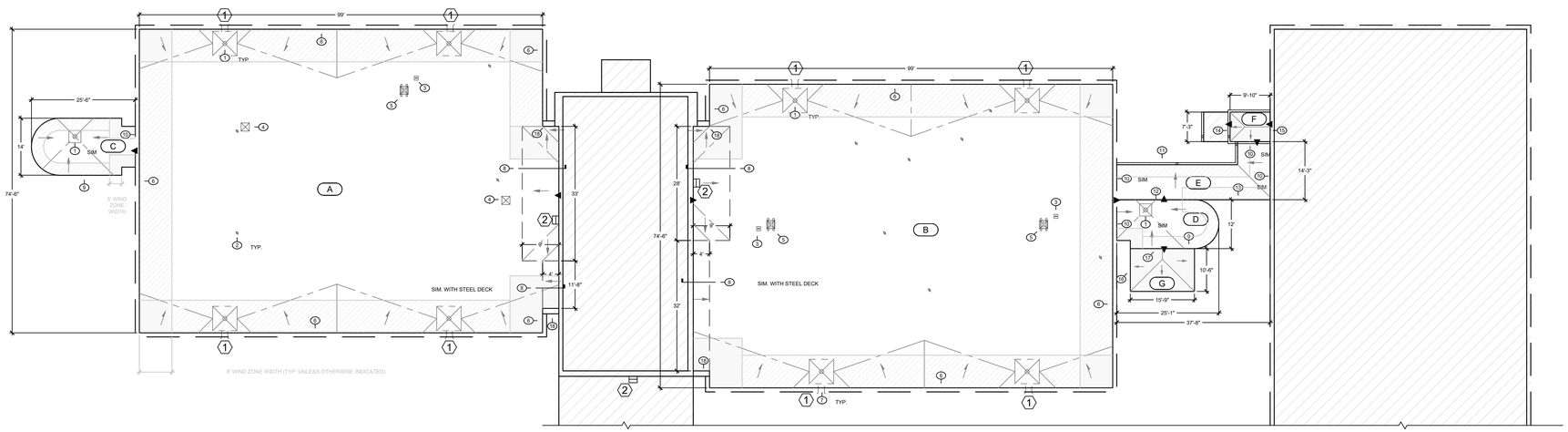
PLAN NORTH

A SITE PLAN
SCALE: N.T.S.



PLAN NORTH

B ROOF PLAN
SCALE: 1" = 20'

100' 50' 0 100' 200'
1"=100'

ROOF SECTOR	SIZE (SQ. FT.)	HEIGHT (FT.)
A	7,555	28
B	7,615	28
C	320	25
D - ALT. NO. 1	280	25
E - ALT. NO. 1	370	25
F - ALT. NO. 1	70	28
G - ALT. NO. 2	165	10

WIND UPLIFT SUMMARY	
ASCE 7 - 10	
ULTIMATE DESIGN WIND SPEED	120 MPH
RISK CATEGORY	III
EXPOSURE	C
ENCLOSURE	ENCLOSED
NOMINAL WIND UPLIFT PRESSURES	
ZONE 1 - FIELD	-22 PSF
ZONE 2 - PERIMETER	-36 PSF
ZONE 3 - CORNER	-55 PSF

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2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.

SHEET NOTES:
1. PROVIDE NEW THROUGH EDGE OVERFLOW SCUPPER TO BE 18" WIDE. BOTTOM OF OVERFLOW SCUPPER SHALL BE MAX. 2" ABOVE FINISHED ROOF SURFACE.
2. LADDER LOCATIONS PER ALTERNATE NO. 3

KEY
- ROOF EDGE
- GUTTER EDGE
- TAPERED INSULATION
- STRUCTURAL SLOPE
- TAPERED INSULATION SLOPE
- CRICKET SLOPE
- CONCRETE FASCIA
- ROOF DRAIN
- OVERFLOW SCUPPER
- SOIL PIPE
- HVAC UNIT
- MECHANICAL CURB
- MULTIPLE PIPE PENETRATION
- EQUIPMENT SUPPORT CURB
- SATELITE DISH
- WALKPAD
- ELEVATION CHANGE
- (xx) ROOF AREA INDICATOR
- (#) NOTE NO.
- (xx) DETAIL NO.
- NOT IN CONTRACT

WIND ZONES
- ZONE 1 (FIELD)
- ZONE 2 (PERIMETER)
- ZONE 3 (CORNER)

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NORTH CAROLINA ENGINEERING FIRM LICENSE # C-1520
www.reiengineers.com

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035689 JEREMIAH L. WEBSTER

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Reason: I agree to the terms defined by the placement of my signature on this document
Date: 2023.01.11 17:27:16 -05'00'

PROJECT NAME:

HENDERSON COUNTY

BLUE RIDGE COMMUNITY COLLEGE - PATTON BUILDING ROOF REPLACEMENT

180 WEST CAMPUS DR.
FLAT ROCK, NC 28731

PROJ. NO:
022CLT-249

REVISIONS:

