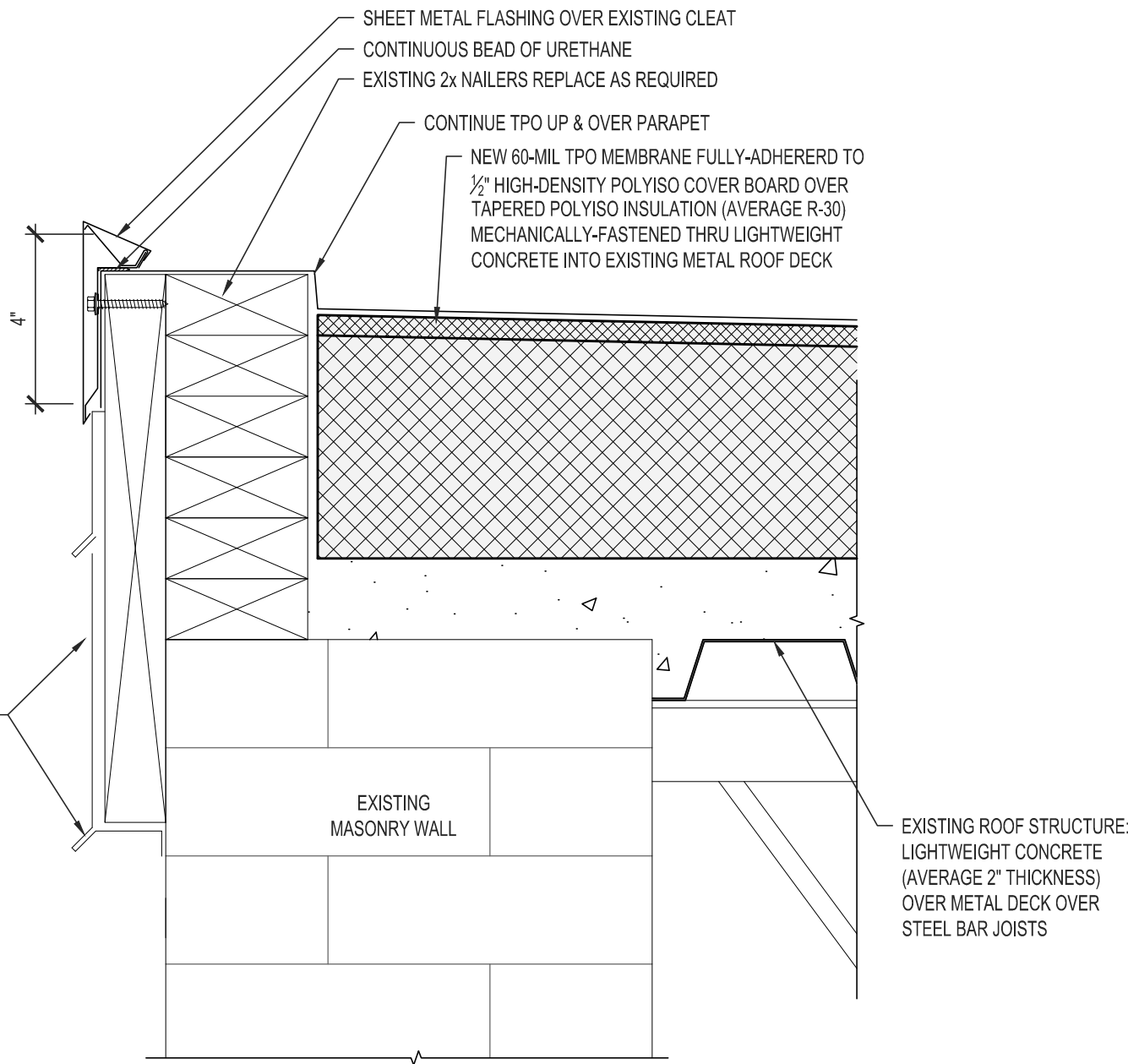
ISSUE DATE: 11/11/2022



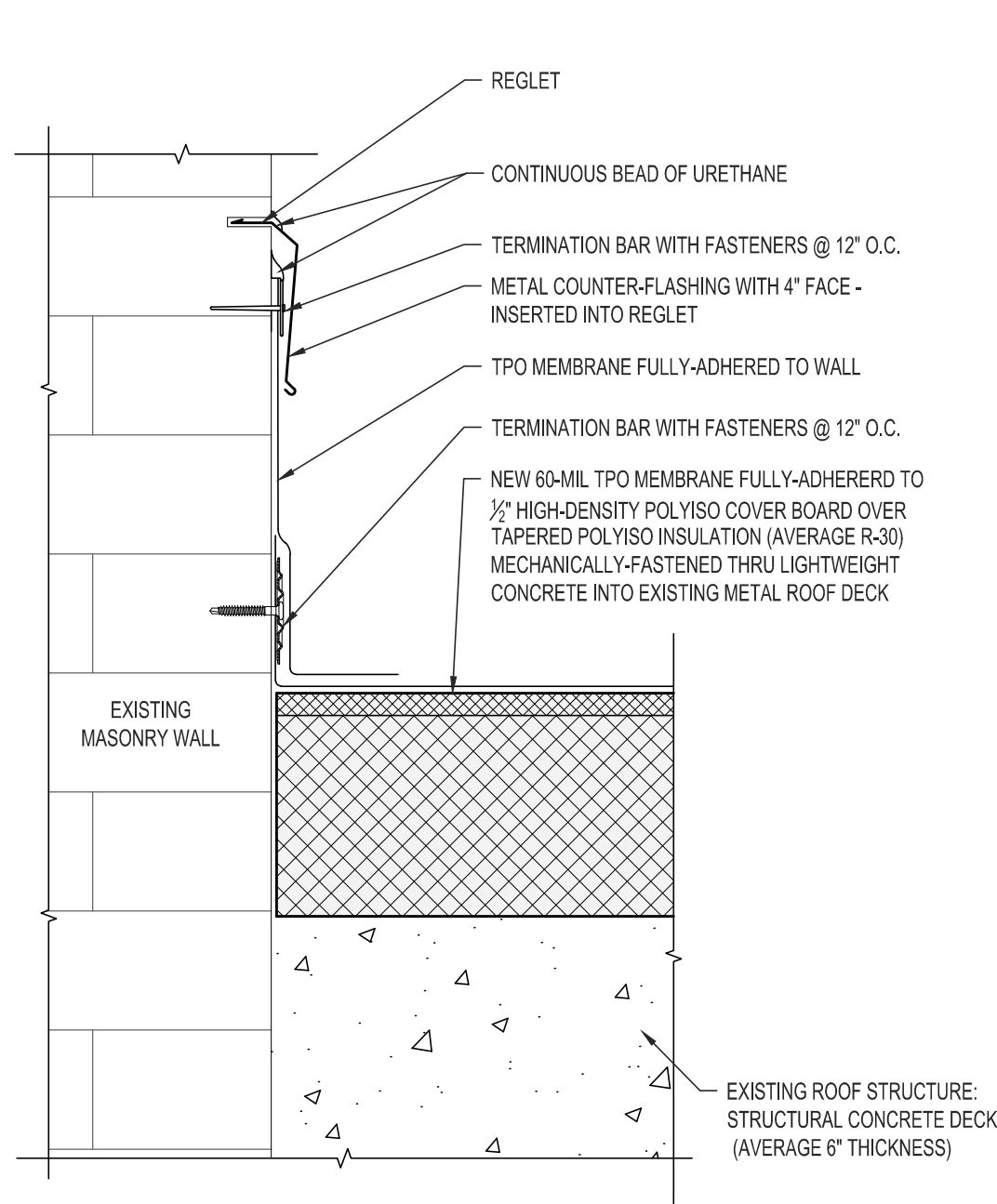
1 FLAT ROOF-TO-GUTTER DETAIL  
SCALE: 3" = 1'-0"



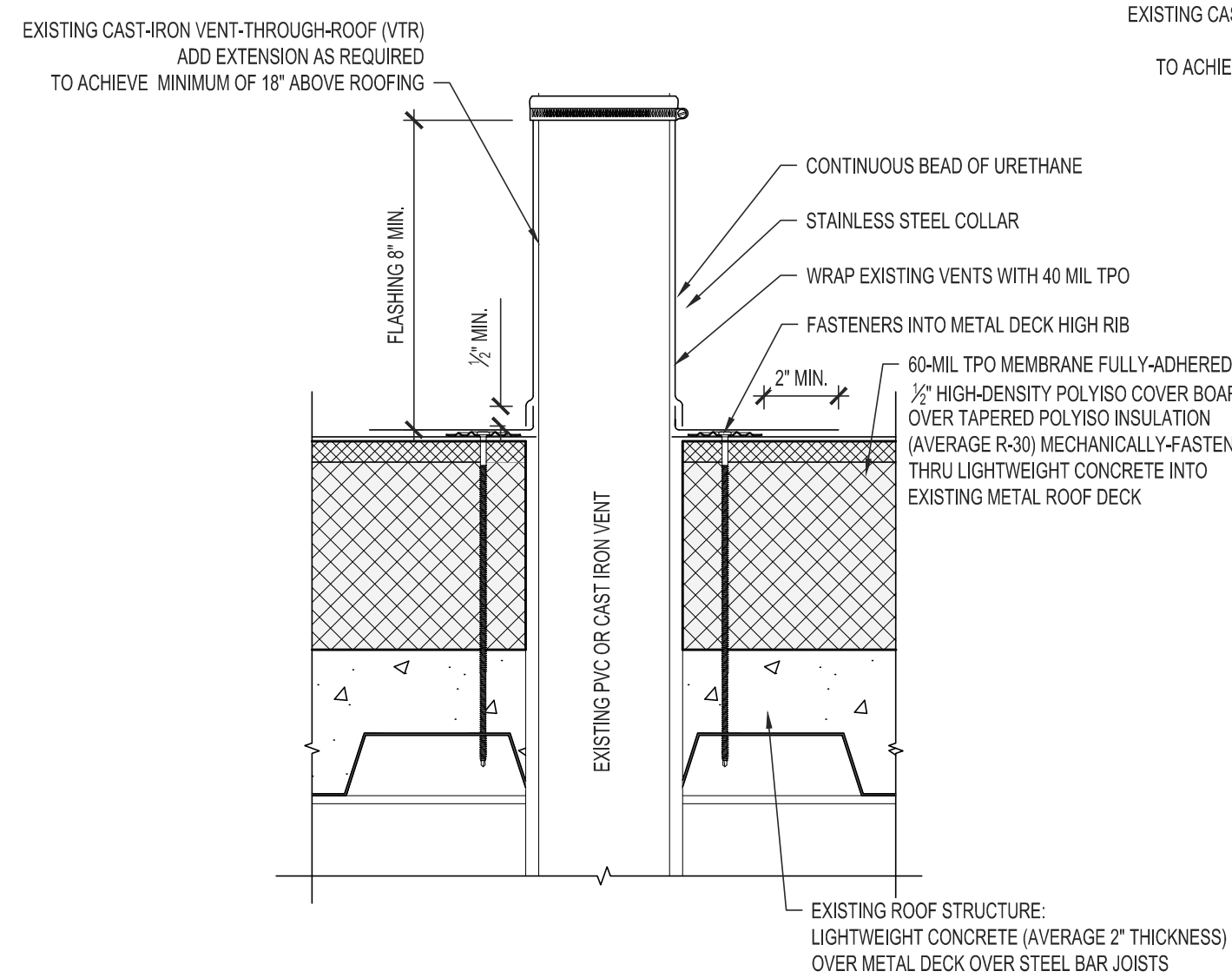
2 FLAT ROOF EDGE @ OVERHANG DETAIL  
SCALE: 3" = 1'-0"



