

# COASTAL MIDDLE SCHOOL ROOFING REPLACEMENT

SAVANNAH, GEORGIA 31406  
FOR  
SAVANNAH CHATHAM COUNTY PUBLIC SCHOOL SYSTEM  
BOARD OF EDUCATION  
PROJECT NO. C16-04  
NOT FOR CONSTRUCTION

ARCHITECTS:

COGDELL & MENDRALA ARCHITECTS, PC

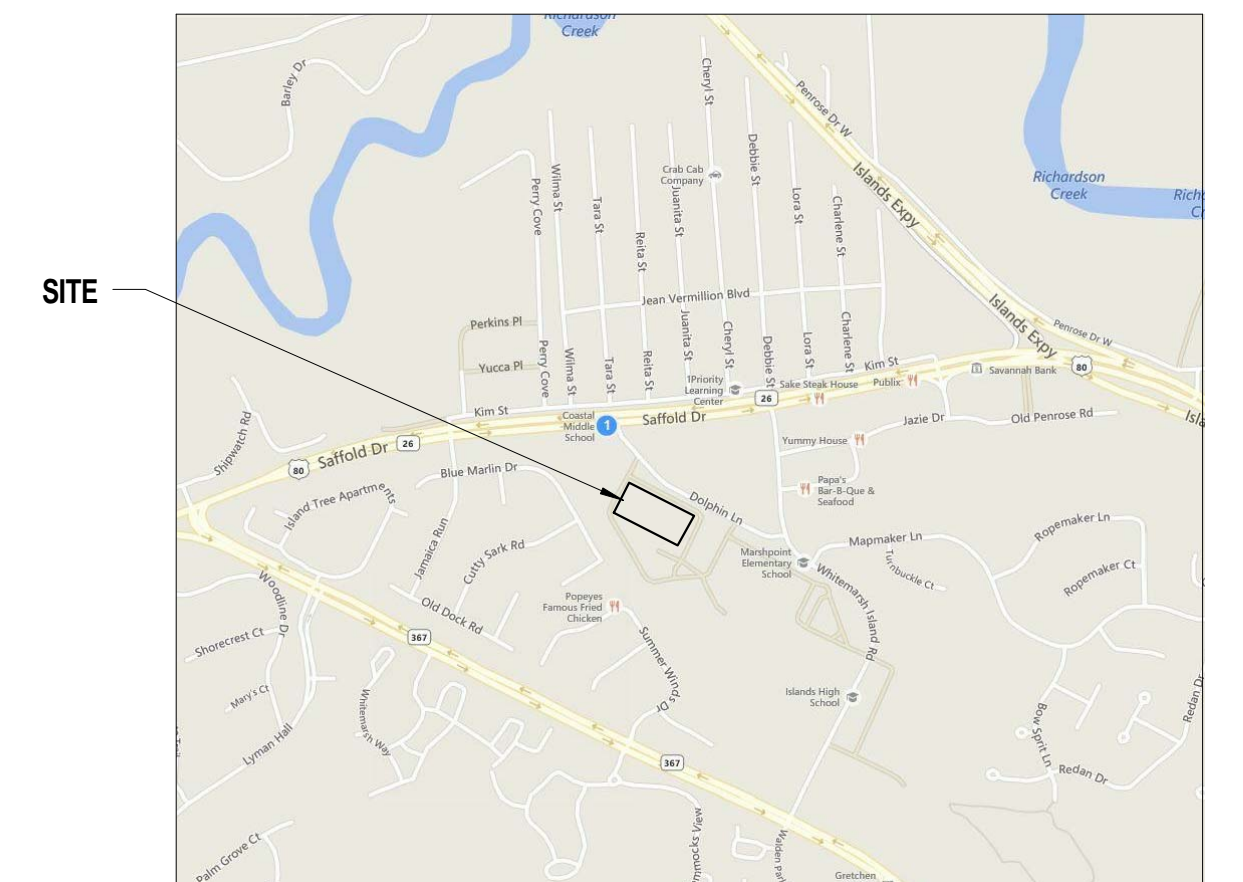


VOLUME I

## SCHEDULE OF DRAWINGS:

D2.01	DEMOLITION - ROOF PLAN
A2.01	ROOF PLAN
A3.01	ROOF DETAILS
A3.02	ROOF DETAILS
A3.03	ROOF DETAILS

## LOCATION MAP:



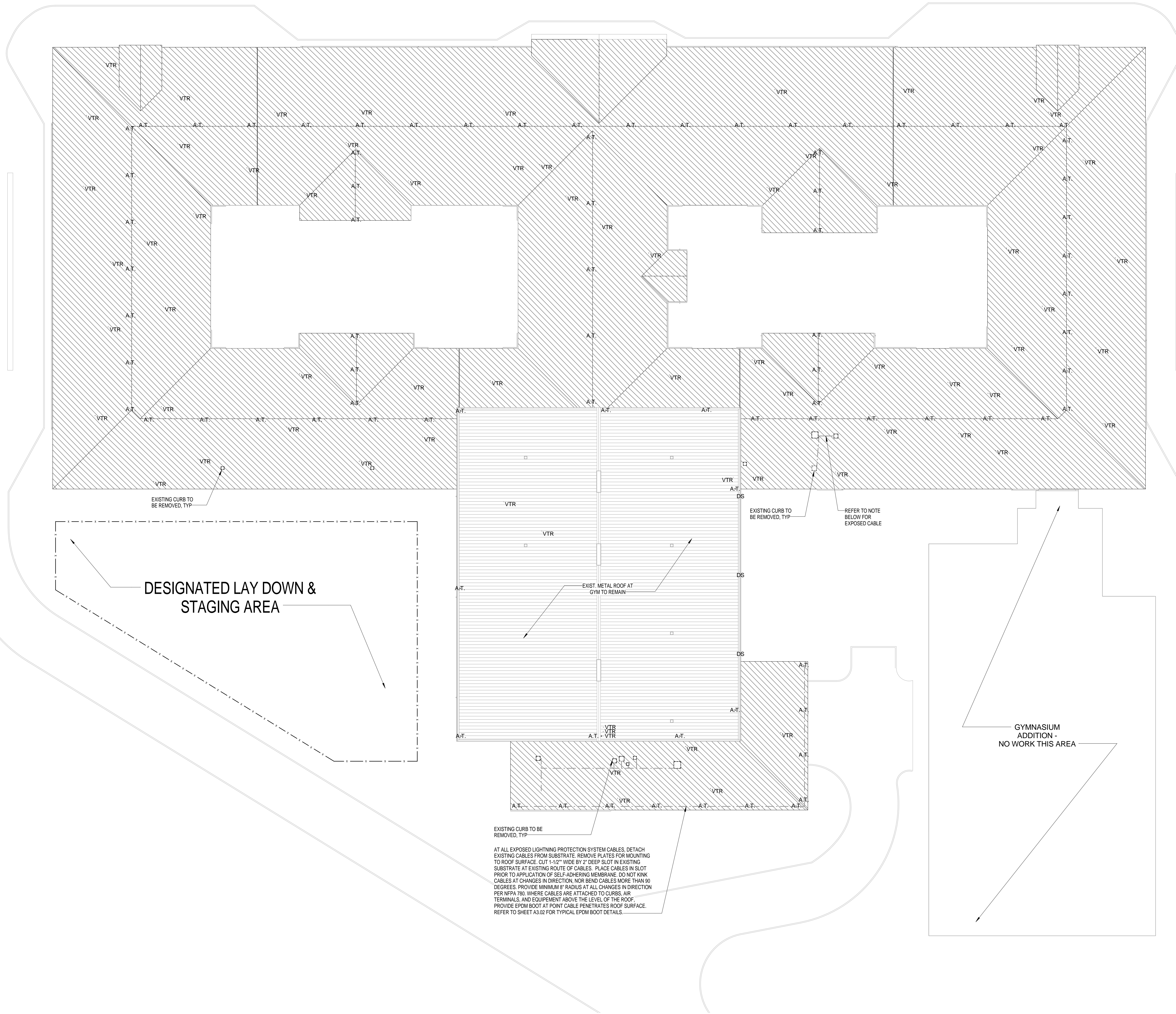
SET NO. \_\_\_\_\_

SHEET:

**T1.0**



C:\Users\nudd\CAD\Documents\1417\_COASTAL\_MS ROOF\_RT2014\_CENTRAL\_nudd.rvt 5/14/2015 9:44:50 AM



**GENERAL INFORMATION**

- APPLICABLE BUILDING CODES WITH GEORGIA AMENDMENTS: (LIST IS NOT INCLUSIVE)
- I. International Building Code, 2012 Edition, with Georgia Amendments (2014) (2015)
  - II. International Plumbing Code, 2012 Edition, with Georgia Amendments (2014) (2015)
  - III. International Mechanical Code, 2012 Edition, with Georgia Amendments (2014) (2015)
  - IV. International Fuel Gas Code, 2012 Edition, with Georgia Amendments (2014) (2015)
  - V. National Electrical Code, 2011 Edition (No Georgia Amendments)

**GENERAL NOTES**

BUILDINGS ARE OCCUPIED. PROTECT CONTENTS AND INTERIORS OF BUILDINGS FROM WATER DAMAGE AND CONSTRUCTION DEBRIS.

ALL FLASHING, COPING, AND EXPANSION JOINT COVERS TO BE REPLACED U.N.O

ALL WOOD BLOCKING AND PLYWOOD INSTALLED AS A PART OF THIS WORK TO BE PRESSURE TREATED

UNLESS NOTED AS EXISTING, ALL MATERIALS SHALL BE NEW.

ALL DIMENSIONS SHOWN FOR EXISTING CONDITIONS ARE APPROXIMATE. VERIFY IN FIELD.

NOT ALL PENETRATIONS ARE SHOWN ON ROOF PLAN. NOTIFY ARCHITECT OF ANY PENETRATIONS NOT SHOWN ON ROOF PLAN TO COORDINATE FINAL LOCATIONS.

IF A CONDITION IS NOT DETAILED IN THESE DRAWINGS, INSTALL ALL SHEET METAL FLASHINGS AT ROOF PENETRATIONS IN ACCORDANCE WITH SMACNA SHEET METAL MANUAL, CURRENT EDITION.

WHERE A NOTE/DETAIL IS SHOWN FOR ONE CONDITION IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS, UNLESS NOTED OTHERWISE.

**WIND LOADS (REF. ASCE 7-10)**

BASIC WIND SPEED (3 SECOND GUST) V=149 (FIGURE 26.5-1B)  
 IMPORTANCE FACTOR I.0 (TABLE 1.5.2)  
 EXPOSURE CATEGORY C (SECTION 27.6.3)  
 BUILDING CATEGORY = III (TABLE 1.5.1)  
 INTERNAL PRESSURE COEFFICIENTS: +0.18, -0.18 (TABLE 26.11-1)

**DEMOLITION NOTES**

REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT AND ALL EDGE METAL. REMOVE ONLY AS MUCH ROOFING AS CAN BE DRIED IN THE SAME DAY. PROTECT CONTENTS AND INTERIORS OF BUILDINGS FROM WATER DAMAGE AND CONSTRUCTION DEBRIS.

ALL EXISTING LIGHTNING PROTECTION SYSTEM AT AREAS TO BE REMOVED IS TO REMAIN

ALL EXISTING CURBS AT SHINGLE ROOF TO BE REMOVED

EXISTING DUCTWORK, POWER WIRING, CONTROL WIRING, ETC SHALL BE DISCONNECTED TO ALLOW THE NEW CURB TO BE INSTALLED AND THEN RECONNECTED. EXTEND DUCTWORK, POWER WIRING, CONTROL WIRING, ETC AS NEEDED. CONTRACTOR SHALL COORDINATE AND VERIFY DIMENSIONS OF ALL EXISTING ROOF CURBS.

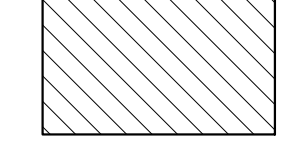
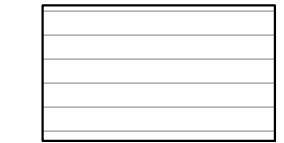
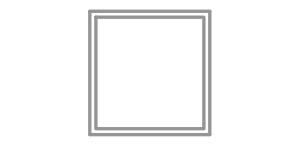
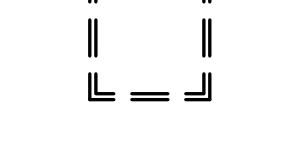
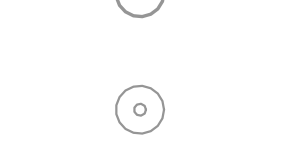
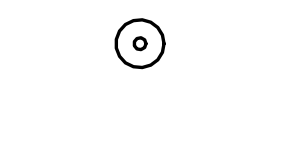

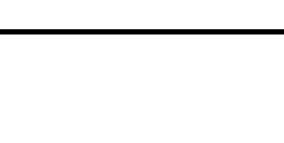
EXISTING GUTTERS ARE TO REMAIN UNLESS NOTED OTHERWISE.