NO.	DATE	DESCRIPTION
CD	12/01/22	CONTRACT DOCUMENTS

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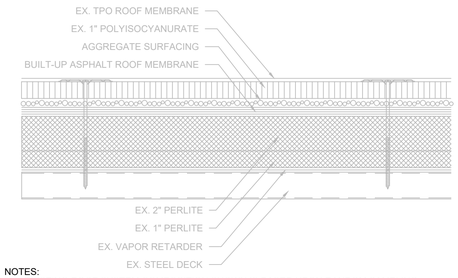
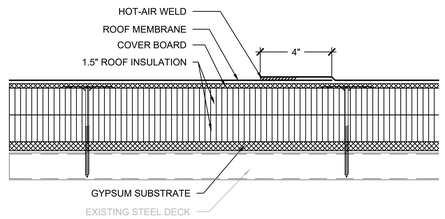
SHEET TITLE
ROOF PLAN

DRAWING
XR101



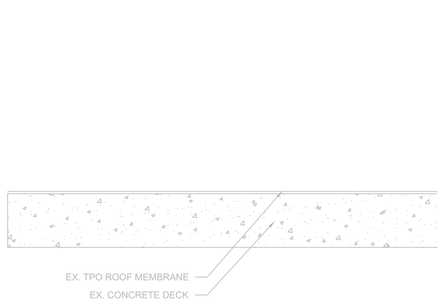
NOTES:
1. EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING.
2. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
3. REMOVE COMPONENTS DOWN TO THE EXISTING STEEL DECK TO REMAIN.

A1 AREAS A & B EXISTING ROOF SYSTEM
SCALE: 3" = 1'-0"



NOTES:
1. ROOF SYSTEM SHALL BE A TESTED ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE WIND UPLIFT PRESSURES SPECIFIED IN CONTRACT DRAWINGS. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.

A2 AREAS A & B REPLACEMENT SYSTEM
SCALE: 3" = 1'-0"



NOTES:
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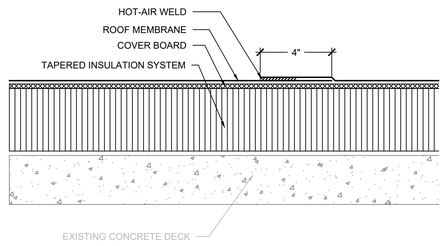
2. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
3. REMOVE COMPONENTS DOWN TO THE EXISTING CONCRETE DECK TO REMAIN.

D1 AREA F EXISTING ROOF SYSTEM
SCALE: 3" = 1'-0"



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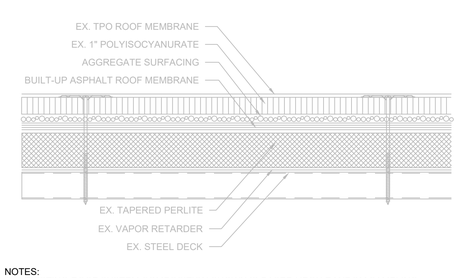
D2 AREA F REPLACEMENT SYSTEM
SCALE: 3" = 1'-0"



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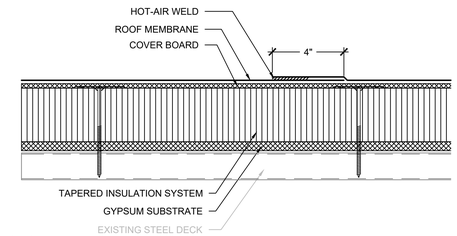
B1 AREAS C & D EXISTING ROOF SYSTEM
SCALE: 3" = 1'-0"



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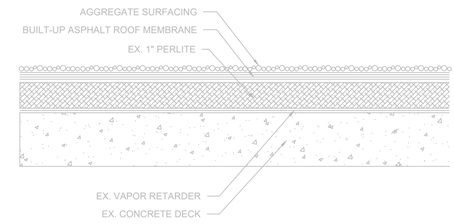
A2 AREAS C & D REPLACEMENT SYSTEM
SCALE: 3" = 1'-0"



NOTES:
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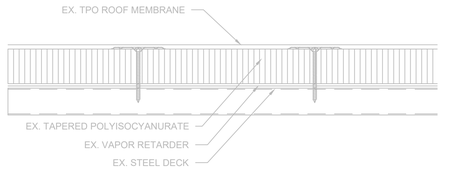
2. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
3. REMOVE COMPONENTS DOWN TO THE EXISTING VAPOR RETARDER TO REMAIN.