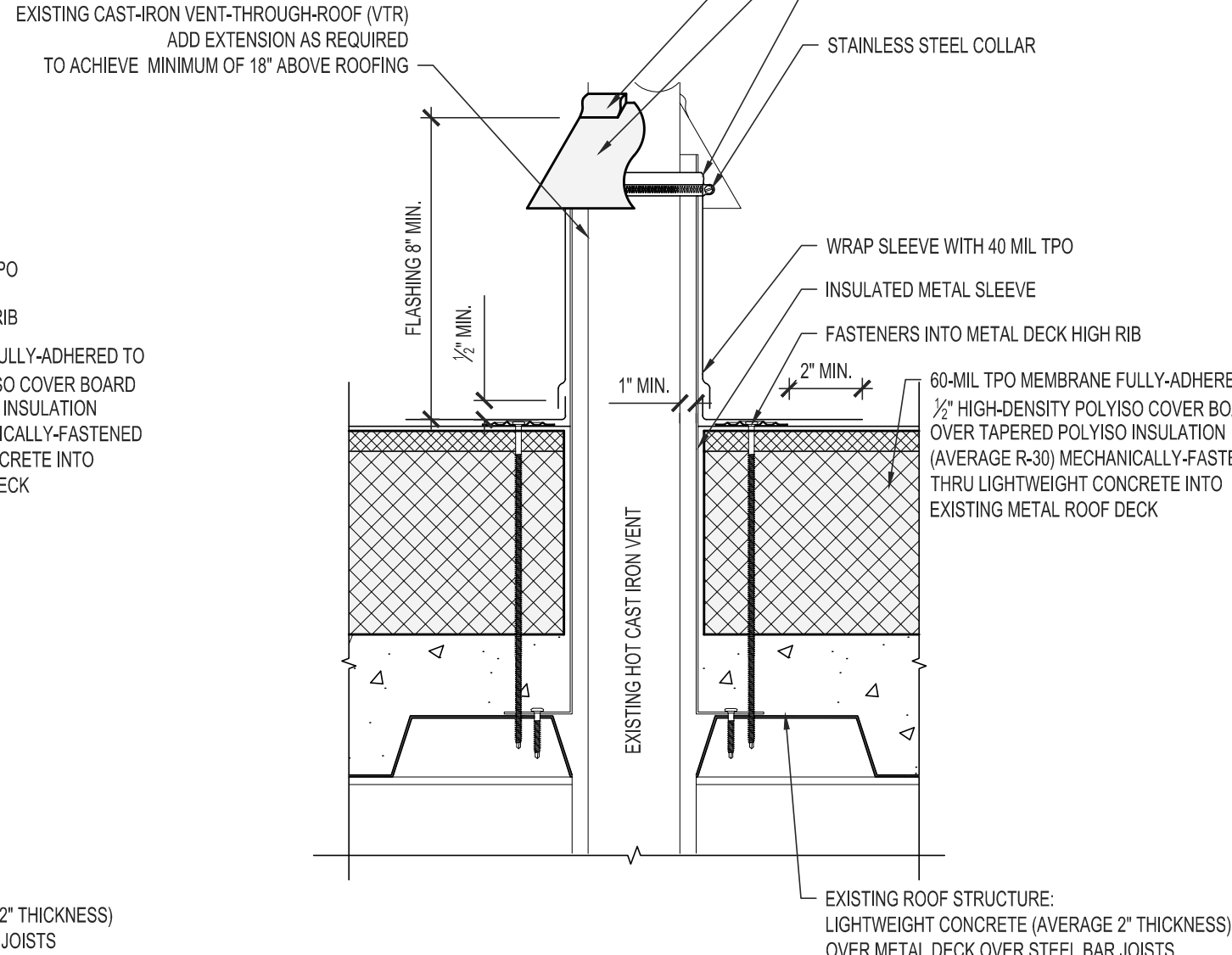
3 FLAT ROOF EDGE @ WALL DETAIL  
SCALE: 3" = 1'-0"



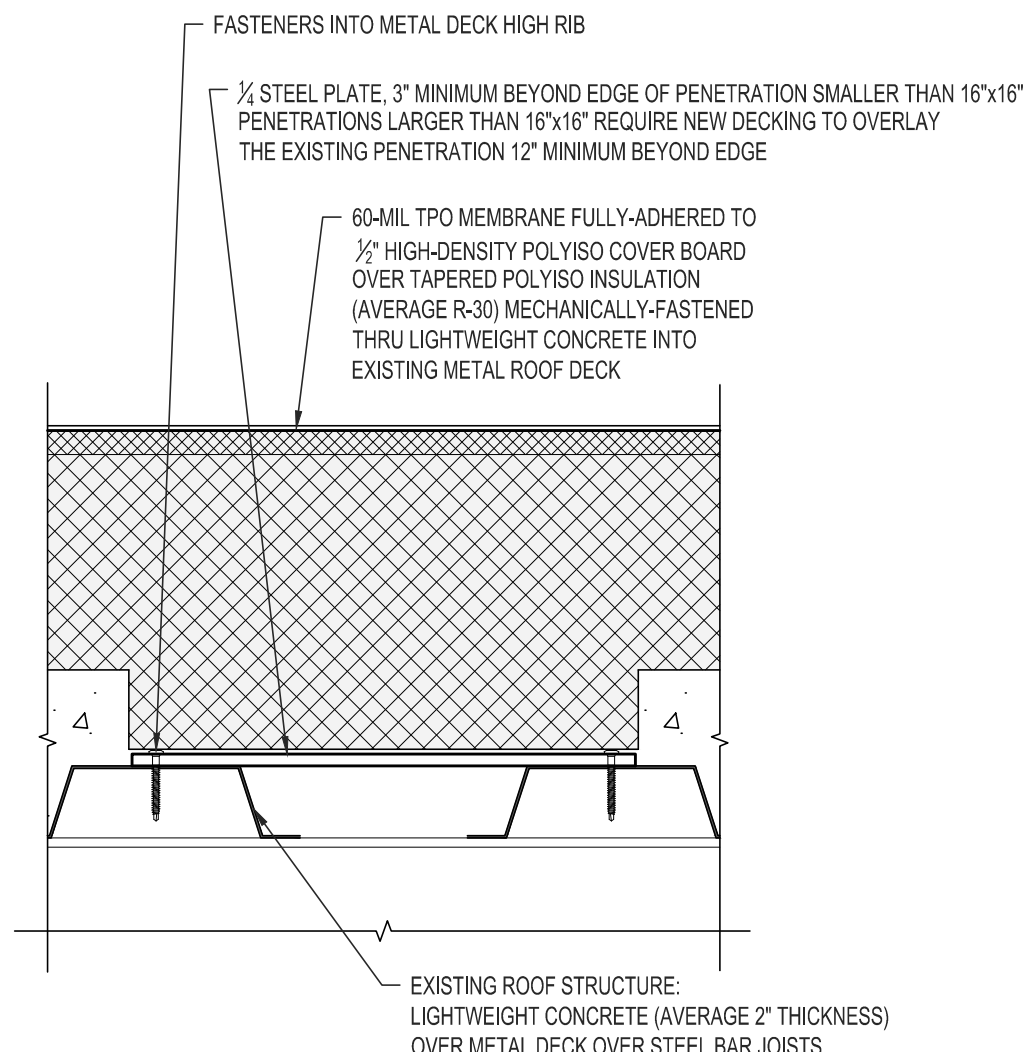
4 FLAT ROOF-TO-MASONRY WALL DETAIL  
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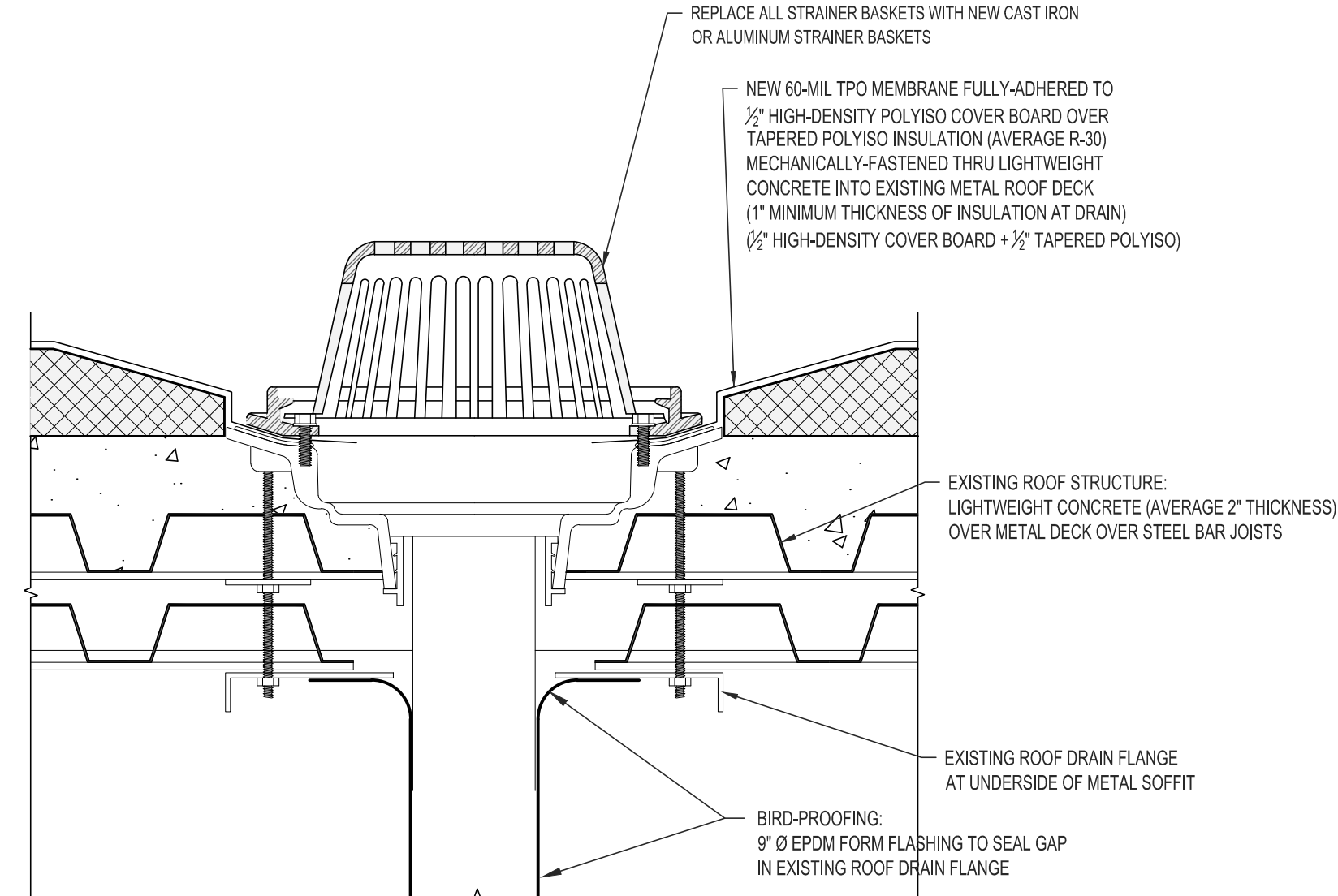
5 PLUMBING VENT FLASHING DETAIL  
SCALE: 3" = 1'-0"



