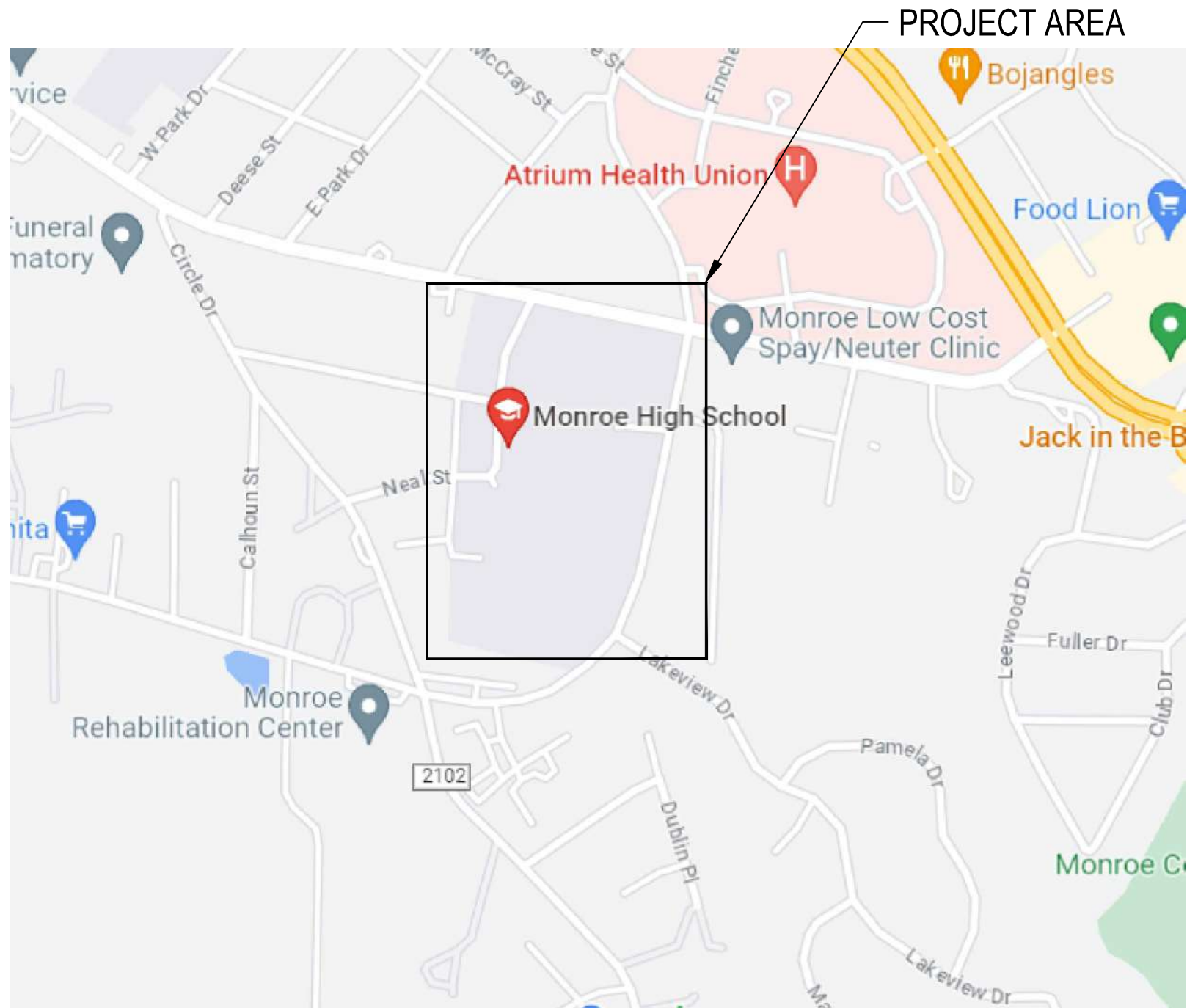
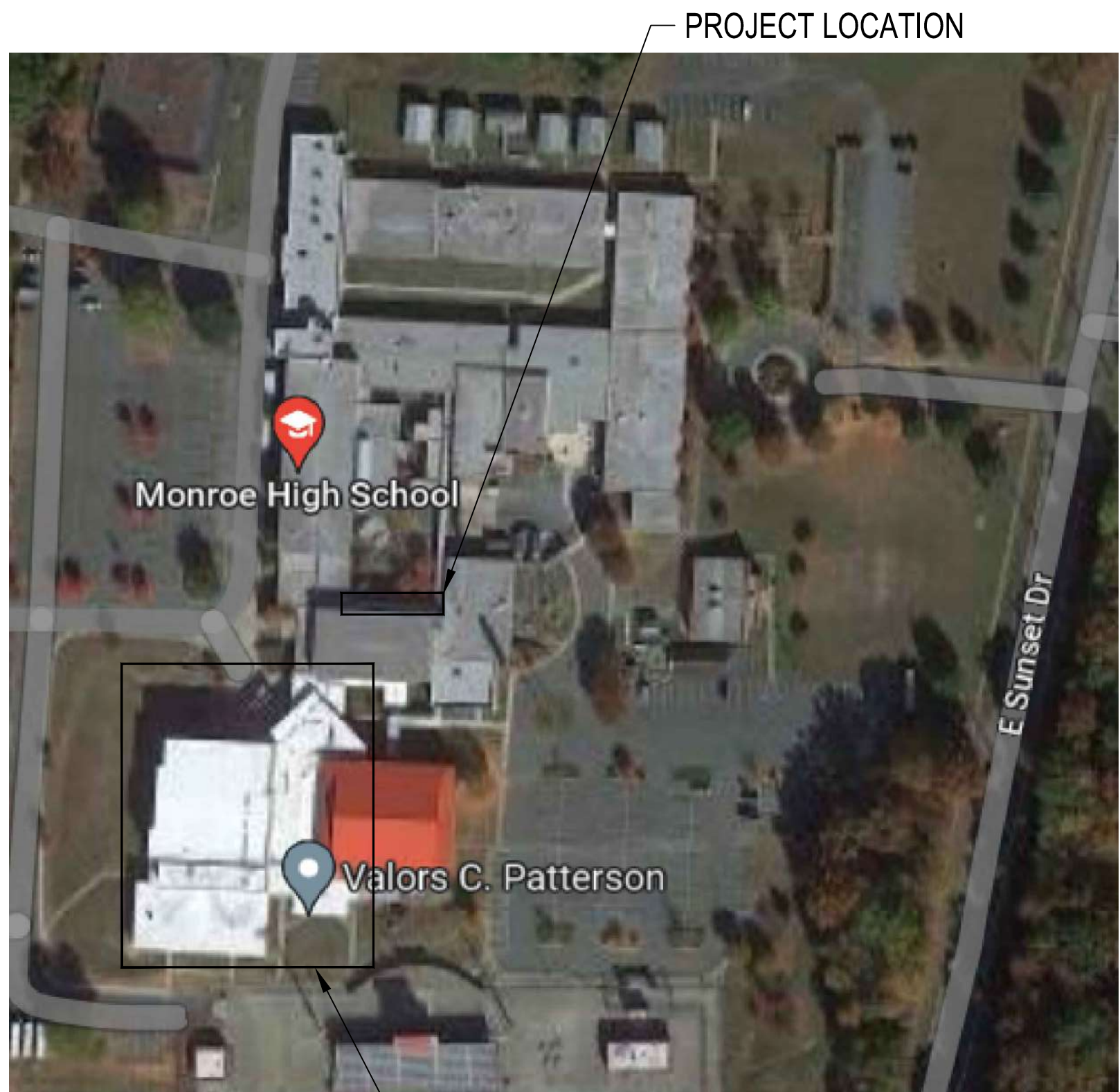




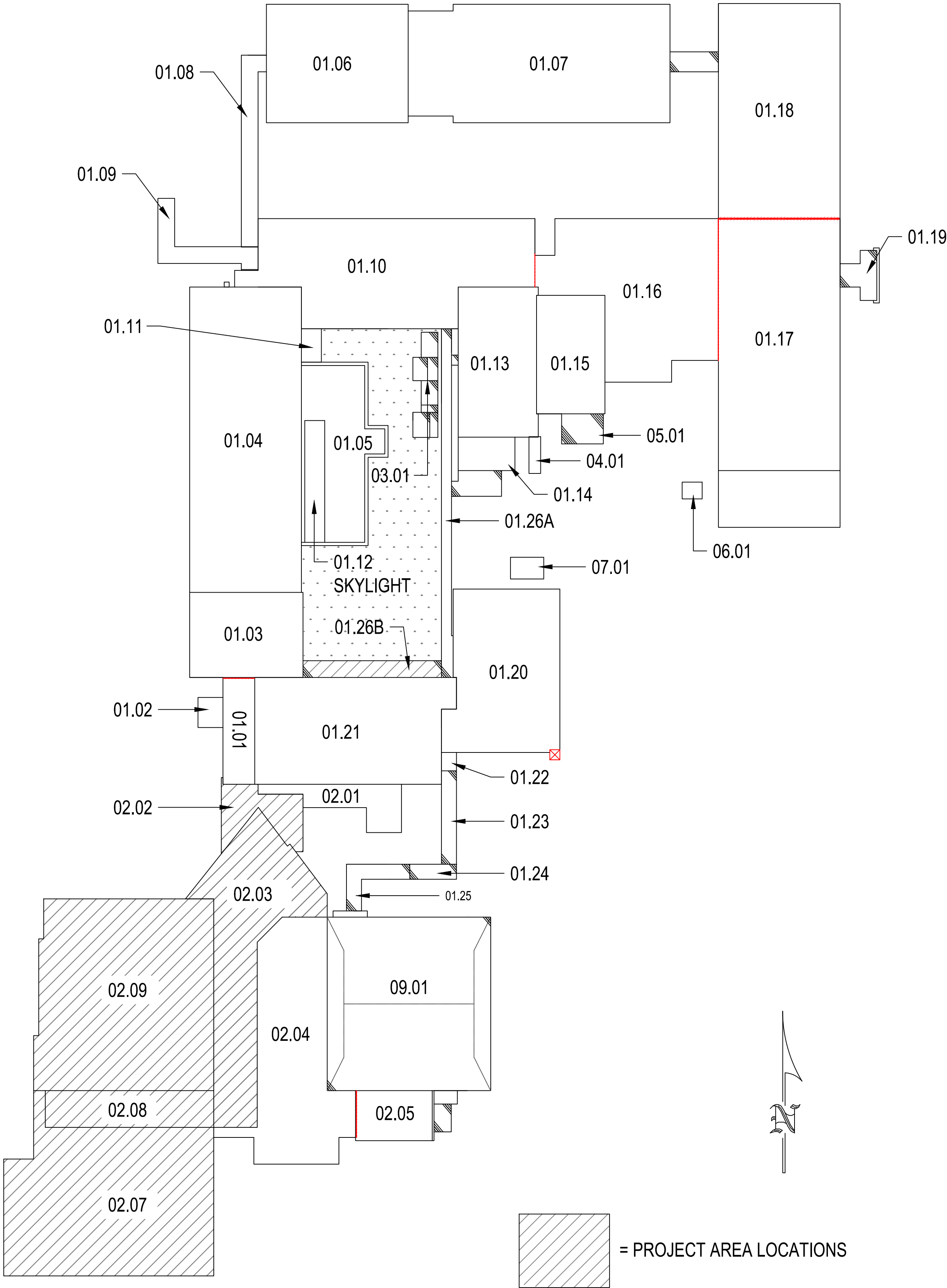
SITE MAP



SITE MAP

2023-UCPS-R-3-MONROE HIGH SCHOOL
ROOF RENOVATION PROJECT
1 HIGH SCHOOL DR.
MONROE, NC, 28112

- LIST OF DRAWINGS
- C01 COVER
 - AP1 APPENDIX "B"
 - DP01 DETAIL PLAN
 - DP02 DETAIL PLAN
 - DP03 DETAIL PLAN
 - R-1 ROOF DETAILS
 - R-2 ROOF DETAILS
 - R-3 ROOF DETAILS
 - R-4 ROOF DETAILS
 - RA-1 ROOF ACCESSORIES
 - UP1 WIND UPLIFT PLAN
 - UP2 WIND UPLIFT PLAN
 - IR INFRARED SURVEY



1 SITE PLAN
C01 SCALE: NONE

LINETYPE LEGEND

- CONDENSATION LINE
- GAS LINE
- GUTTER
- ELECTRICAL CONDUIT
- EXPANSION JOINT
- PVC PIPE

LEGEND

☒ VENT	☒ LADDER	☒ PENETRATION	☒ SCUPPER
☒ SOIL VENT	☒ ROOF DRAIN	☒ SCUTTLE	☒ SPLASH PAN
☒ CURB FAN	☒ HOT STACK	☒ CURB	☒ SAMPLE
☒ DOWN SPOUT	☒ SLEEPER	☒ COLLECTOR HD	☒ REMOVE
☒ DETAIL SHEET TARGET			

FOR CONSTRUCTION



P-1817
1001 LANCASTER AVE.
MONROE, NC 28112
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UNION COUNTY
PUBLIC SCHOOLS
400 N. CHURCH ST.
MONROE, NC 28112

2023-UCPS-R-3-MONROE HIGH SCHOOL
ROOF RENOVATION PROJECT
1 HIGH SCHOOL DR.
MONROE, NC, 28112

MARK	DATE	DESCRIPTION
	0-00-0000	XXXXXXXXXX

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COVER

C01

PAGE NUMBER

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL ROOF PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Union County Public Schools- Monroe High School Roof Renovation
Address: _1 High School Dr., Monroe, NC, 28112
Owner/Authorized Agent: Penny Helms Phone # (704) 296-6320 Mail: penny.helms@ucps.k12.nc.us
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County Union County ☐ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil	Wolf Trail Engineering	Doug Buchanan	31563	(704) 533-2327	Doug@WolfTrailEngineering.com
Electrical				()	
Fire Alarm				()	
Plumbing				()	
Mechanical				()	
Sprinkler-Standpipe				()	
Structural				()	

2018 NC CODE FOR: ☐ Roof Replacement ☒ Roof Recover ☐ Roof Repair

CONSTRUCTED: (date) 1985

CURRENT OCCUPANCY(S) (Ch. 3) : Educational Group E

2018 NC Existing Building Code - Using

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☒ II-B ☐ III-B ☐ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary)

Gross Area (sq. ft.):

STORIES	AREA A	AREA B	AREA C	AREA D	AREA E	AREA F	AREA G	TOTAL
1	8,200	2,200	12,800	7,000	1,200			31,400

2018 NC Administrative Code and Policies

Appendix B for Roof

FIRE PROTECTION REQUIREMENTS NA No Change

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY
Roof Construction, including supporting beams and joists			
Roof Ceiling Assembly			
Column Supporting Roof			

STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.10
Seismic (I_e) 1.25
Live Loads: Roof 20 psf
Ground Snow Load: 10 psf
Wind Load: Ultimate Wind Speed 120 mph (ASCE-7-10)
Exposure Category C

Vult 120 MPH
Vasd 93 MPH

2018 NC Administrative Code and Policies

Appendix B for Roof

Union County Public Schools, Monroe High

Roof Area...02.02

EXISTING ROOF SYSTEM				
MATERIAL	PRODUCT	WEIGHT	R-VALUE	COMMENTS
Interior Air Film	Interior Air Film	N/A	0.61	
Deck	Metal	0.00	0.00	
Insulation	Isocyanurate	0.55	27.00	4.75" avg th.
Membrane	PVC	0.47	0.24	
Cover Board	None	0.00	0.00	
Exterior Air Film	Exterior Air Film	N/A	0.17	
TOTAL		1.02	28.02	

Roof Area...02.02

PROPOSED ROOF SYSTEM				
MATERIAL	PRODUCT	WEIGHT	R-VALUE	COMMENTS
Interior Air Film	Interior Air Film	N/A	0.61	
Deck	Metal	0.00	0.00	
Insulation	Isocyanurate	0.55	27.00	4.75" avg th.
Membrane	PVC	0.47	0.24	
Cover Board	1/4" Gypsum	1.00	0.25	
Membrane	PVC	0.47	0.24	
Exterior Air Film	Exterior Air Film	N/A	0.17	
TOTAL		2.49	28.51	

Union County Public Schools, Monroe High

Roof Area...02.03, 02.07 & 02.08

EXISTING ROOF SYSTEM				
MATERIAL	PRODUCT	WEIGHT	R-VALUE	COMMENTS
Interior Air Film	Interior Air Film	N/A	0.61	
Deck	Metal	0.00	0.00	
Insulation	Isocyanurate	0.55	17.10	3"
Membrane	PVC	0.47	0.24	
Cover Board	None	0.00	0.00	
Exterior Air Film	Exterior Air Film	N/A	0.17	
TOTAL		1.02	18.12	

Roof Area...02.03, 02.07 & 02.08

PROPOSED ROOF SYSTEM				
MATERIAL	PRODUCT	WEIGHT	R-VALUE	COMMENTS
Interior Air Film	Interior Air Film	N/A	0.61	
Deck	Metal	0.00	0.00	
Insulation	Isocyanurate	0.55	17.10	3"
Membrane	PVC	0.47	0.24	
Insulation	Isocyanurate	0.55	11.40	(New) 2"
Cover Board	1/4" Gypsum	1.00	0.25	
Membrane	PVC	0.47	0.24	
Exterior Air Film	Exterior Air Film	N/A	0.17	
TOTAL		3.04	30.01	

Union County Public Schools, Monroe High

Roof Area...02.09

EXISTING ROOF SYSTEM				
MATERIAL	PRODUCT	WEIGHT	R-VALUE	COMMENTS
Interior Air Film	Interior Air Film	N/A	0.61	
Deck	Metal	0.00	0.00	
Insulation	Fiberglass Batt		6.00	2"
Insulation	Isocyanurate	0.55	17.10	3"
Membrane	PVC	0.47	0.24	
Cover Board	None	0.00	0.00	
Exterior Air Film	Exterior Air Film	N/A	0.17	
TOTAL		1.02	24.12	

Roof Area...02.09

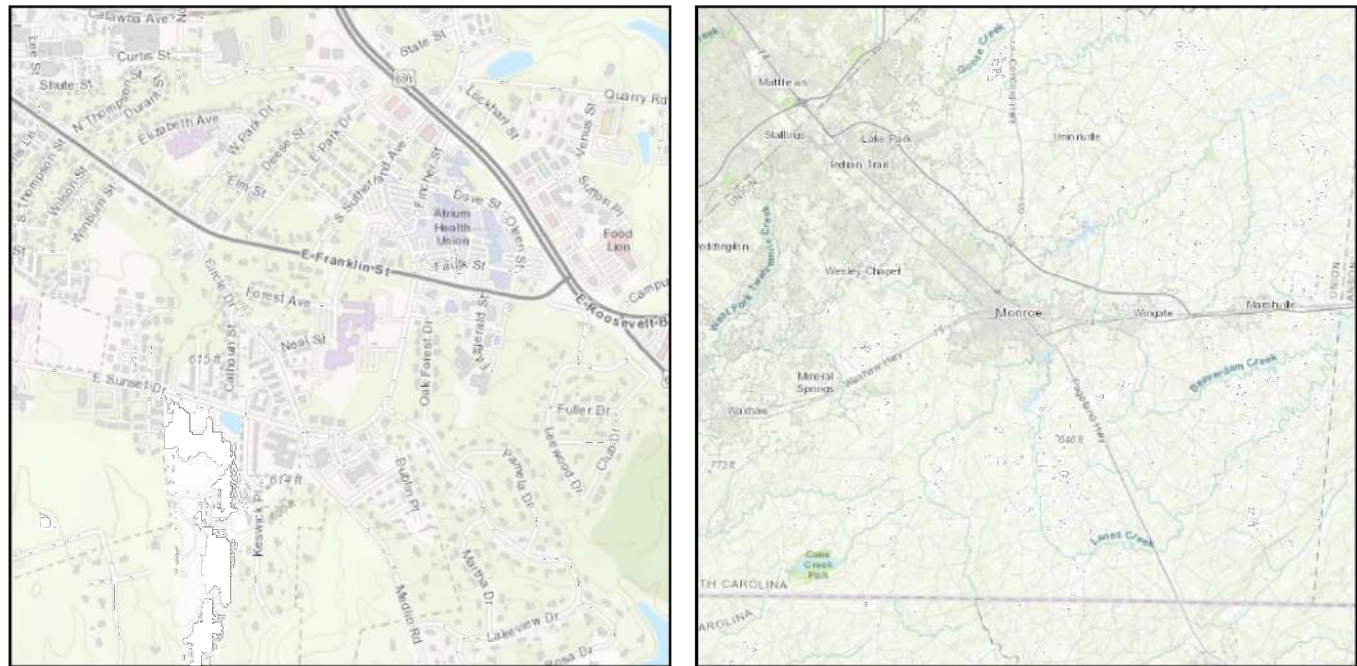
PROPOSED ROOF SYSTEM				
MATERIAL	PRODUCT	WEIGHT	R-VALUE	COMMENTS
Interior Air Film	Interior Air Film	N/A	0.61	
Deck	Metal	0.00	0.00	
Insulation	Fiberglass Batt		6.00	2"
Insulation	Isocyanurate	0.55	17.10	3"
Membrane	PVC	0.47	0.24	
Insulation	Isocyanurate	0.55	5.70	(New) 1"
Cover Board	1/4" Gypsum	1.00	0.25	
Membrane	PVC	0.47	0.24	
Exterior Air Film	Exterior Air Film	N/A	0.17	
TOTAL		3.04	30.31	



Address:
1 High School Dr
Monroe, North Carolina
28112

ASCE 7 Hazards Report

Standard: ASCE/SEI 7-22
Risk Category: III
Soil Class: Default
Latitude: 34.972344
Longitude: -80.526869
Elevation: 599.645648310487 ft (NAVD 88)



Wind

Results:

Wind Speed	119 Vmph
10-year MRI	74 Vmph
25-year MRI	82 Vmph
50-year MRI	88 Vmph
100-year MRI	94 Vmph
300-year MRI	104 Vmph
700-year MRI	111 Vmph
1,700-year MRI	119 Vmph
3,000-year MRI	124 Vmph
10,000-year MRI	134 Vmph
100,000-year MRI	156 Vmph
1,000,000-year MRI	169 Vmph

Data Source: ASCE/SEI 7-22, Fig. 26.5-1C and Figs. CC.2-1-CC.2-4, and Section 26.5.2
Data Accessed: Tue Jul 11 2023

<https://asce7hazardtool.online/>

Page 1 of 3

Tue Jul 11 2023



provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 3% probability of exceedance in 50 years (annual exceedance probability = 0.0088, MRI = 1,700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level Ground Snow Loads. Wind speeds are Ultimate wind speeds.

Allowable Stress Design Ground Snow Load: 19.6 lb/ft*2
20-year MRI Value: 7.72 lb/ft*2
Site is within a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2.
Mapped Elevation: 555.0 ft
Data Source: ASCE/SEI 7-22, Figures 7.6-1 and 7.6-2 A-D
Data Accessed: Tue Jul 11 2023

Values provided are ground snow loads. In areas designated "case study required," extreme local variations in ground snow loads preclude mapping at this scale. Site-specific case studies are required to establish ground snow loads at elevations not covered.