E1 AREA G EXISTING ROOF SYSTEM
SCALE: 3" = 1'-0"



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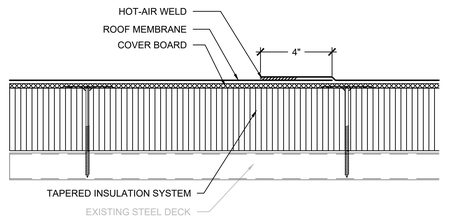
C1 AREA E EXISTING ROOF SYSTEM
SCALE: 3" = 1'-0"



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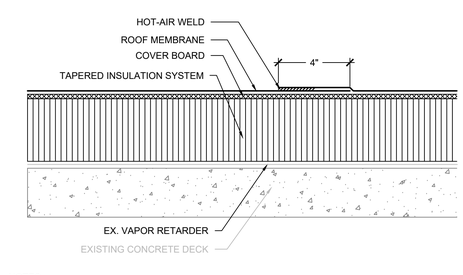
C2 AREA E REPLACEMENT SYSTEM
SCALE: 3" = 1'-0"



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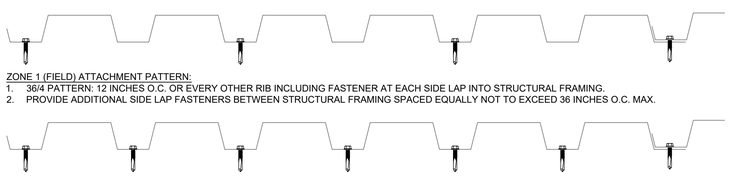
E2 AREA G REPLACEMENT SYSTEM
SCALE: 3" = 1'-0"



ZONE 1 (FIELD) ATTACHMENT PATTERN:
1. 36/4 PATTERN: 12 INCHES O.C. OR EVERY OTHER RIB INCLUDING FASTENER AT EACH SIDE LAP INTO STRUCTURAL FRAMING.
2. PROVIDE ADDITIONAL SIDE LAP FASTENERS BETWEEN STRUCTURAL FRAMING SPACED EQUALLY NOT TO EXCEED 36 INCHES O.C. MAX.

ZONE 2 (PERIMETER) AND ZONE 3 (CORNER) ATTACHMENT PATTERN:
1. 36/7 PATTERN: 6 INCHES O.C. OR EVERY RIB INCLUDING FASTENER AT EACH SIDE LAP INTO STRUCTURAL FRAMING.
2. PROVIDE ADDITIONAL SIDE LAP FASTENERS BETWEEN STRUCTURAL FRAMING SPACED EQUALLY NOT TO EXCEED 30 INCHES O.C. MAX.

F STEEL DECK SECUREMENT
SCALE: 3" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 035689 ENGINEER JEREMIAH L. WEBSTER

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PROJECT NAME:

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180 WEST CAMPUS DR.
FLAT ROCK, NC 28731

PROJ. NO:

022CLT-249

REVISIONS:

NO.	DATE	DESCRIPTION
CD	12/01/22	CONTRACT DOCUMENTS (90%)

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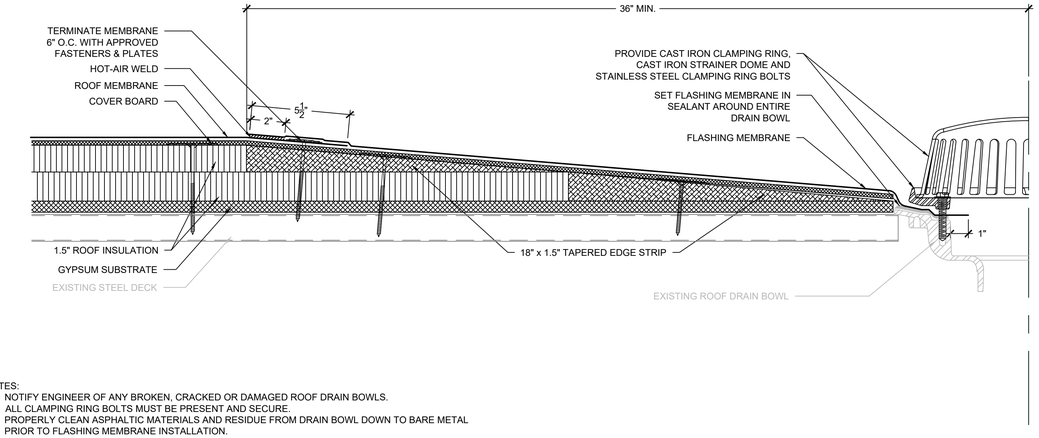
SHEET TITLE