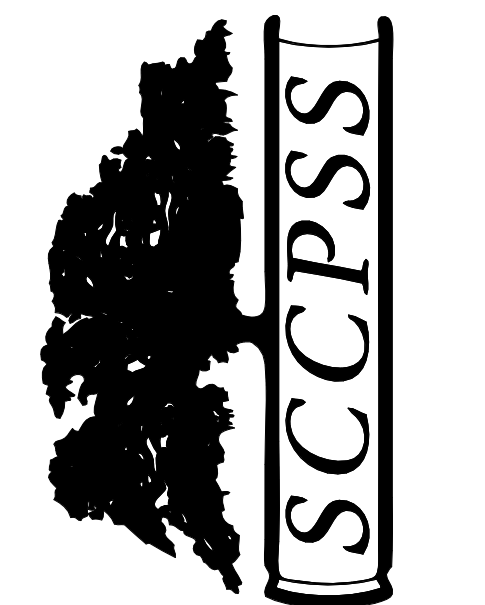
**ALTERNATE NO. 2:**

REPLACE ALL PIPE PENETRATION FLASHINGS AT GYM ROOF

REMOVE ALL LIGHTNING PROTECTION AIR TERMINALS AND ACCESSORIES AT GYM ROOF

**DEMOLITION LEGEND**

-  EXISTING ASPHALT SHINGLE ROOF COVERING TO BE REMOVED
-  EXISTING METAL GYMNASIUM ROOF TO REMAIN
-  EXISTING CURB TO REMAIN
-  EXISTING CURB TO BE REMOVED
-  EXISTING VTR TO REMAIN (REFER TO NOTES ON VTR)
-  EXISTING LIGHTNING PROTECTION TO REMAIN
-  EXISTING LIGHTNING PROTECTION AT GYMNASIUM TO BE REMOVED (ALT. NO. 2)
-  EXISTING LIGHTNING PROTECTION CABLE TO BE CONCEALED IN EXISTING SUBSTRATE, REFER TO PLAN NOTE

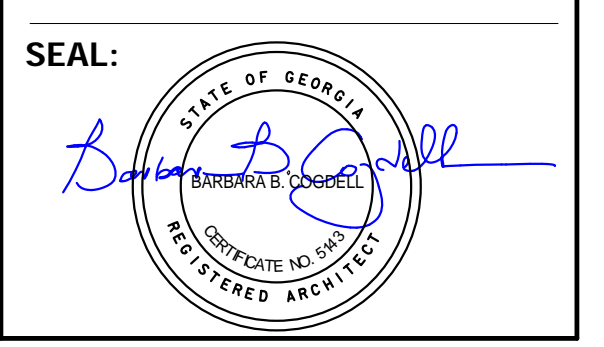


**COASTAL MIDDLE SCHOOL ROOFING REPLACEMENT**

4595 E US HWY 80,  
SAVANNAH, GA

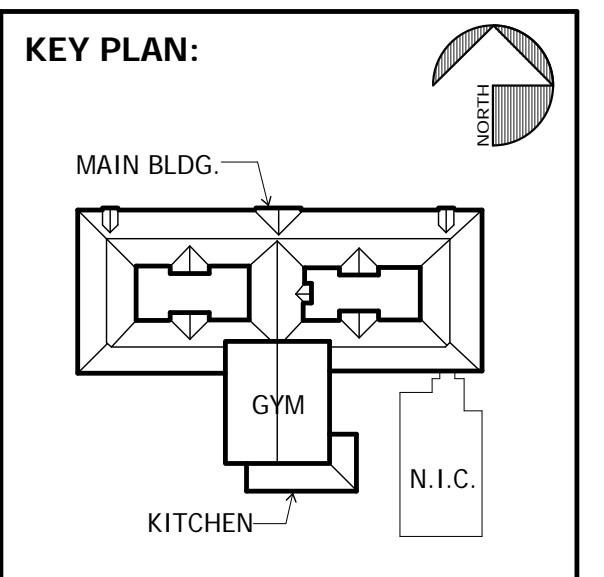
NOT FOR CONSTRUCTION

CogdellMendralaArchitects  
 COGDELL & MENDRALA ARCHITECTS, PC  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 tel 912.234.6318  
 fax 912.236.8414  
 cogdellmendrala.com



**PROJECT CONSULTANTS:**

ROOFING:  
**ROOFING STRATEGIES**  
 2720 GREGORY STREET,  
 SAVANNAH, GA 31404



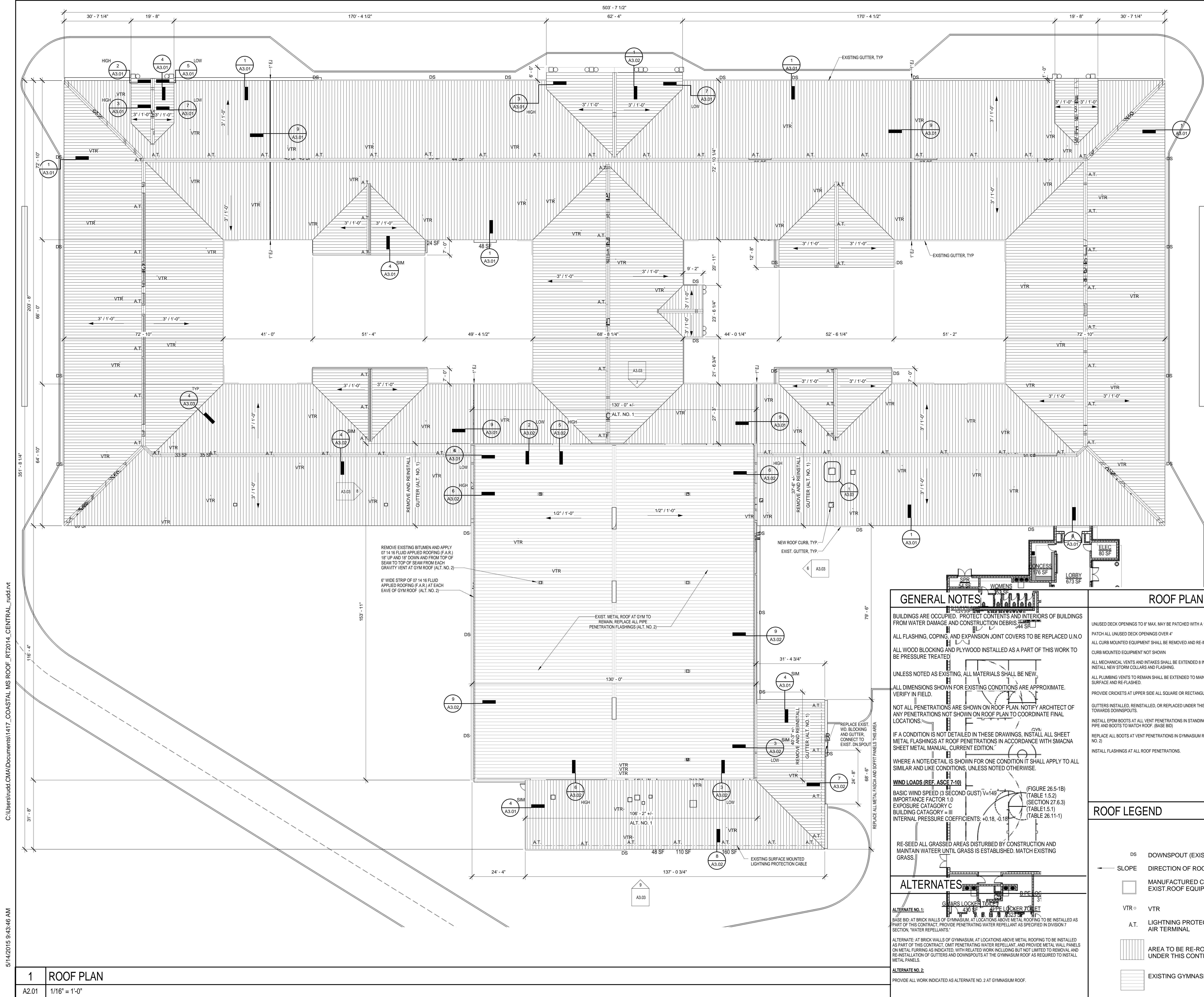
**SHEET TITLE:**  
**DEMOLITION - ROOF PLAN**

REVISION SCHEDULE	
DATE	DESCRIPTION

**PROJECT NO:** 1417  
**DATE:** MAY 2015  
**DRAWN BY:** Author  
**SCALE:** As indicated  
**FTE:** 712

**SHEET:** **D2.01**





C:\Users\nudd\CAD\Documents\1417\_COASTAL\_MS\_ROOF\_RT2014\_CENTRAL\_nudd.rvt

5/14/2015 9:43:46 AM

**1 ROOF PLAN**  
A2.01 1/16" = 1'-0"

**GENERAL NOTES**

BUILDINGS ARE OCCUPIED. PROTECT CONTENTS AND INTERIORS OF BUILDINGS FROM WATER DAMAGE AND CONSTRUCTION DEBRIS.

ALL FLASHING, COPING, AND EXPANSION JOINT COVERS TO BE REPLACED U.N.O

ALL WOOD BLOCKING AND PLYWOOD INSTALLED AS A PART OF THIS WORK TO BE PRESSURE TREATED

UNLESS NOTED AS EXISTING, ALL MATERIALS SHALL BE NEW.

ALL DIMENSIONS SHOWN FOR EXISTING CONDITIONS ARE APPROXIMATE. VERIFY IN FIELD.

NOT ALL PENETRATIONS ARE SHOWN ON ROOF PLAN. NOTIFY ARCHITECT OF ANY PENETRATIONS NOT SHOWN ON ROOF PLAN TO COORDINATE FINAL LOCATIONS.

IF A CONDITION IS NOT DETAILED IN THESE DRAWINGS, INSTALL ALL SHEET METAL FLASHINGS AT ROOF PENETRATIONS IN ACCORDANCE WITH SMACNA SHEET METAL MANUAL, CURRENT EDITION.

WHERE A NOTE/DETAIL IS SHOWN FOR ONE CONDITION IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS, UNLESS NOTED OTHERWISE.

**WIND LOADS (REF. ASCE 7-10)**

BASIC WIND SPEED (3 SECOND GUST)  $V = 149$  (FIGURE 26.5-1B)  
 IMPORTANCE FACTOR 1.0 (TABLE 1.5.2)  
 EXPOSURE CATEGORY C (SECTION 27.6.3)  
 BUILDING CATEGORY = III (TABLE 1.5.1.1)  
 INTERNAL PRESSURE COEFFICIENTS: +0.18, -0.18 (TABLE 26.11-1)

RE-SEED ALL GRASSED AREAS DISTURBED BY CONSTRUCTION AND MAINTAIN WATER UNTIL GRASS IS ESTABLISHED. MATCH EXISTING GRASS.

**ALTERNATES**

**ALTERNATE NO. 1:**  
 BASE BID: AT BRICK WALLS OF GYMNASIUM, AT LOCATIONS ABOVE METAL ROOFING TO BE INSTALLED AS PART OF THIS CONTRACT, PROVIDE PENETRATING WATER REPELLANT AS SPECIFIED IN DIVISION 7 SECTION, "WATER REPELLANTS"

**ALTERNATE NO. 2:**  
 PROVIDE ALL WORK INDICATED AS ALTERNATE NO. 2 AT GYMNASIUM ROOF.

**ROOF PLAN NOTES**

UNSEED DECK OPENINGS TO 8" MAX. MAY BE PATCHED WITH A 16" X 16" 20 GA. GALV. STEEL PLATE. PATCH ALL UNSEED DECK OPENINGS OVER 4"

ALL CURB MOUNTED EQUIPMENT SHALL BE EXTENDED AND RE-INSTALLED FOR CURB & ROOF INSTALLATION. CURB MOUNTED EQUIPMENT NOT SHOWN

ALL MECHANICAL VENTS AND INTAKES SHALL BE EXTENDED 8 INCHES. INSTALL NEW STORM COLLARS AND FLASHING.

ALL PLUMBING VENTS TO REMAIN SHALL BE EXTENDED TO MAINTAIN 8 INCHES CLEARANCE ABOVE ROOF SURFACE AND RE-FLASHED.

PROVIDE CRICKETS AT UPPER SIDE ALL SQUARE OR RECTANGULAR CURBS EXCEEDING 30" IN WIDTH.

GUTTERS INSTALLED, REINSTALLED, OR REPLACED UNDER THIS CONTRACT SHALL BE SLOPED TOWARDS DOWNSPOUTS.

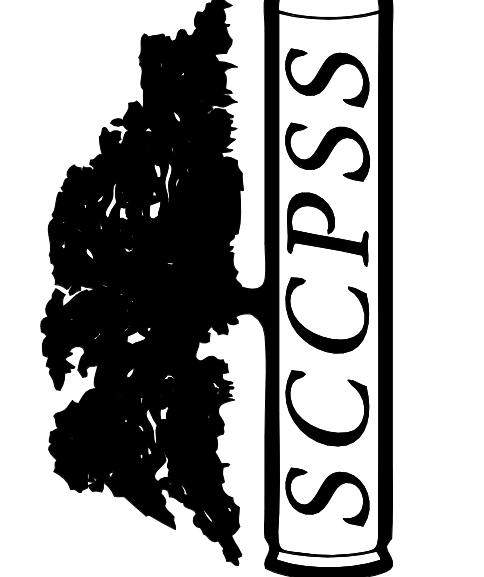
INSTALL EPDM BOOTS AT ALL VENT PENETRATIONS IN STANDING SEAM METAL ROOF PANELS. PAINT PIPE AND BOOTS TO MATCH ROOF (BASE BID)

REPLACE ALL BOOTS AT VENT PENETRATIONS IN GYMNASIUM ROOF WITH EPDM BOOTS (ALTERNATE NO. 2)

INSTALL FLASHINGS AT ALL ROOF PENETRATIONS.