Snow load values are mapped to a 0.5 mile resolution. This resolution can create a mismatch between the mapped elevation and the site-specific elevation in topographically complex areas. Engineers should consult the local authority having jurisdiction in locations where the reported 'elevation' and 'mapped elevation' differ significantly from each other.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

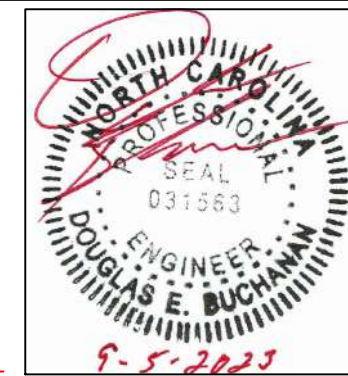
<https://asce7hazardtool.online/>

Page 3 of 3

Tue Jul 11 2023



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SEAL

UNION COUNTY
PUBLIC SCHOOLS
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2023-UCPS-R-3-MONROE HIGH SCHOOL
ROOF RENOVATION PROJECT
1 HIGH SCHOOL DR.
MONROE, NC, 28112

MARK	DATE	DESCRIPTION
	0-00-0000	XXXXXXXX

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APPENDIX B

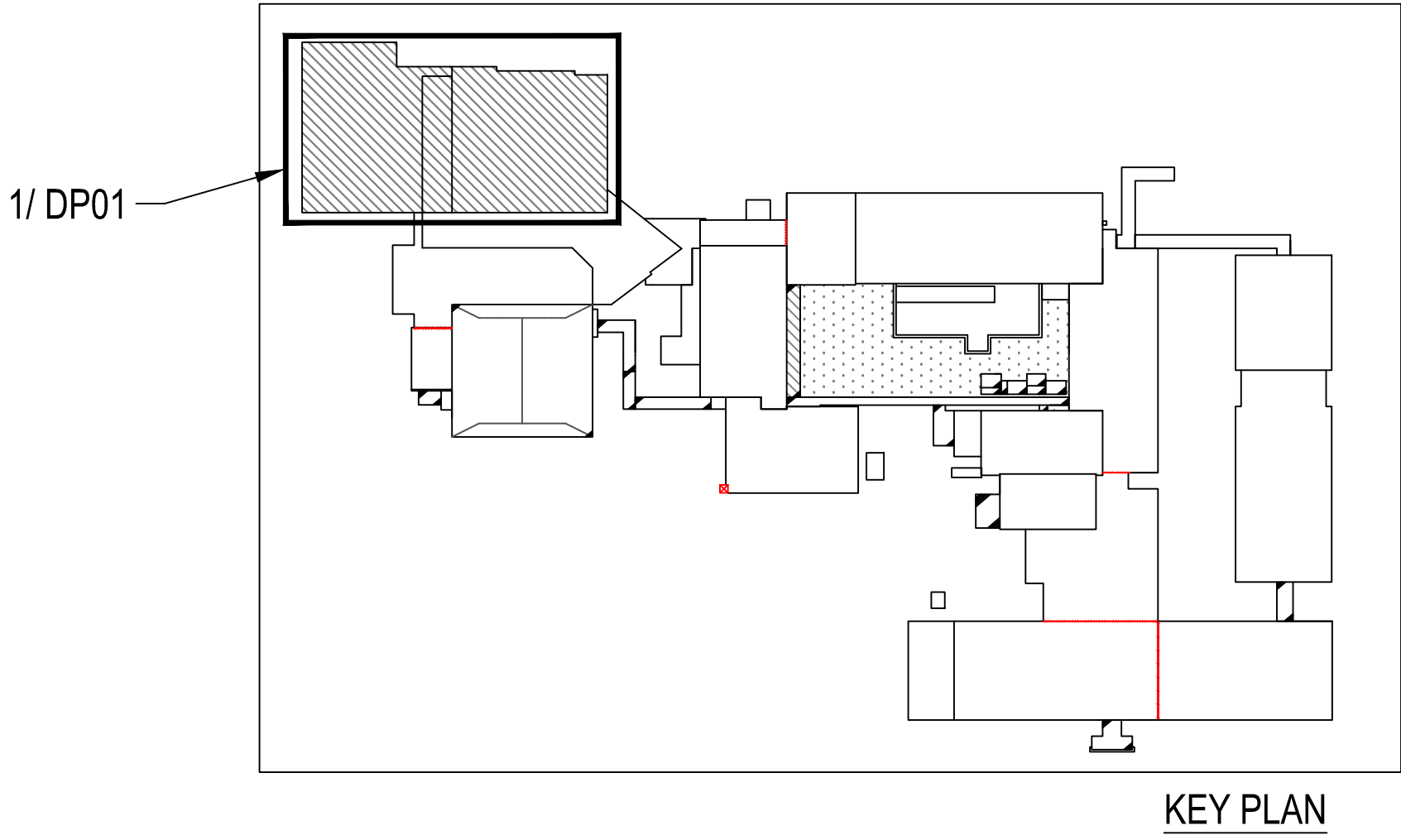
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AP-1

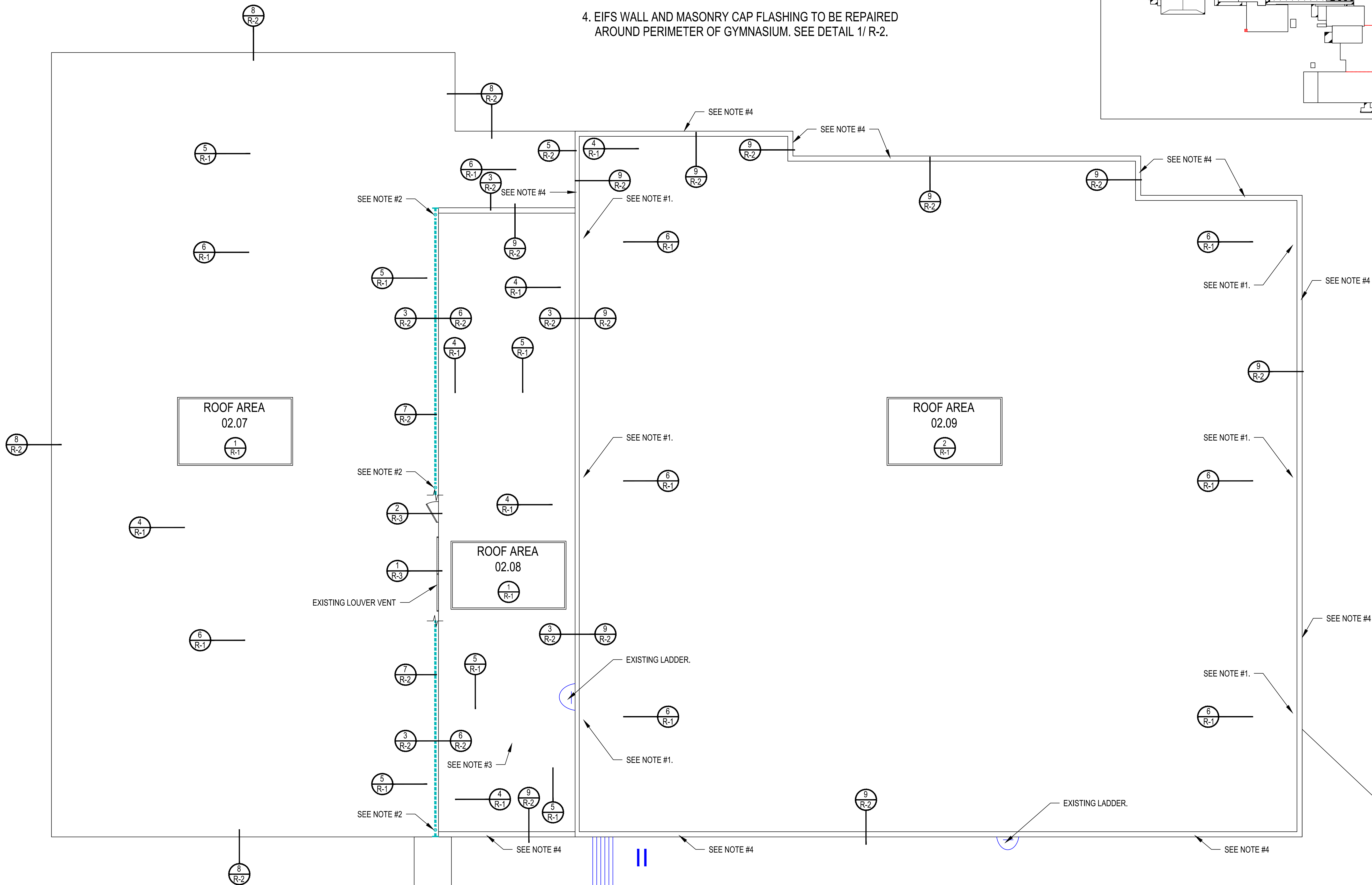
PAGE NUMBER

FOR CONSTRUCTION

- NOTES:
- 1. THROUGH WALL SCUPPER OVERFLOW. SEE DETAIL 3/R-3
 - 2. NEW DOWN SPOUT. SEE DETAIL 5/R-3. INSTALL NEW S.S. SPLASH PAN @ DOWNSPOUT DISCHARGE. SEE DETAIL 4/R-3
 - 3. EXISTING ANTENNA BASE. APPLY SLIP SHEET UNDER ANTENNA BASE WITH 4" EXPOSURE ON ALL SIDES.
 - 4. EIFS WALL AND MASONRY CAP FLASHING TO BE REPAIRED AROUND PERIMETER OF GYMNASIUM. SEE DETAIL 1/ R-2.

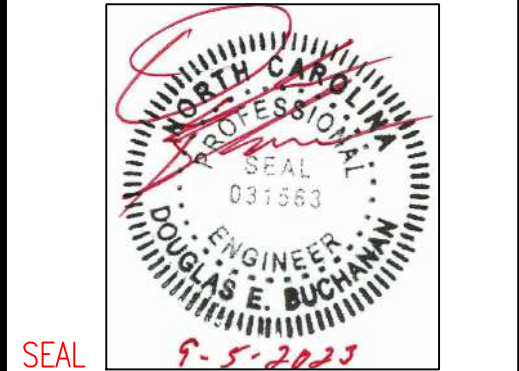


KEY PLAN



1
DP01
DETAIL PLAN
SCALE: 1/8" = 1'


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1 HIGH SCHOOL DR.
MONROE, NC, 28112

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DETAIL PLAN
SHEET TITLE
DP01
PAGE NUMBER

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**2023-UCPS-R-3-MONROE HIGH SCHOOL
ROOF RENOVATION PROJECT
1 HIGH SCHOOL DR.
MONROE, NC, 28112**

MARK	DATE	DESCRIPTION
	0-00-0000	XXXXXXXXXX

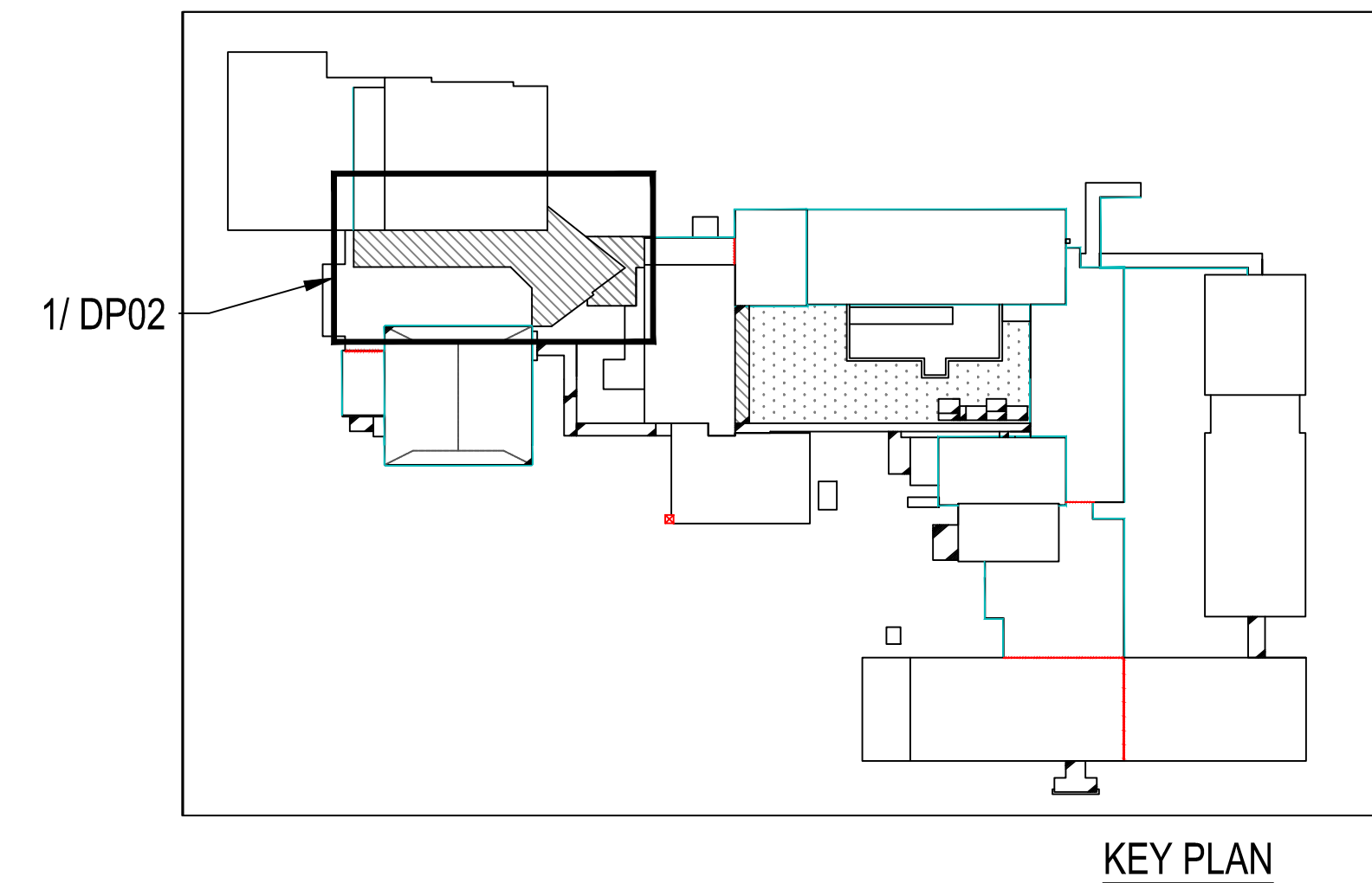
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DETAIL PLAN

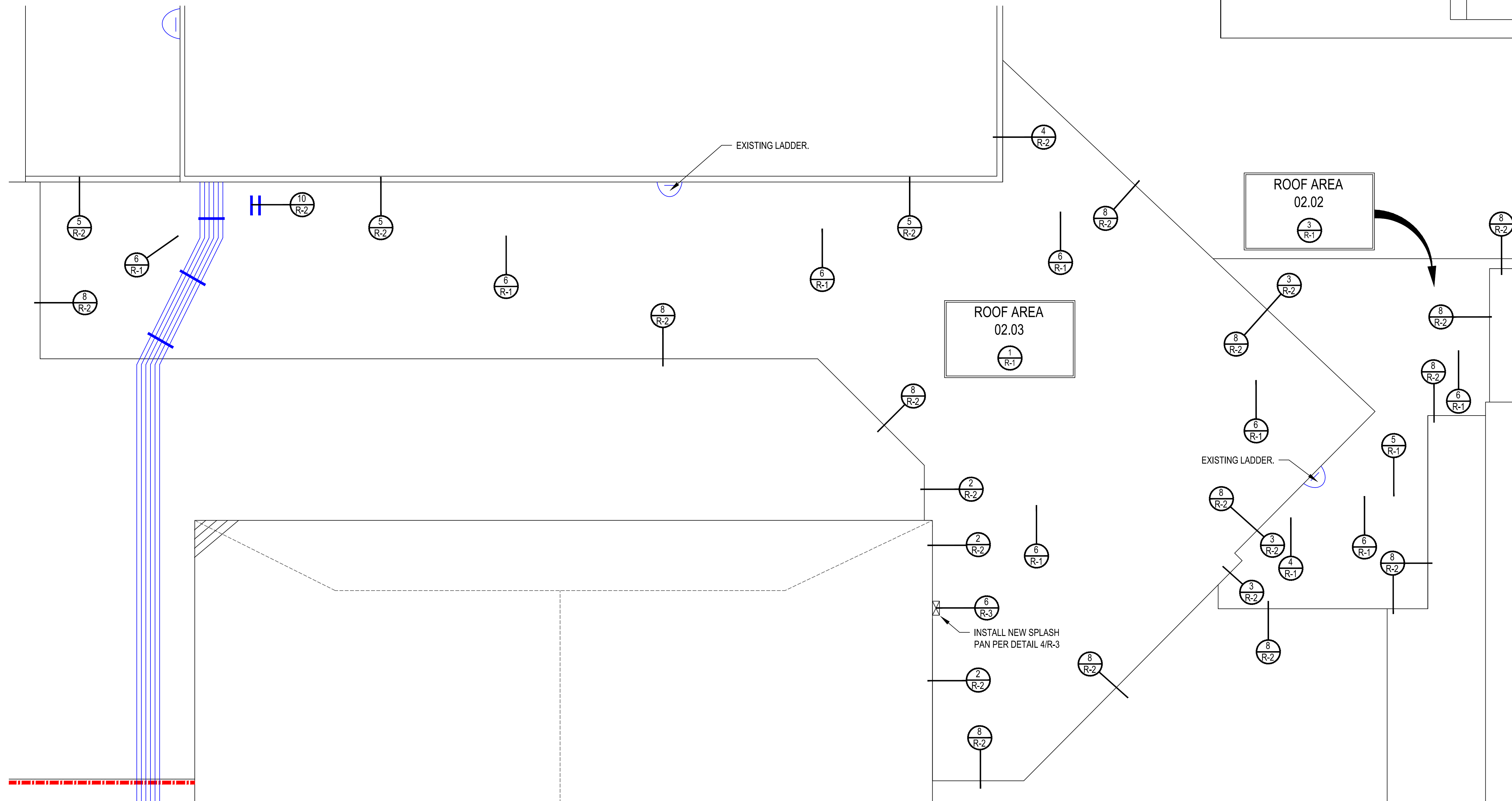
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DP02

PAGE NUMBER

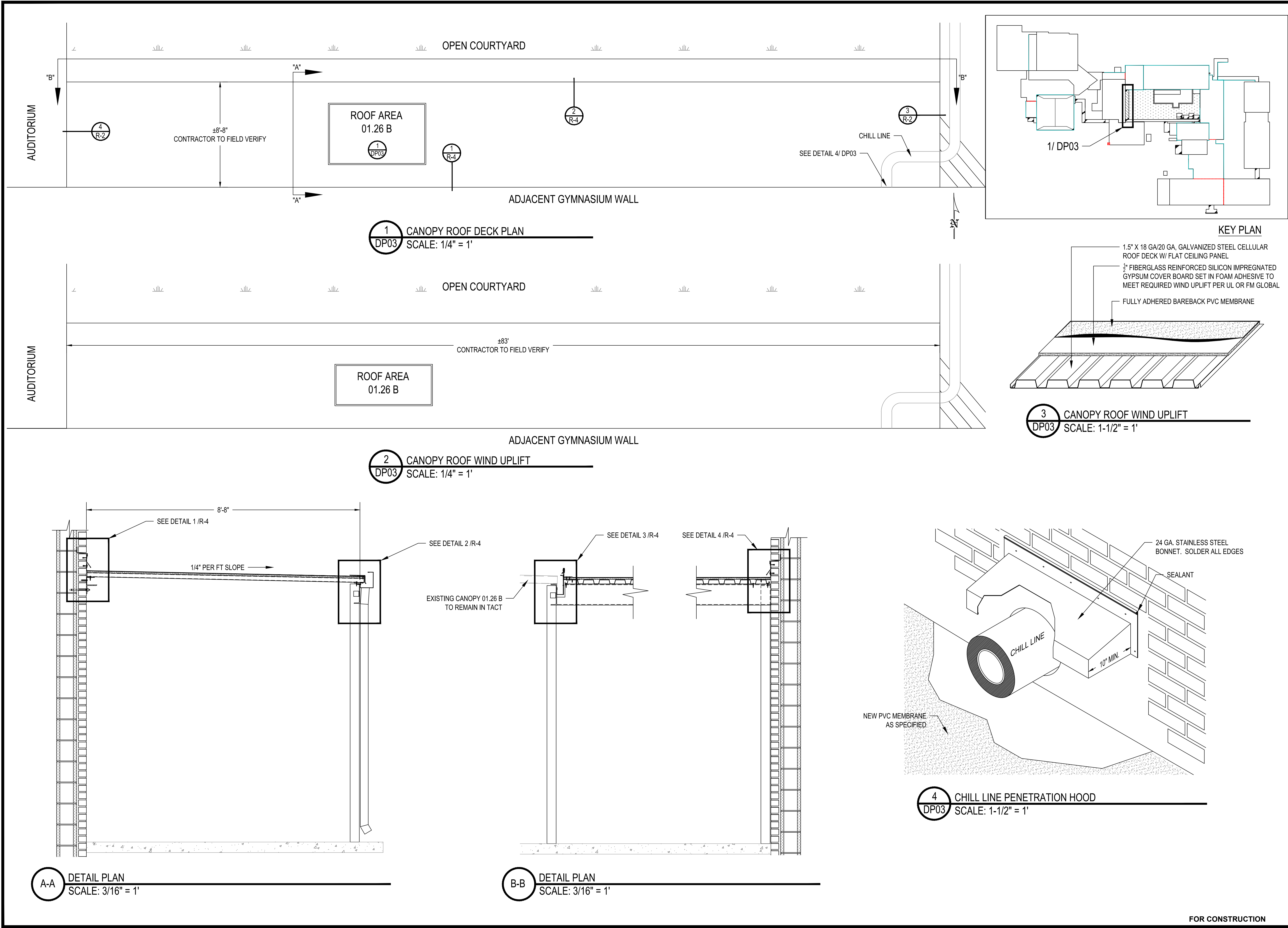


KEY PLAN



1 DETAIL PLAN
DP02 SCALE: 3/16" = 1'

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ROOF RENOVATION PROJECT**

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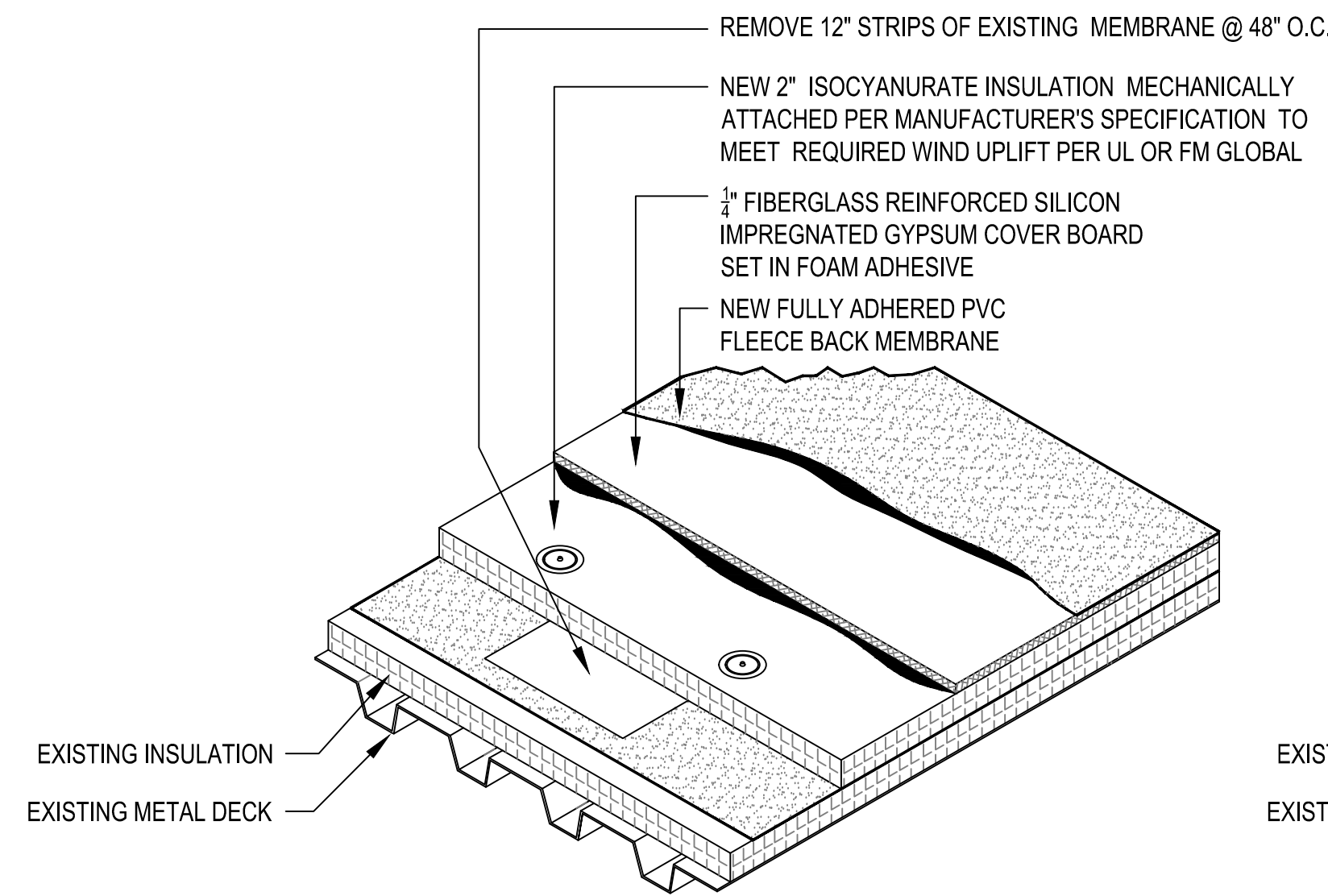
DETAIL PLAN