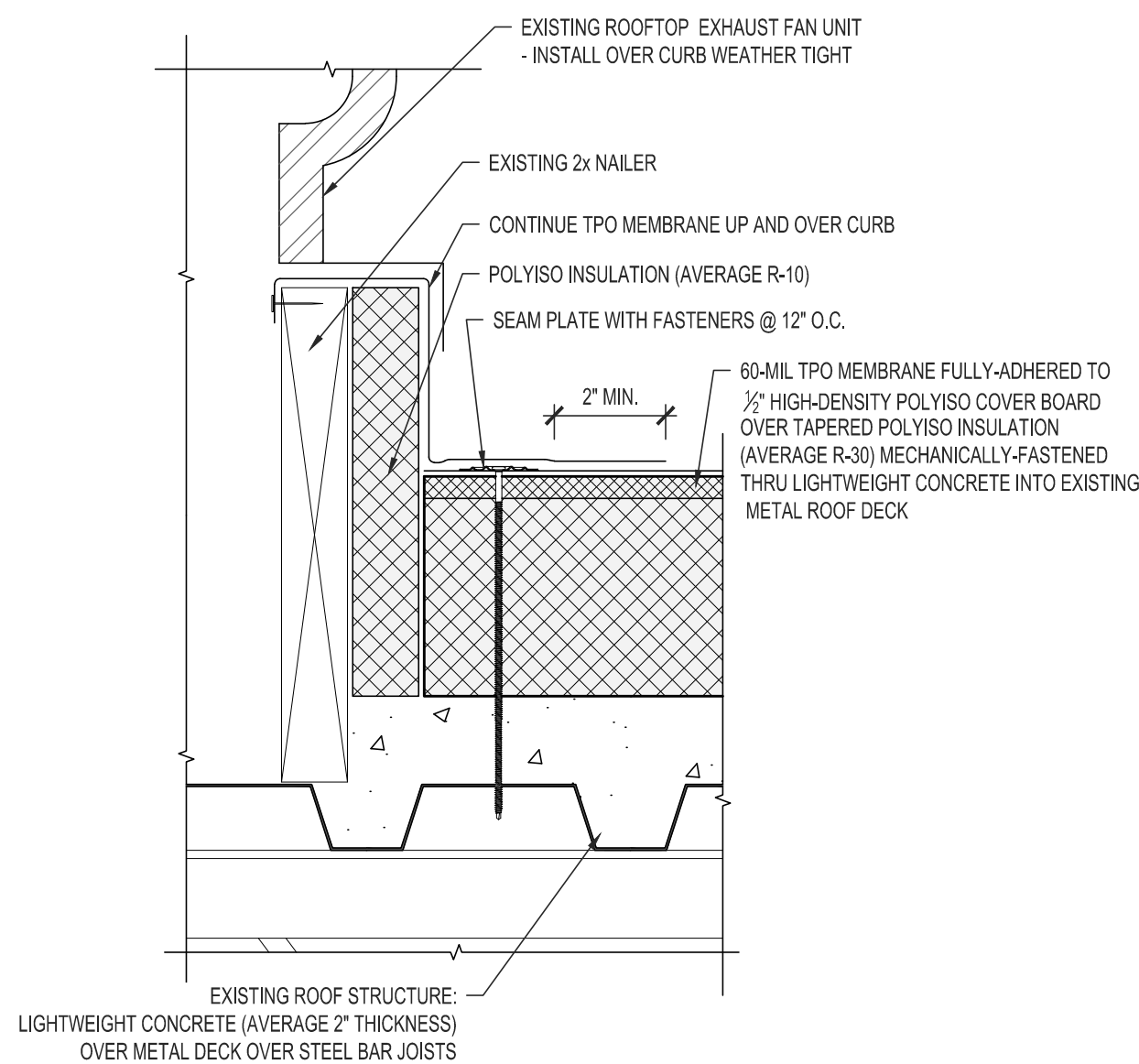
6 HOT STACK FLASHING DETAIL  
SCALE: 3" = 1'-0"



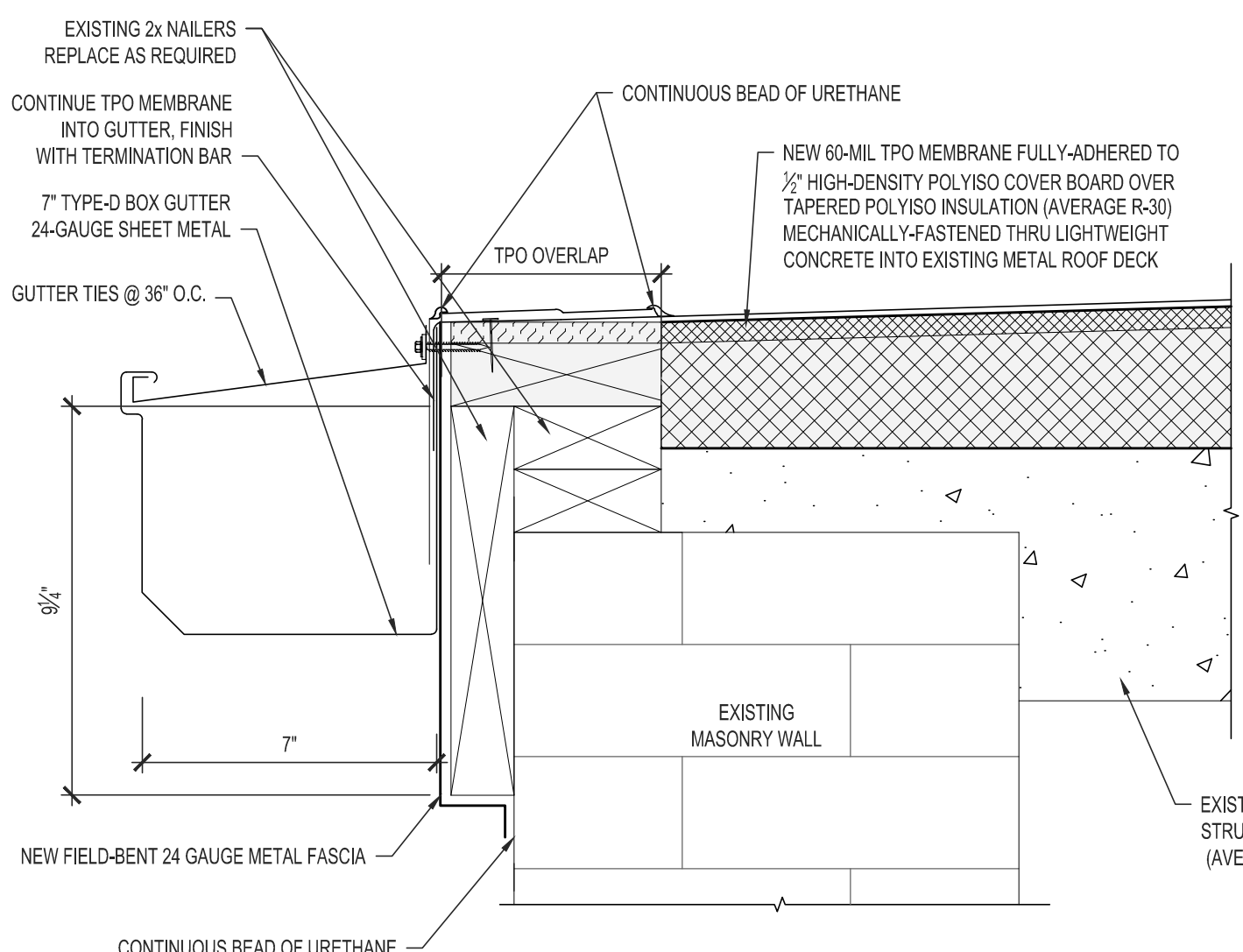
7 ROOF DECK REPAIR DETAIL  
SCALE: 3" = 1'-0"



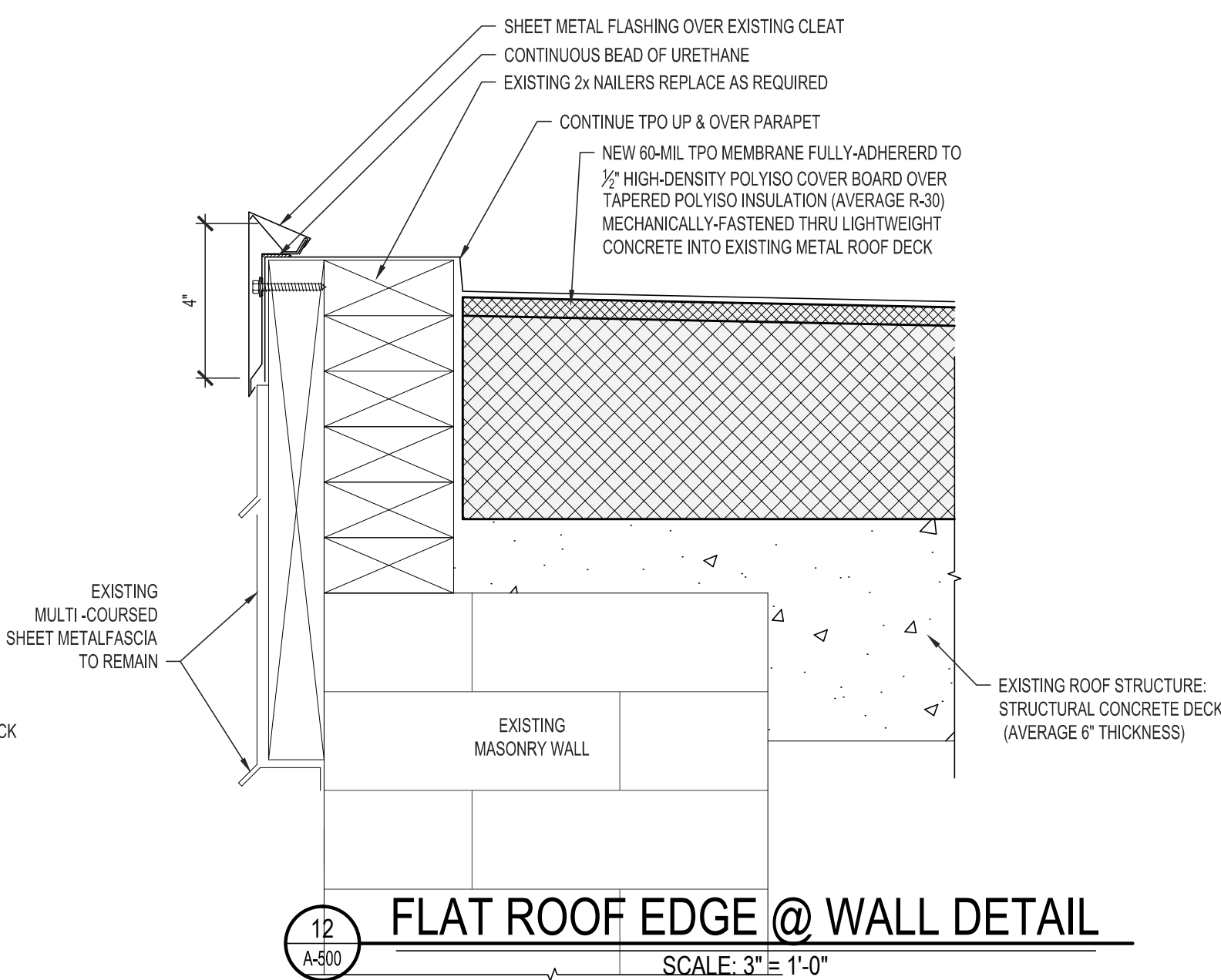
8 FLAT ROOF DRAIN DETAIL  
SCALE: 3" = 1'-0"