**ROOF LEGEND**

- DS DOWNSPOUT (EXIST. TO REMAIN)
- SLOPE DIRECTION OF ROOF PITCH
- MANUFACTURED CURB AT EXIST. ROOF EQUIPMENT.
- VTR VTR
- A.T. LIGHTNING PROTECTION AIR TERMINAL
- AREA TO BE RE-ROOFED UNDER THIS CONTRACT
- EXISTING GYMNASIUM ROOF



**COASTAL MIDDLE SCHOOL  
ROOFING REPLACEMENT**

4595 E US HWY 80,  
SAVANNAH, GA

NOT FOR CONSTRUCTION

**CogdellMendralaArchitects**  
 COGDELL & MENDRALA ARCHITECTS, PC  
 517 EAST CONGRESS STREET  
 SAVANNAH, GEORGIA 31401  
 tel 912.234.6318  
 fax 912.236.8414  
 cogdellmendrala.com

SEAL:



**PROJECT CONSULTANTS:**

**ROOFING:**  
**ROOFING STRATEGIES**  
 2720 GREGORY STREET,  
 SAVANNAH, GA 31404

**KEY PLAN:**



**SHEET TITLE:**  
**ROOF PLAN**

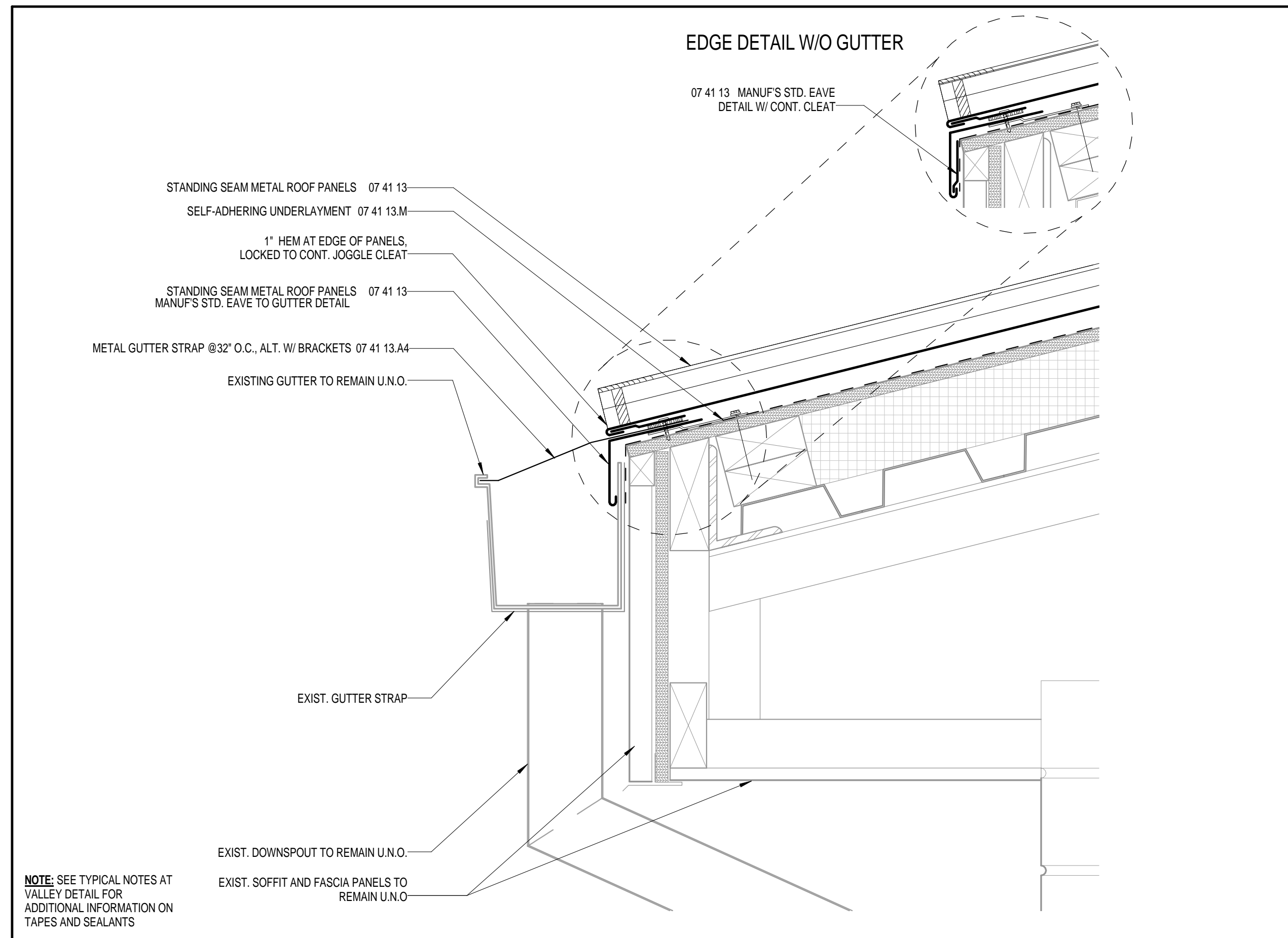
REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO: 1417  
 DATE: MAY 2015  
 DRAWN BY: TLC  
 SCALE: As indicated  
 FTE: 712

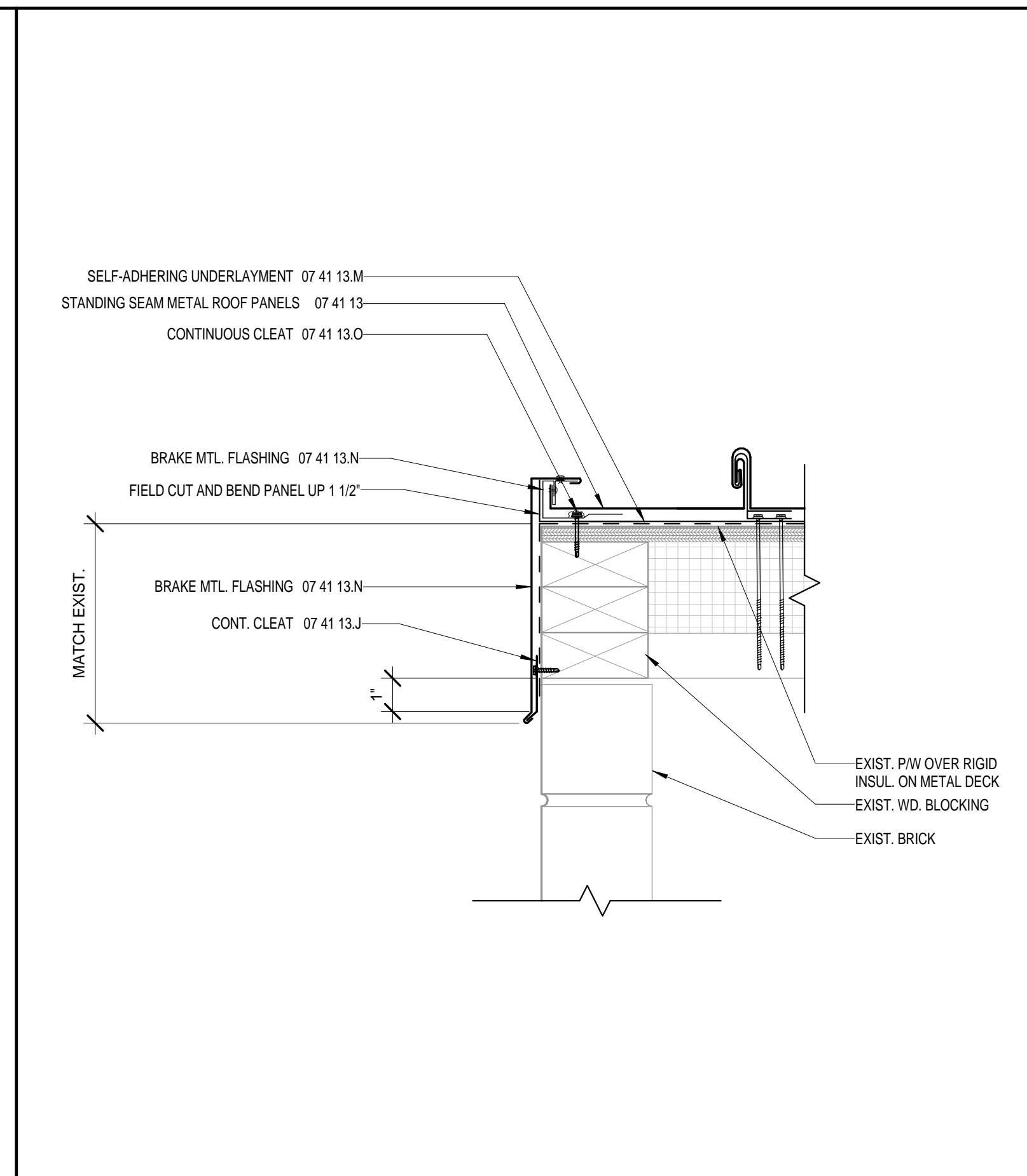
**SHEET: A2.01**



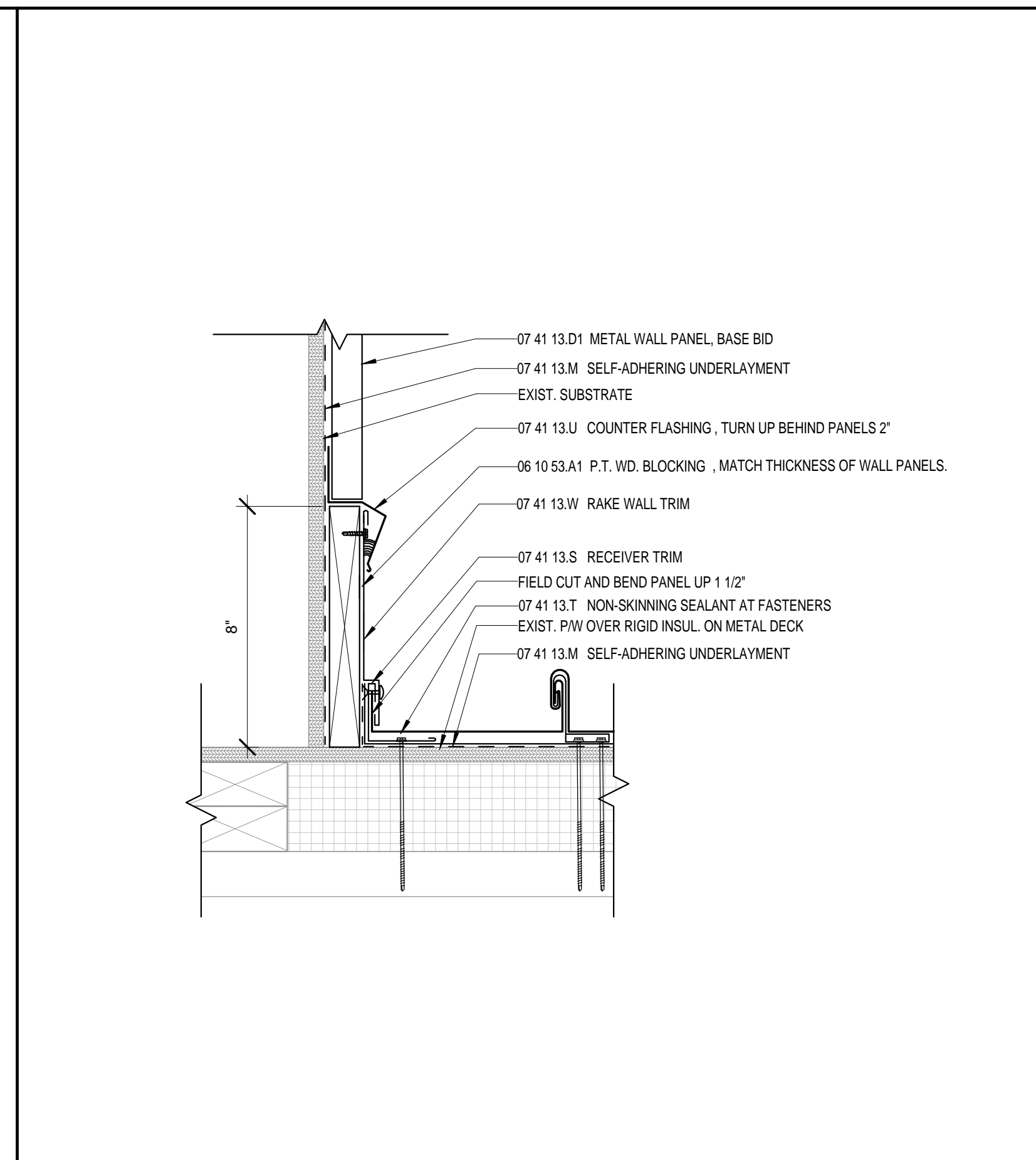
C:\Users\nudd\CAD\Documents\1417\_COASTAL MS ROOF\_RT2014\_CENTRAL\_rdd.rvt 5/14/2015 9:43:55 AM