SHEET TITLE

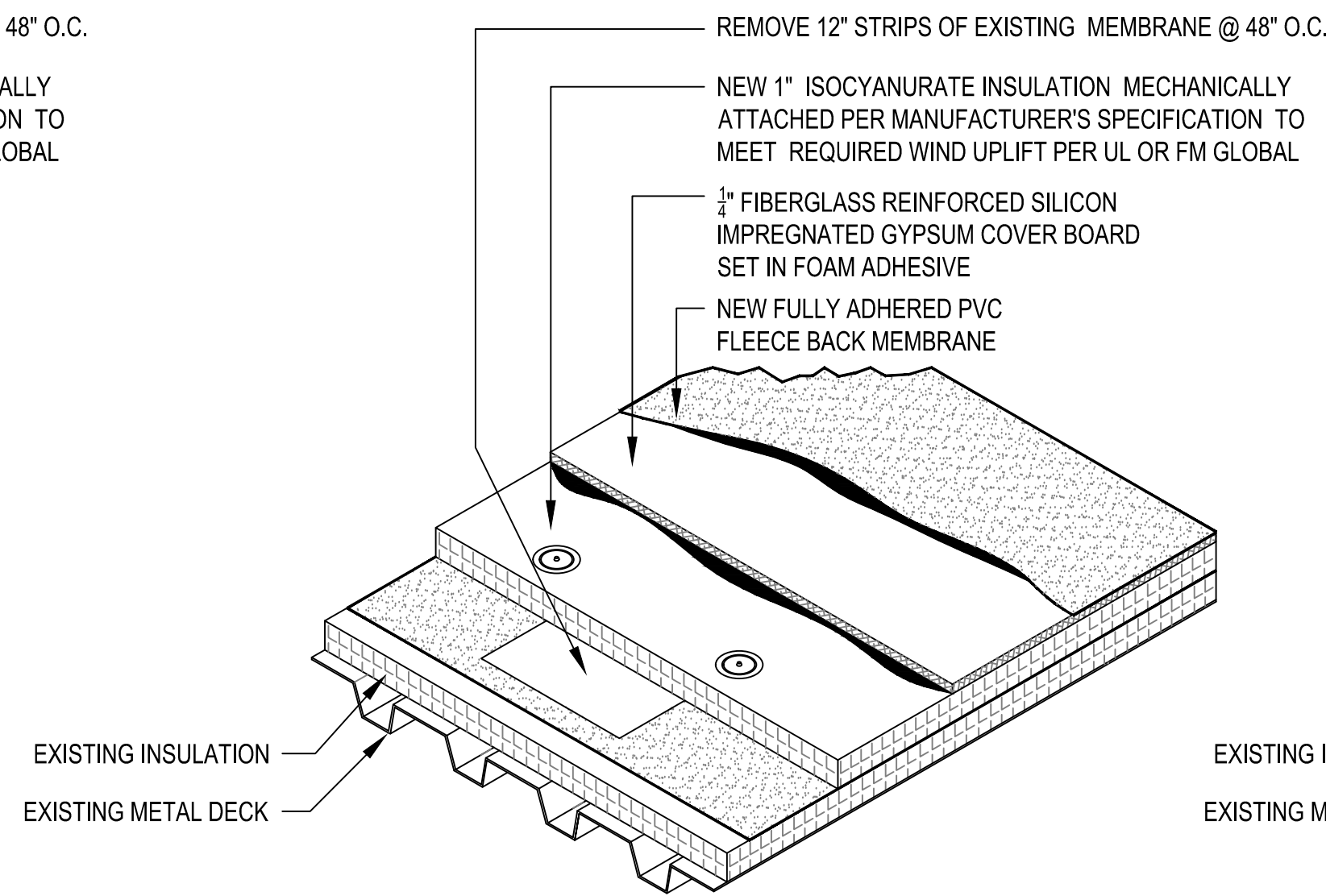
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PAGE NUMBER

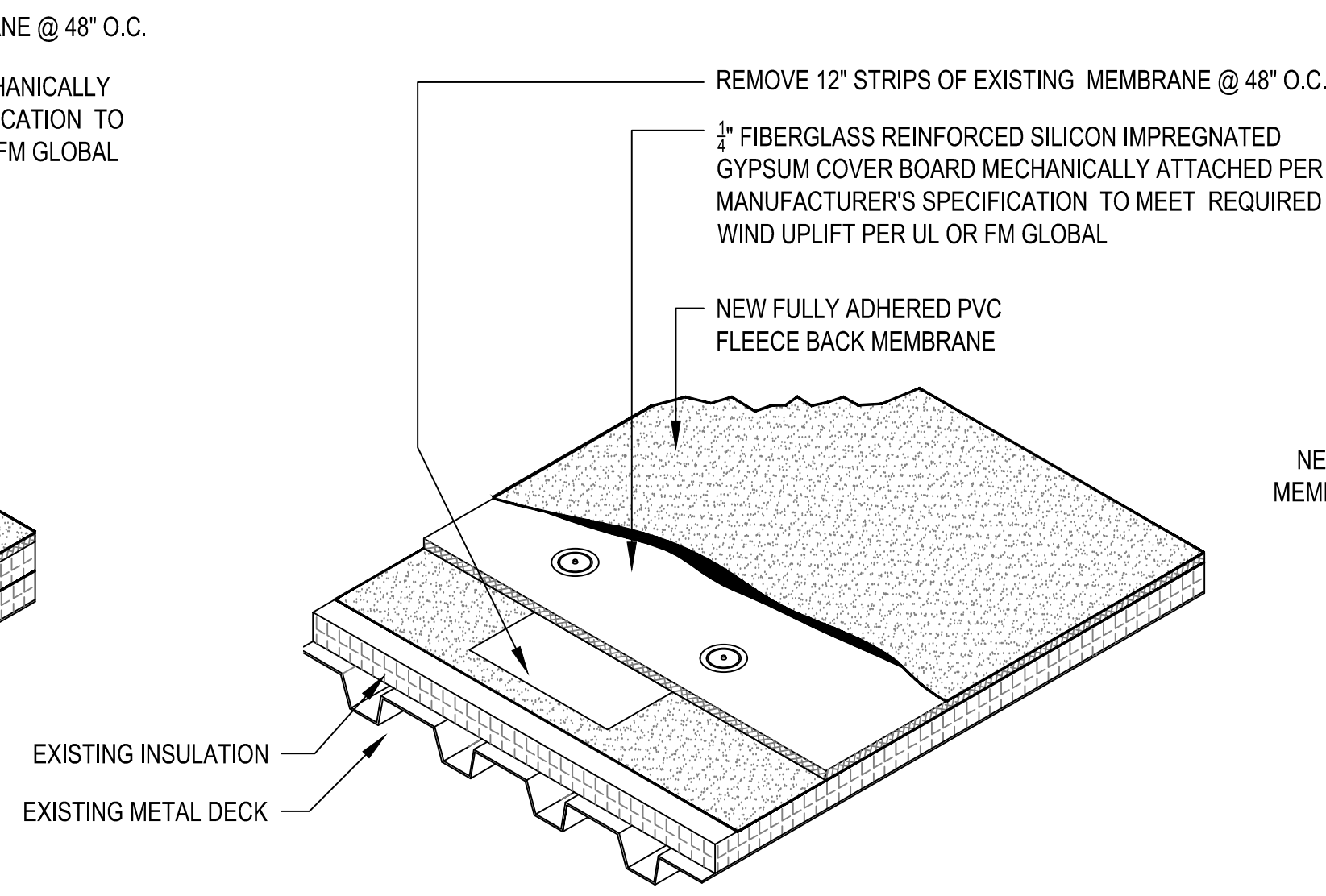
FOR CONSTRUCTION



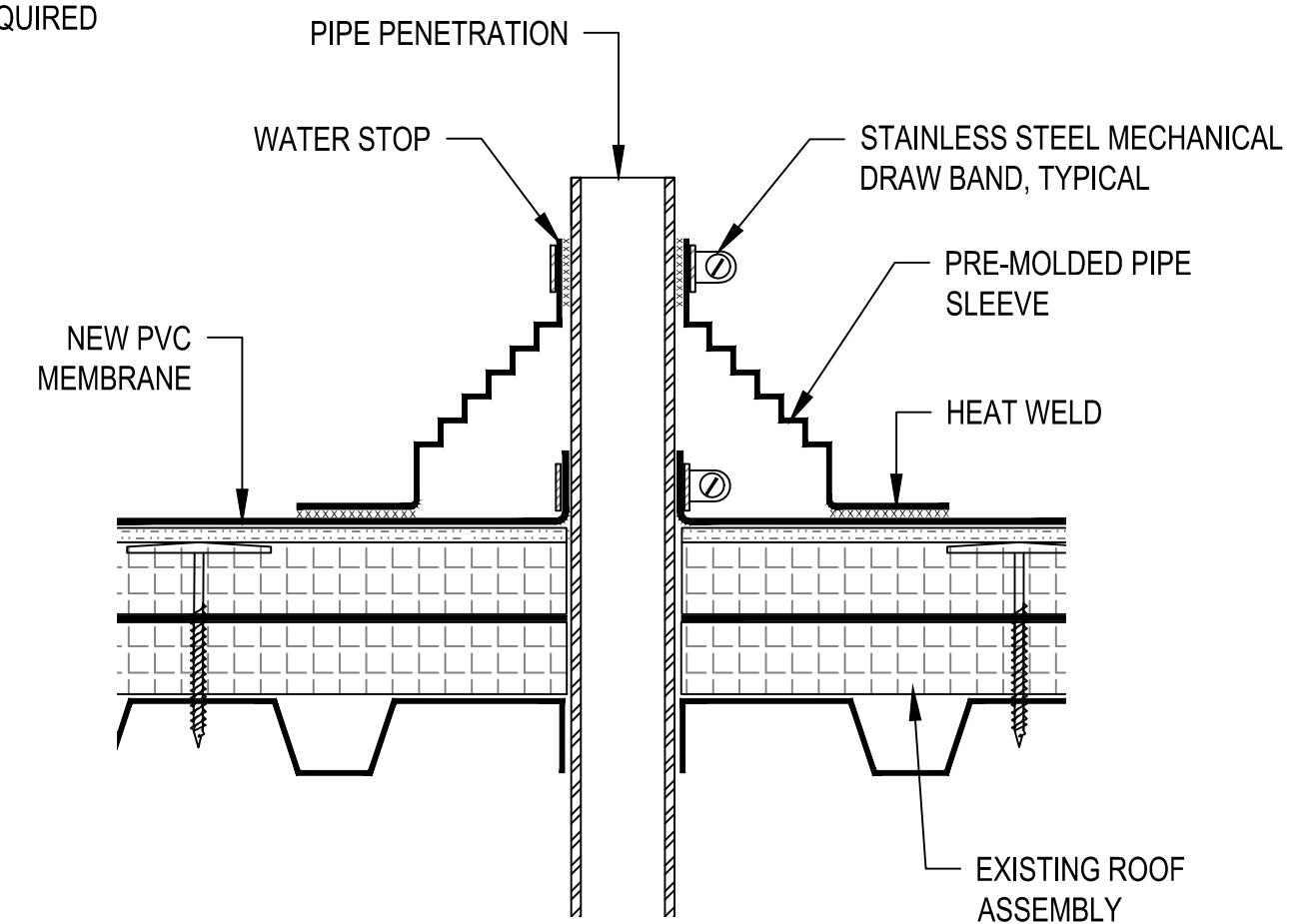
1 ASSEMBLY DETAIL (02.03, 02.07, 02.08)
R-1 SCALE: 1-1/2" = 1'



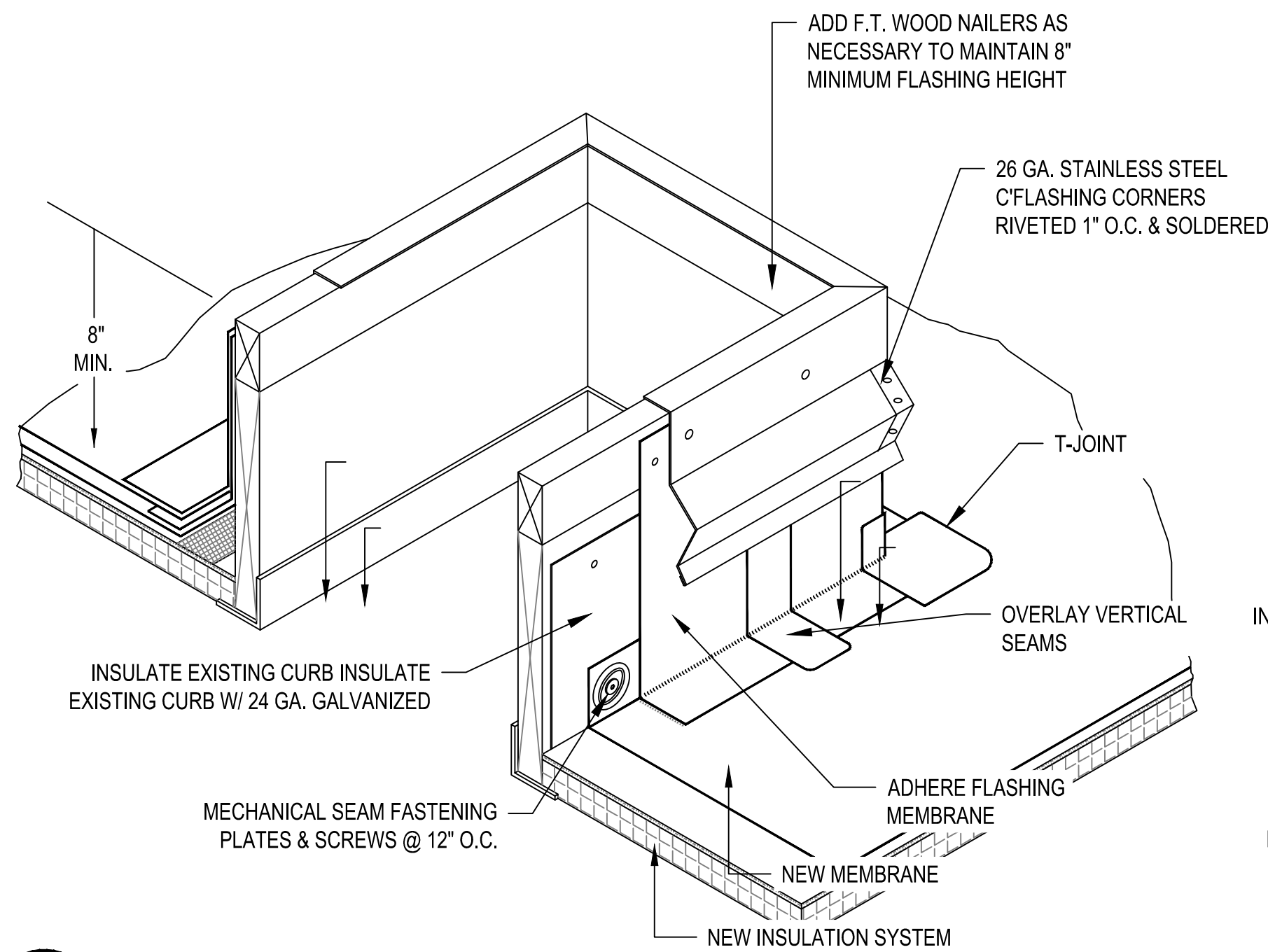
2 ASSEMBLY DETAIL (02.09)
R-1 SCALE: 1-1/2" = 1'



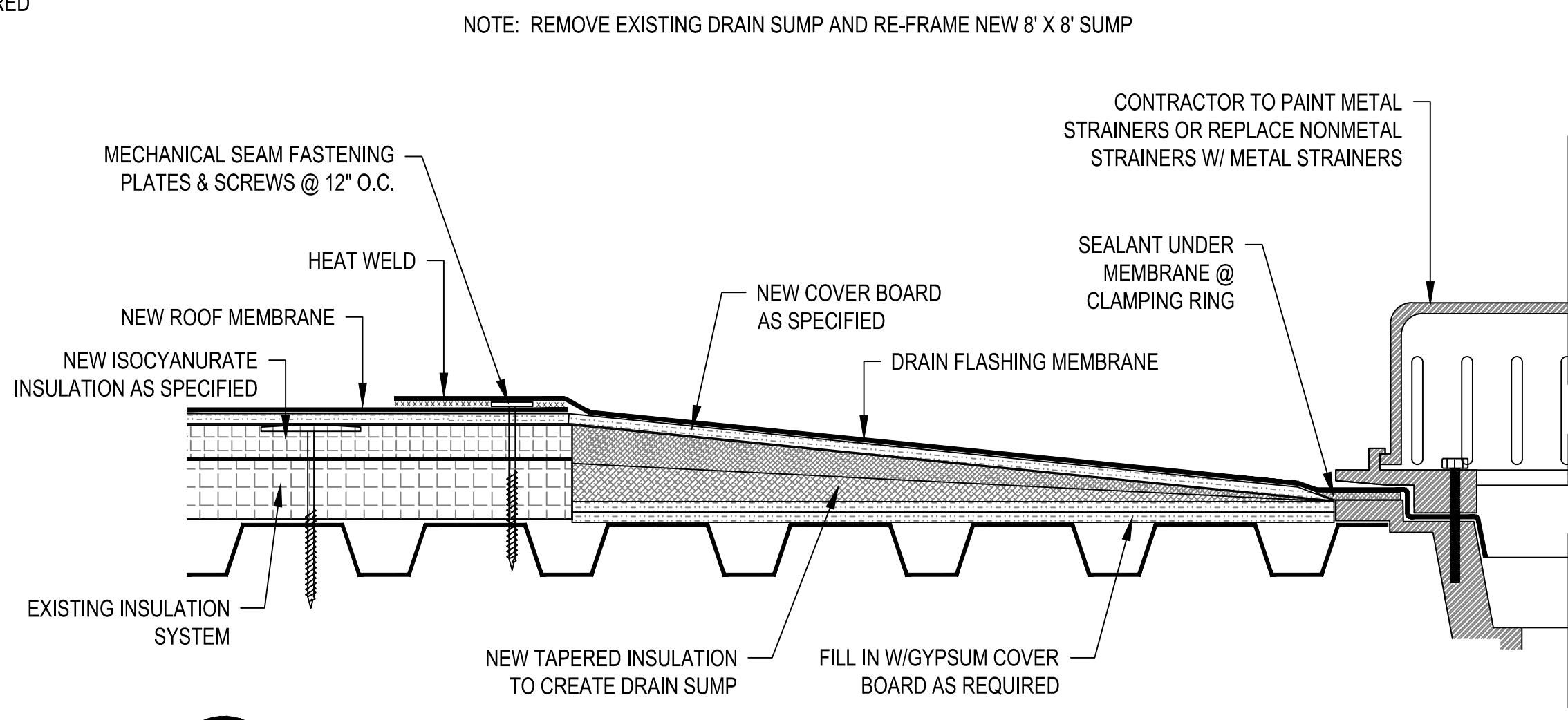
3 ASSEMBLY DETAIL (02.02)
R-1 SCALE: 1-1/2" = 1'