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



11 FLAT ROOF-TO-GUTTER DETAIL  
SCALE: 3" = 1'-0"



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

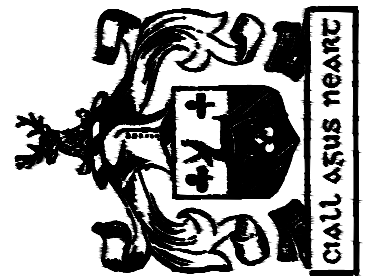
9 NOT USED  
NO SCALE

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01

SITE No. 7005

ASSET No. 9327005022, 9327005023,  
9327005024, 9327005029

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 11/11/2022

CAD DWG FILE:  
C1913-01-7005-A-500  
DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

SHEET TITLE:

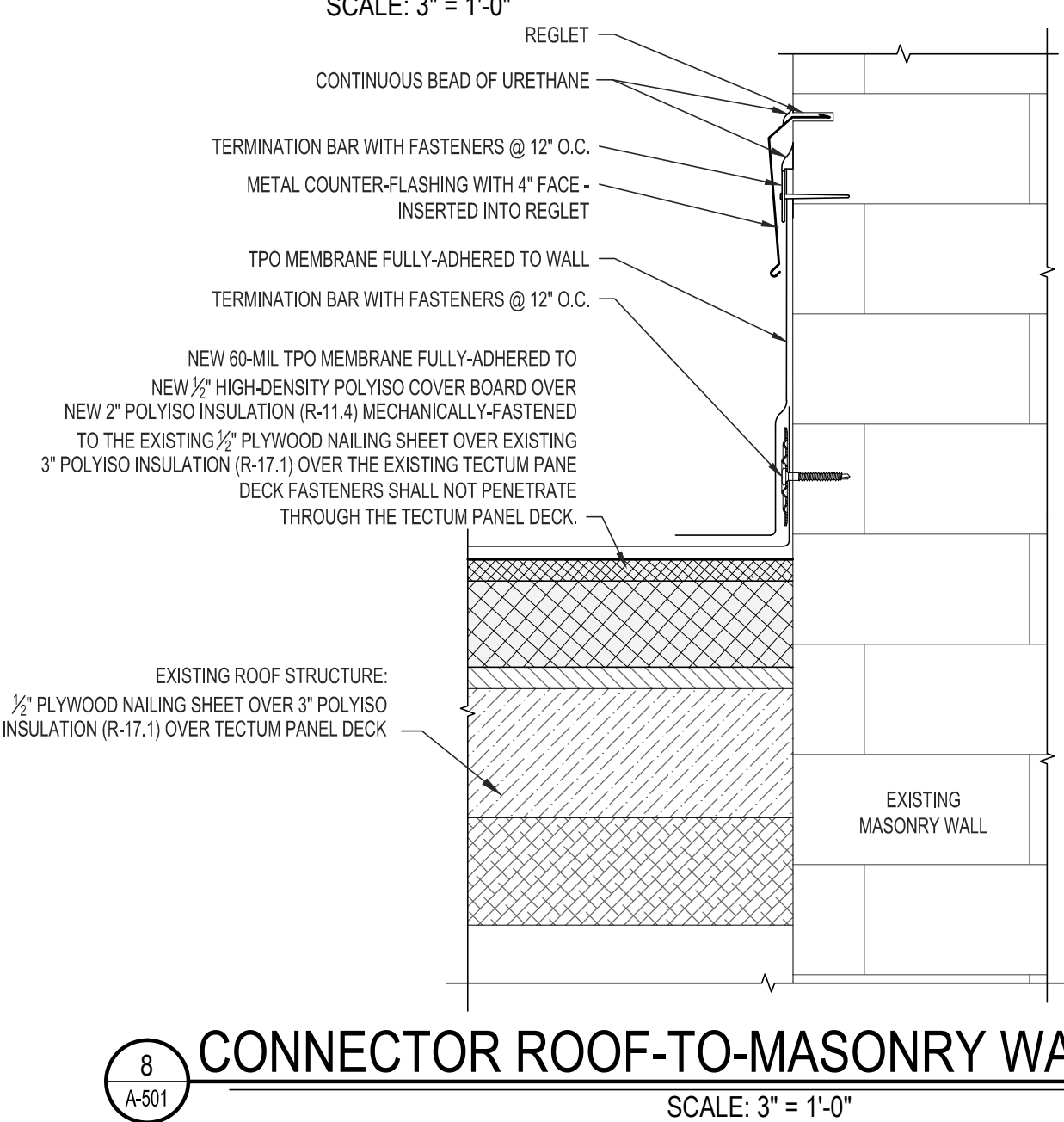