**1 TYPICAL EAVE DETAIL**  
A3.01 3" = 1'-0"



**4 GABLE AT SIDE ENTRY**  
A3.01 3" = 1'-0"

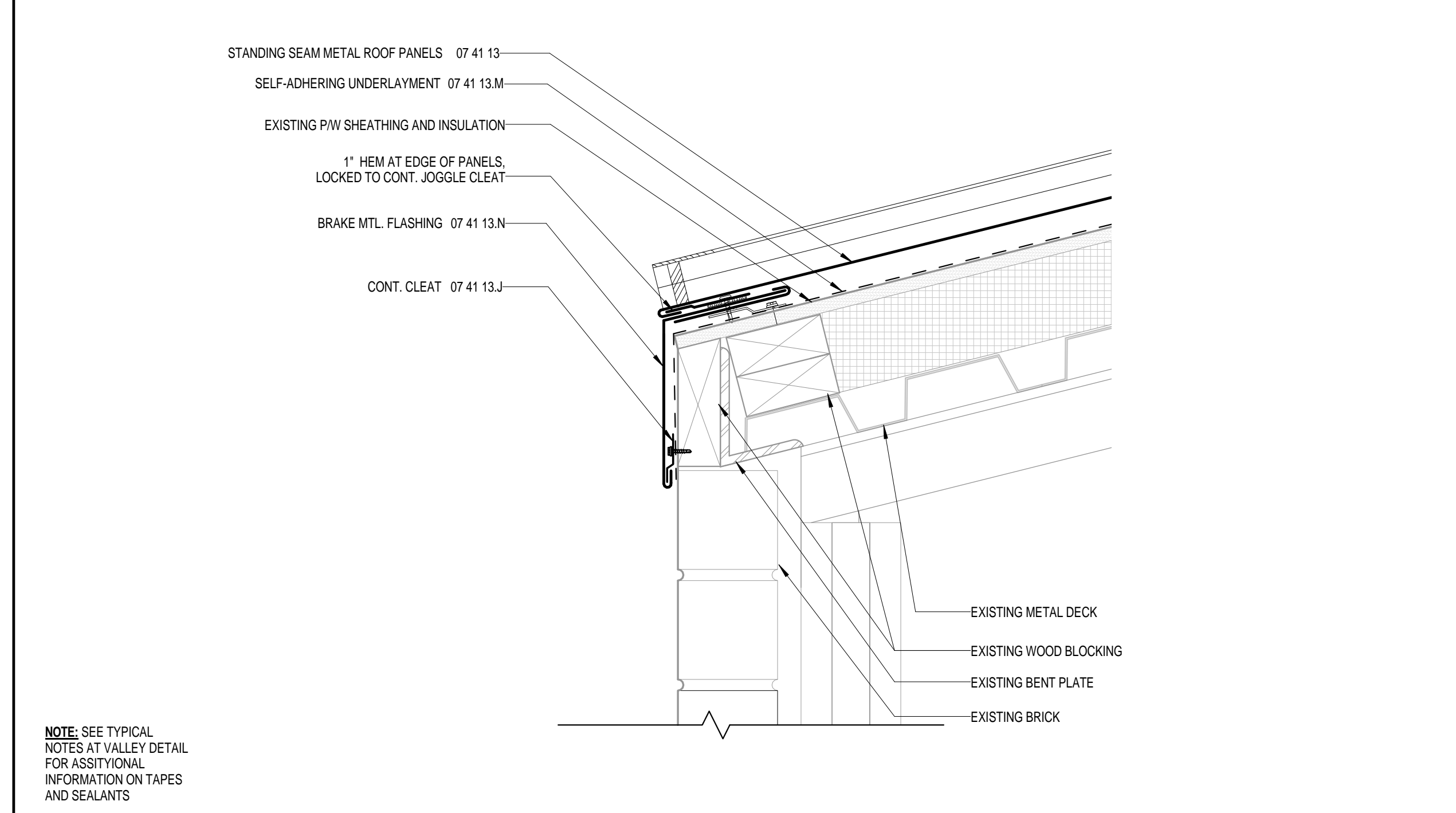


**7 SIDEWALL AT MTL PANELS - ENTRIES**  
A3.01 3" = 1'-0"

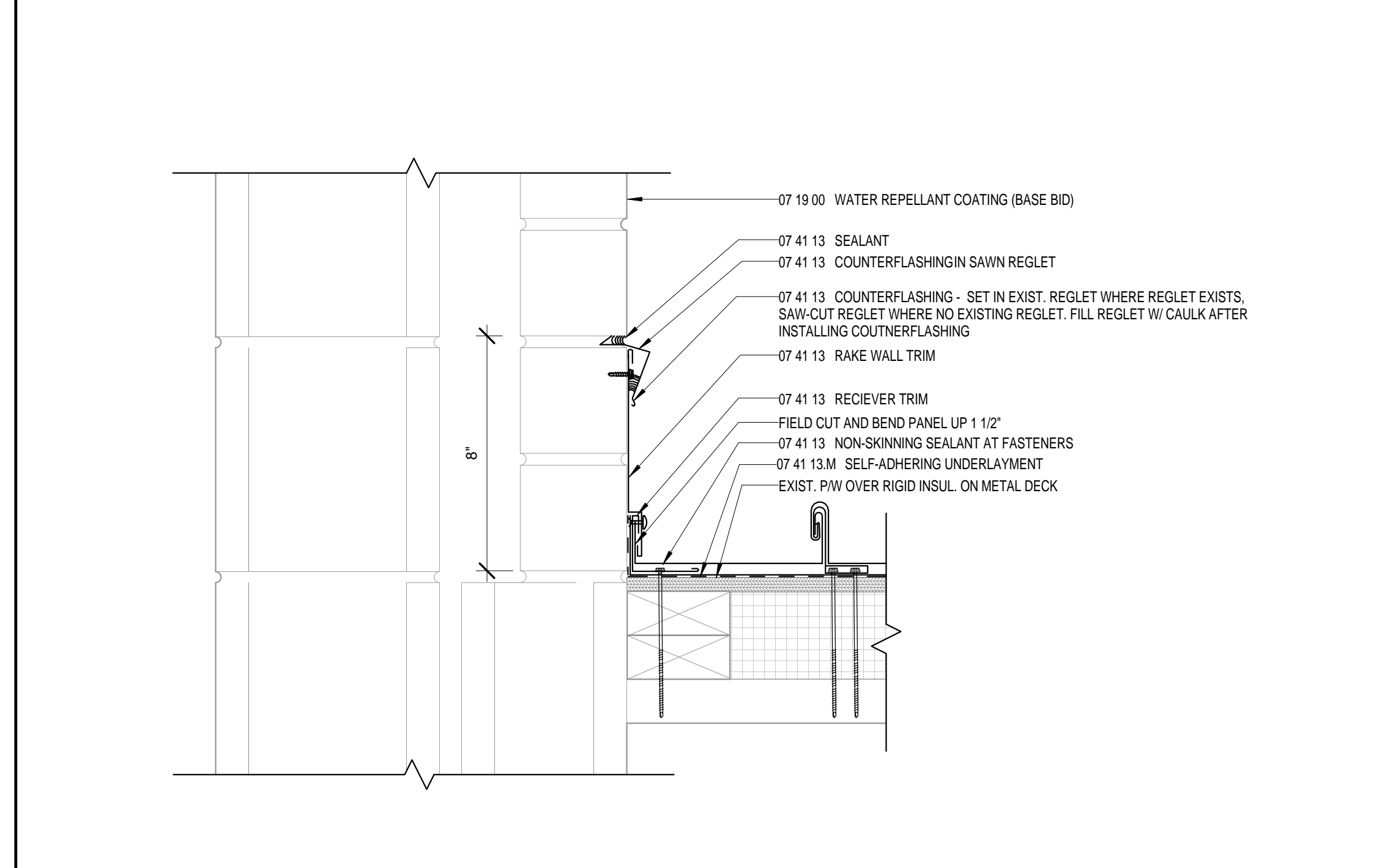
KEYNOTES	
NO.	TEXT
05 40 00.B1	7/8" HAT CHANNEL AT 24" O.C. MAX (ALT. NO. 1)
06 10 53.A1	P.T. WD. BLOCKING
07 19 00	WATER REPELLENT COATING (BASE BID)
07 41 13	STANDING SEAM METAL ROOF PANELS
07 41 13.A4	METAL GUTTER STRAP @32" O.C., ALT. W/ BRACKETS
07 41 13.D1	METAL WALL PANEL, BASE BID
07 41 13.G1	METAL WALL PANEL (ALT. NO. 1)
07 41 13.J	CONT. CLEAT
07 41 13.K	20 MIL PVC MOISTURE BARRIER
07 41 13.L	COMPRESSED BATT INSULATION W/ VAPOR BARRIER ON BOTTOM
07 41 13.M	SELF-ADHERING UNDERLAYMENT
07 41 13.N	BRAKE MTL. FLASHING
07 41 13.O	CONTINUOUS CLEAT
07 41 13.S	RECEIVER TRIM
07 41 13.T	NON-SKINNING SEALANT AT FASTENERS
07 41 13.U	COUNTER FLASHING
07 41 13.V	BASE AND DRIP TRIM
07 41 13.W	RAKE WALL TRIM
07 41 13.X	EXPANSION JOINT COVER

**NOTES:**

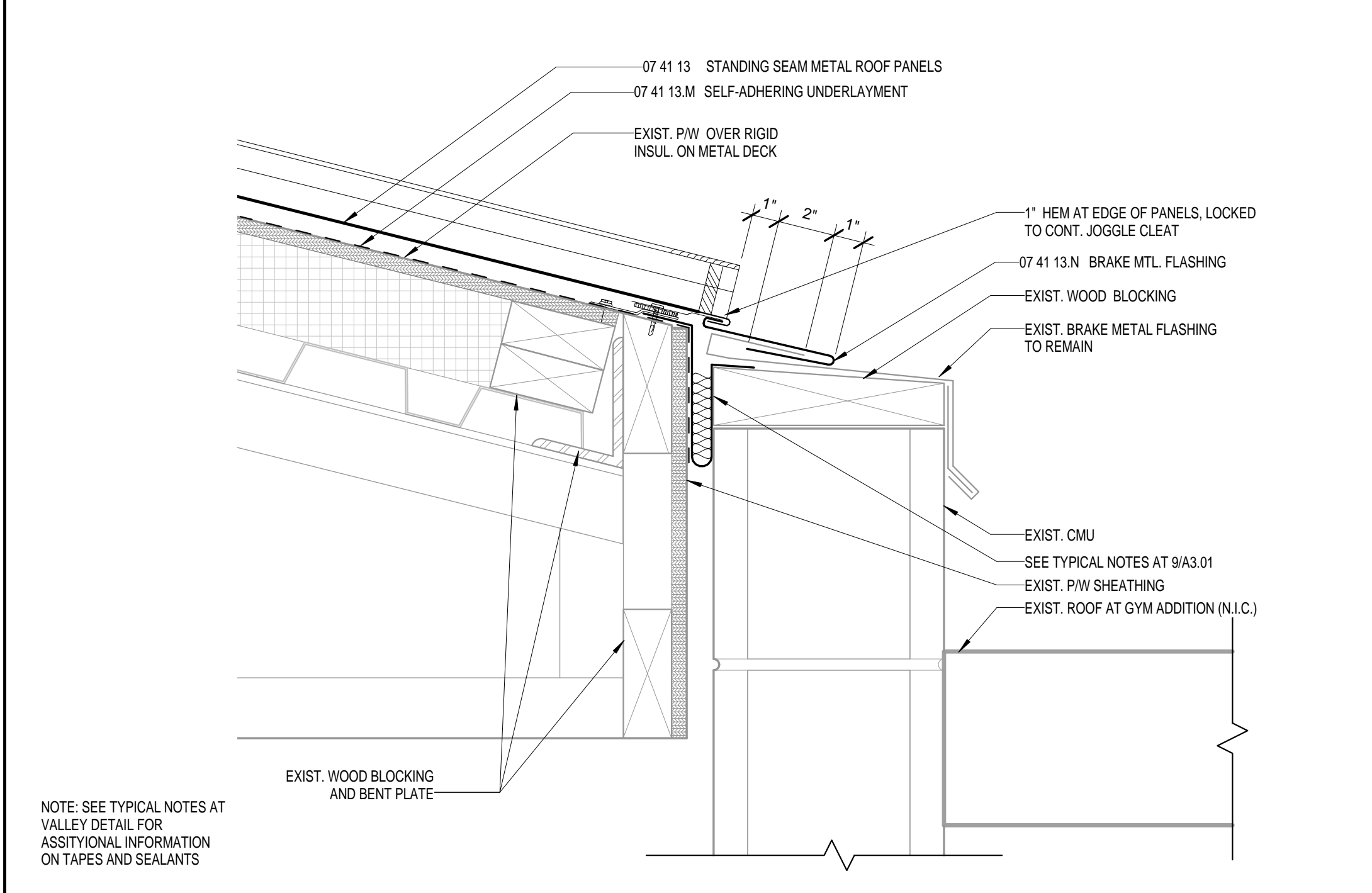
- LAYERS SHOWN SEPARATED FOR CLARITY
- EXISTING CONSTRUCTION SHOWN IN GREY DEPICTS CONDITIONS DELINEATED ON ORIGINAL CONSTRUCTION DOCUMENTS. AS-BUILT CONDITIONS MAY VARY. CONTRACTOR TO VERIFY FIELD CONDITIONS.