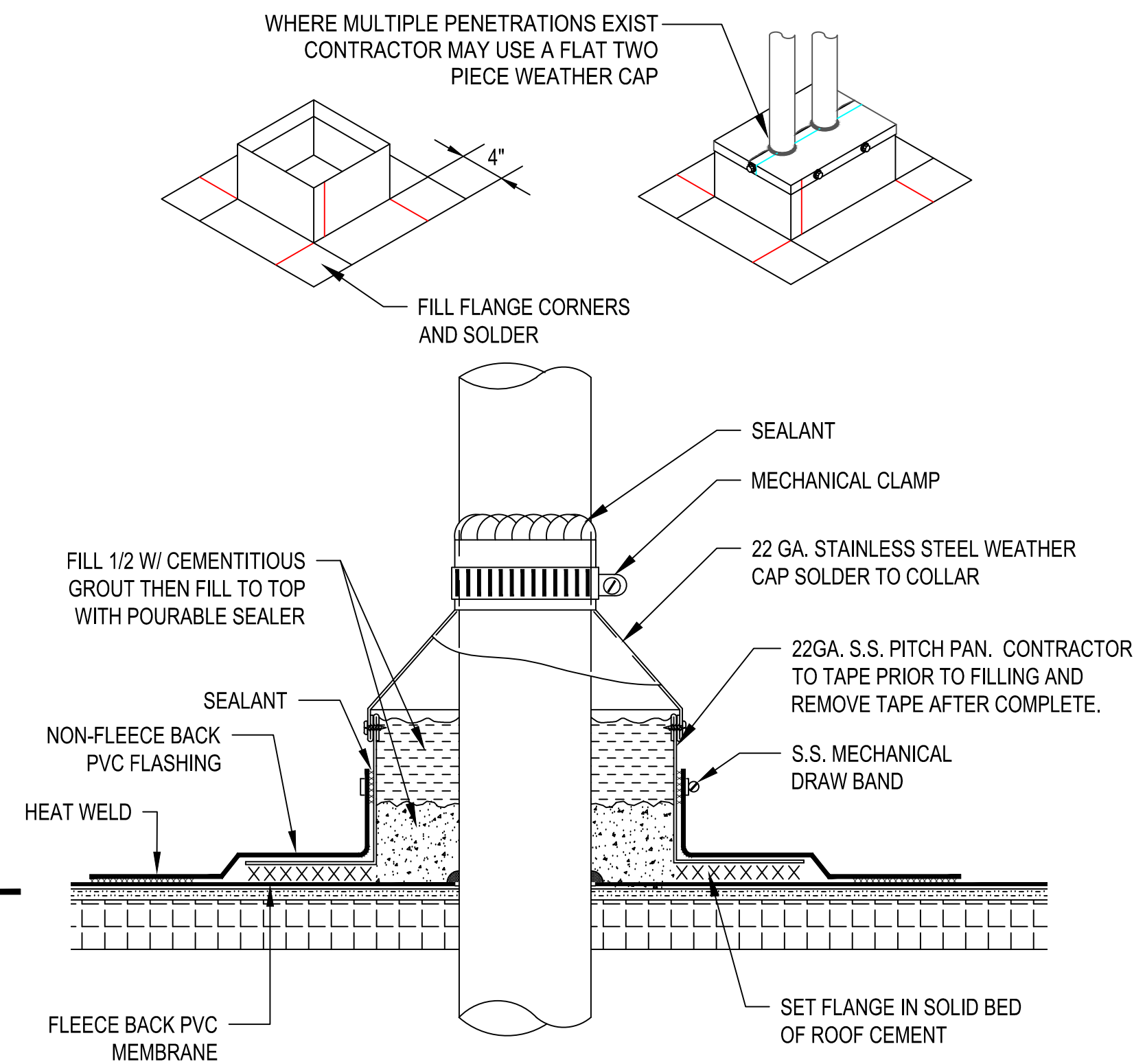
4 PENETRATION DETAIL
R-1 SCALE: 3" = 1'



5 TYPICAL CURB DETAIL
R-1 SCALE: 1-1/2" = 1'



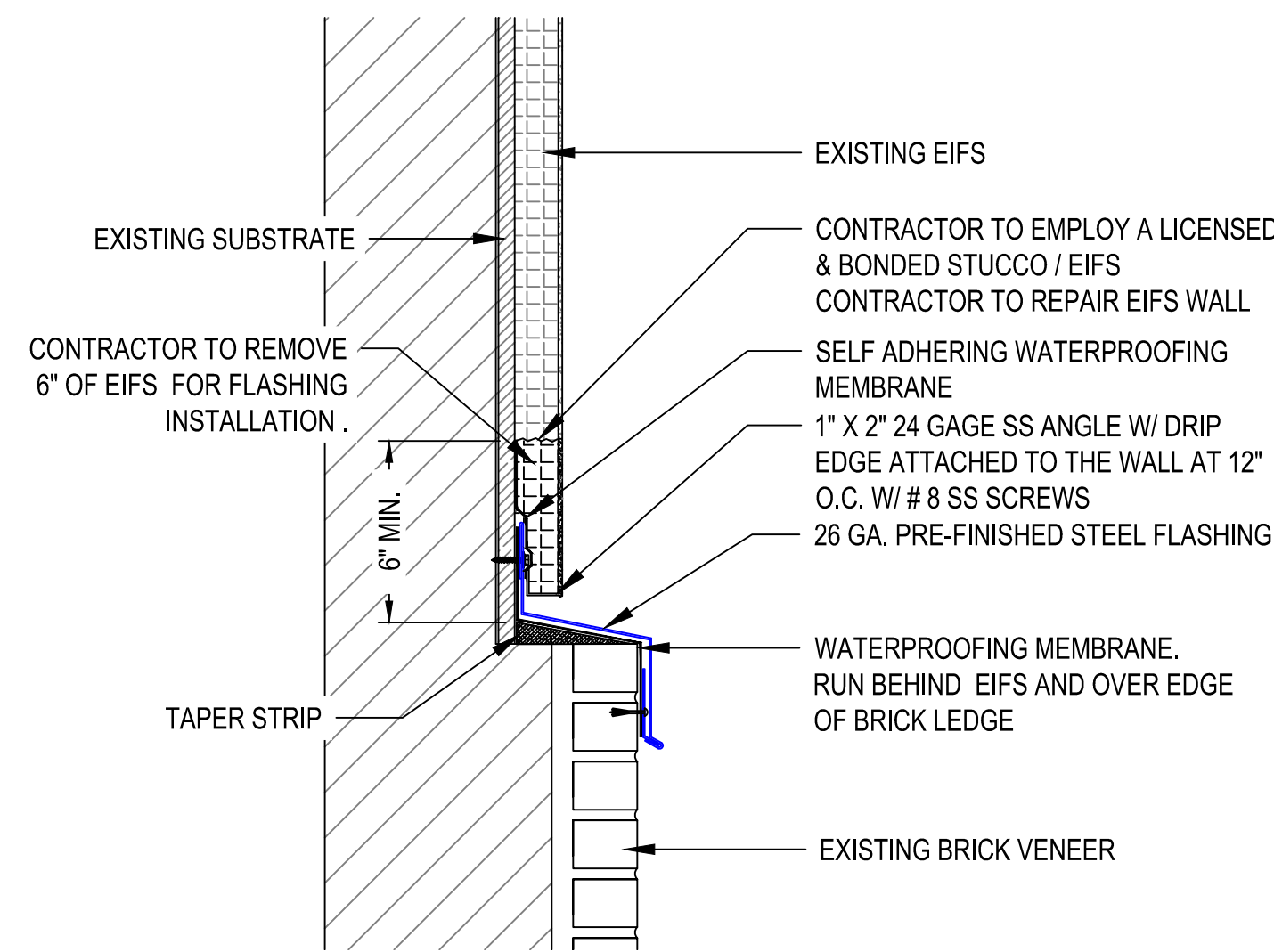
6 DRAIN SUMP DETAIL- 60"
R-1 SCALE: 3" = 1'



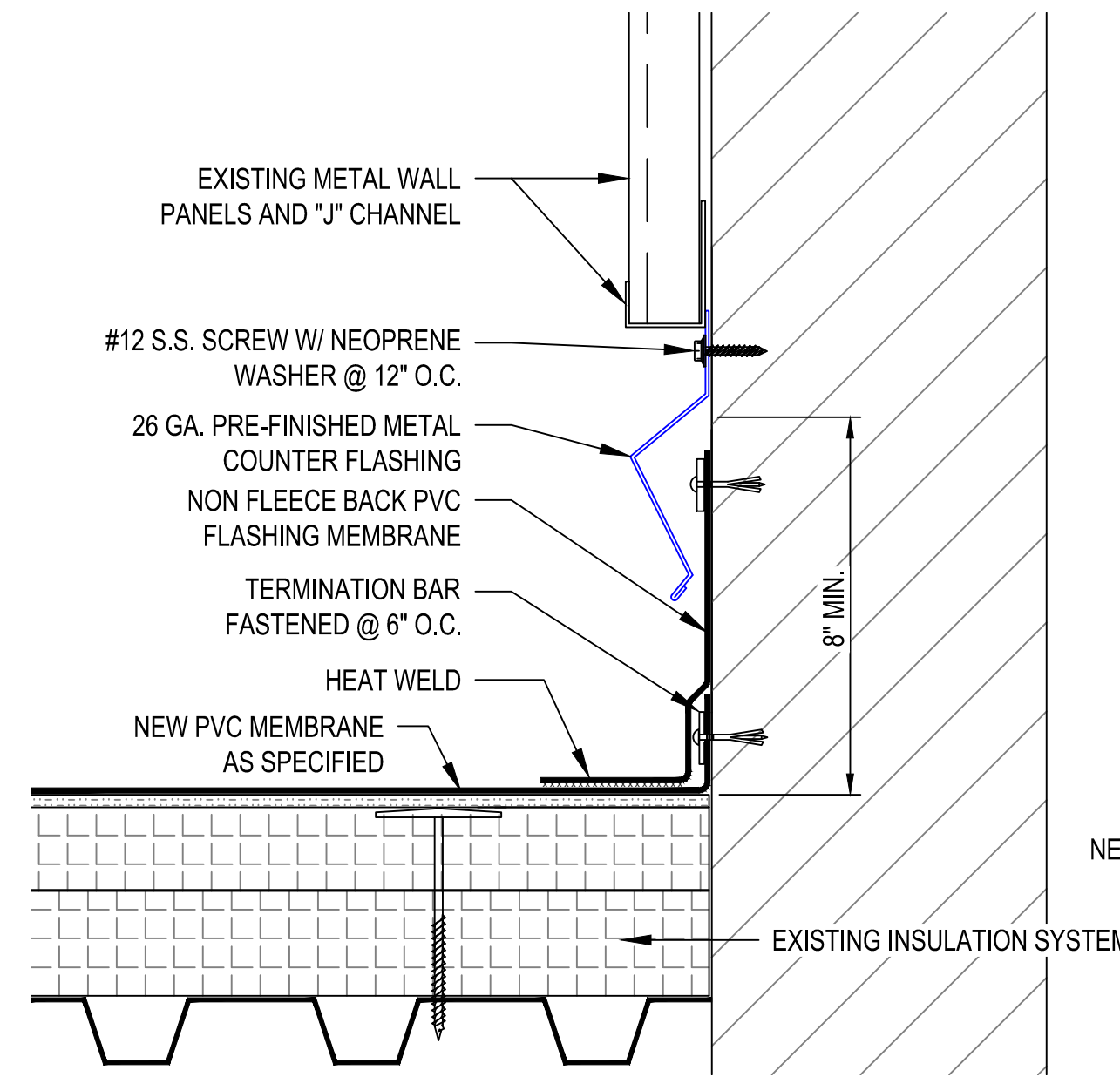
7 PITCH PAN DETAIL
R-1 SCALE: 3" = 1'

MARK	DATE	DESCRIPTION
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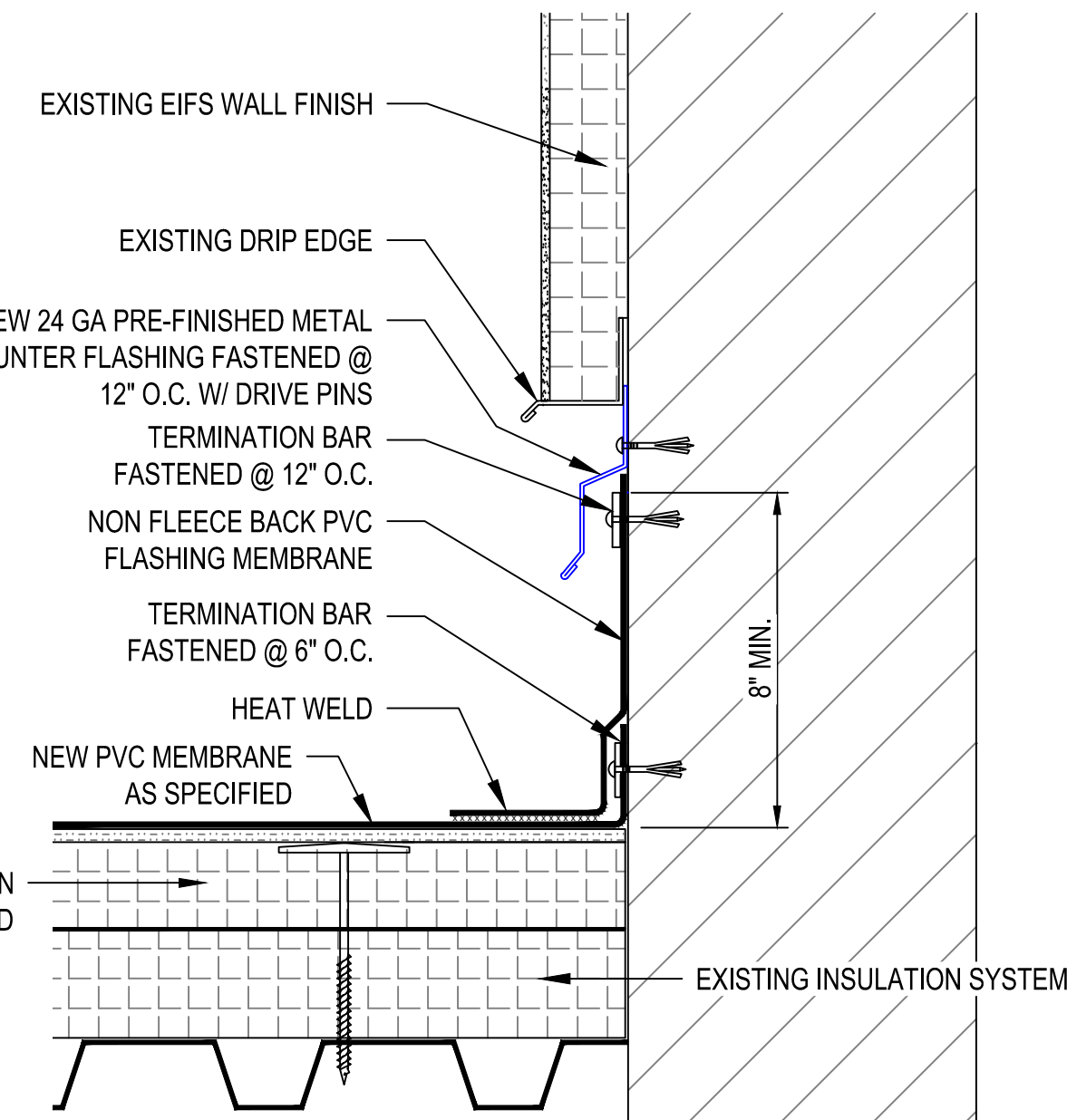
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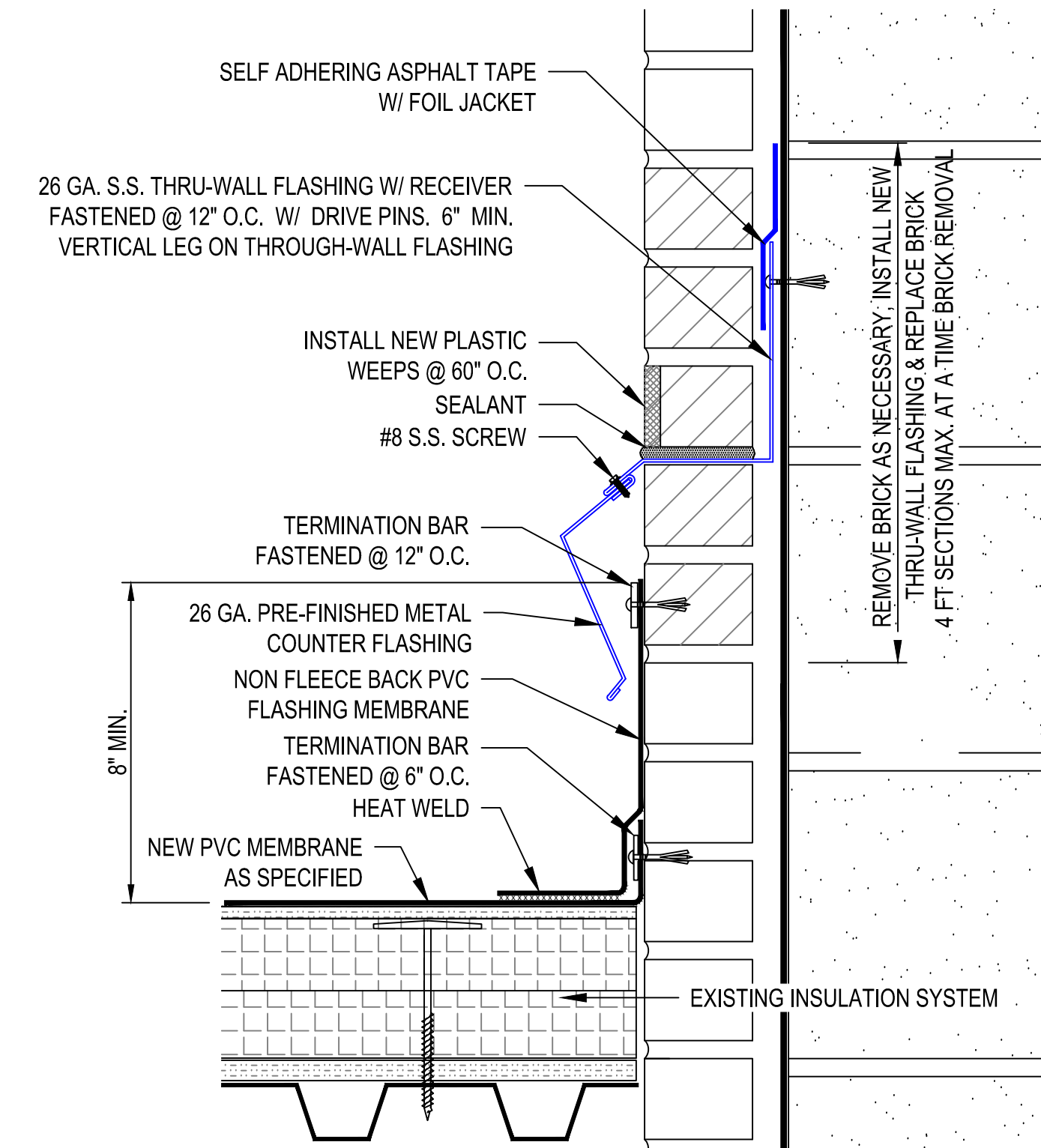
1 MASONRY LEDGE CAP DETAIL
R-2 SCALE: 1-1/2" = 1'



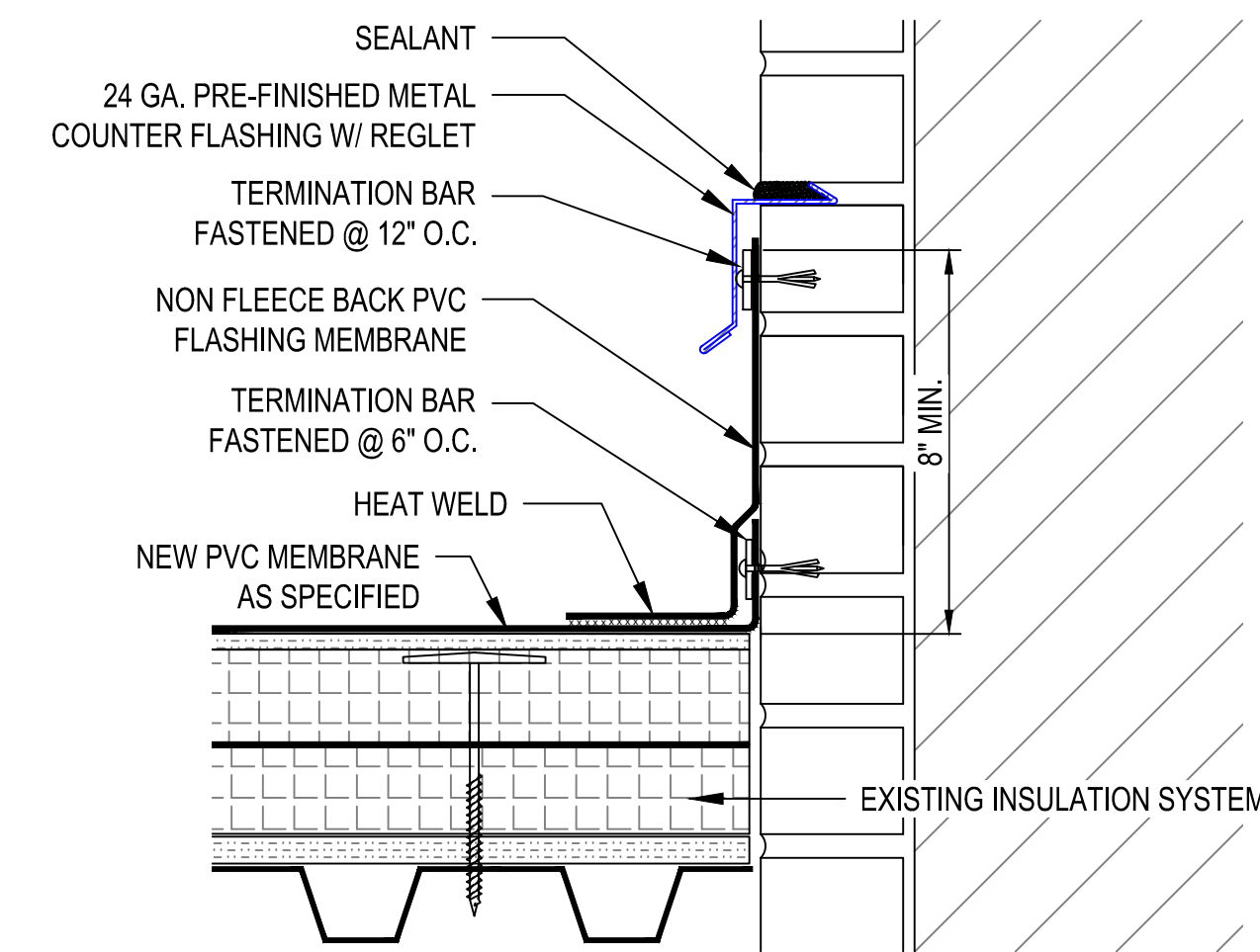
2 WALL FLASHING DETAIL
R-2 SCALE: 3" = 1'