ROOF SYSTEMS

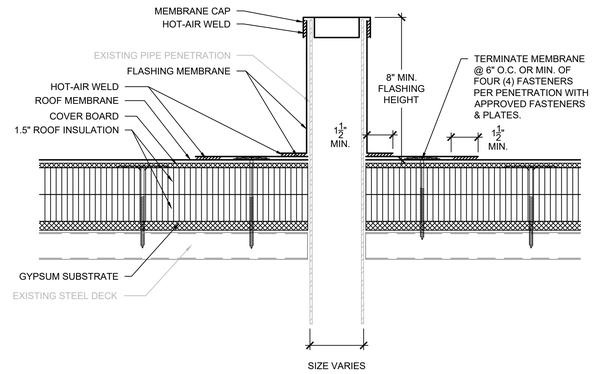
DRAWING

XR301



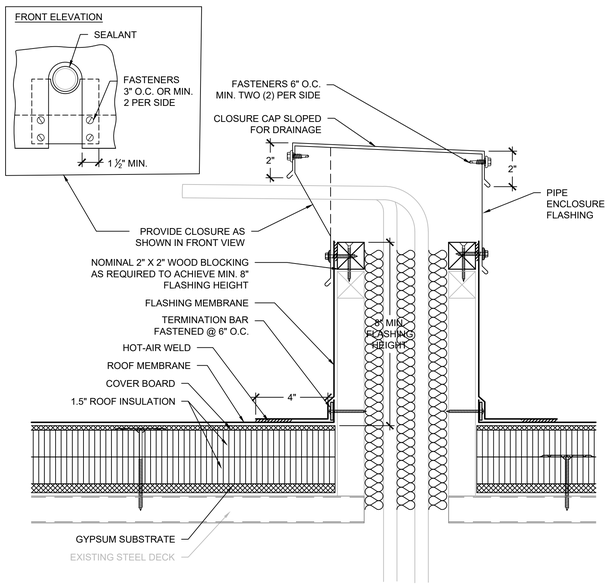
NOTES:
1. NOTIFY ENGINEER OF ANY BROKEN, CRACKED OR DAMAGED ROOF DRAIN BOWLS.
2. ALL CLAMPING RING BOLTS MUST BE PRESENT AND SECURE.
3. PROPERLY CLEAN ASPHALTIC MATERIALS AND RESIDUE FROM DRAIN BOWL DOWN TO BARE METAL PRIOR TO FLASHING MEMBRANE INSTALLATION.

1 ROOF DRAIN (6' SUMP)
SCALE: 3" = 1'-0"

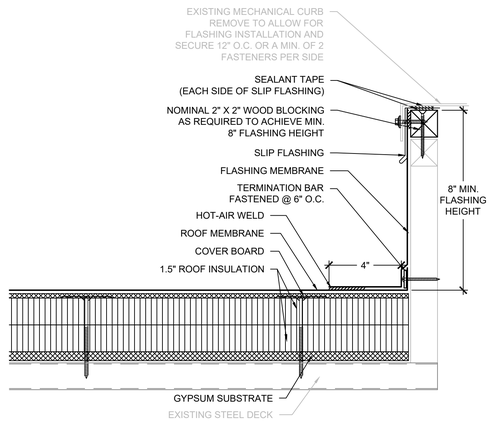


NOTES:
1. EXTEND PIPE PENETRATION TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

2 FIELD WRAPPED SOIL PIPE
SCALE: 3" = 1'-0"

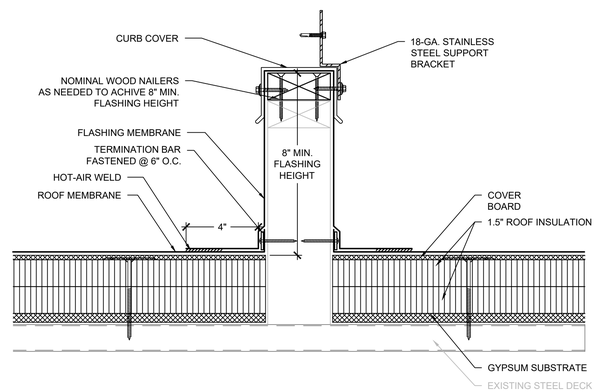


3 MULTIPLE PIPE PENETRATION CURB
SCALE: 3" = 1'-0"



NOTES:
1. PROPERLY DISCONNECT UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT.
2. EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

4 MECHANICAL CURB
SCALE: 3" = 1'-0"



NOTES:
1. PROPERLY DISCONNECT EQUIPMENT/UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT. EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.
2. PROVIDE MECHANICALLY ATTACHED BASE SHEET OVER COMBUSTIBLE OR NAILABLE SUBSTRATES PRIOR TO ADHERING BASE FLASHINGS.
3. PROVIDE RUBBER PROTECTION PAD ADHERED TO TOP OF CURB COVER WHERE EQUIPMENT BEARS ON EQUIPMENT SUPPORT CURB.
4. DO NOT SECURE EQUIPMENT THROUGH TOP OF CURB. UTILIZE SUPPORT BRACKET SECURED TO SIDE OF CURB.