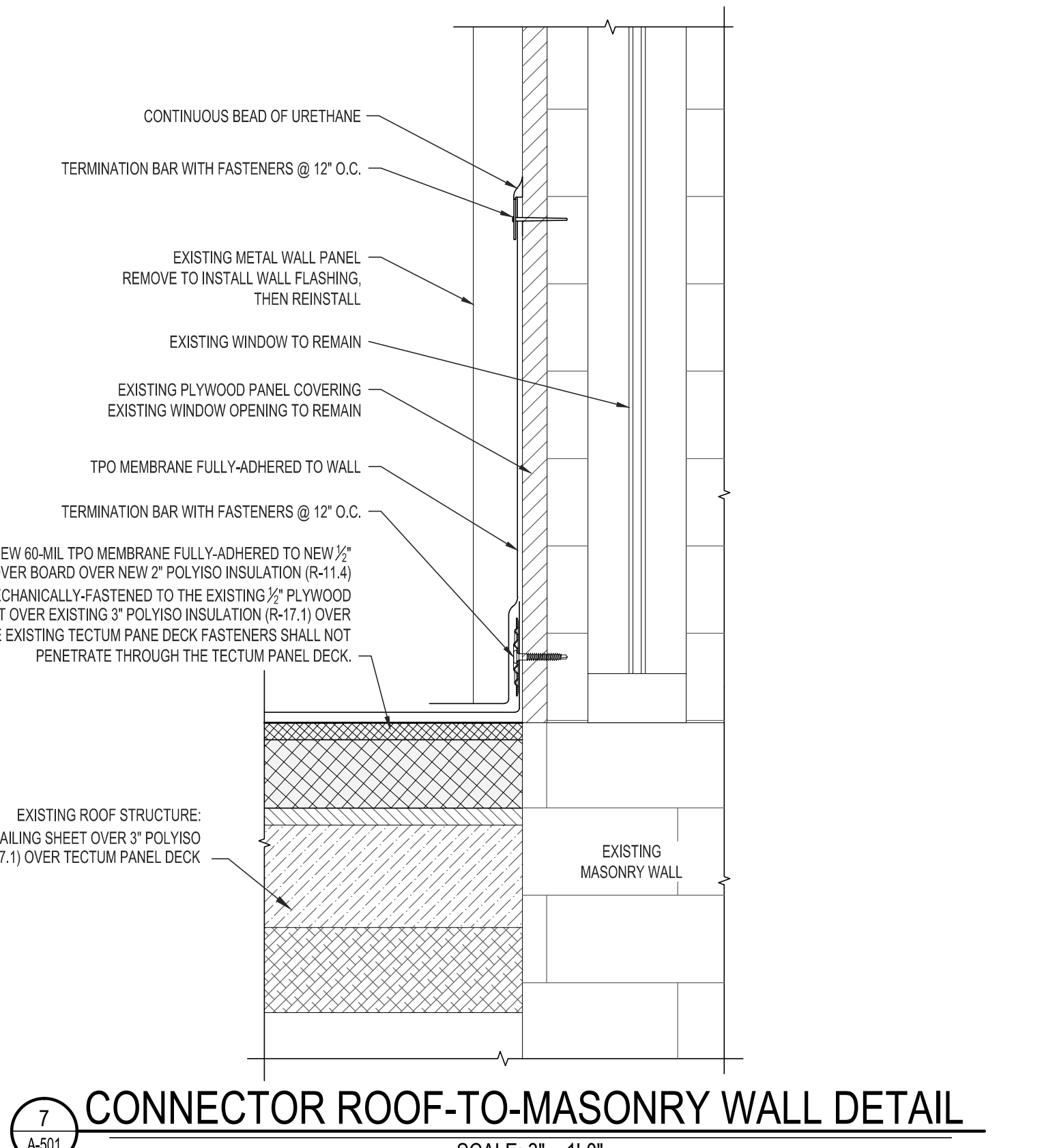
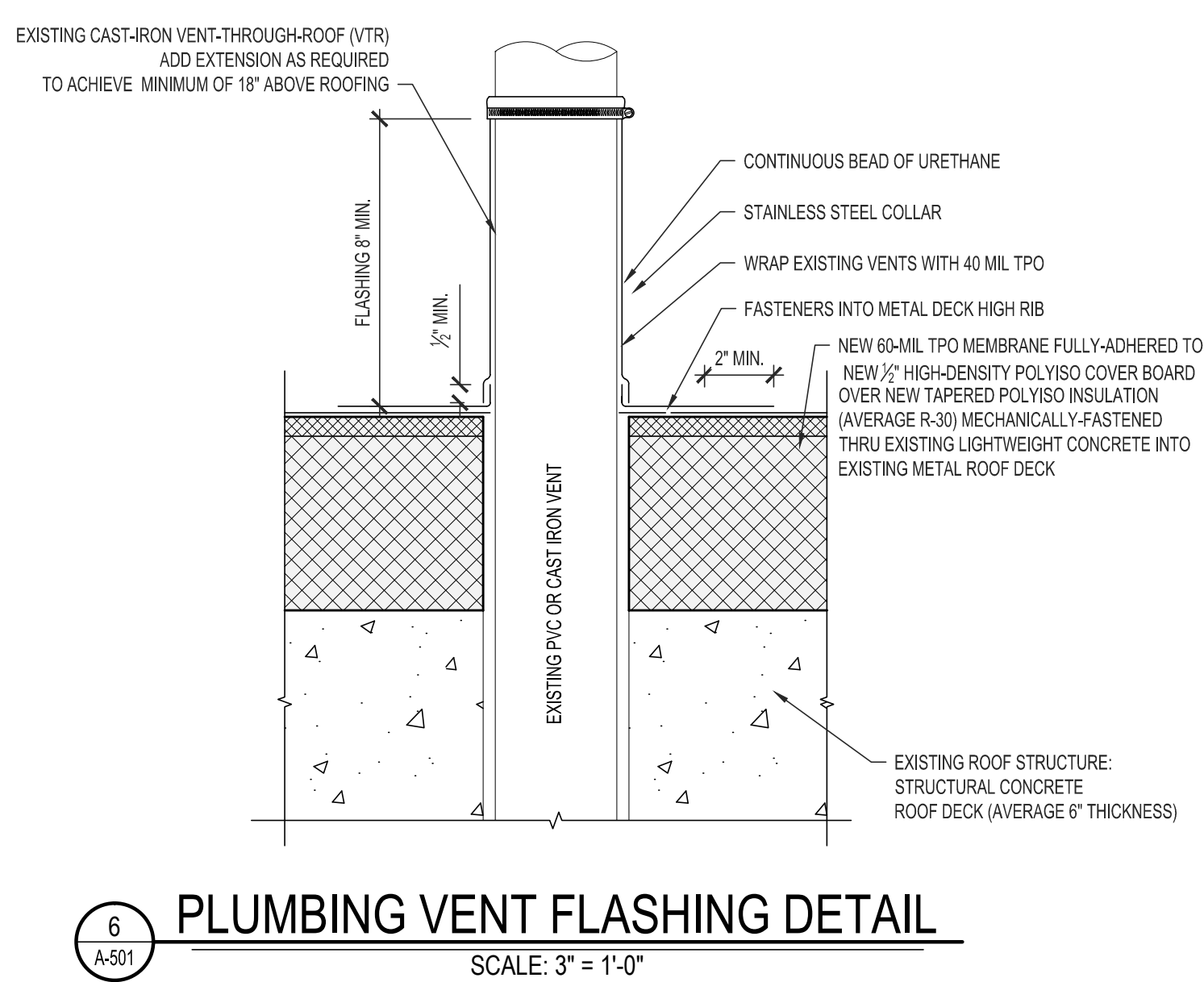
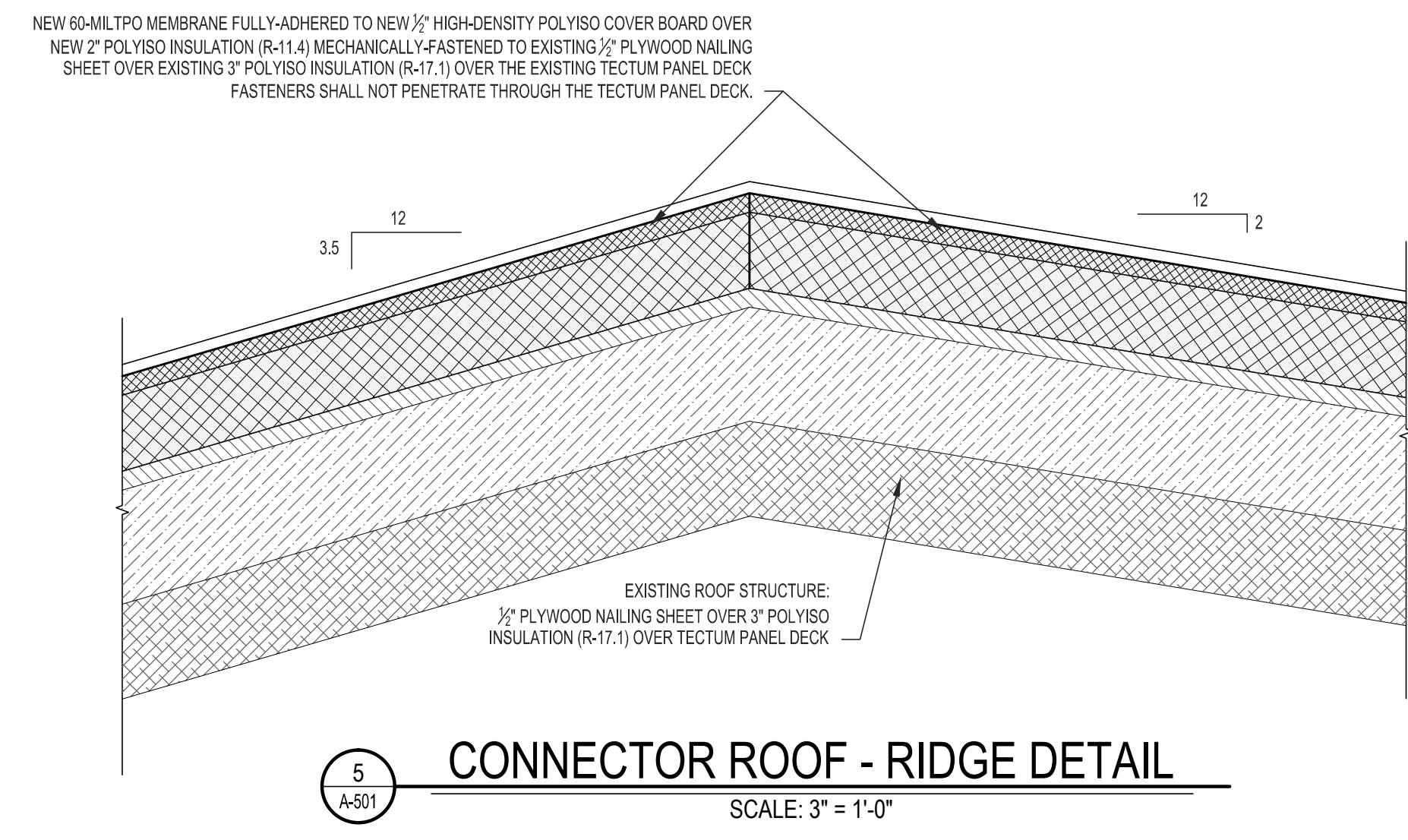
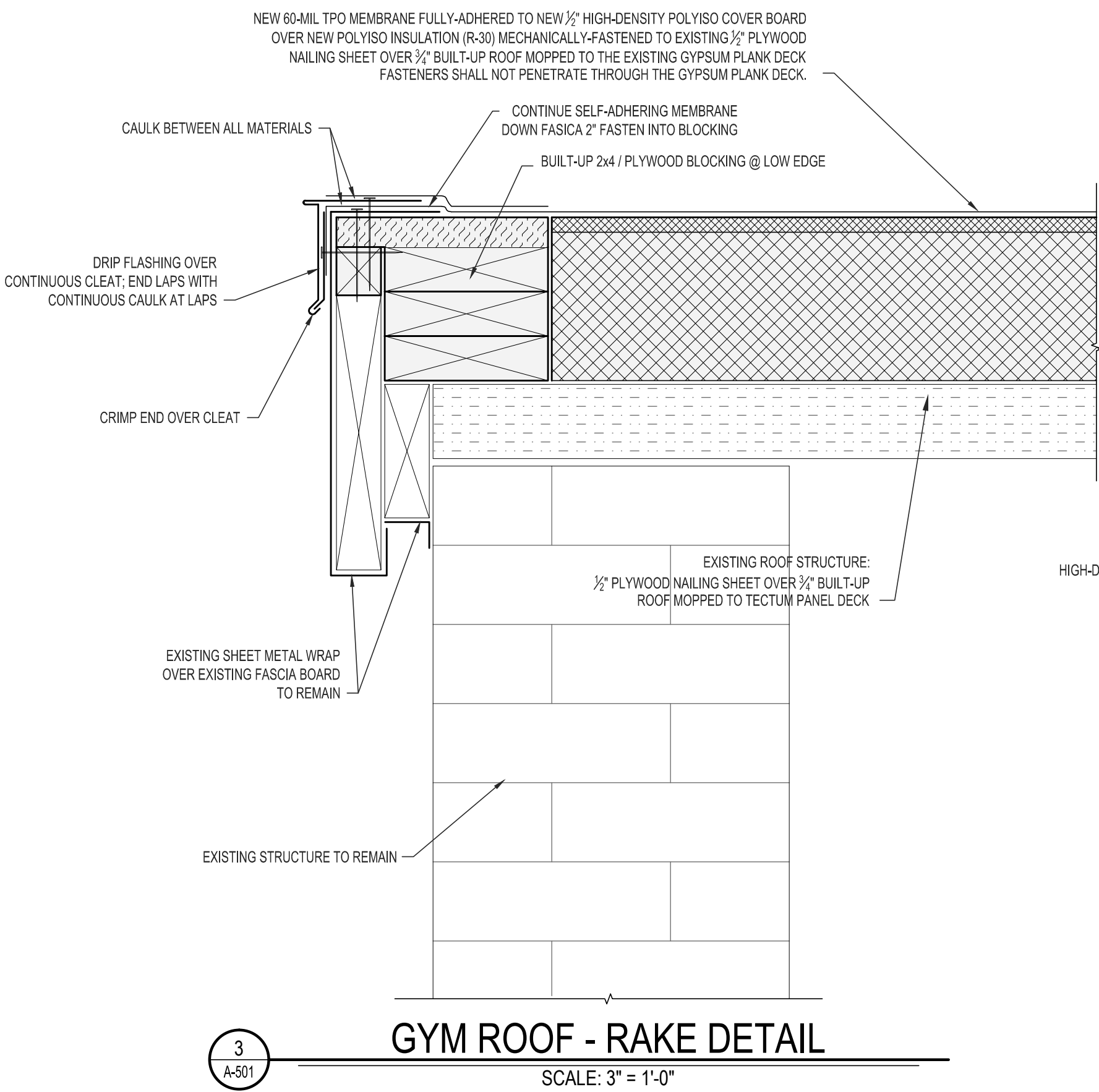
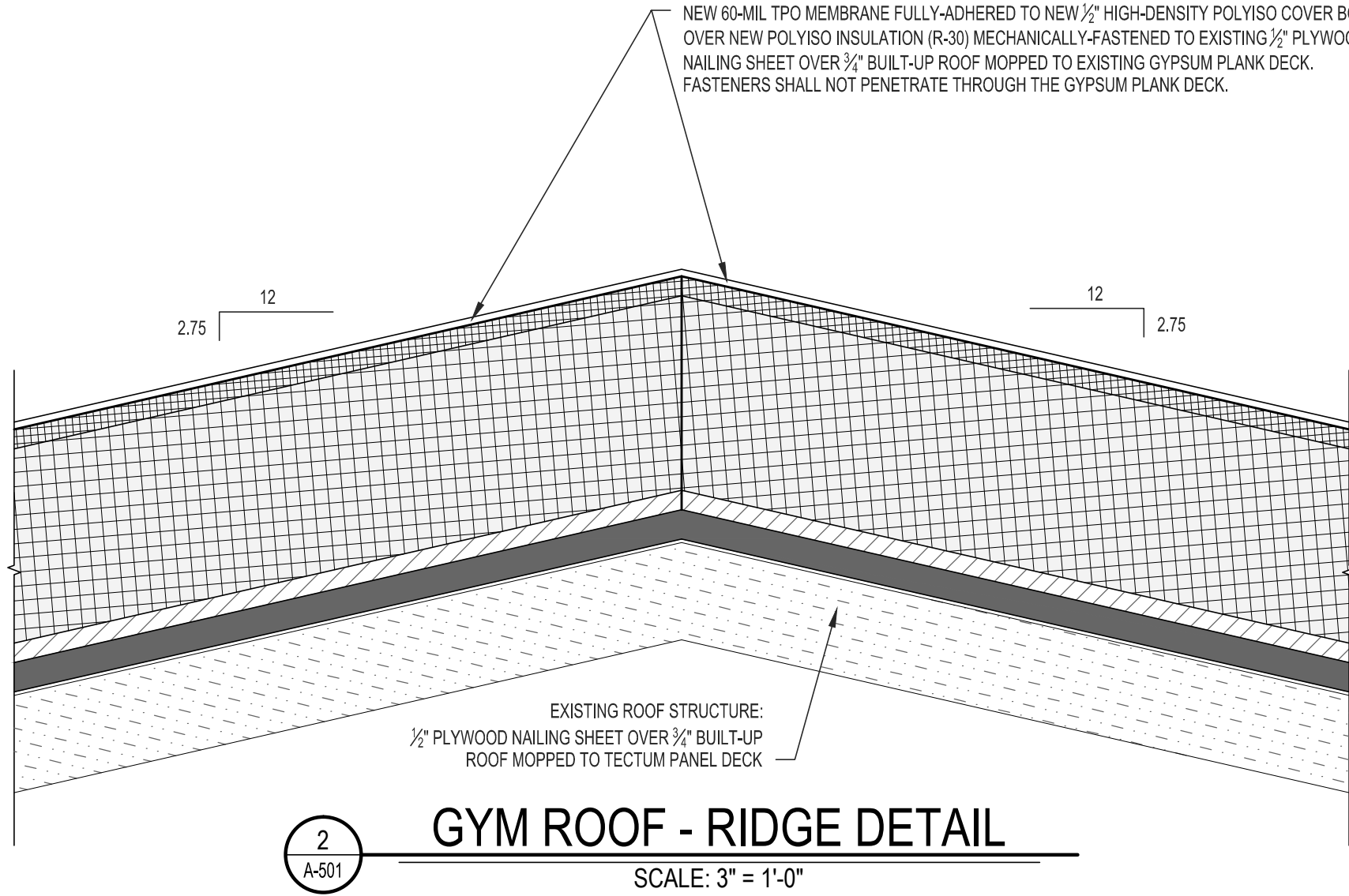
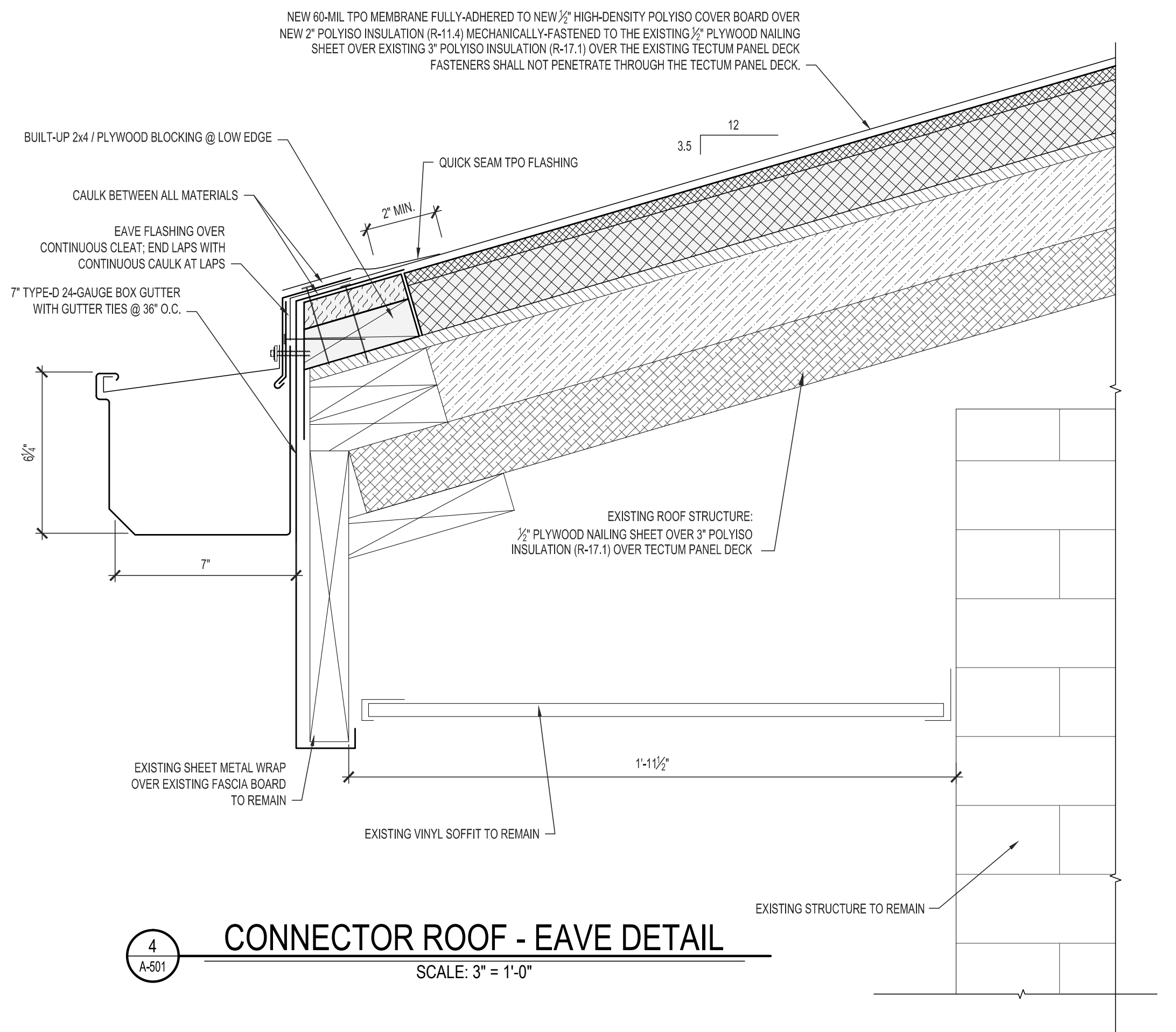
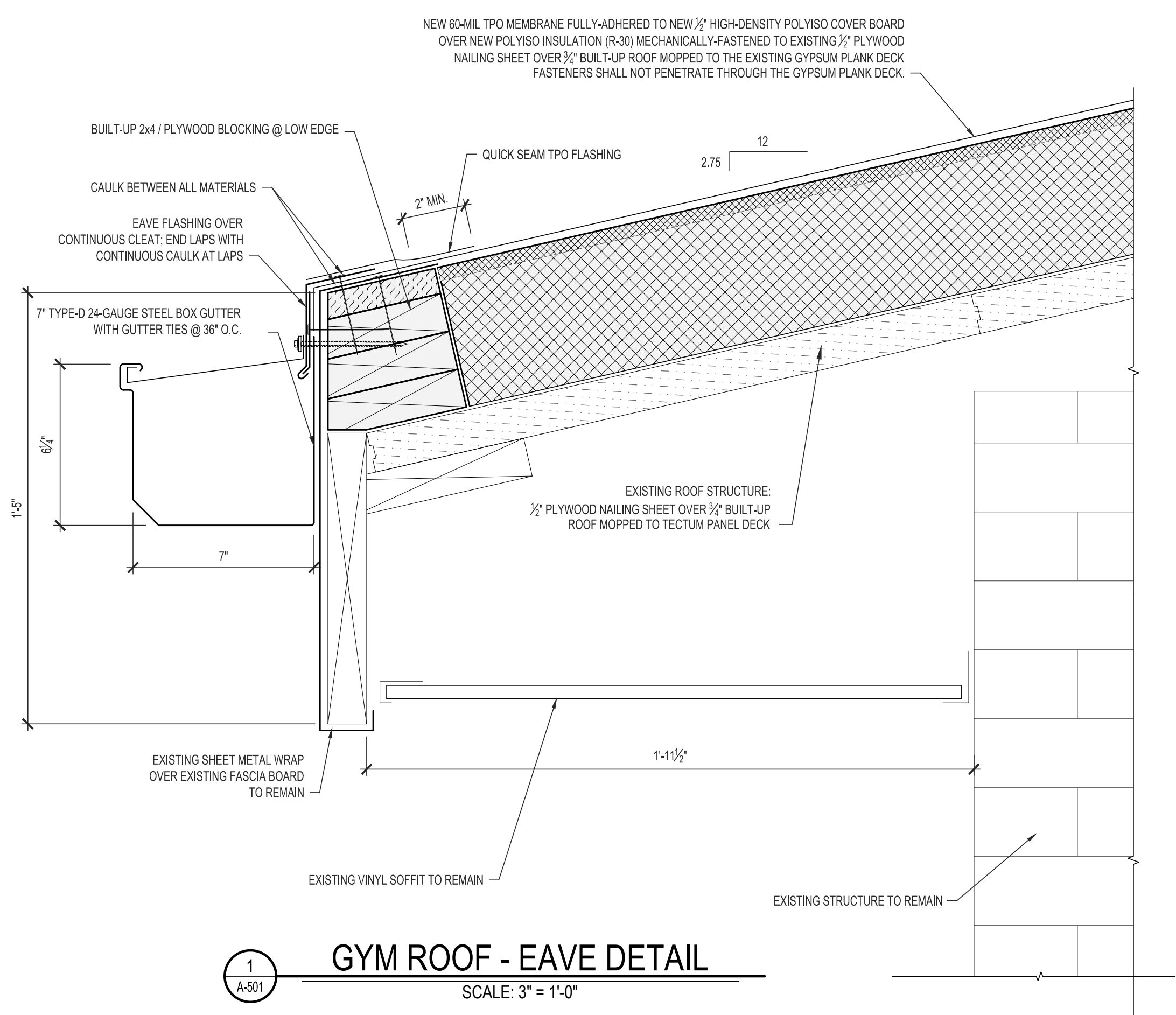
FLAT ROOF  
TPO DETAILS