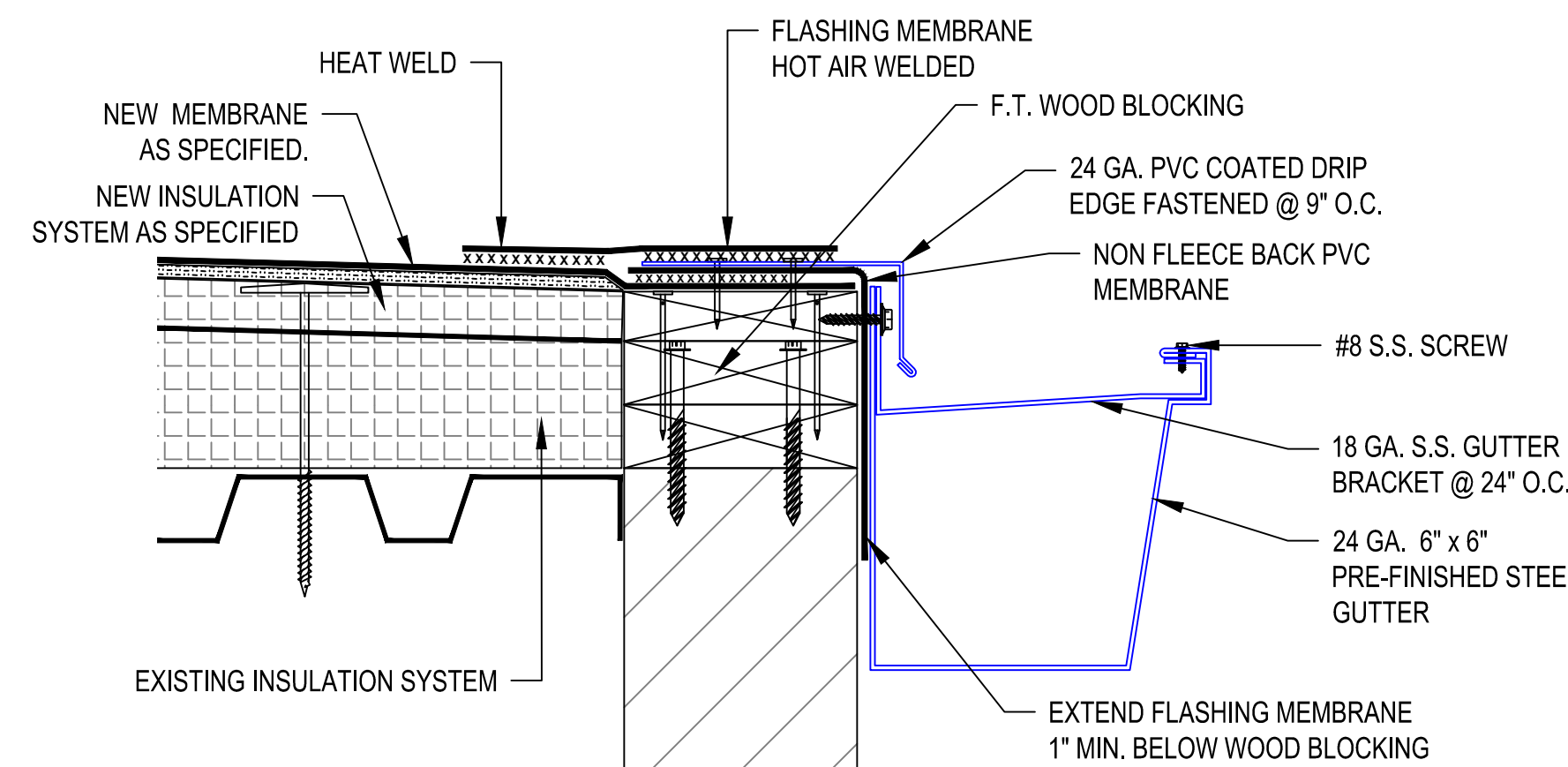
3 WALL FLASHING @ EIFS DETAIL
R-2 SCALE: 3" = 1'



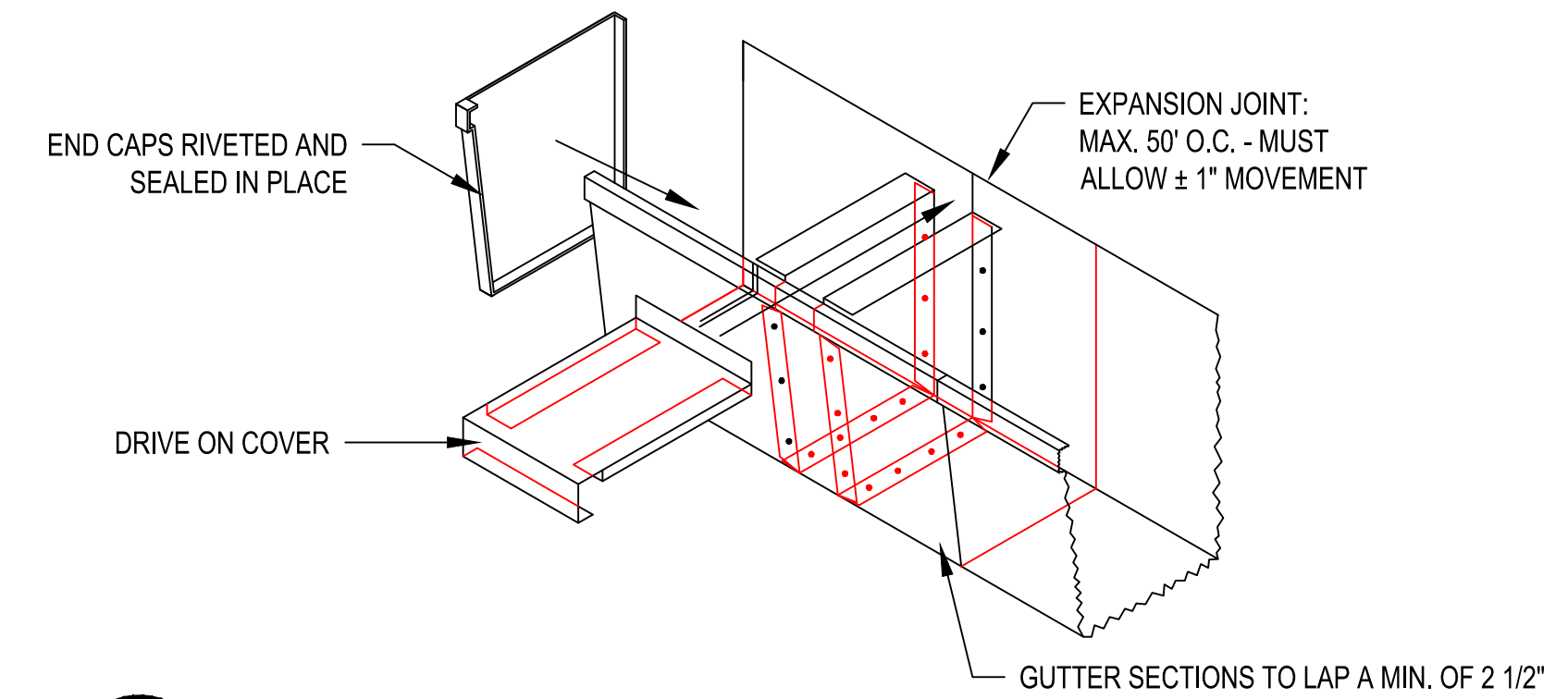
4 NEW THROUGH WALL FLASHING DETAIL
R-2 SCALE: 3" = 1'



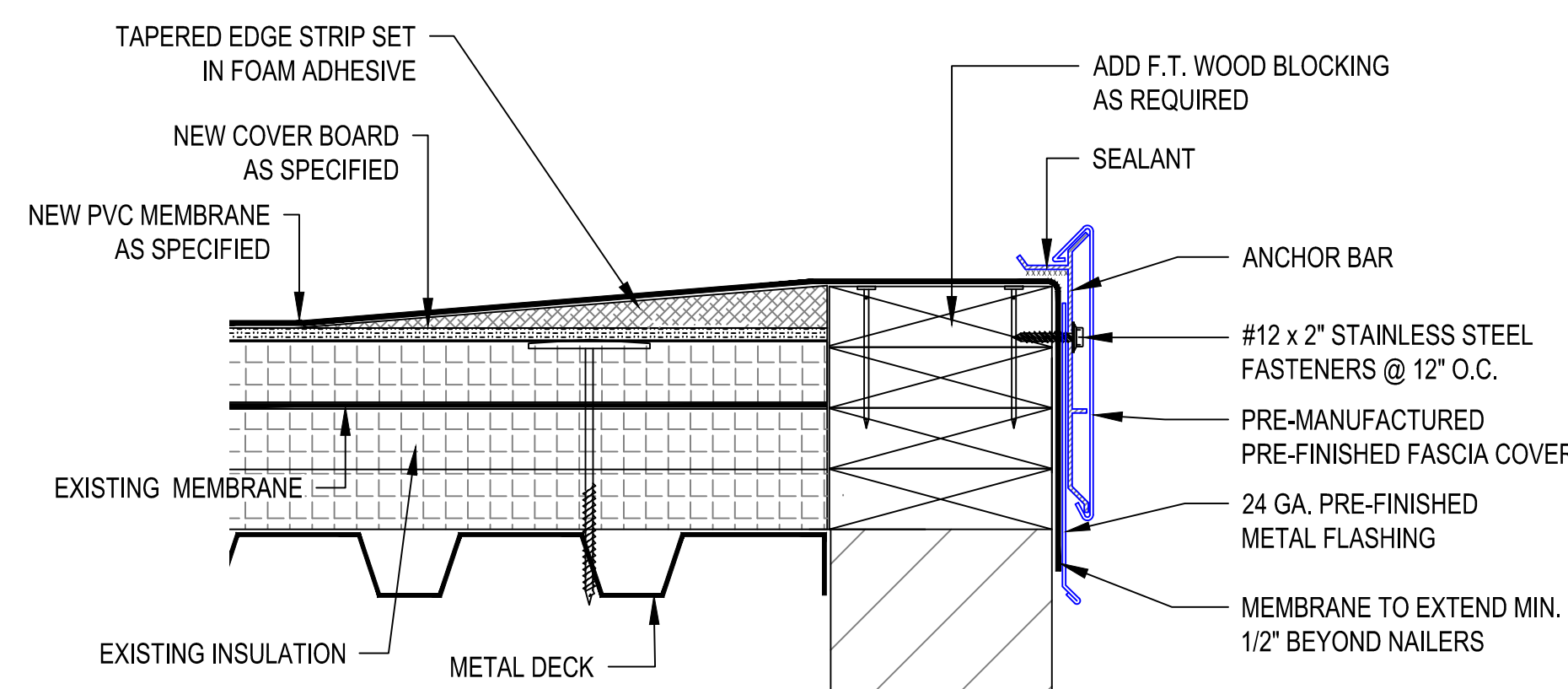
5 WALL FLASHING DETAIL
R-2 SCALE: 3" = 1'



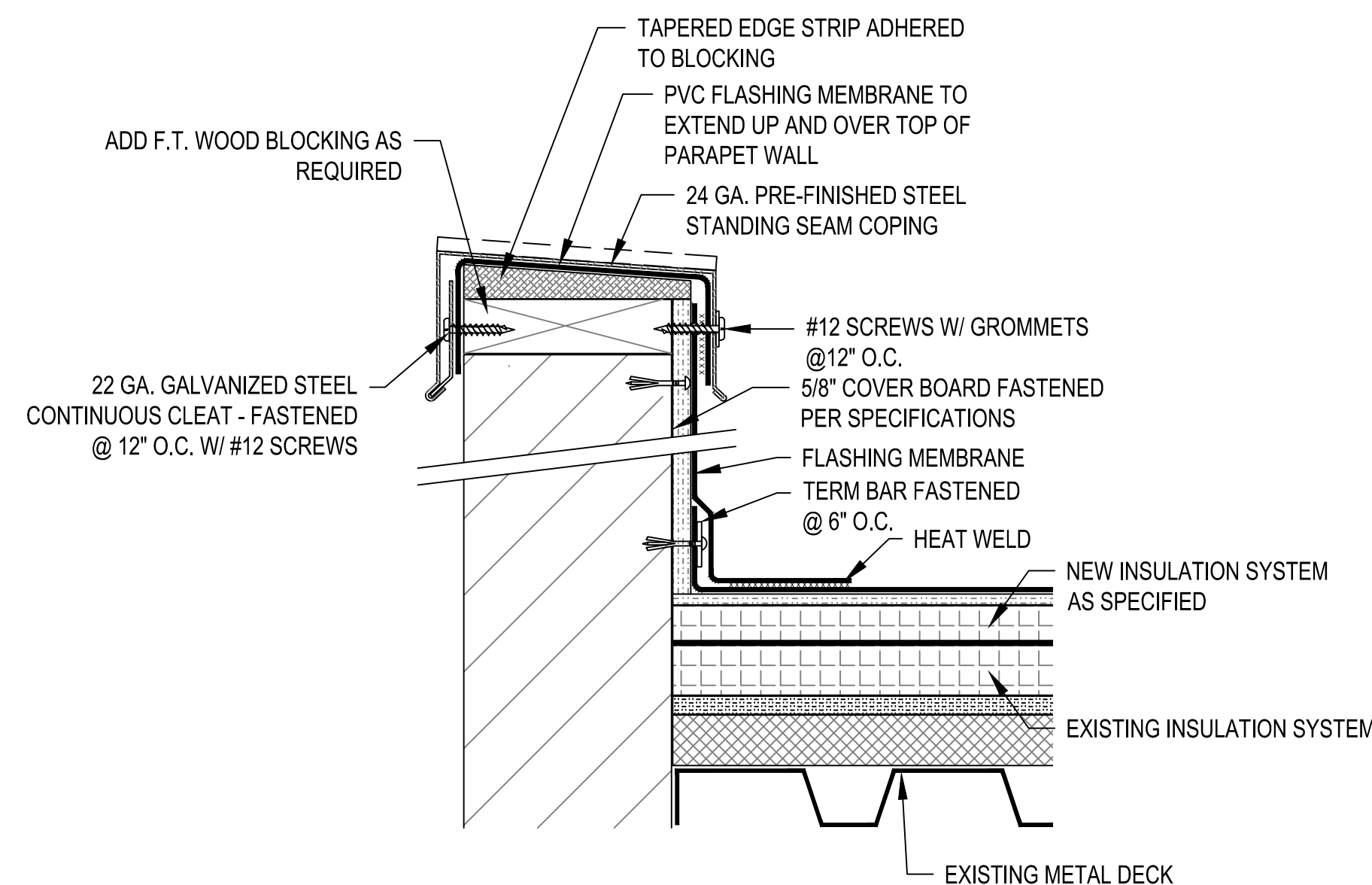
6 GUTTER EDGE DETAIL (02.08)
R-2 3" = 1'



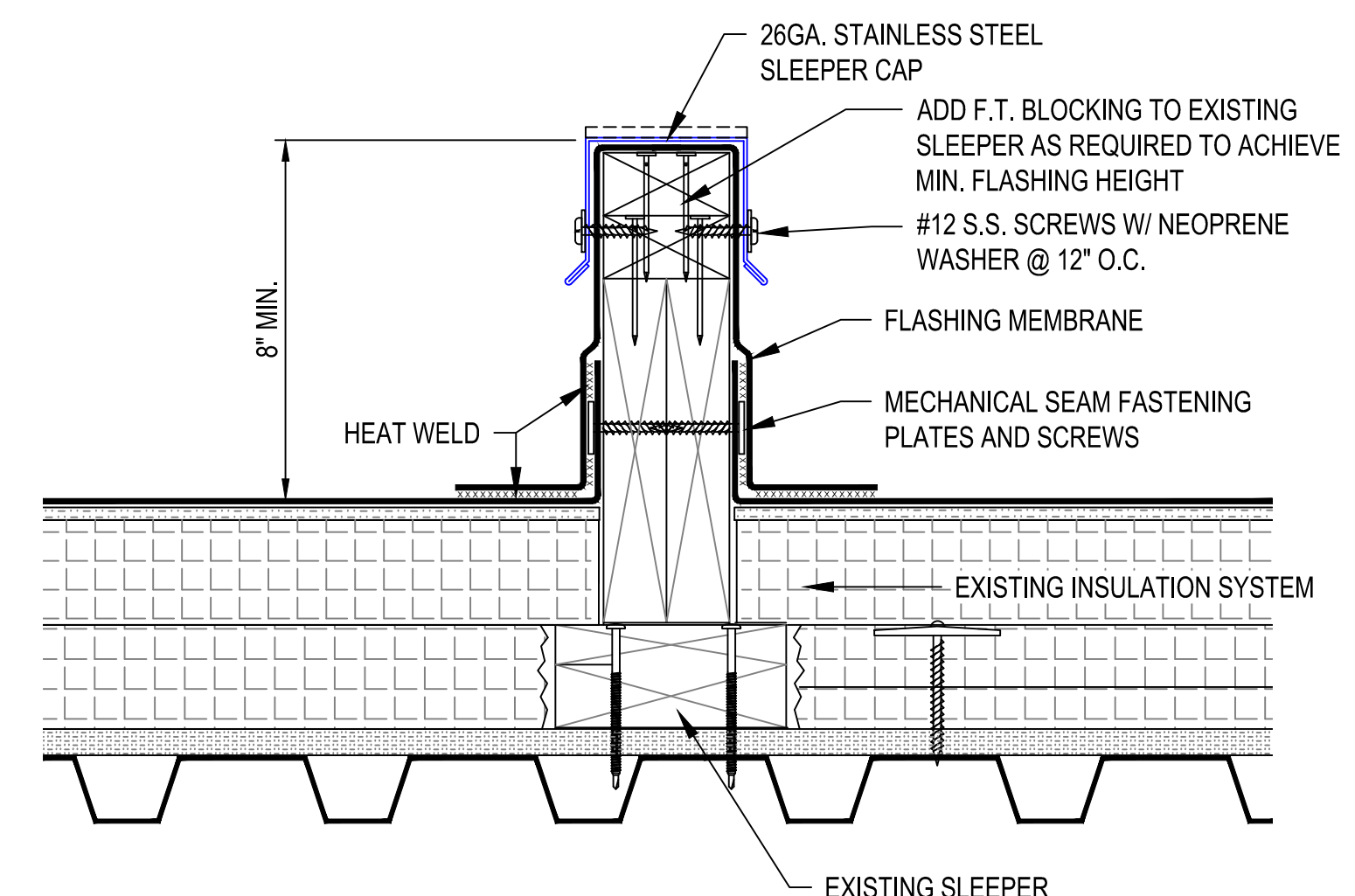
7 TYP. GUTTER ASSEMBLY
R-2 3" = 1'



8 EDGE DETAIL
R-2 SCALE: 3" = 1'



9 PARAPET WALL DETAIL
R-2 SCALE: 3" = 1'



10 SLEEPER DETAIL
R-2 3" = 1'

FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
	0-00-0000	XXXXXXXX

CAD DWG FILE:

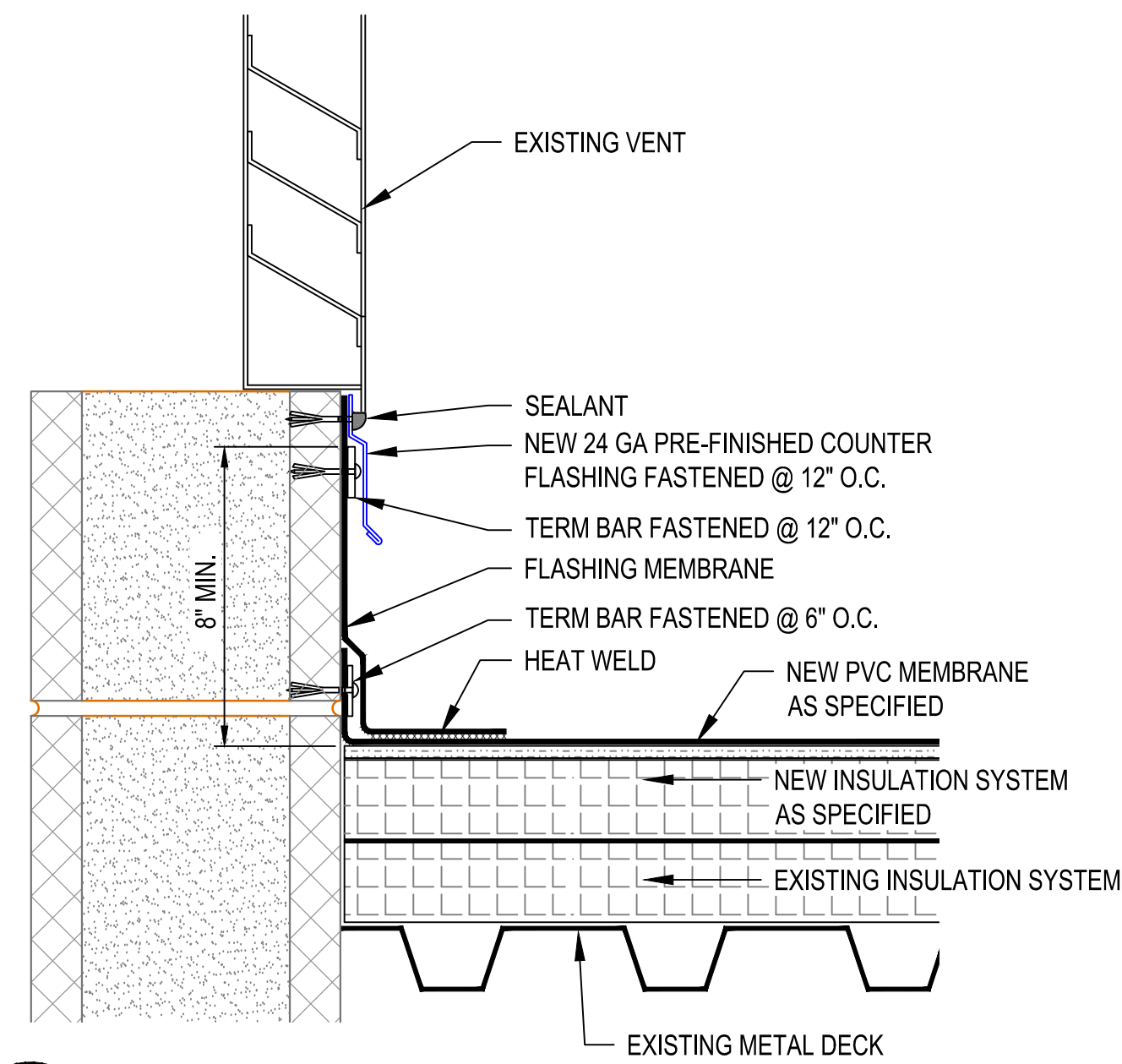
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ROOF DETAILS