5 EQUIPMENT SUPPORT CURB
SCALE: 3" = 1'-0"

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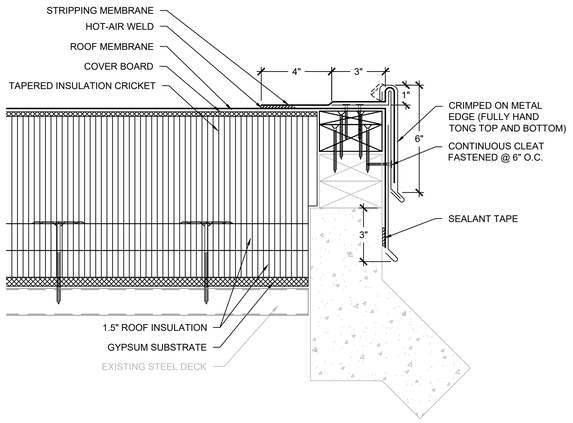
SHEET TITLE

DETAILS

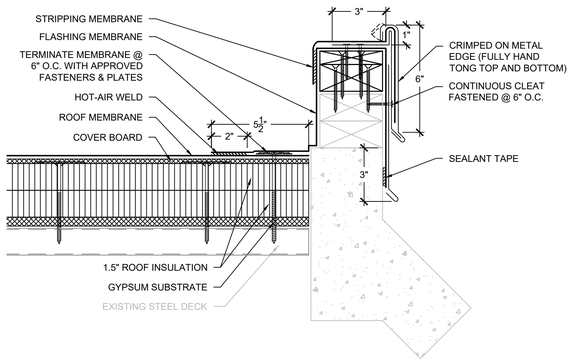
DRAWING

XR501

HIGH POINT OF CRICKET

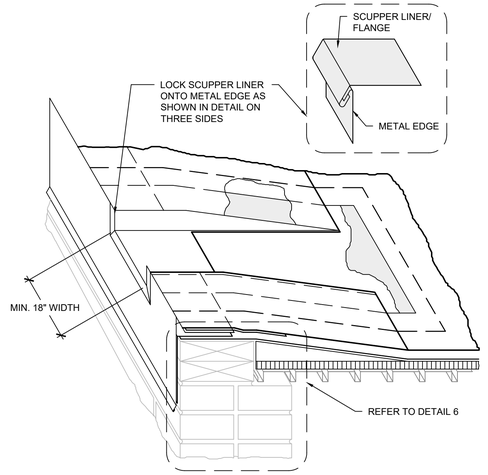


LOW POINT OF CRICKET



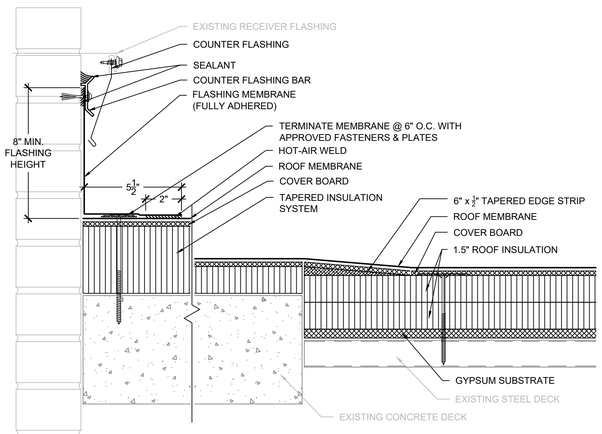
NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
2. EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHODS RE-1 AND RE-2. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.

6 CRIMPED ON METAL EDGE (A & B)
SCALE: 3" = 1'-0"



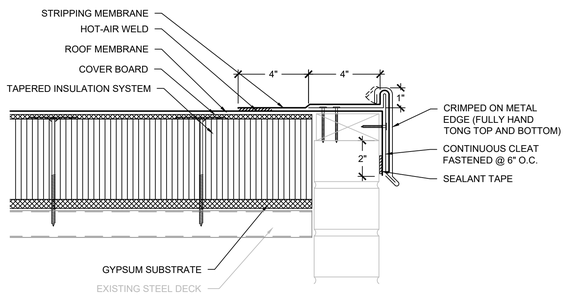
NOTES:
1. DETAIL IS FOR GENERAL REPRESENTATION ONLY. REFER TO CROSS SECTION FOR SPECIFIC ORDER AND CALLOUT OF COMPONENTS.
2. PROVIDE POLYER CLAD SCUPPER LINER WITH SEAMS SEALED WITH HOT-AIR WELDED STRIPPING.
3. SET BOTTOM OF SCUPPER OPENING 2" MAX. ABOVE ROOF SURFACE.

7 THROUGH EDGE SCUPPER
SCALE: 3" = 1'-0"



NOTES:
1. PROVIDE ADDITIONAL TAPERED INSULATION AND/OR TAPERED EDGE STRIP AS NECESSARY TO PROVIDE SMOOTH TRANSITION AT ROOF DECK CHANGE WITHOUT IMPACTING ROOF DRAINAGE.