SHEET NUMBER:

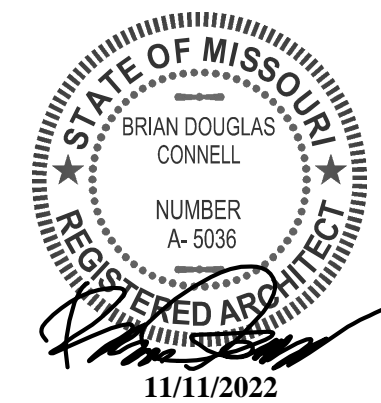
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SHEET 9 OF 11  
ISSUE DATE: 11/11/2022



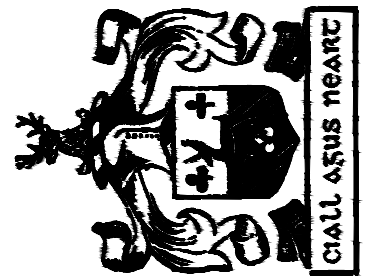


STATE OF MISSOURI  
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9327005023,9327005024

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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 11/11/2022

CAD DWG FILE:  
C1913-01-7005-A-501  
DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

SHEET TITLE:

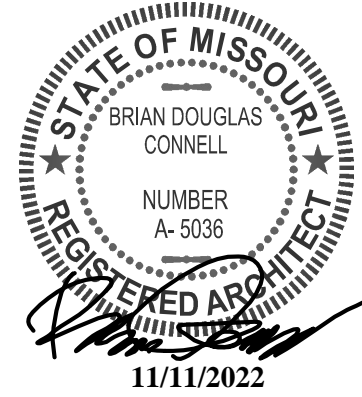
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A-501

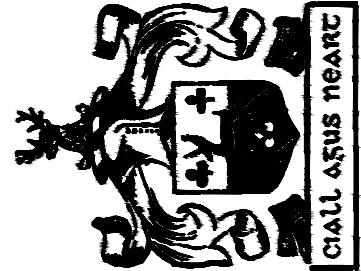
SHEET 10 OF 11  
ISSUE DATE: 11/11/2022





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OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT, DESIGN  
AND CONSTRUCTION

MISSOURI DEPARTMENT  
OF CORRECTIONS

REPLACE ROOFS -  
4 BUILDINGS

MOBERLY CORRECTIONAL  
CENTER

5201 SOUTH MORLEY ST  
MOBERLY, MO 65233

PROJECT No. C1913-01

SITE No. 7005

ASSET No. 9327005024

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:

ISSUE DATE: 11/11/2022

CAD DWG FILE:  
C1913-01-7005-A-502  
DRAWN BY: BDC  
CHECKED BY: BDC  
DESIGNED BY: BDC

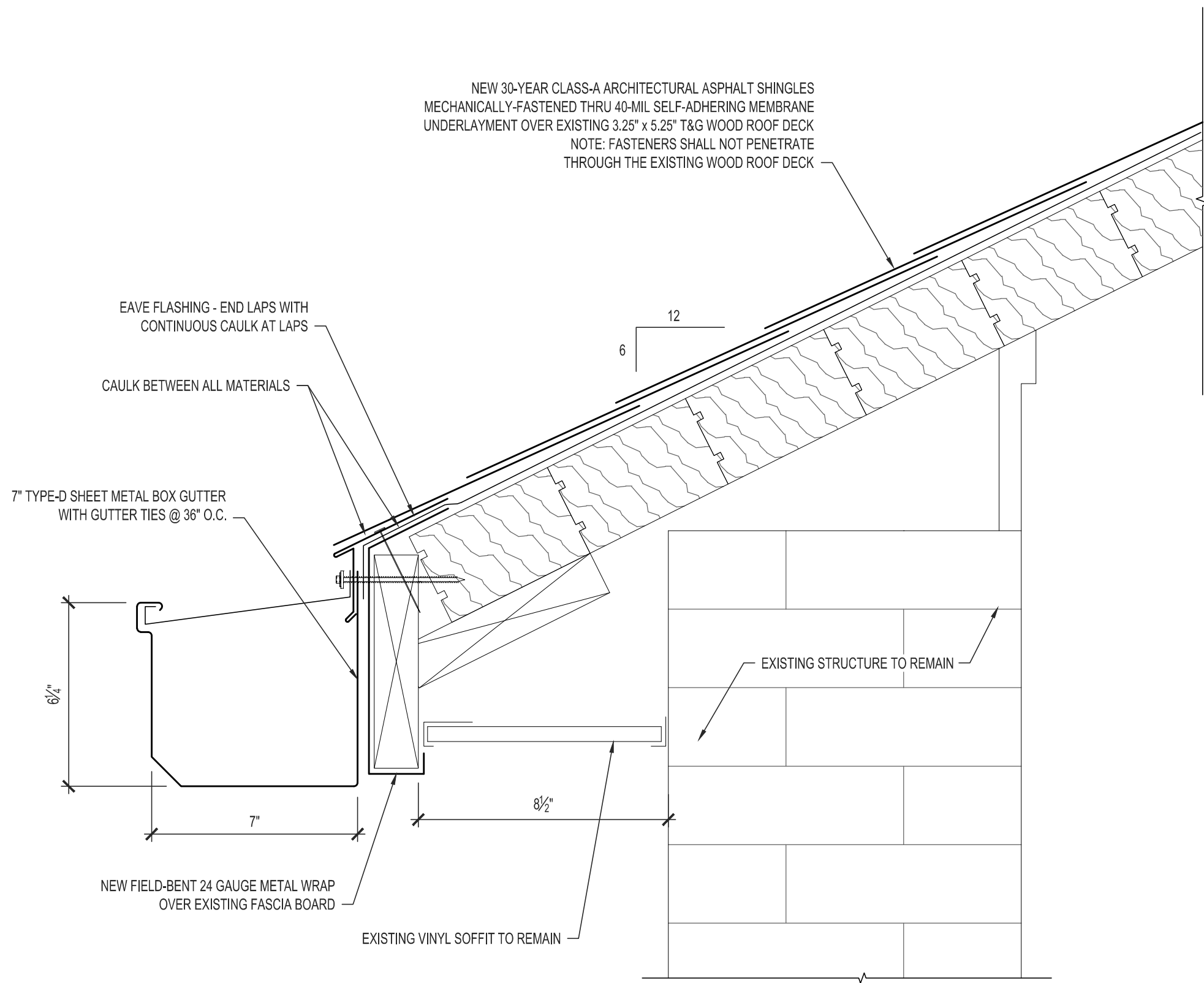
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SLOPED ROOF  
SHINGLE DETAILS

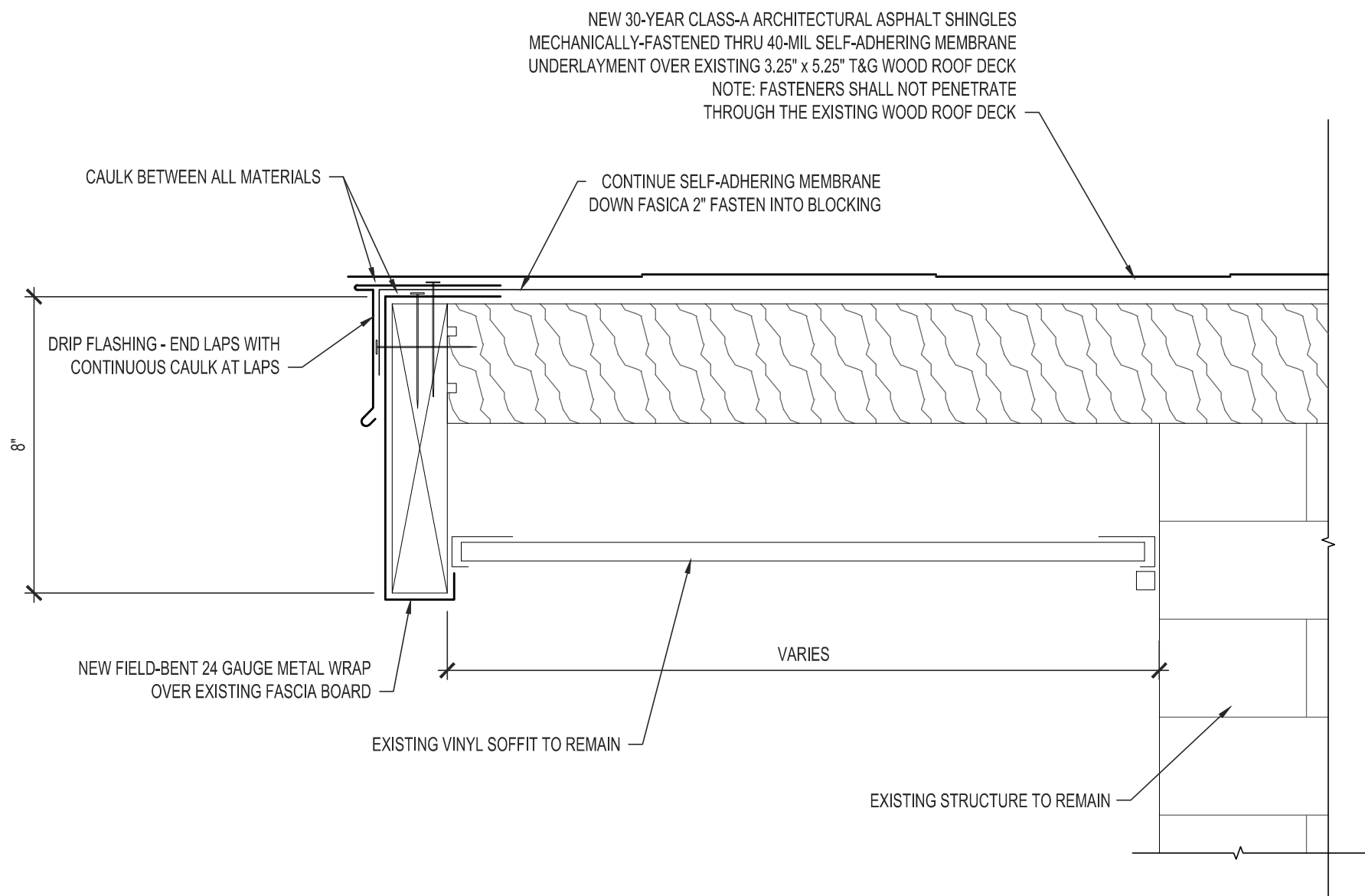
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A-502