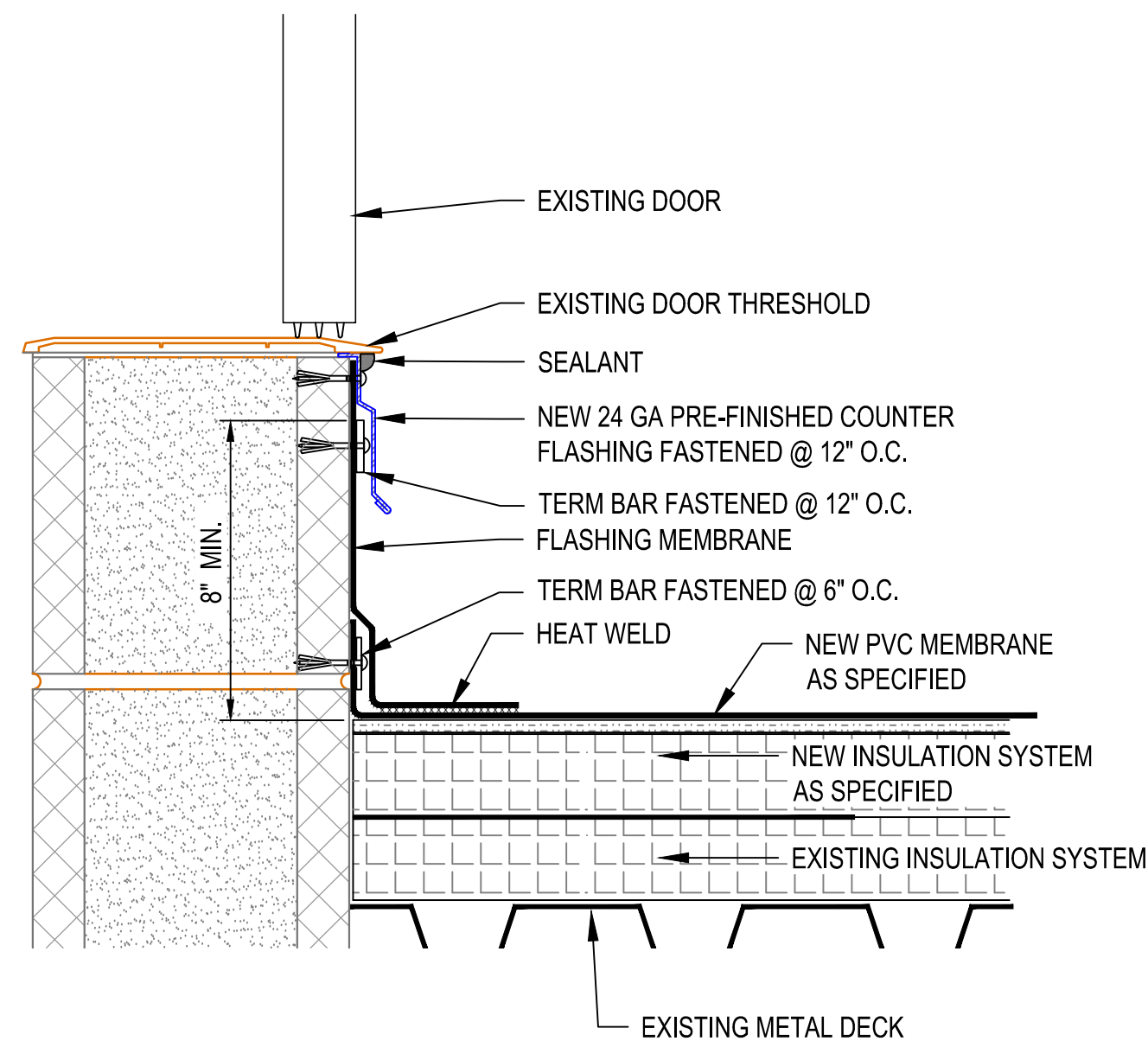
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R-2

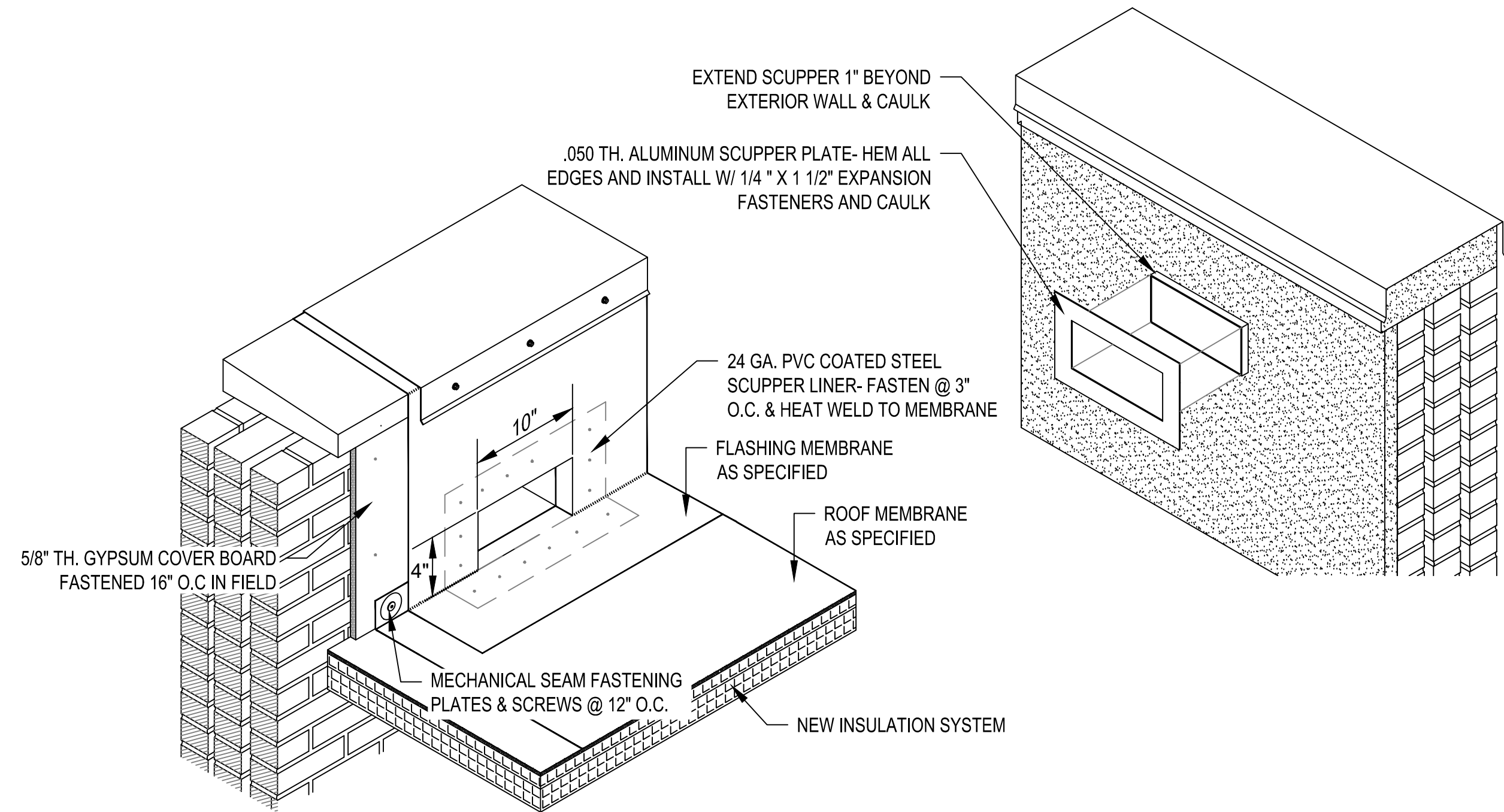
PAGE NUMBER



1 WALL FLASHING @ VENT DETAIL
R-3 SCALE: 3" = 1'

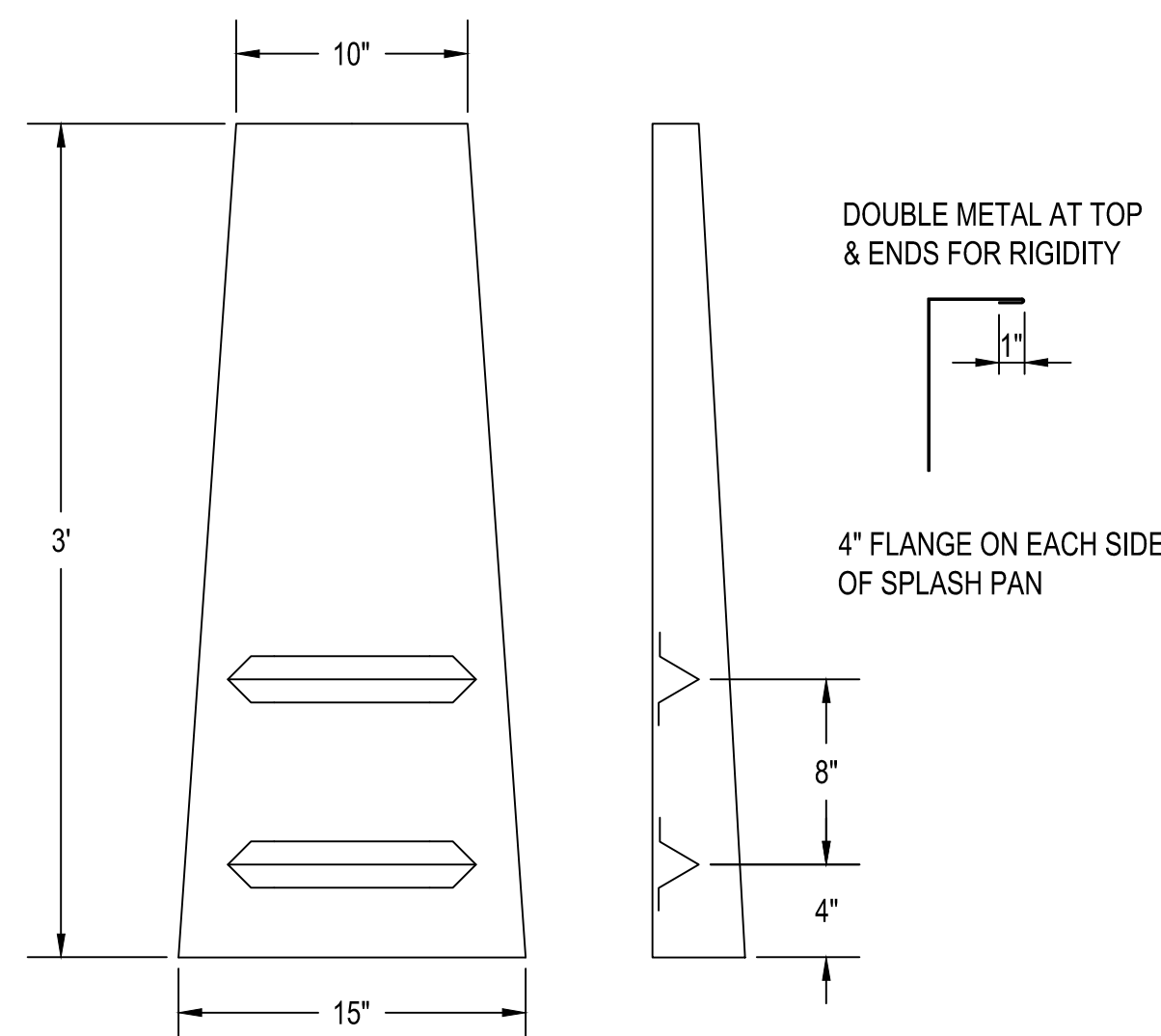


2 WALL FLASHING @ DOOR DETAIL
R-3 SCALE: 3" = 1'



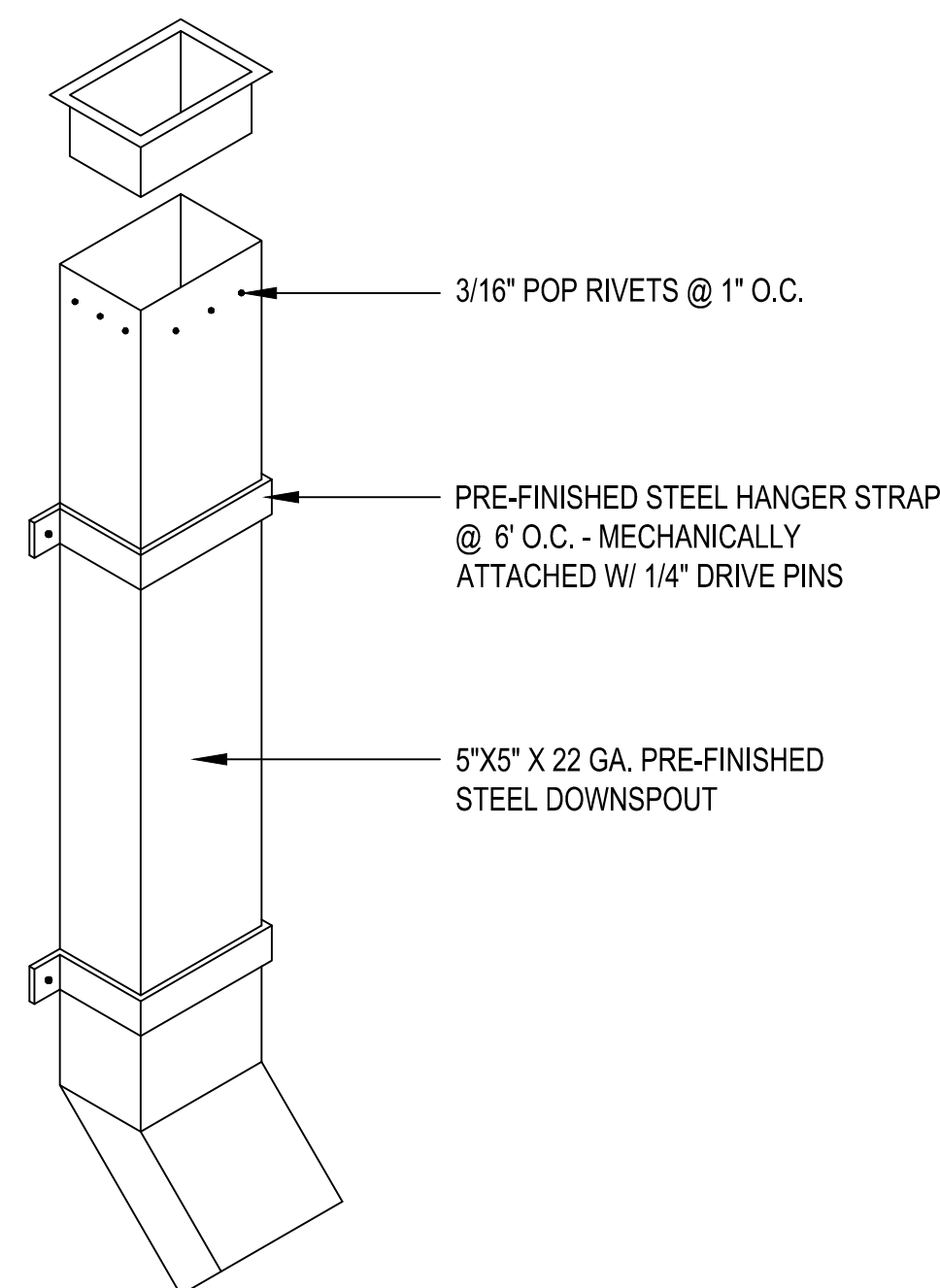
3 TROUGH WALL SCUPPER
R-3 1" = 1'

SPLASH PANS TO BE FABRICATED FROM 26 GA. STAINLESS STEEL, AND SET ON WALK PAD EXTENDING 4" PAST PAN IN ALL DIRECTIONS. ADHERE SPLASH PAN TO WALK PAD AND WALK PAD TO ROOF SURFACE. POSITION DIRECTLY UNDER DOWNSPOUT

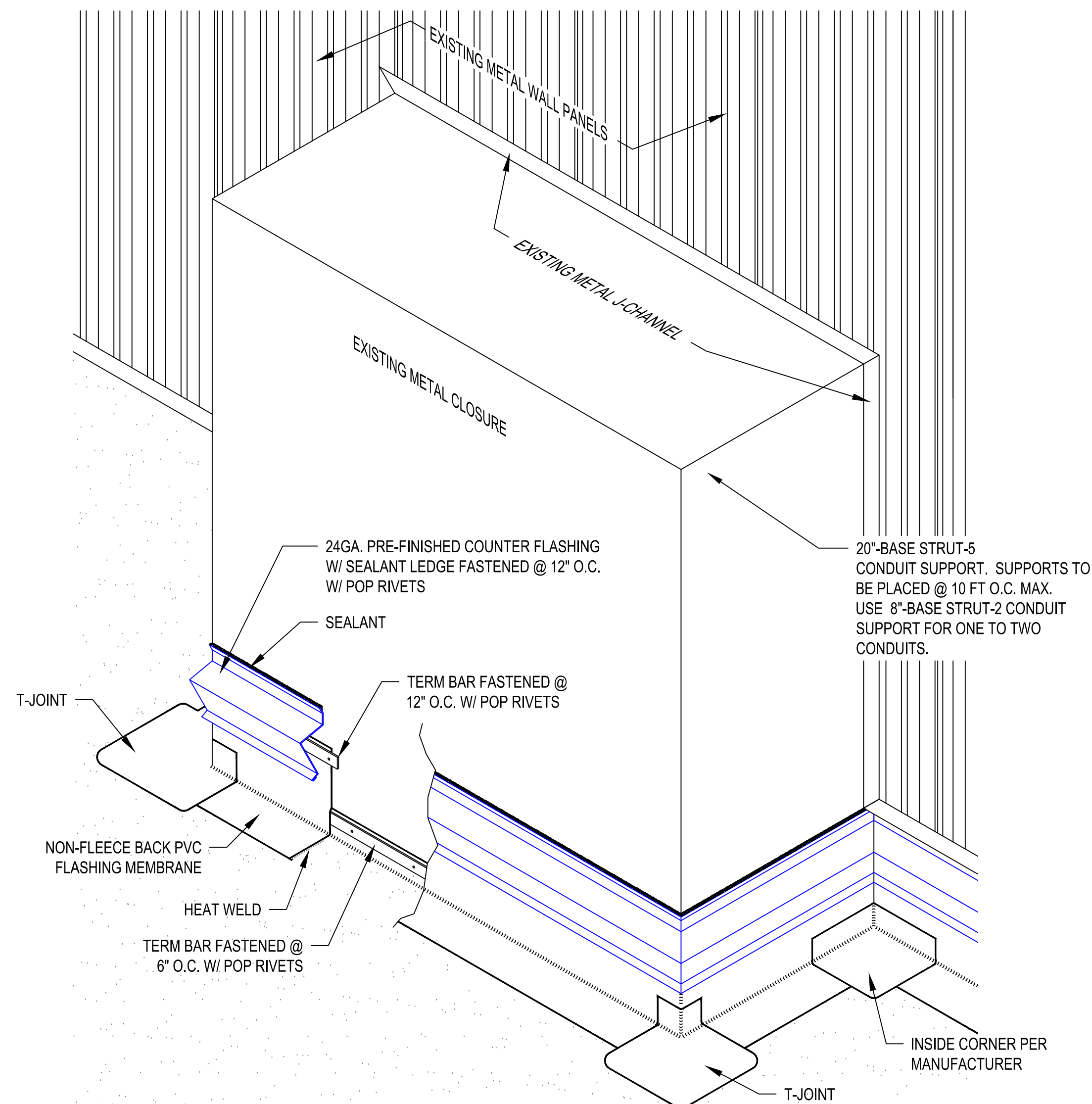


SOLDER WATER BREAKS TO PAN BASE AND CLOSE ENDS APPROX. 1" FROM PAN SIDES

4 SPLASH PAN DETAIL
R-3 SCALE: 1-1/2" = 1'



5 DOWNSPOUT DETAIL
R-3 SCALE: 1-1/2" = 1'



6 METAL CLOSURE FLASHING DETAIL
R-3 SCALE: 1-1/2" = 1'

MARK	DATE	DESCRIPTION
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CAD DWG FILE:

CHK'D BY:

DATE: 9-5-23

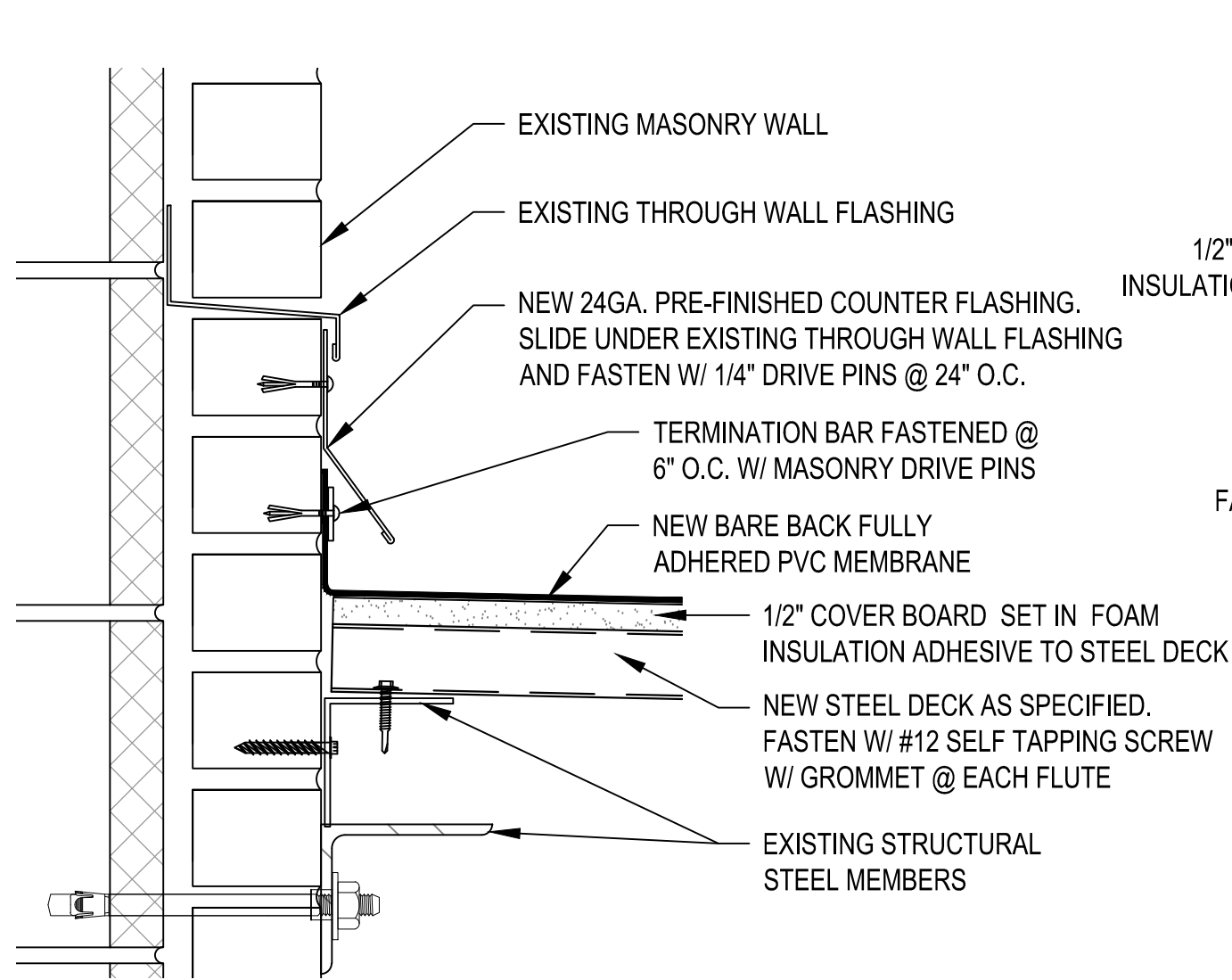
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ROOF DETAILS