8 SECTION THROUGH CONCRETE DECK
SCALE: 3" = 1'-0"



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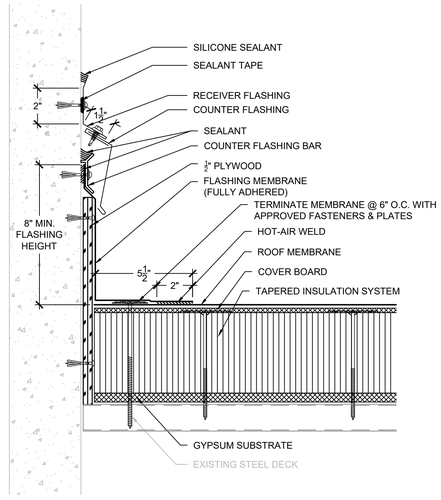
9 CRIMPED ON METAL EDGE (C & D)
SCALE: 3" = 1'-0"



10 ELEVATION WALL FLASHING
SCALE: 3" = 1'-0"

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www.reiengineers.com

SEALS:

NORTH CAROLINA PROFESSIONAL SEAL 035689 ENGINEER JEREMIAH L. WEBSTER

Digitally signed by Jeremiah Webster
DN: C=US, E=jwebster@reiengineers.com, O="REI Engineers, Inc.", CN=Jeremiah Webster
Reason: I agree to the terms defined by the placement of my signature on this document.
Date: 2023.01.11 17:26:53-05'00'

PROJECT NAME:

HENDERSON COUNTY

BLUE RIDGE COMMUNITY COLLEGE - PATTON BUILDING ROOF REPLACEMENT

180 WEST CAMPUS DR.
FLAT ROCK, NC 28731

PROJ. NO:
022CLT-249

REVISIONS:

NO.	DATE	DESCRIPTION
CD	12/01/22	CONTRACT DOCUMENTS (90%)

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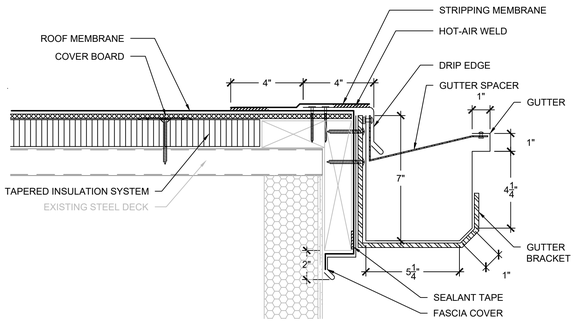
SHEET TITLE
DETAILS

DRAWING
XR502



NOTES:
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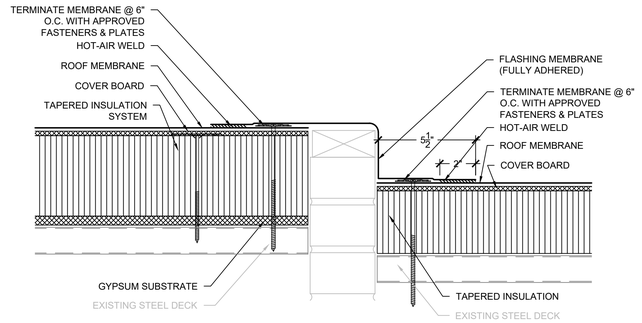
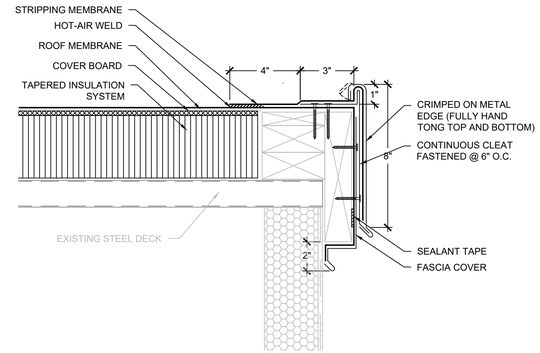
11 GUTTER EDGE (AREA E)
SCALE: 3" = 1'-0"



12 ROOF EDGE (AREA D TO E)
SCALE: 3" = 1'-0"



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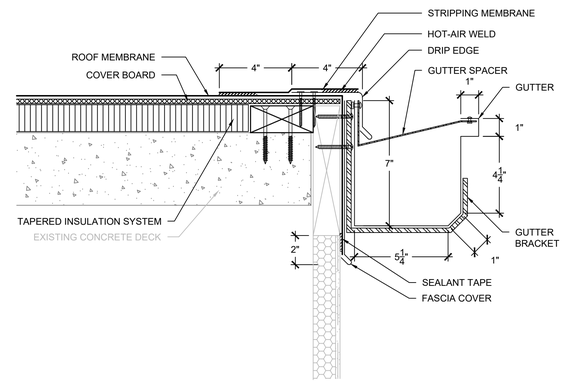
13 CRIMPED ON METAL EDGE (E)
SCALE: 3" = 1'-0"