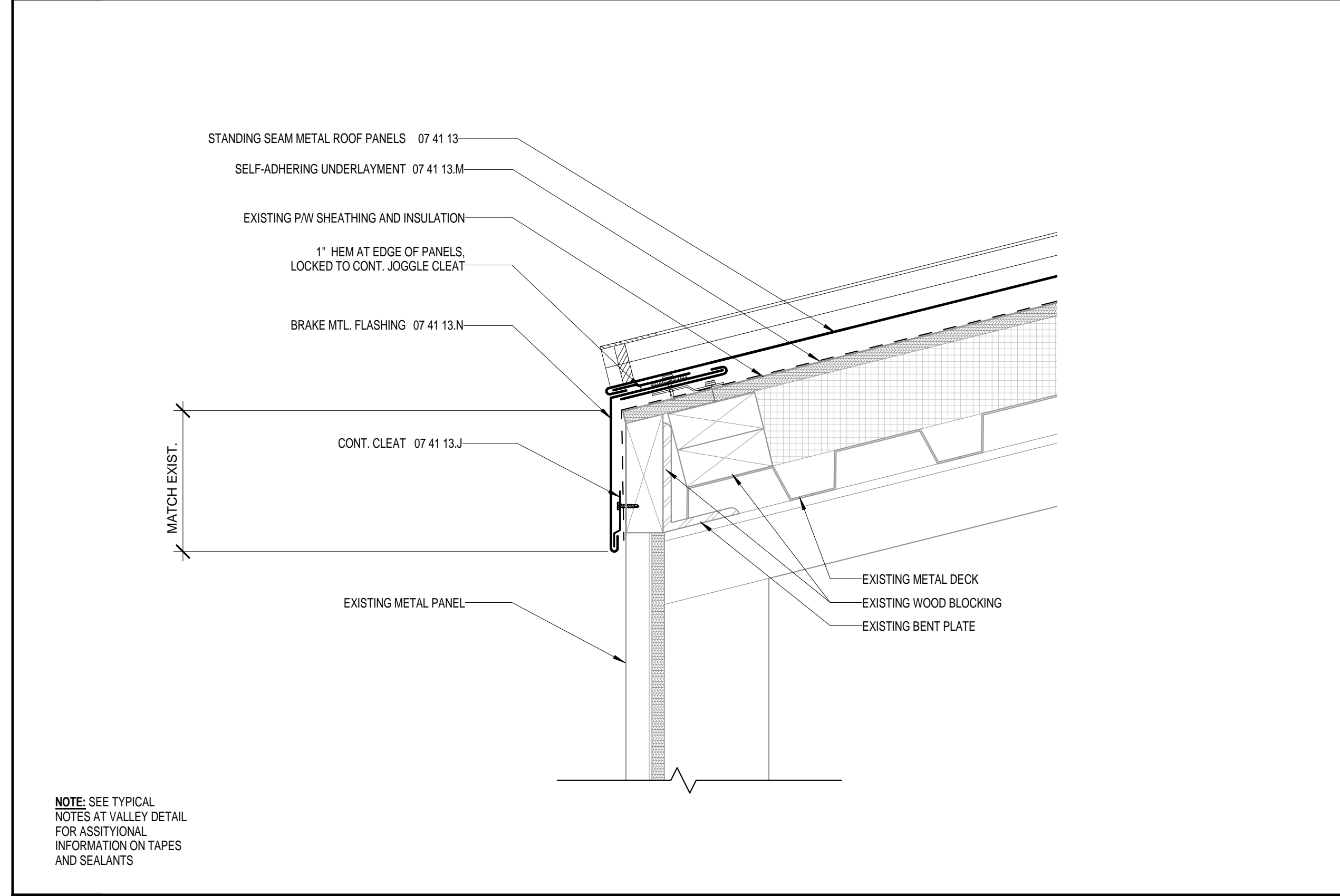
**2 EAVE AT SIDE ENTRY 1**  
A3.01 3" = 1'-0"



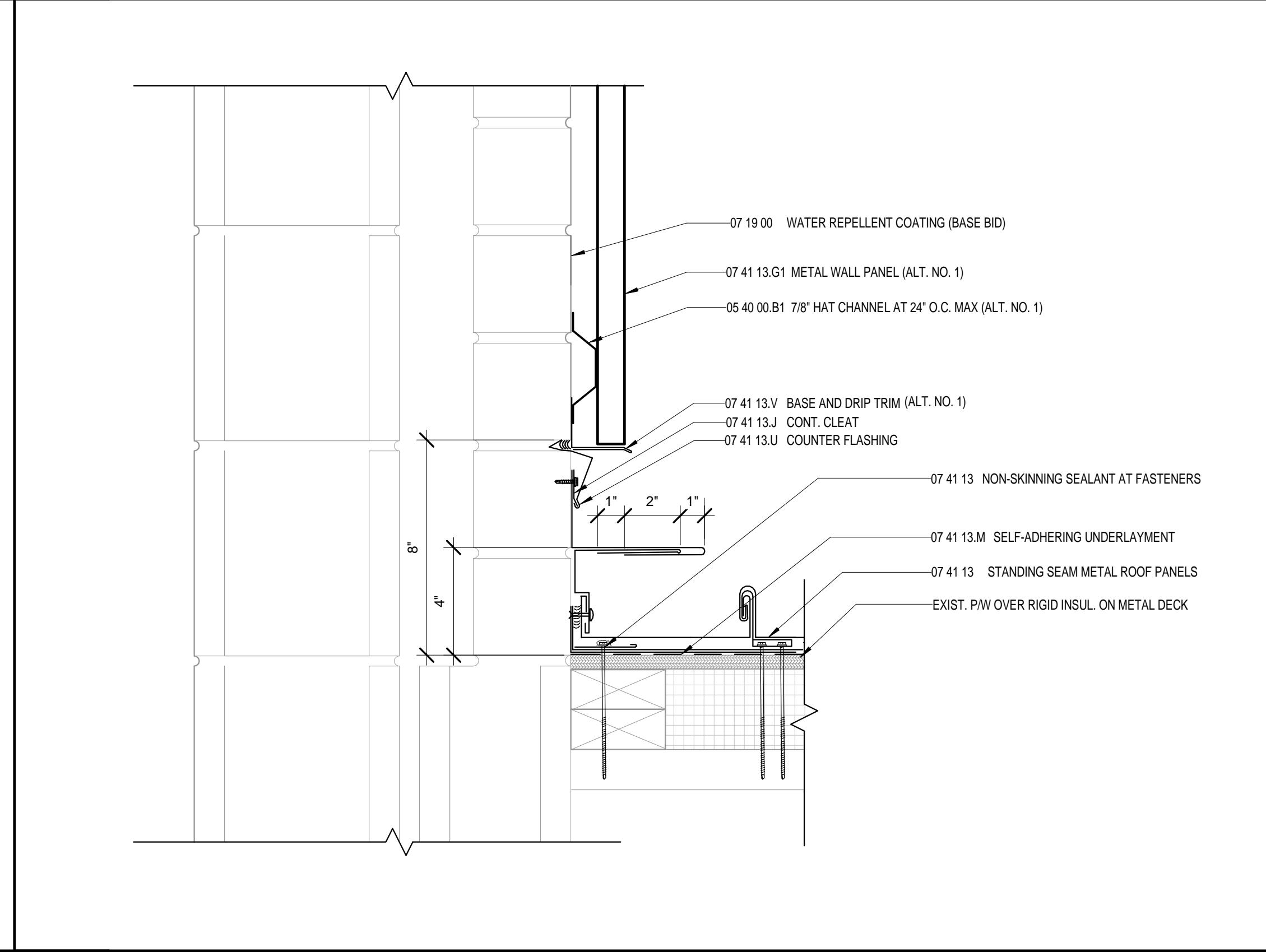
**5 SIDEWALL AT BRICK - SIDE ENTRIES**  
A3.01 3" = 1'-0"



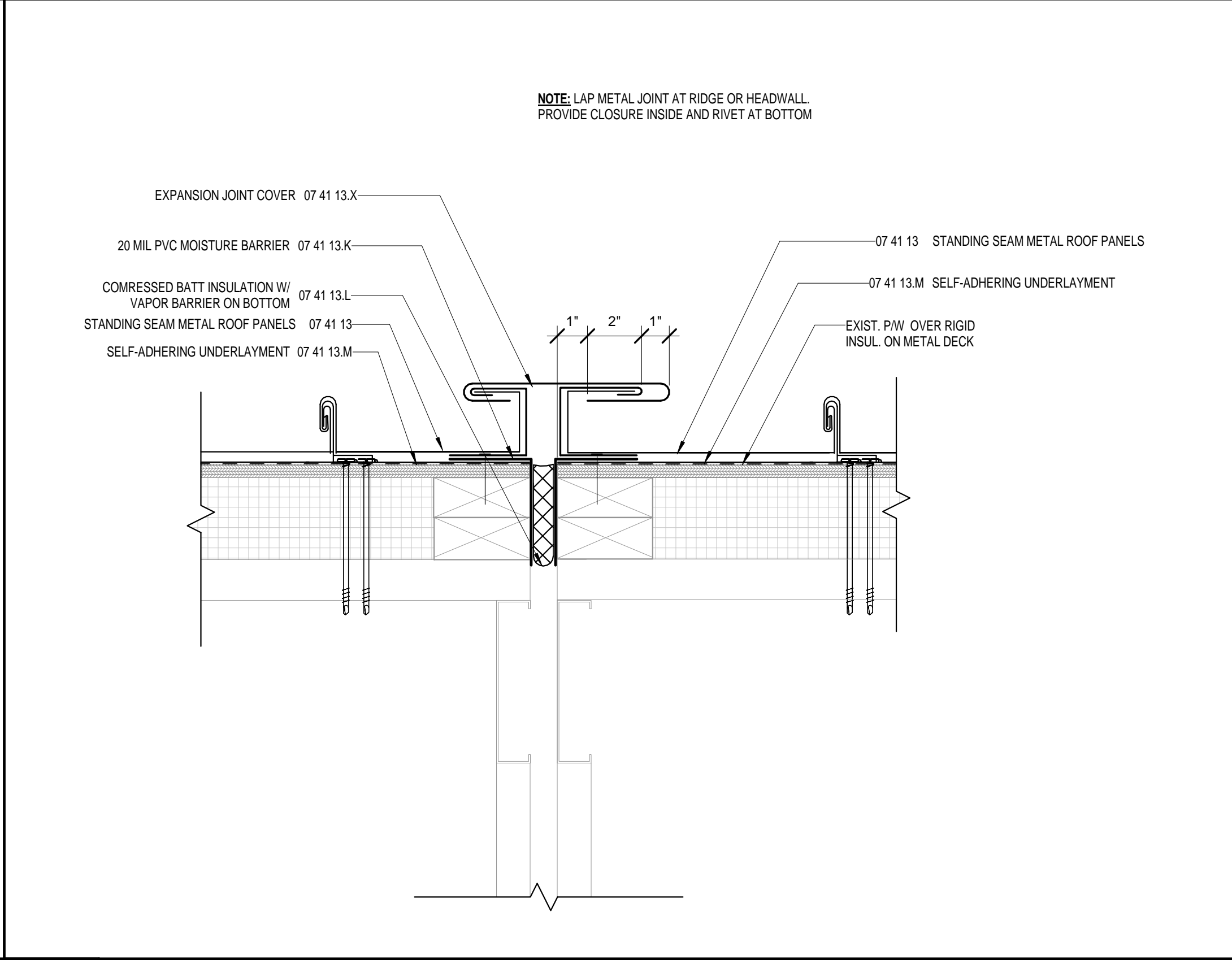
**8 CONNECTION AT GYMNASIUM ADDITION**  
A3.01 3" = 1'-0"



**3 EAVE AT CENTER AND SIDE ENTRY**  
A3.01 3" = 1'-0"



**6 SIDEWALL EXPANSION JOINT - GYM WALL**  
A3.01 3" = 1'-0"



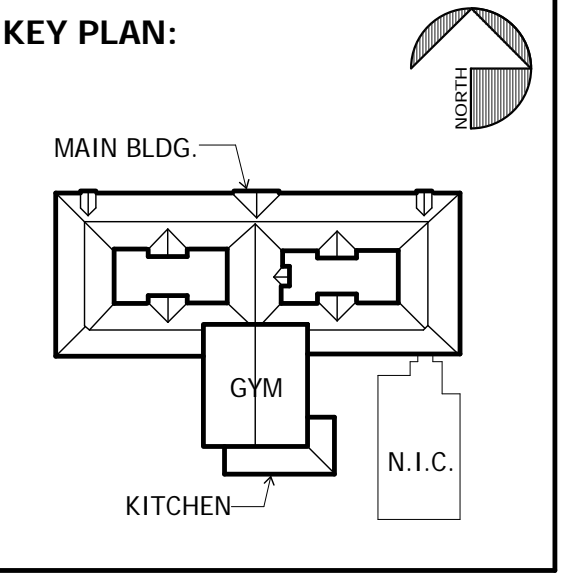
**9 EXPANSION JOINT**  
A3.01 3" = 1'-0"