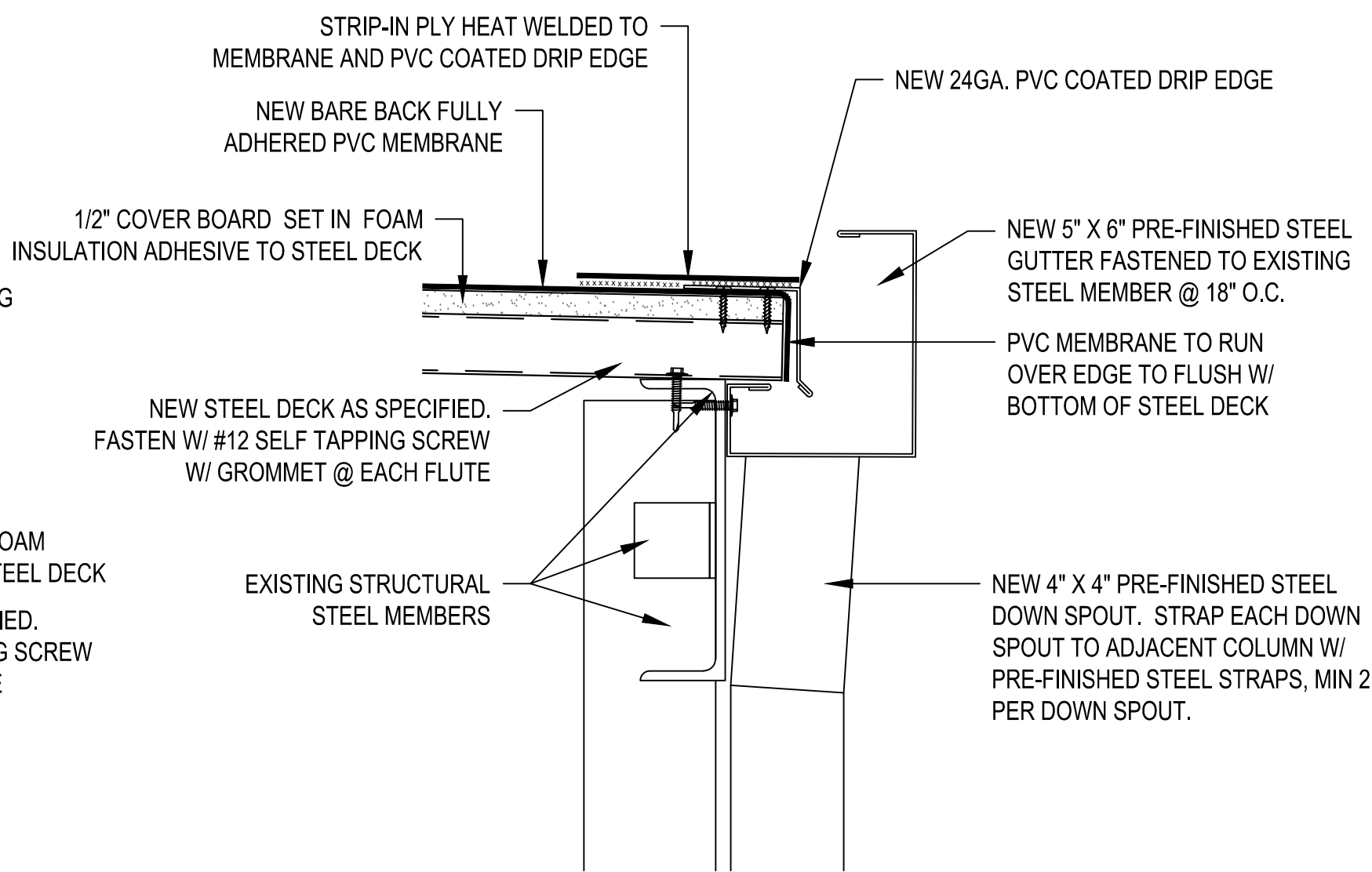
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R-3

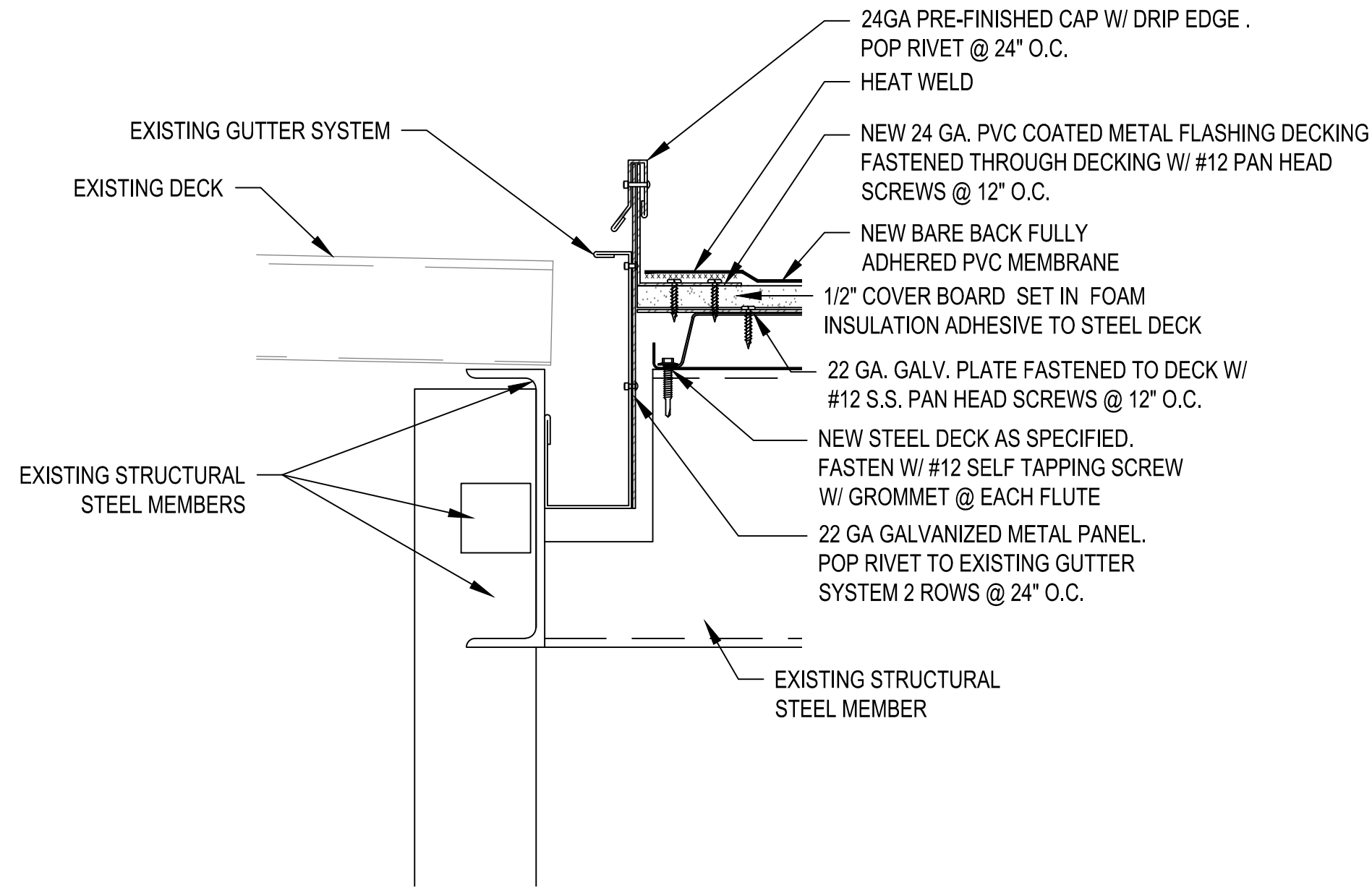
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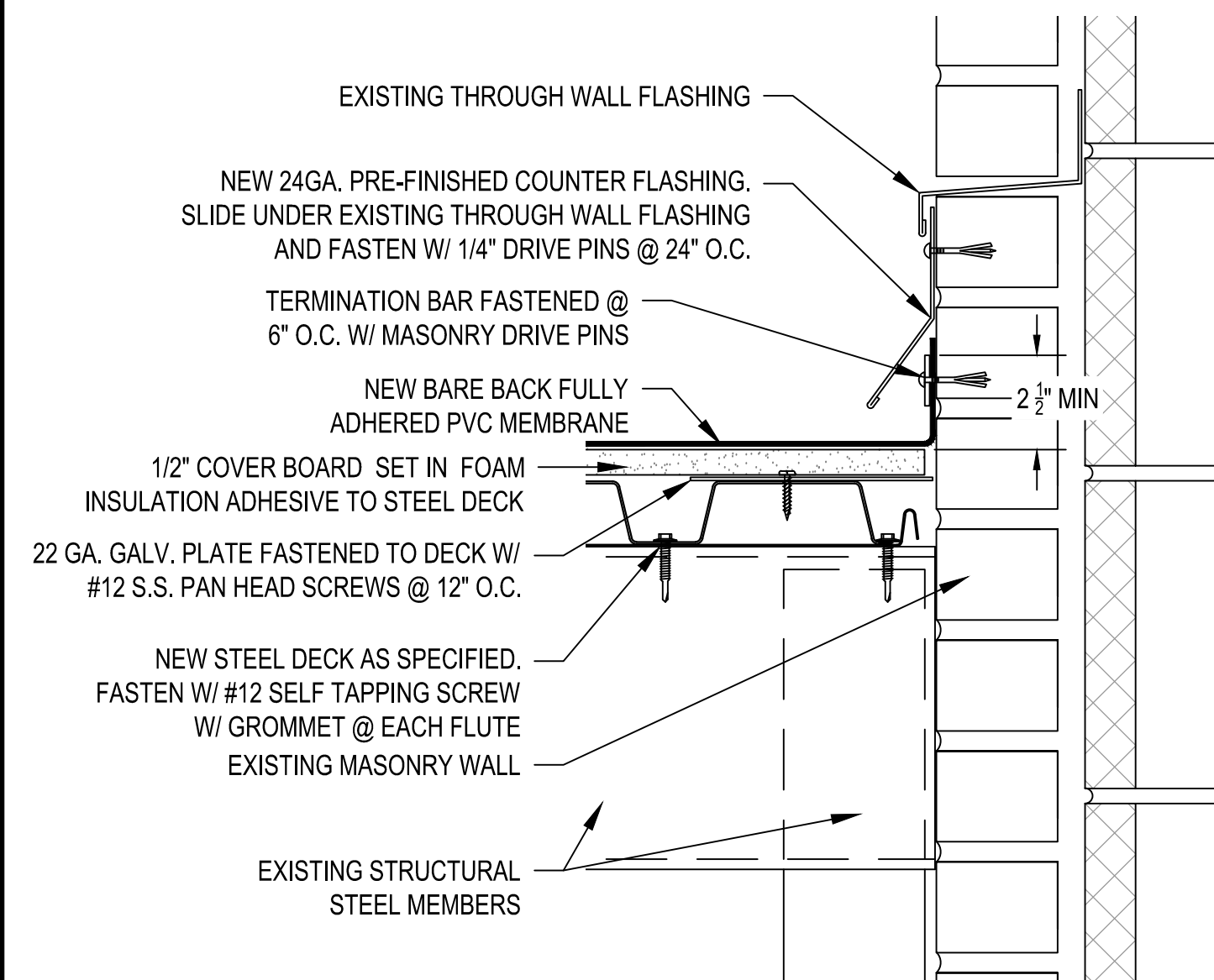
1 SECTION @ GYMNASIUM WALL
R-4 SCALE: 3" = 1'



2 SECTION @ GYMNASIUM WALL
R-4 SCALE: 3" = 1'



3 SECTION @ CANOPY INTERSECTION
R-4 SCALE: 3" = 1'



4 SECTION @ WALL OVER AUDITRIUM ENTRANCE
R-4 SCALE: 3" = 1'

- NOTE:
1. THE STEEL DECK SHALL BE 1.5" X 18GA/20 GA, GALVANIZED STEEL CELLULAR ROOF DECK W/ FLAT CEILING PANEL, 33 KSI, GALVANIZED ATTACHED TO ANGLE OR MC WITH EITHER A PUDDLE WELD, OR #12 SELF-TAPPING SCREW WITH 5/16 WASHER MEETING ASTM C1513 OR HILTI FASTENER X-ENP-19, OR PNEUTEK FASTENER K64 AT 12" O.C. THE MANUFACTURER SHALL PROVIDE FINAL SPACING BASED ON THEIR MATERIAL AND CONNECTORS BEING USED.
 2. THE DECK SHALL BE SOLID ON THE BOTTOM.
 3. THE SIDE LAPS SHALL HAVE CONNECTION PER LAP. THE CONNECTIONS CAN EITHER BE ACCOMPLISHED USING #12 SELF TAPPING SCREWS AT 18" O.C. OR SEAM WELDS AT 36" O.C. FROM THE CENTER OF THE PANEL. IN ADDITION, THE EDGE OF THE PANEL, THE LAP SEAMS SHALL BE CONNECTED.
 4. SCREWS SHALL BE MADE FROM THE BOTTOM UP, NO THREADS CAN BE VISIBLE BELOW.
 5. THE WELD SHALL BE E70 AND PERFORMED BY A WELDER CURRENTLY CERTIFIED BY AMERICAN WELDING D1.3 SOCIETY (AWS). CONTRACTOR SHALL PROVIDE CERTIFICATION TO THE ENGINEER. PUDDLE WELDS SHALL BE A MIN. OF $\frac{5}{16}$ ".



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ROOF RENOVATION PROJECT
1 HIGH SCHOOL DR.
MONROE, NC, 28112

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ROOF DETAILS

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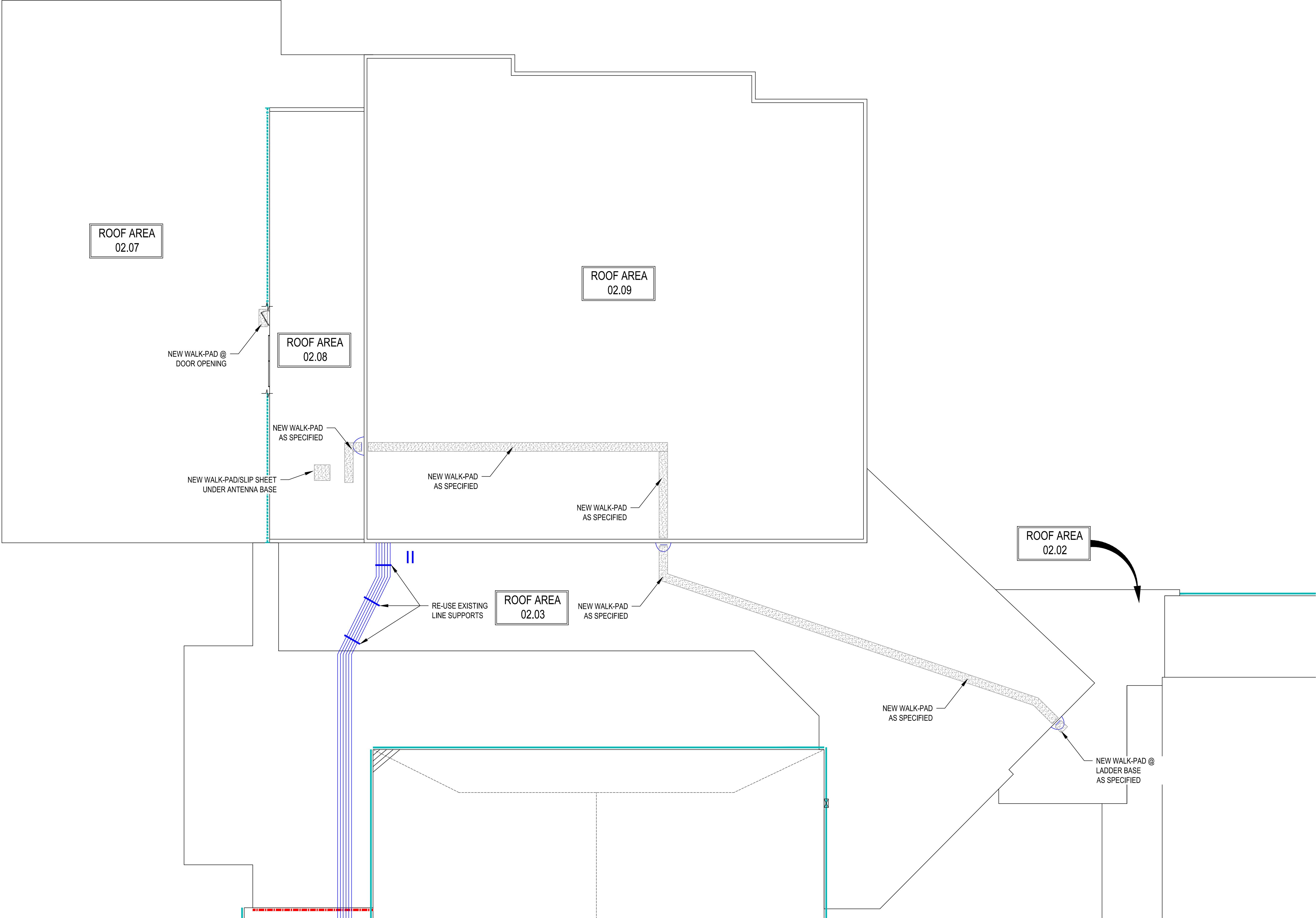
R-4

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1
RA1

ROOF ACCESSORIES PLAN
SCALE: 1/8" = 1'



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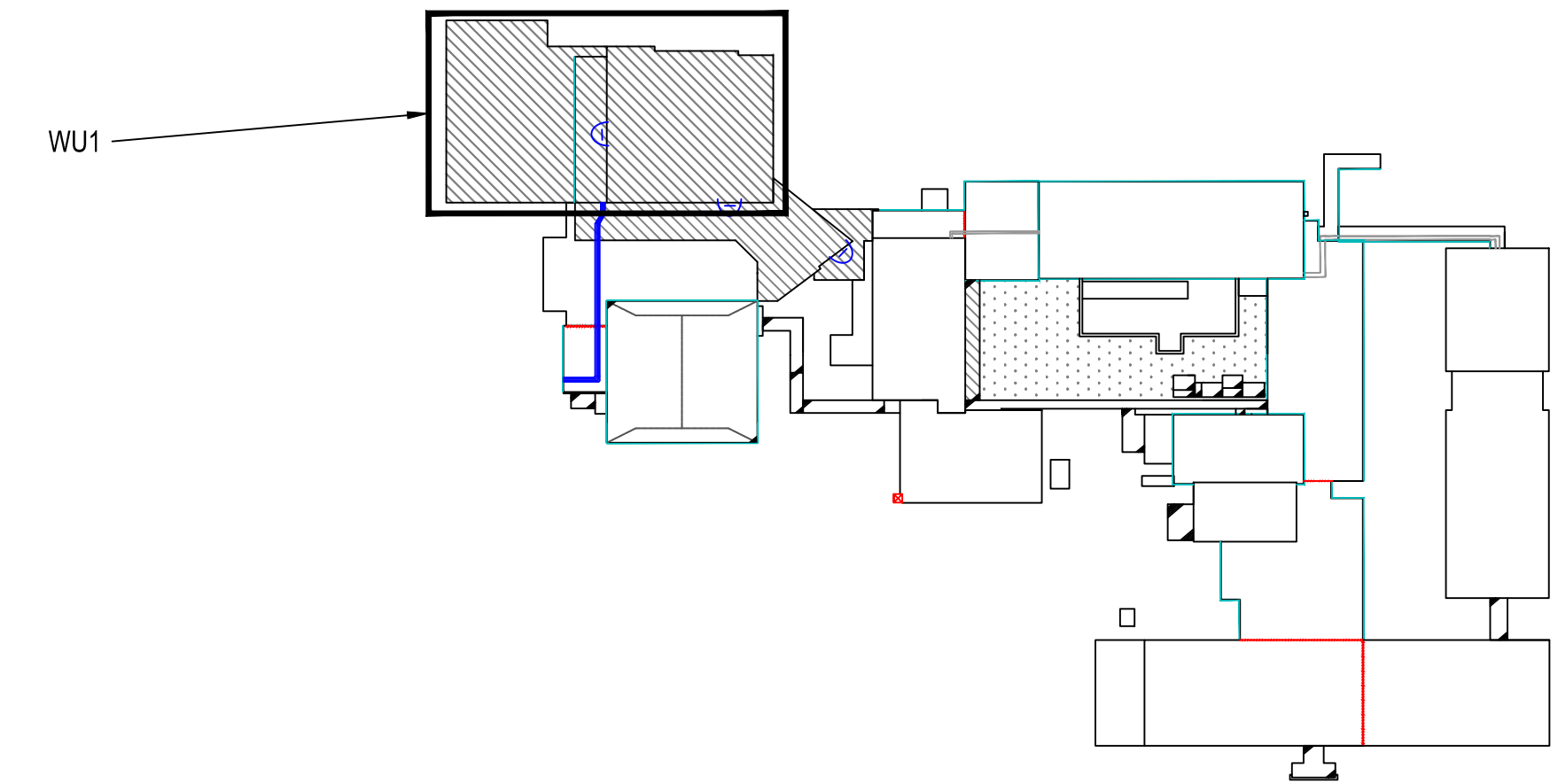
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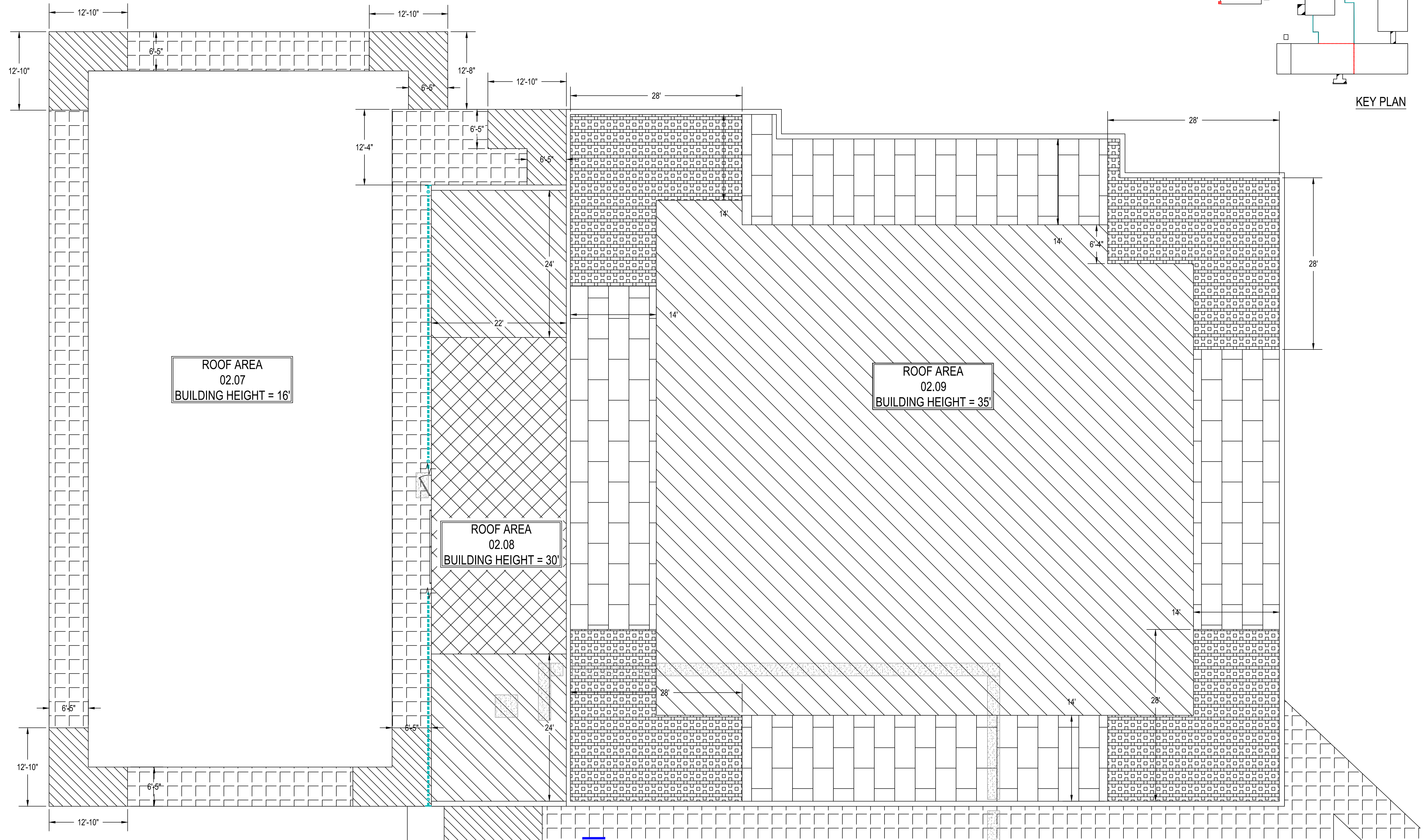
WIND UPLIFT