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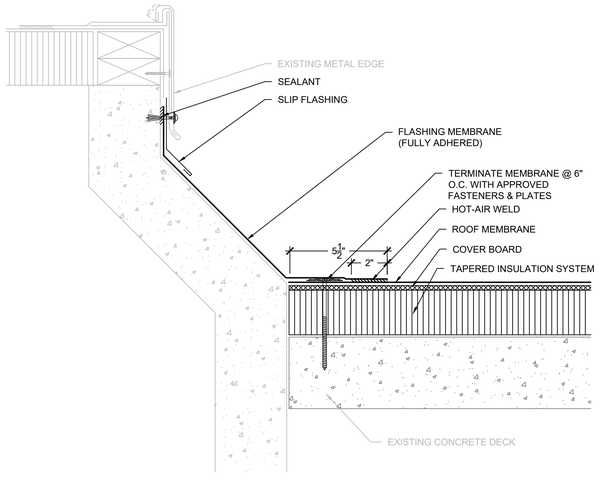
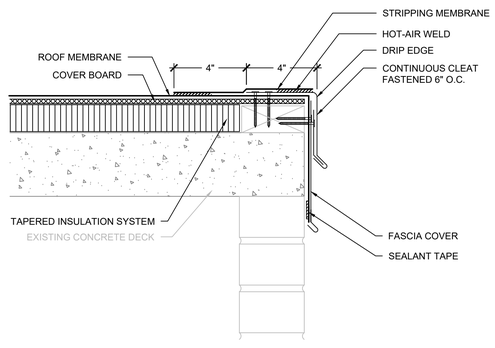
14 GUTTER EDGE (AREA F)
SCALE: 3" = 1'-0"



15 ELEVATION WALL (AREA F)
SCALE: 3" = 1'-0"



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16 ROOF EDGE (AREA G)
SCALE: 3" = 1'-0"

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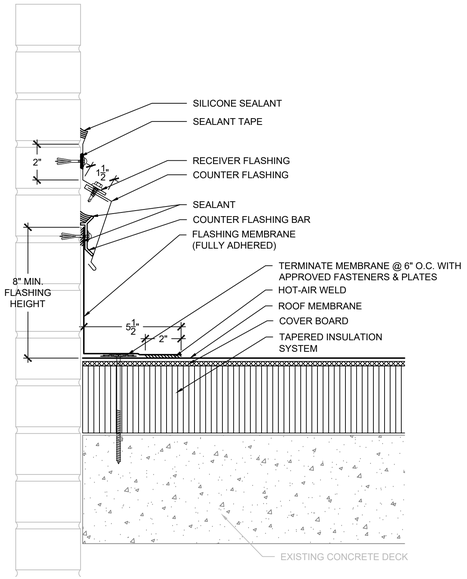
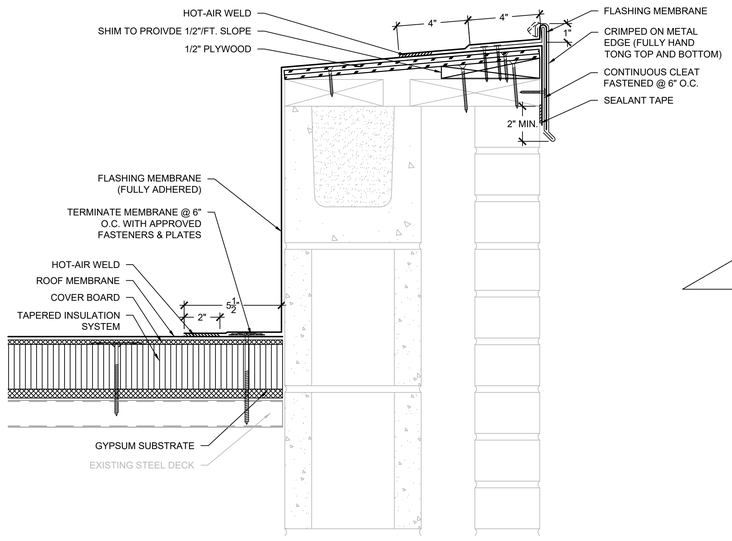


NOTES:
1. PROVIDE ADDITIONAL TAPERED INSULATION AND/OR TAPERED EDGE STRIP AS NECESSARY TO PROVIDE SMOOTH TRANSITION AT ROOF DECK CHANGE WITHOUT IMPACTING ROOF DRAINAGE.