**COASTAL MIDDLE SCHOOL ROOFING REPLACEMENT**  
4595 E US HWY 80, SAVANNAH, GA  
NOT FOR CONSTRUCTION

**CogdellMendralaArchitects**  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

SEAL:

**PROJECT CONSULTANTS:**  
**ROOFING STRATEGIES**  
2720 GREGORY STREET,  
SAVANNAH, GA 31404



**SHEET TITLE:**  
**ROOF DETAILS**

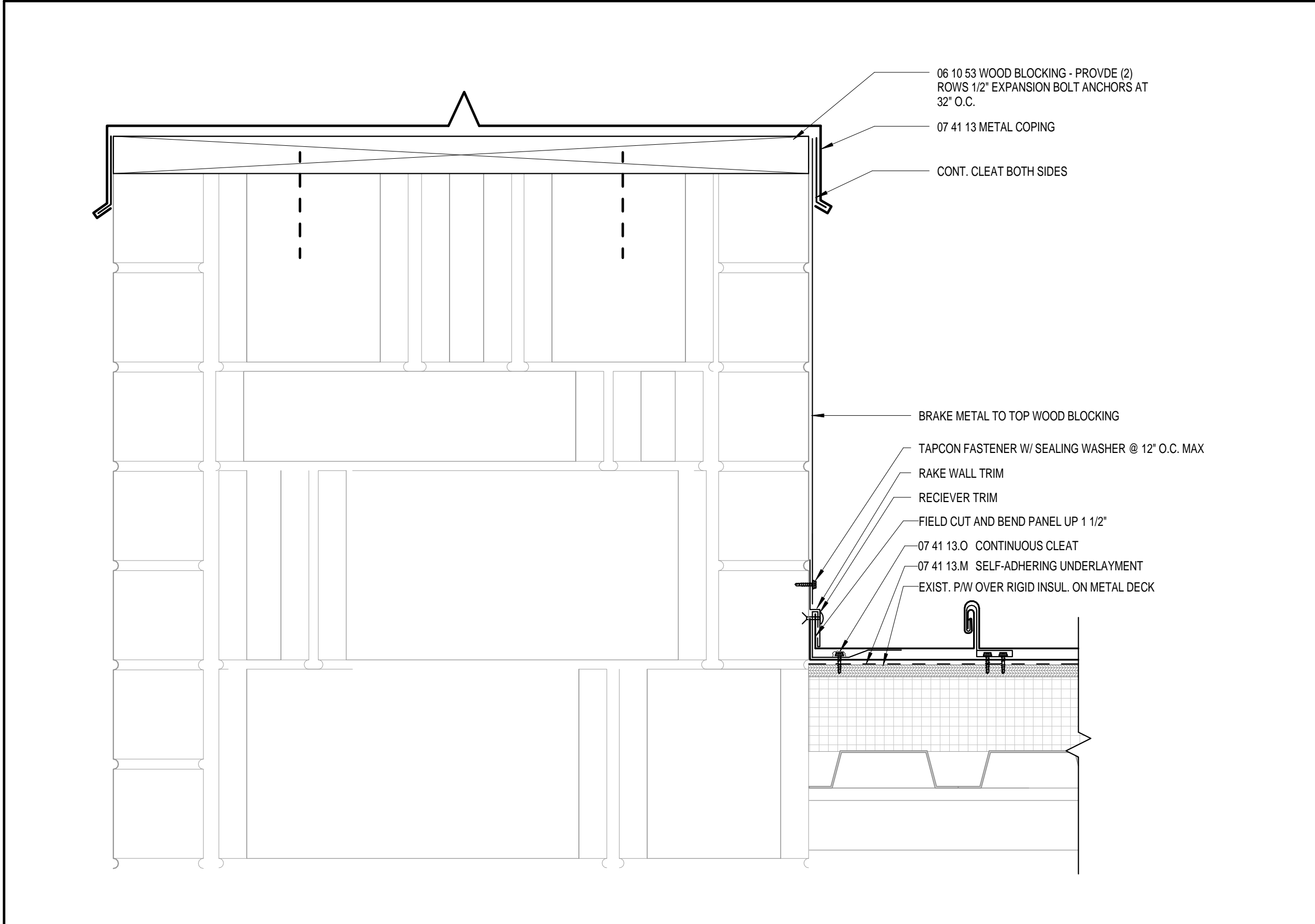
REVISION SCHEDULE	
DATE	DESCRIPTION

**PROJECT NO:** 1417  
**DATE:** MAY 2015  
**DRAWN BY:** Author  
**SCALE:** 3" = 1'-0"  
**FTE:** 712

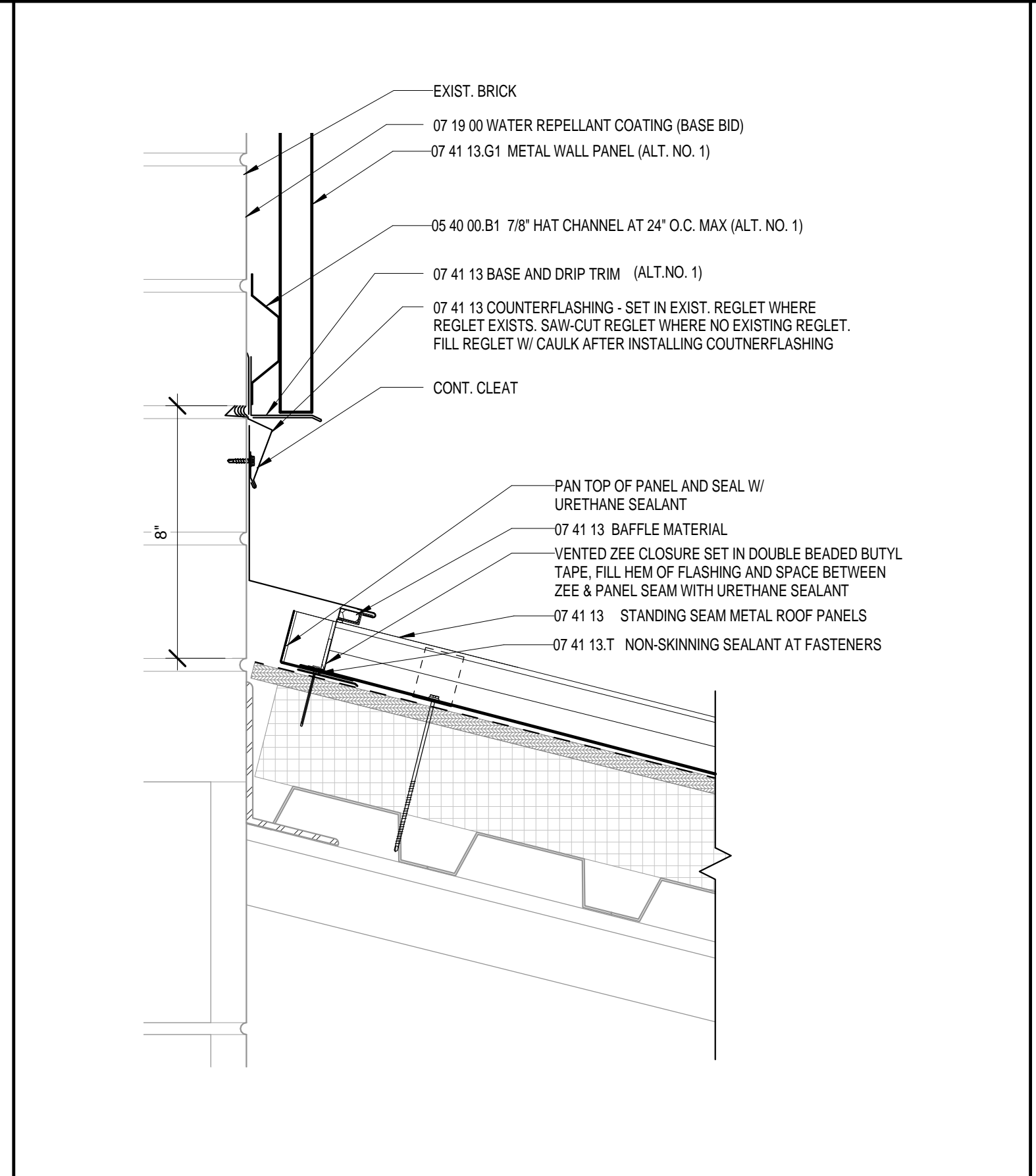
**SHEET:** **A3.01**



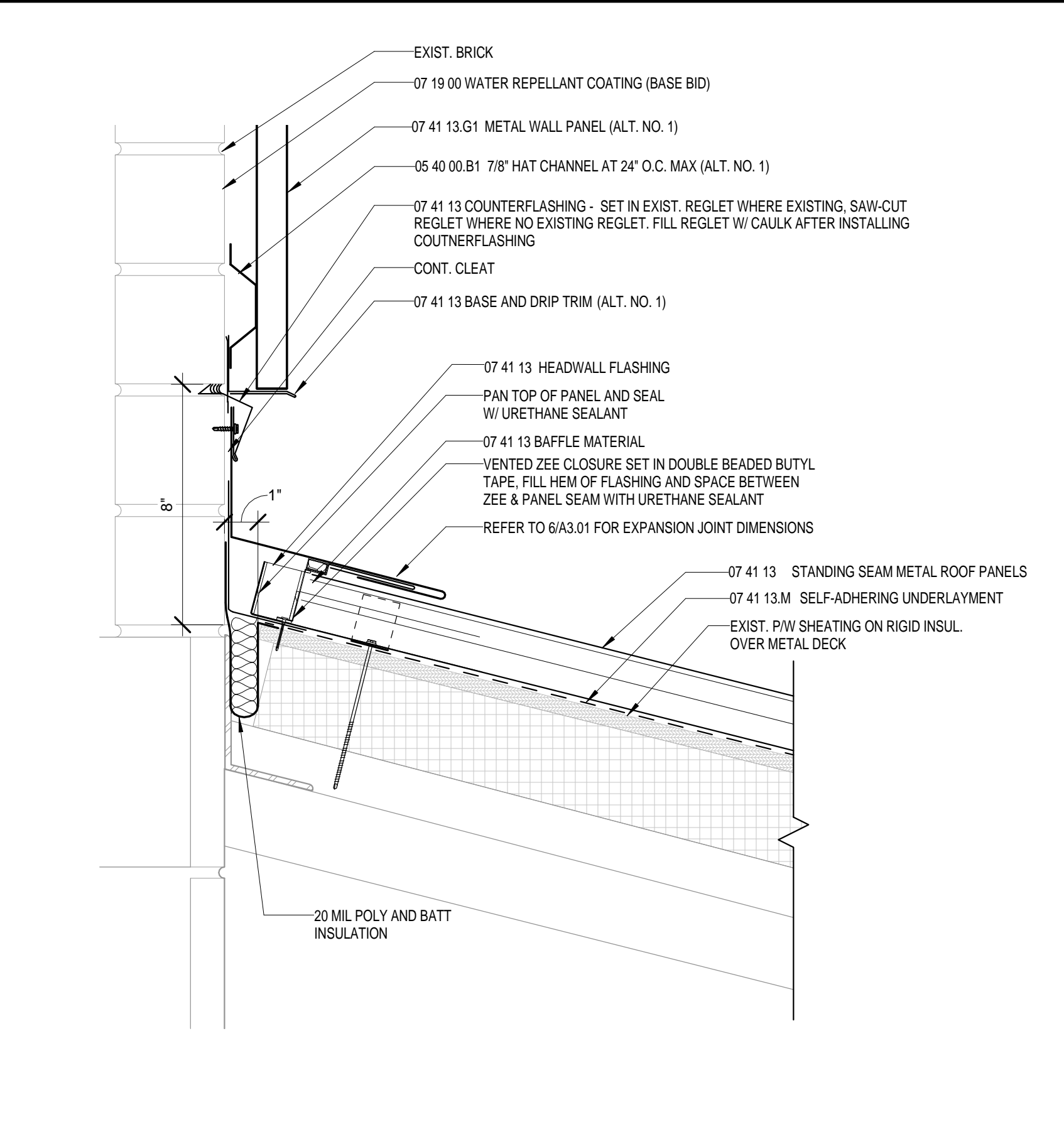
C:\Users\nudd\CAD\Documents\1417\_COASTAL\_MS ROOF\_RT2014\_CENTRAL\_rdd.rvt 5/14/2015 9:44:37 AM