WU1

PAGE NUMBER



KEY PLAN



ROOF AREA 02.07

ROOF AREA 02.08

ROOF AREA 02.09

1 WIND UPLIFT PLAN
WU1 SCALE: 1/8" = 1'

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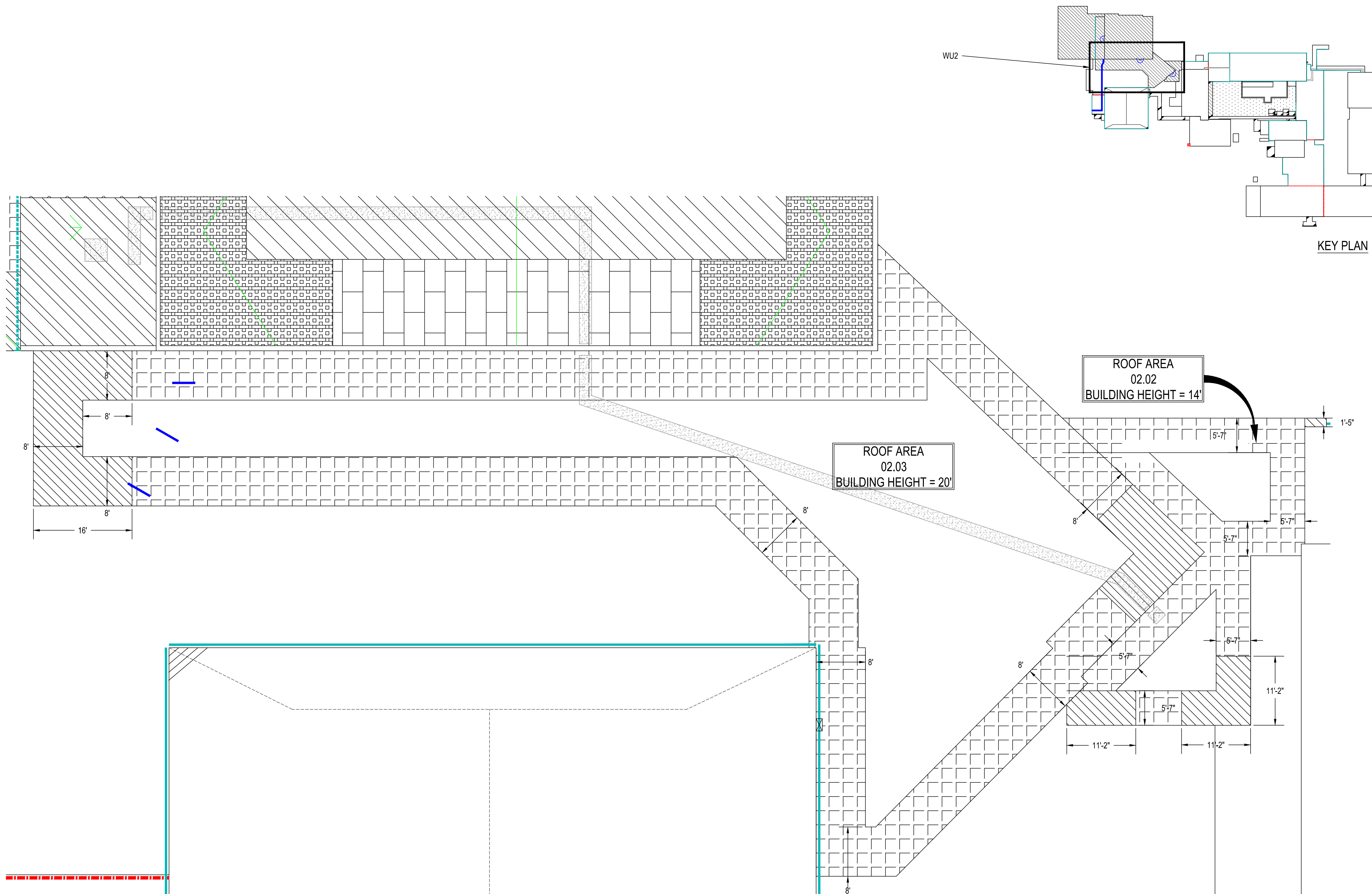
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WIND UPLIFT

SHEET TITLE

WU2

PAGE NUMBER



1 WIND UPLIFT PLAN
WU2 SCALE: 3/16" = 1'

Zone 1
-31.3 PSF

Zone 2
-49.1 PSF

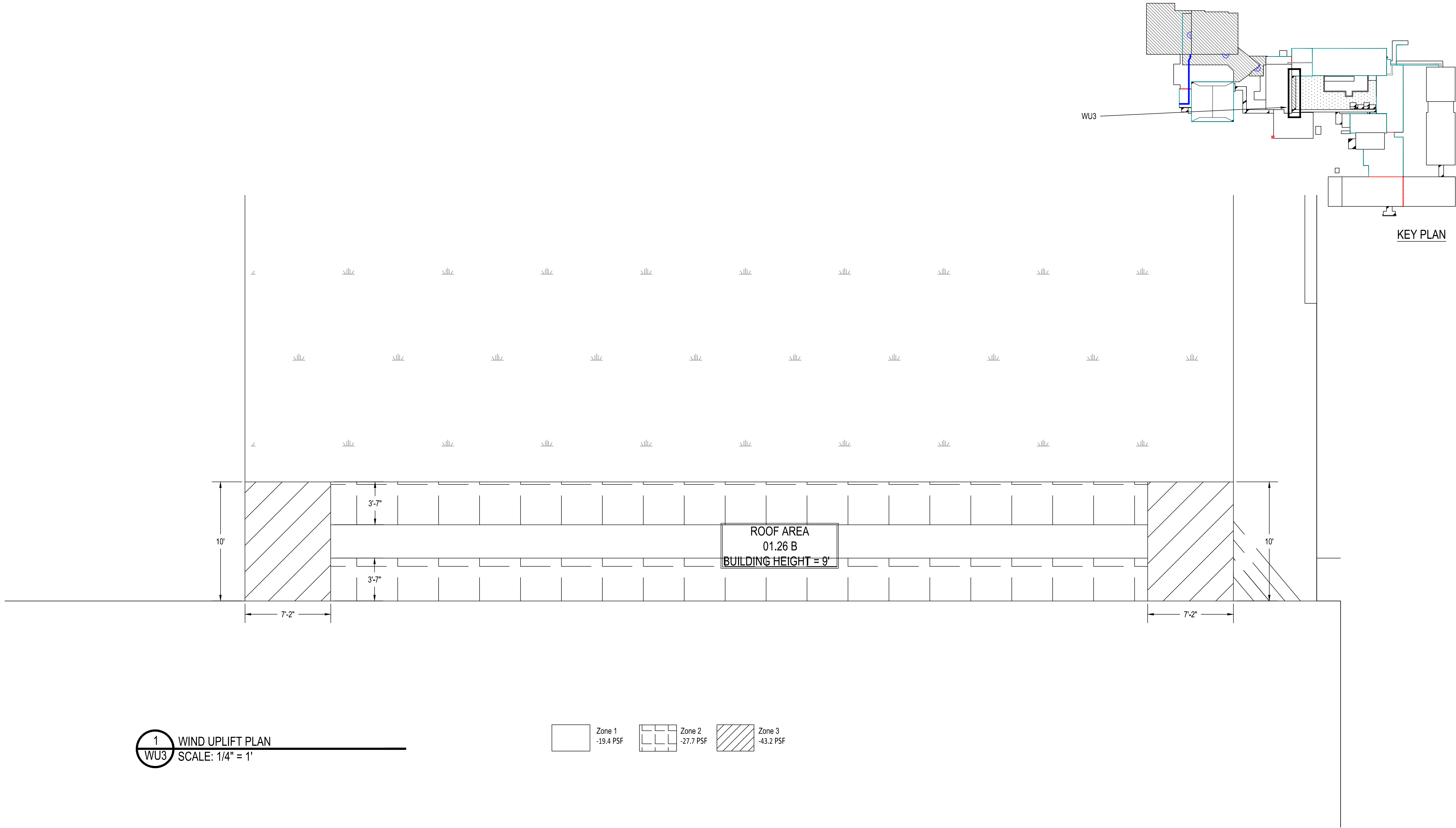
Zone 3
-66.9 PSF

Zone 1
-27.4 PSF

Zone 2
-43.1 PSF

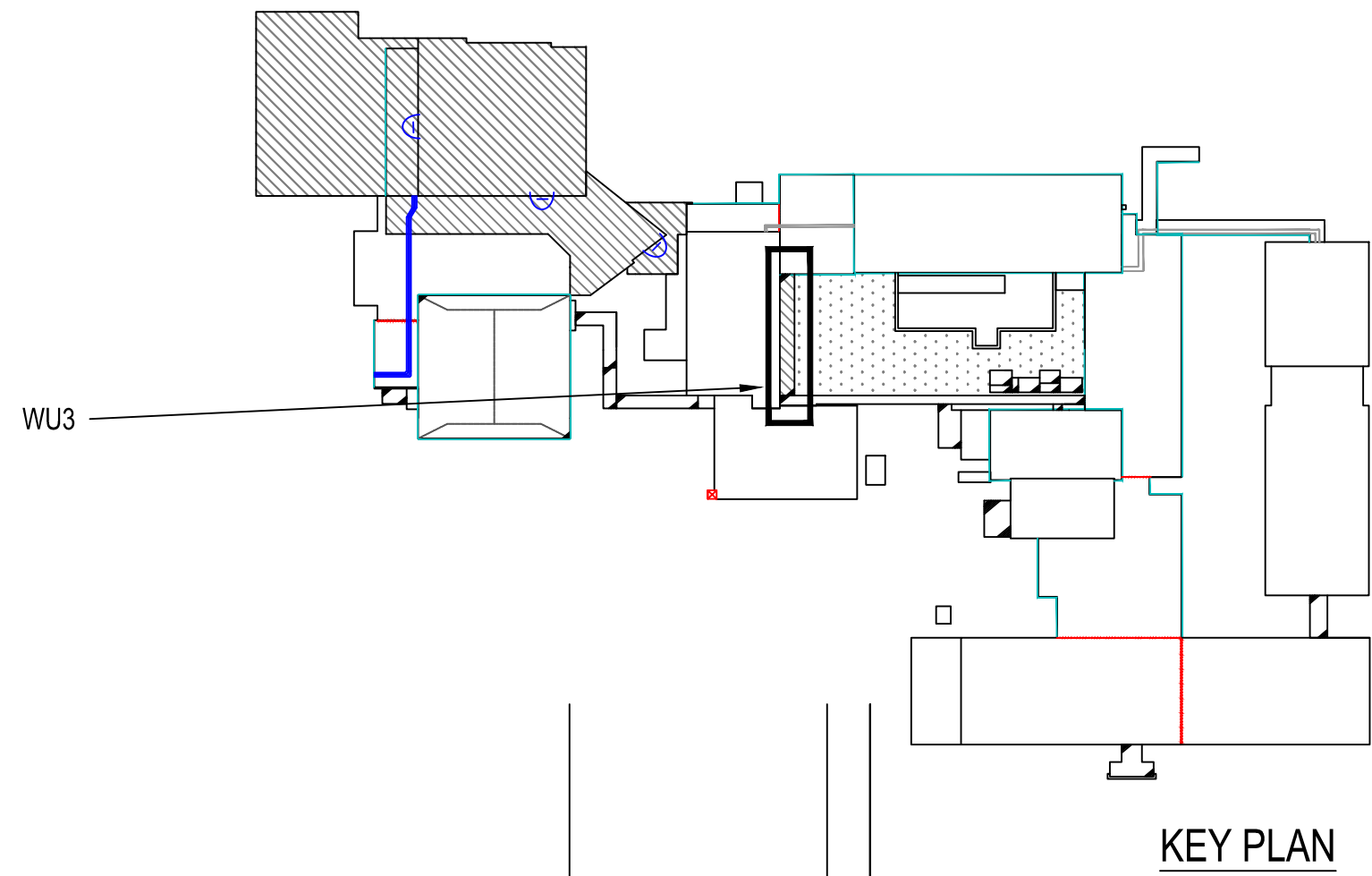
Zone 3
-58.7 PSF

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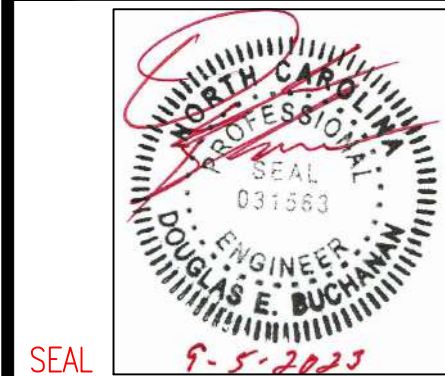


1 WIND UPLIFT PLAN
WU3 SCALE: 1/4" = 1'

Zone 1 -19.4 PSF
Zone 2 -27.7 PSF
Zone 3 -43.2 PSF



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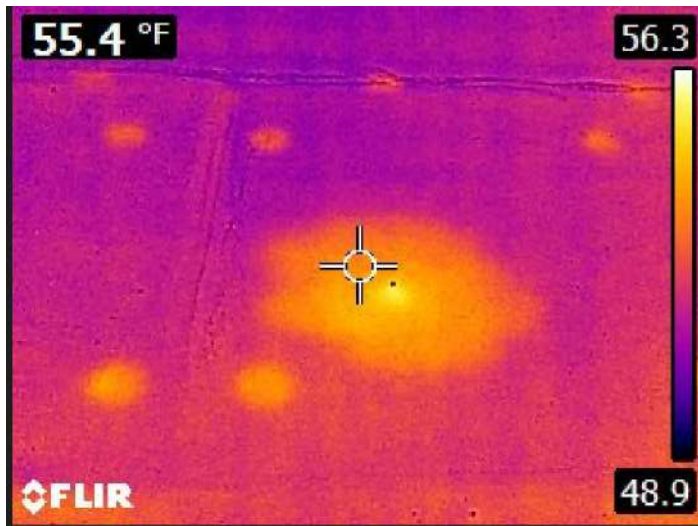
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WIND UPLIFT

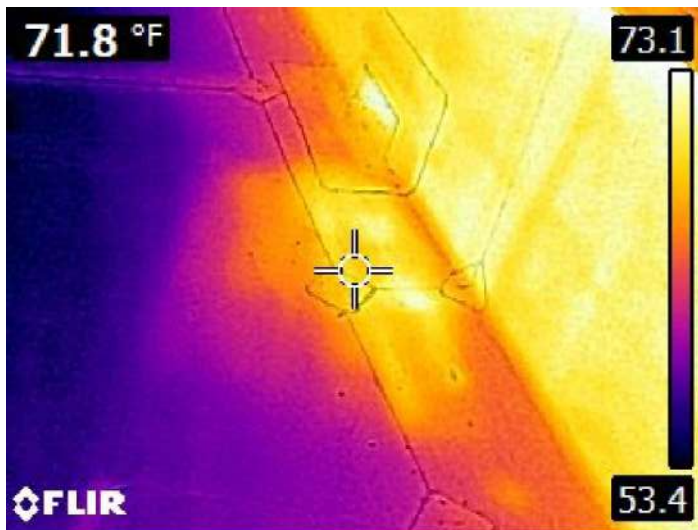
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WU2

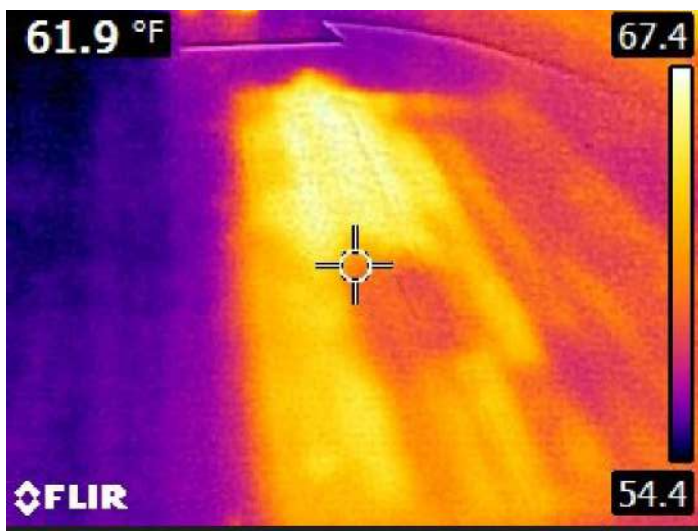
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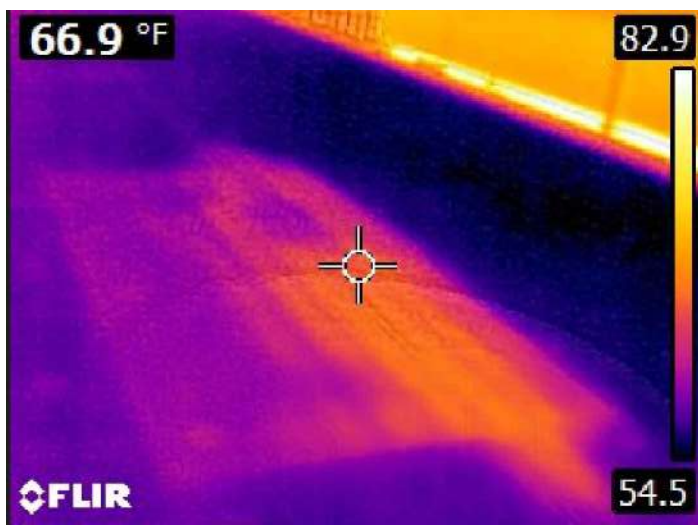
#1 APPROX 10 sq. ft.



#2 APPROX 20 sq. ft.



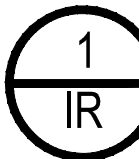
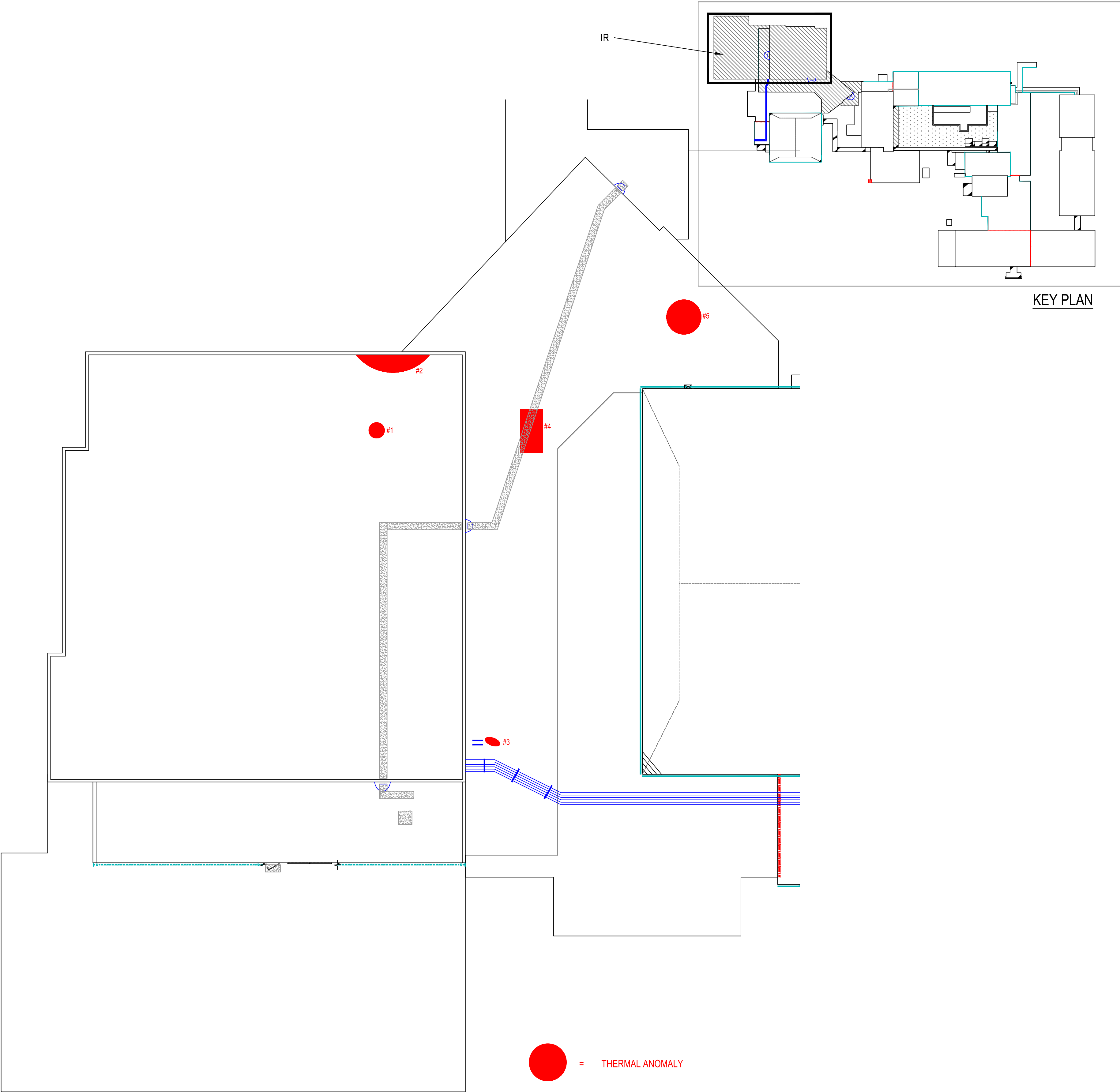
#3 APPROX 40 sq. ft.



#4 APPROX 40 sq. ft.



#5 APPROX 20 sq. ft.



INFRARED SURVEY
SCALE: 1/16" = 1'

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SURVEY

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