17 ELEVATION WALL FLASHING (AREA G)
SCALE: 3" = 1'-0"



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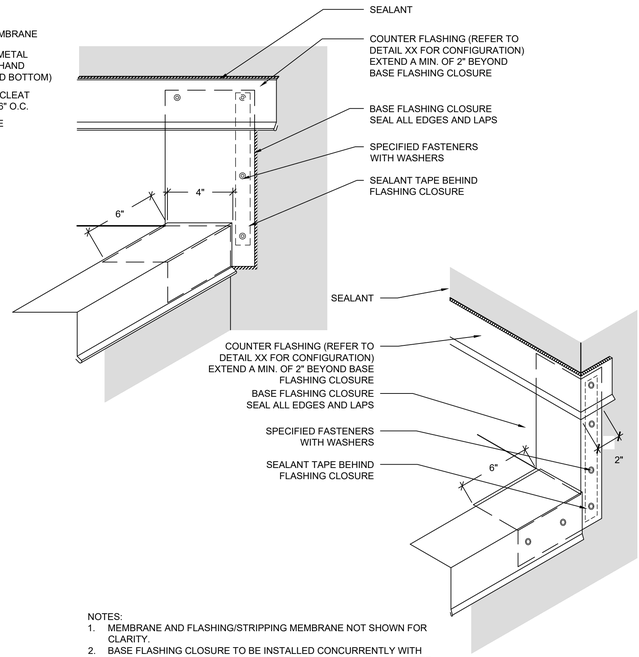
2. PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.

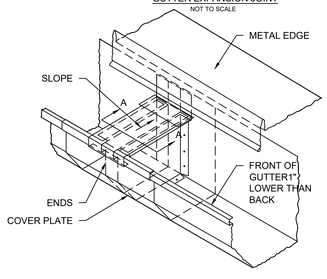
18 PARAPET WALL
SCALE: 3" = 1'-0"



NOTES:
1. MEMBRANE AND FLASHING/STRIPPING MEMBRANE NOT SHOWN FOR CLARITY.
2. BASE FLASHING CLOSURE TO BE INSTALLED CONCURRENTLY WITH METAL EDGE AND STRIPPED INTO MEMBRANE WITH HOT-AIR WELDED STRIPPING PLY.

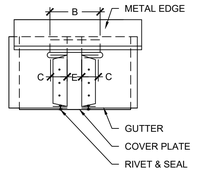
19 BASE FLASHING CLOSURE
SCALE: 3" = 1'-0"

GUTTER EXPANSION JOINT
NOT TO SCALE

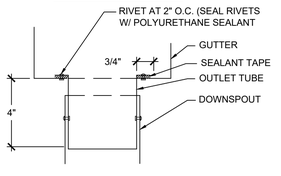


SECTION A-A
NOT TO SCALE

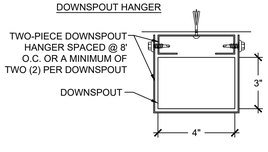
TEMP (°F)	ALUM.	STEEL	COPPER
E @ 170	3/16"	3/16"	1/16"
E @ 120	5/8"	1/2"	1/8"
E @ 75	3/4"	5/8"	3/16"
E @ 35	1-1/2"	3/4"	1/4"
B	4-1/2"	2-1/2"	2"
C	1-1/8"	5/8"	1/2"



DOWNSPOUT OUTLET TUBE

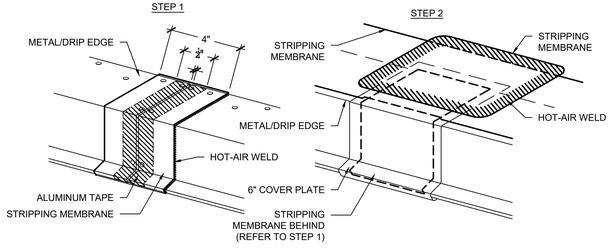


DOWNSPOUT HANGER

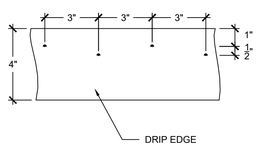


20 GUTTER/DOWNSPOUT COMPONENTS
SCALE: 3" = 1'-0"

POLYMER CLAD METAL EDGE JOINTS



DRIP EDGE FLANGE SECURE MENT



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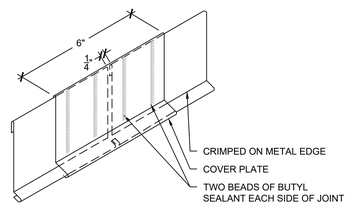
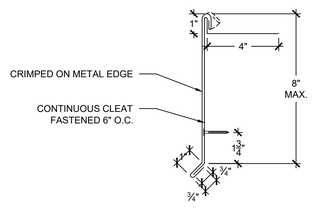
21 DRIP EDGE COMPONENTS
SCALE: 3" = 1'-0"

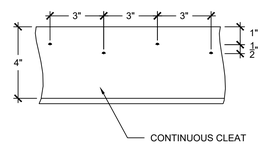
CRIMPED ON METAL EDGE JOINTS



CONTINUOUS CLEAT CONFIGURATION



CONTINUOUS CLEAT FLANGE SECUREMENT



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22 CRIMPED ON METAL EDGE COMPONENTS
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