**1 GABLE AT MAIN ENTRANCE**  
A3.02 3' = 1'-0"



**2 HEADWALL AT NORTH GYMNASIUM WALL**  
A3.02 3' = 1'-0"

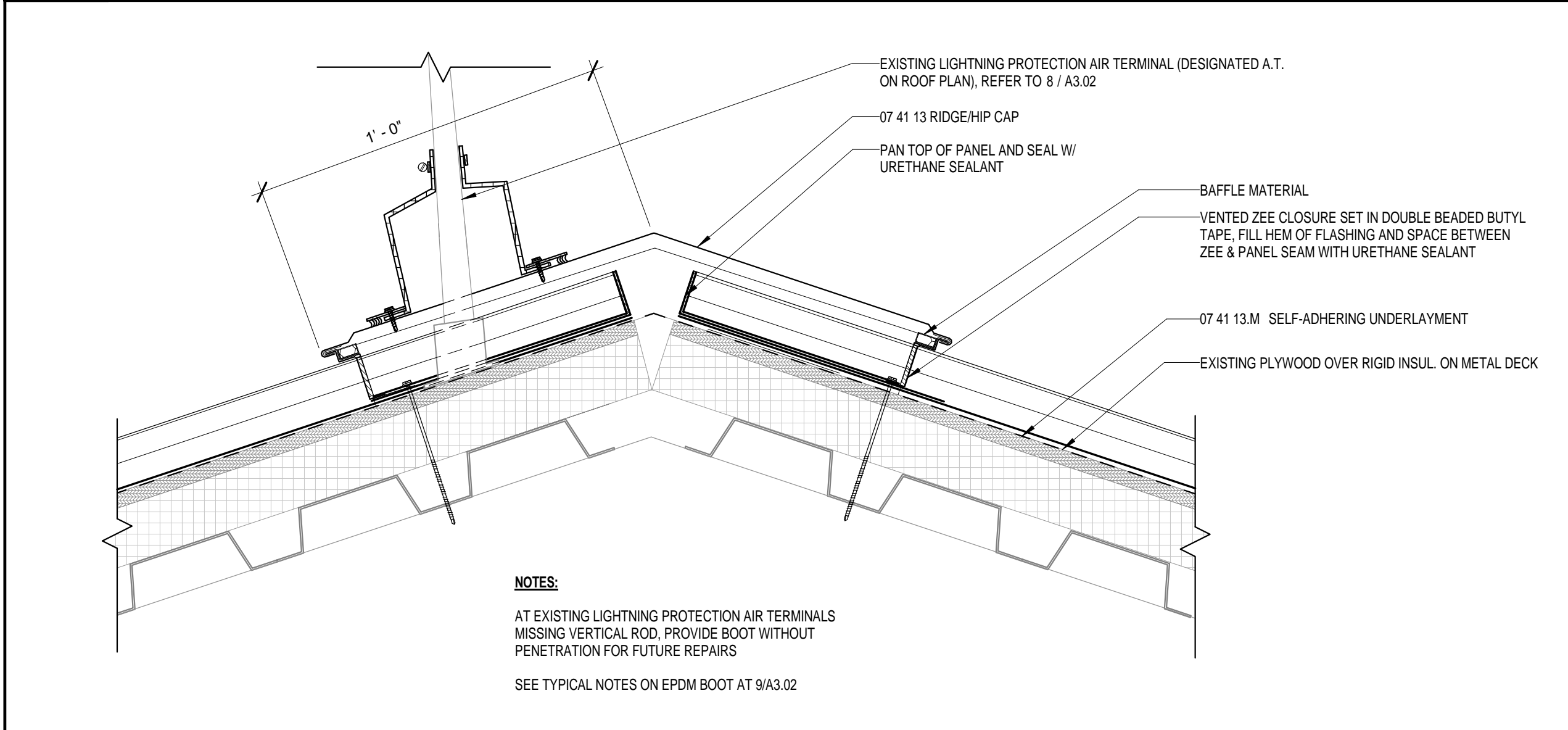


**3 HEADWALL AT KITCHEN**  
A3.02 3' = 1'-0"

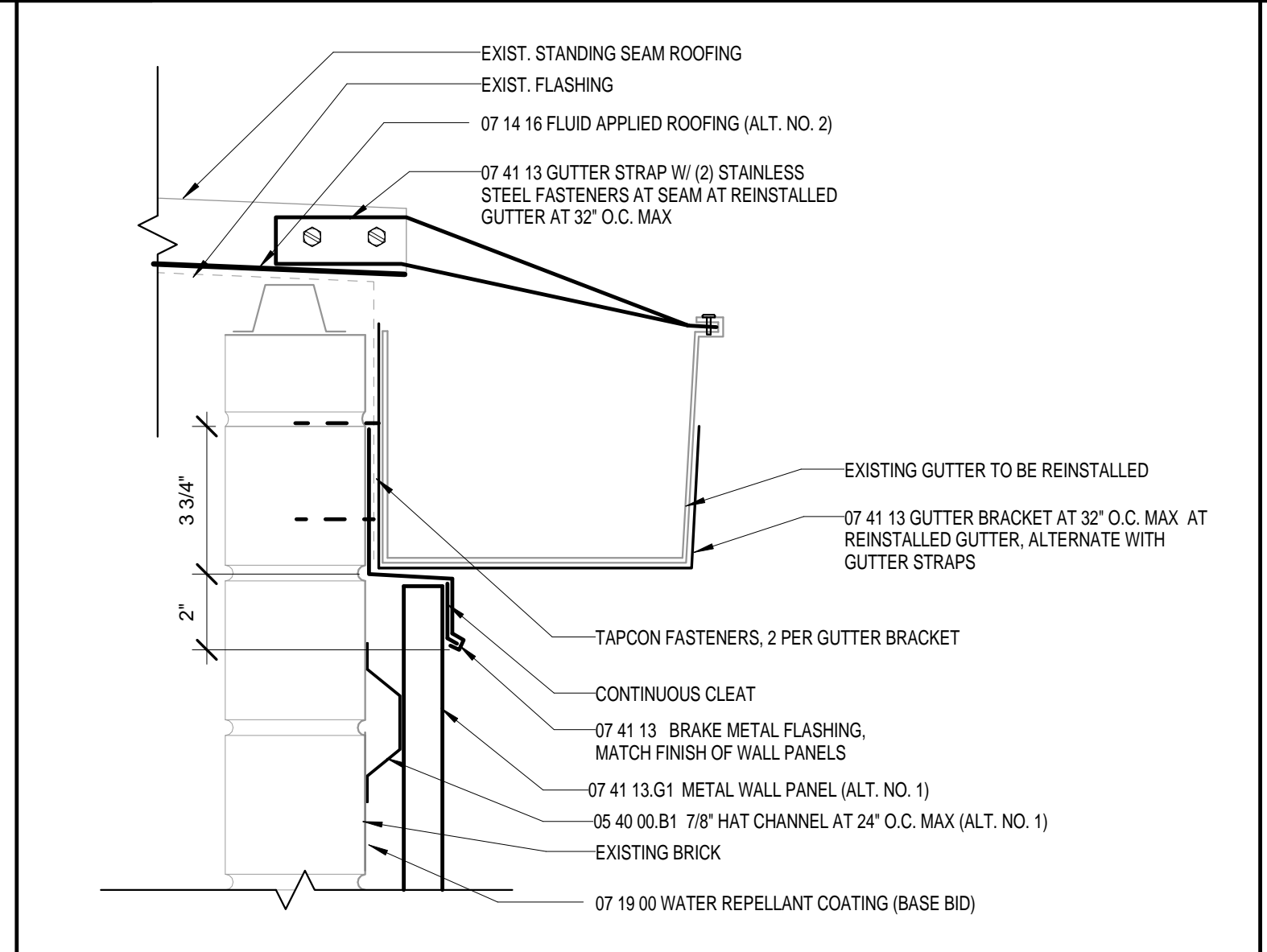
KEYNOTES	
NO.	TEXT
05 40 00.B1	7/8" HAT CHANNEL AT 24" O.C. MAX (ALT. NO. 1)
06 10 53.A1	P.T. WD. BLOCKING
06 10 53.C2	P.T. 2X NAILER
06 10 53.H8	1/2" P.T. PLYWOOD
07 41 13	STANDING SEAM METAL ROOF PANELS
07 41 13.A3	METAL GUTTER 6" X 6"
07 41 13.D1	METAL WALL PANEL, BASE BID
07 41 13.F	METAL SOFFIT PANEL
07 41 13.G1	METAL WALL PANEL (ALT. NO. 1)
07 41 13.M	SELF-ADHERING UNDERLAYMENT
07 41 13.N	BRAKE MTL. FLASHING
07 41 13.O	CONTINUOUS CLEAT
07 41 13.T	NON-SKINNING SEALANT AT FASTENERS

**NOTES:**

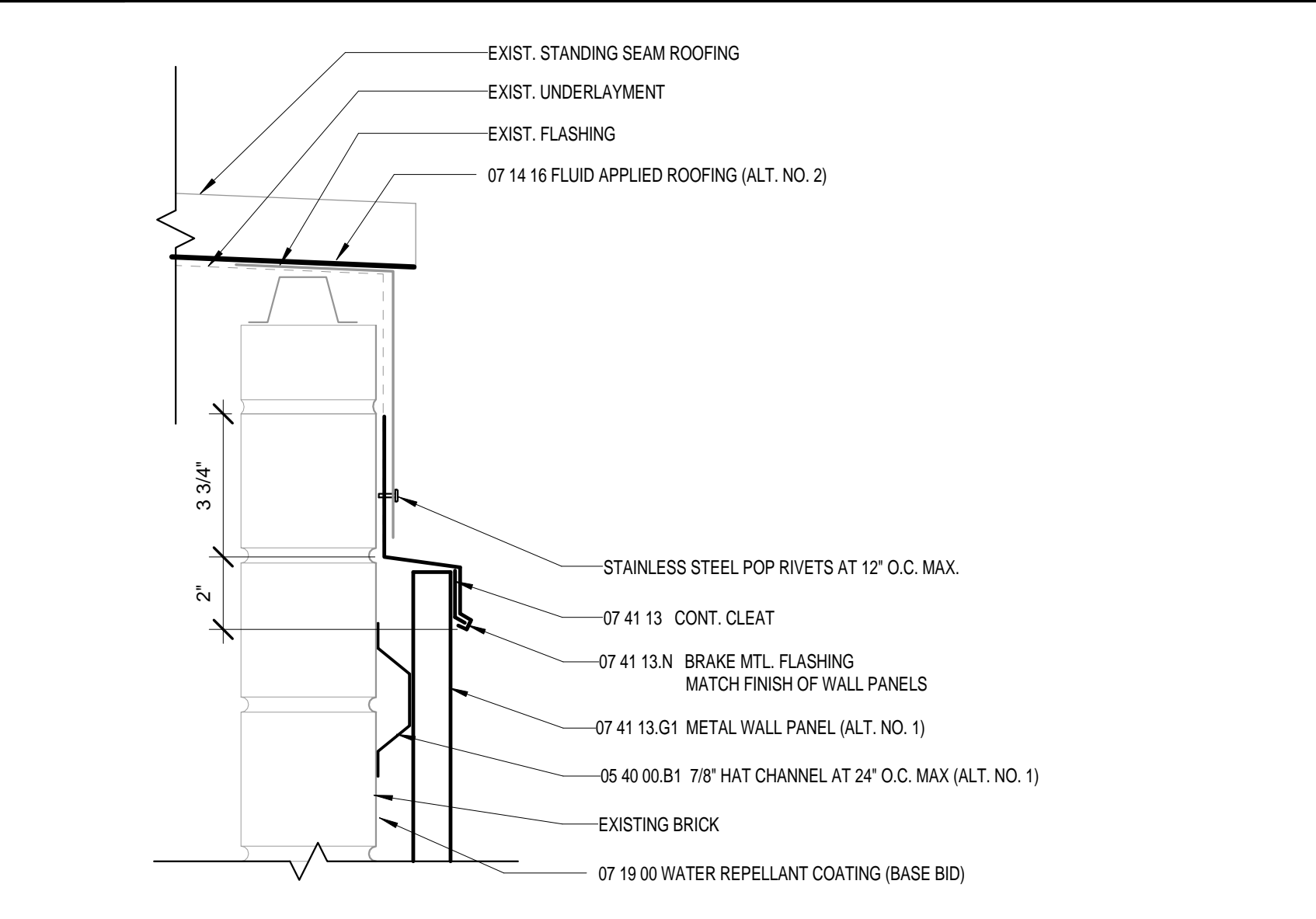
- LAYERS SHOWN SEPARATED FOR CLARITY
- EXISTING CONSTRUCTION SHOWN IN GREY DEPICTS CONDITIONS DELINEATED ON ORIGINAL CONSTRUCTION DOCUMENTS. AS-BUILT CONDITIONS MAY VARY, CONTRACTOR TO VERIFY FIELD CONDITIONS.