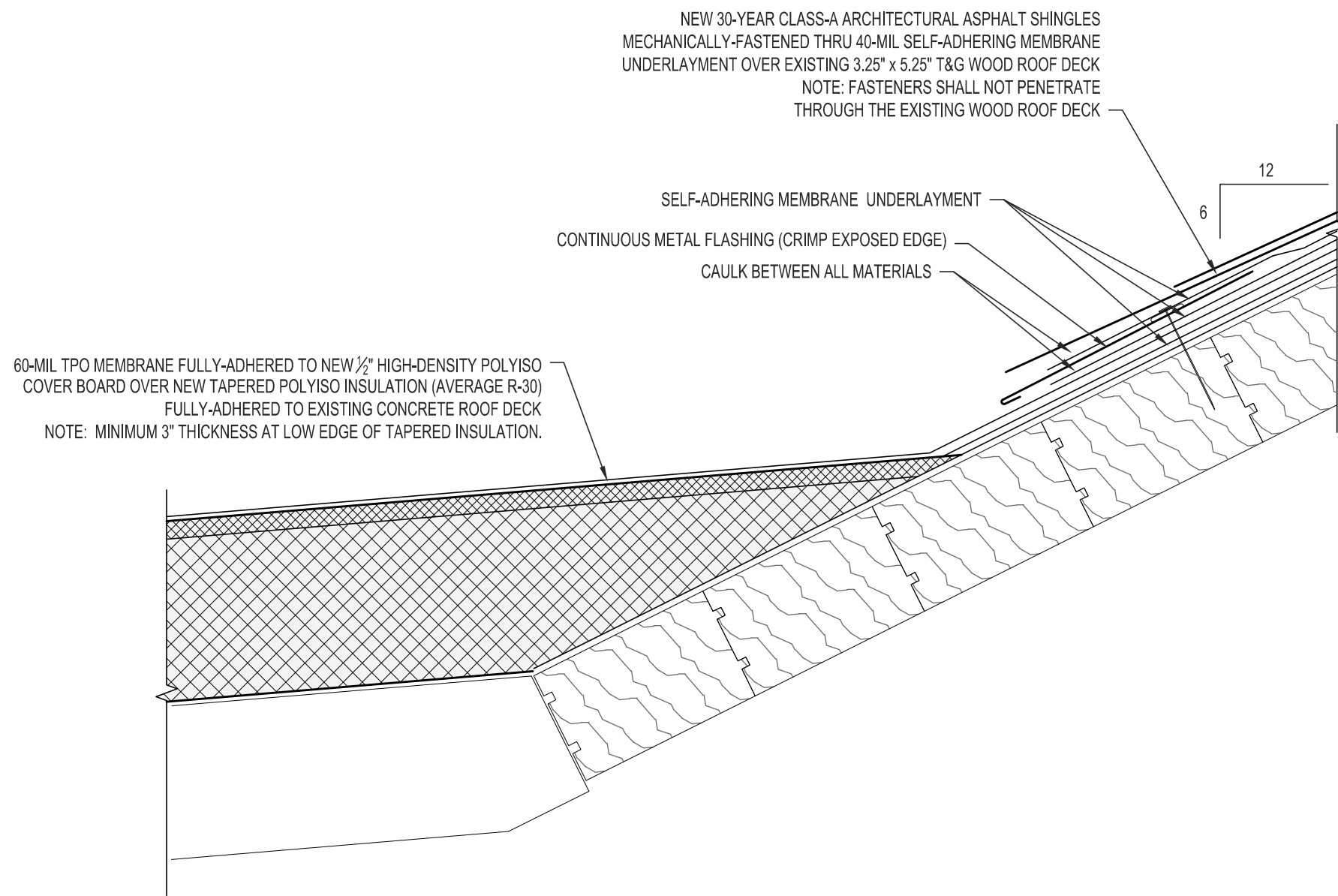
SHEET 11 OF 11  
ISSUE DATE: 11/11/2022



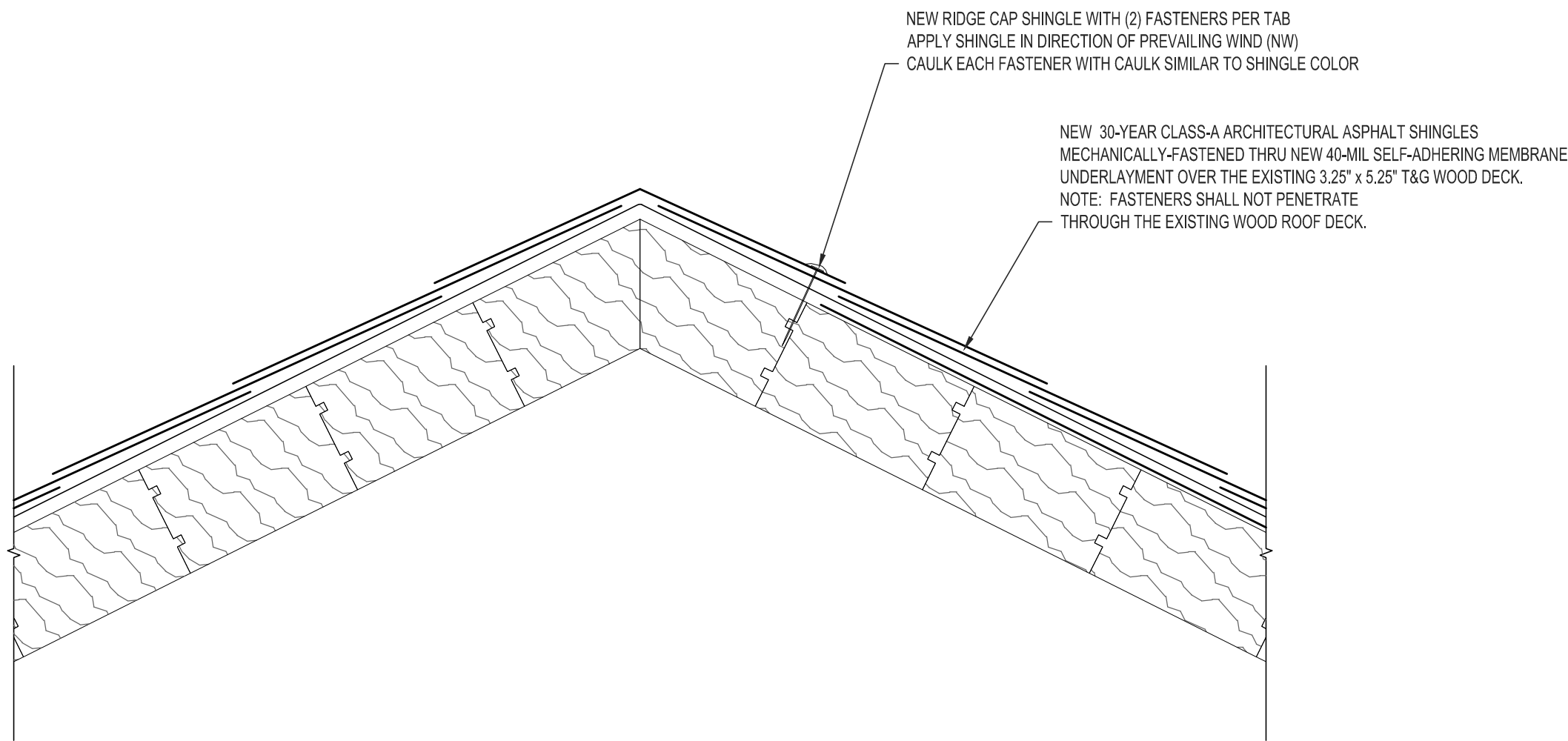
1  
A-502  
SLOPED CHAPEL ROOF - EAVE DETAIL  
SCALE: 3" = 1'-0"



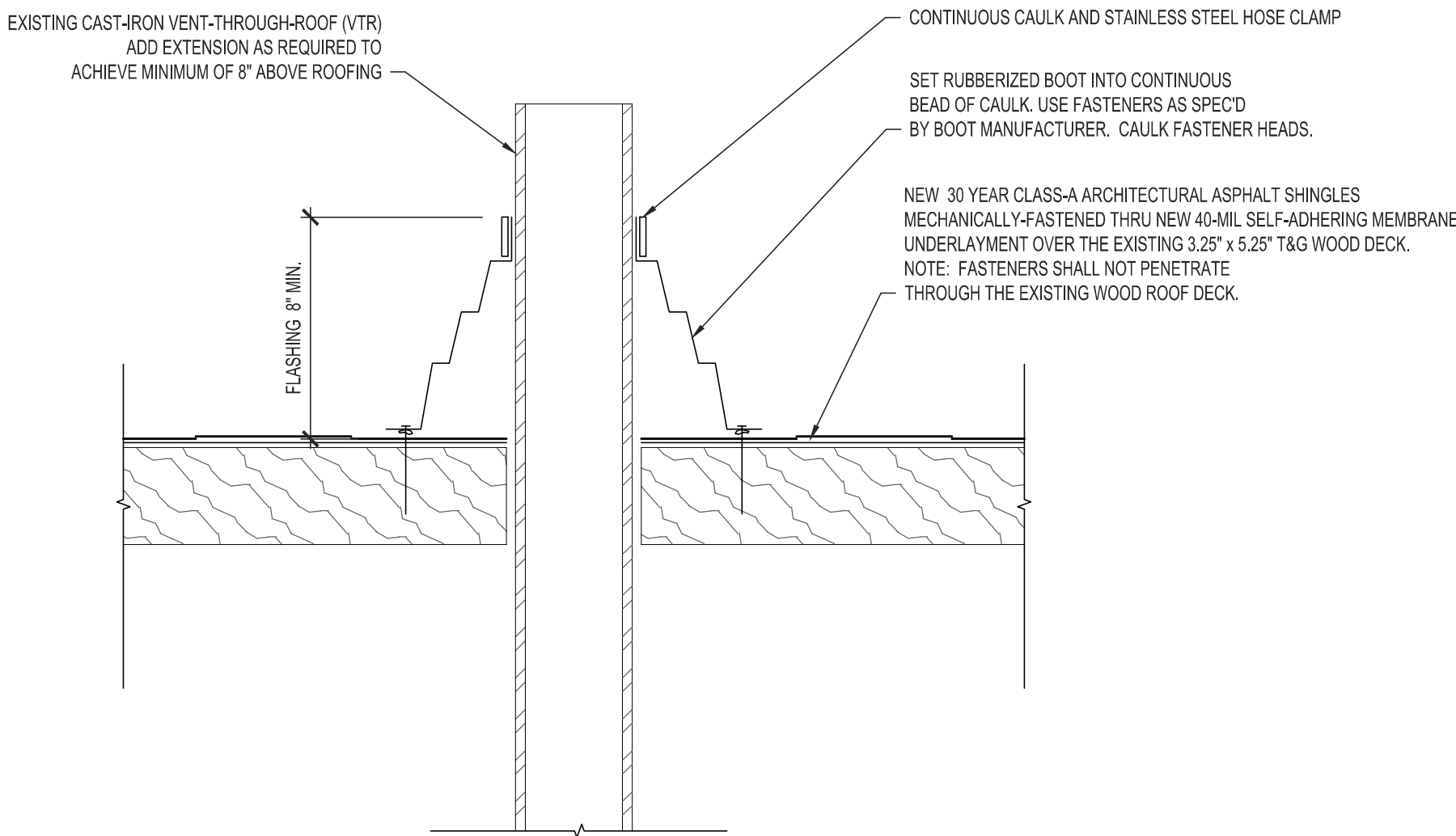
2  
A-502  
SLOPED CHAPEL ROOF - RAKE DETAIL  
SCALE: 3" = 1'-0"



3  
A-502  
SLOPED CHAPEL ROOF - SHINGLE-TO-TPO DETAIL  
SCALE: 3" = 1'-0"



4  
A-502  
SLOPED CHAPEL ROOF - RIDGE DETAIL  
SCALE: 3" = 1'-0"



5  
A-502  
SLOPED CHAPEL ROOF - VENT FLASHING DETAIL  
SCALE: 3" = 1'-0"