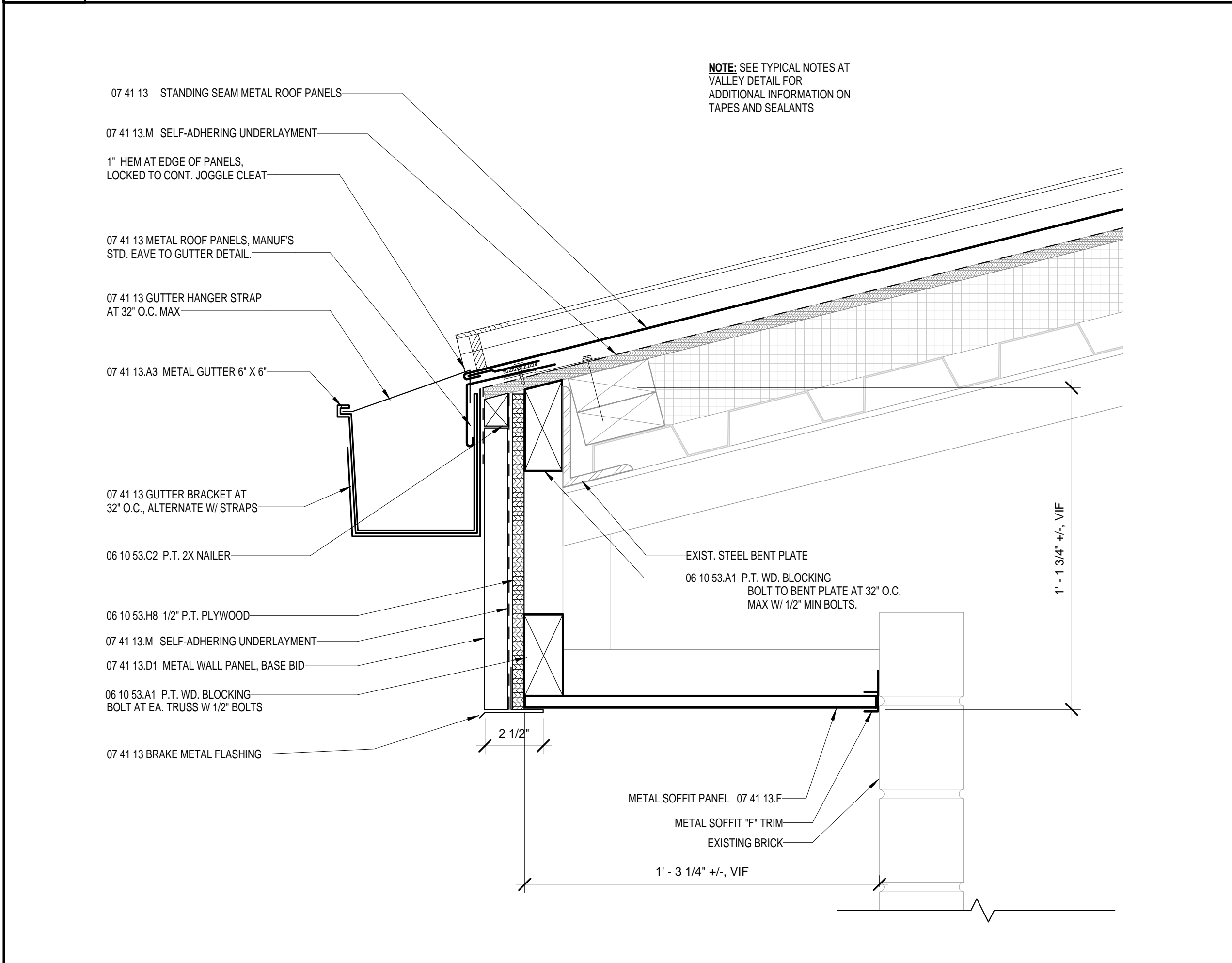
**4 HIP & RIDGE DETAIL**  
A3.02 3' = 1'-0"



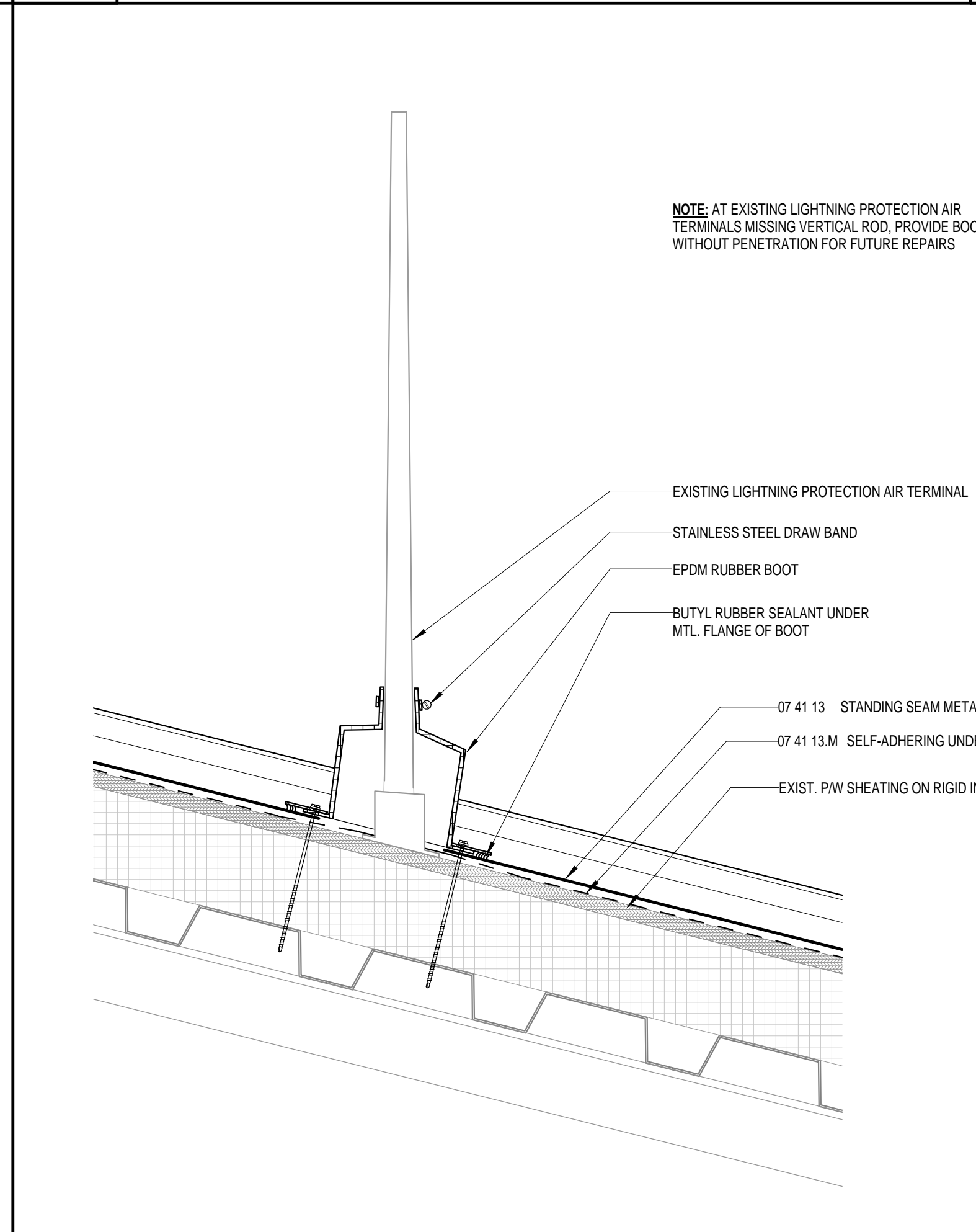
**5 WALL PANELS AT GYMNASIUM GUTTER (ALT. NO.1)**  
A3.02 3' = 1'-0"



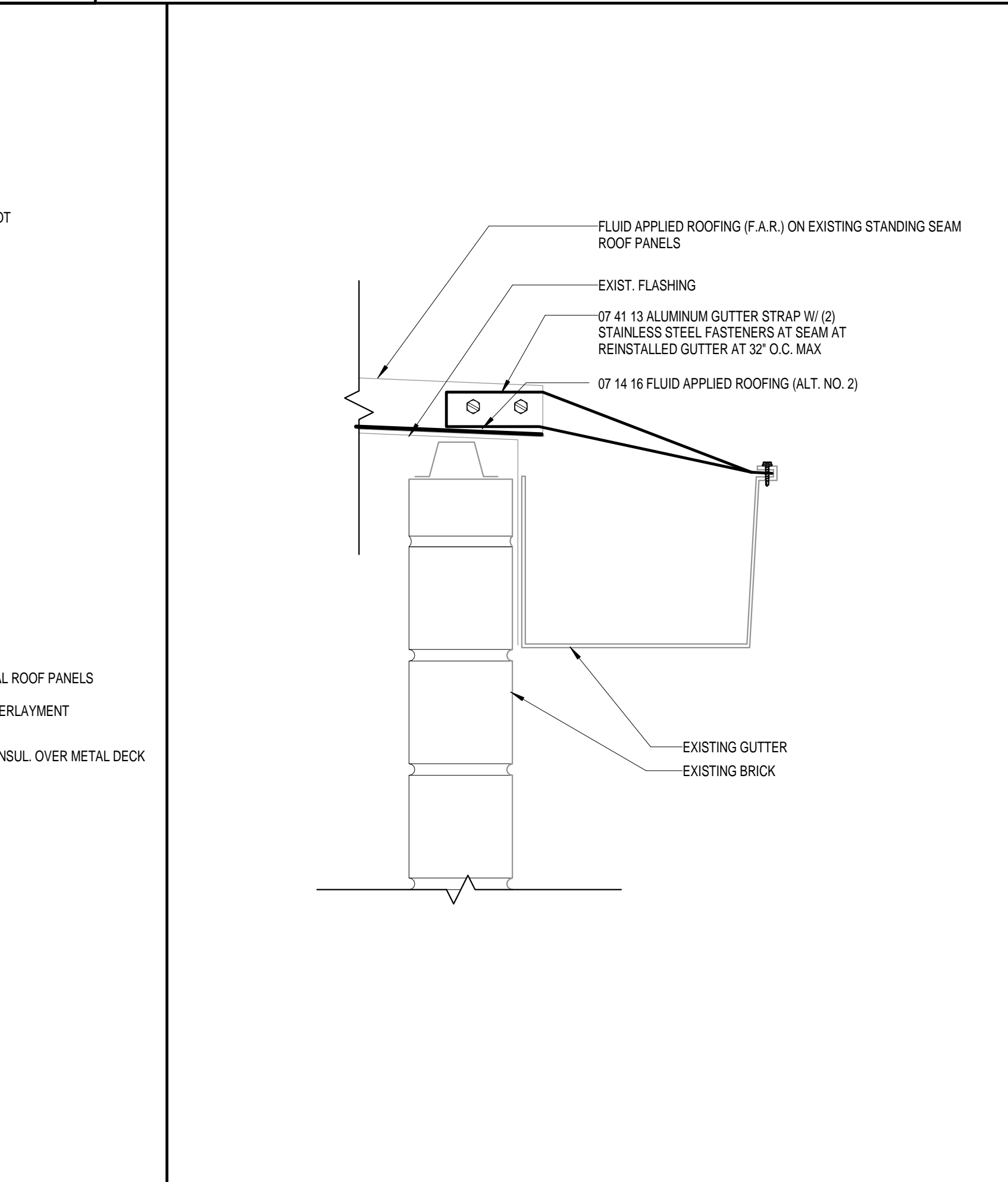
**6 WALL PANELS AT GYMNASIUM GABLE END (ALT. NO.1)**  
A3.02 3' = 1'-0"



**7 DETAIL AT LOADING DOCK**  
A3.02 3' = 1'-0"



**8 TYP. DETAIL AT SLOPED LIGHTING PROTECTION**  
A3.02 3' = 1'-0"



**9 GYM GUTTER DETAIL (ALT. NO. 2)**  
A3.02 3' = 1'-0"

**SCCPSS**

**COASTAL MIDDLE SCHOOL  
ROOFING REPLACEMENT**

4595 E US HWY 80,  
SAVANNAH, GA

NOT FOR CONSTRUCTION

**CogdellMendralaArchitects**  
COGDELL & MENDRALA ARCHITECTS, PC  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

**SEAL:**

**PROJECT CONSULTANTS:**

**ROOFING:  
ROOFING STRATEGIES**  
2720 GREGORY STREET,  
SAVANNAH, GA 31404

**KEY PLAN:**

**SHEET TITLE:  
ROOF DETAILS**

REVISION SCHEDULE	
DATE	DESCRIPTION

**PROJECT NO:** 1417  
**DATE:** MAY 2015  
**DRAWN BY:** Author  
**SCALE:** 3' = 1'-0"  
**FTE:** 712

**SHEET: A3.02**



C:\Users\nudd\CAD\Documents\1417\_COASTAL\_MS ROOF\_RT2014\_CENTRAL\_indd.rvt

5/14/2015 9:44:44 AM

KEYNOTES	
NO.	TEXT
06 10 53.A1	P.T. WD. BLOCKING
07 41 13.J	CONT. CLEAT
07 41 13.M	SELF-ADHERING UNDERLAYMENT
07 41 13.T1	CAULK AND BACKER ROD

**NOTES:**

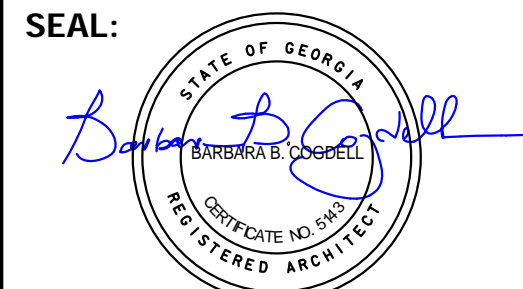
- LAYERS SHOWN SEPARATED FOR CLARITY
- EXISTING CONSTRUCTION SHOWN IN GREY DEPICTS CONDITIONS DELINEATED ON ORIGINAL CONSTRUCTION DOCUMENTS. AS-BUILT CONDITIONS MAY VARY. CONTRACTOR TO VERIFY FIELD CONDITIONS.



**COASTAL MIDDLE SCHOOL  
ROOFING REPLACEMENT**  
4595 E US HWY 80,  
SAVANNAH, GA  
NOT FOR CONSTRUCTION

CogdellMendralaArchitects  
**COGDELL & MENDRALA ARCHITECTS, PC**  
517 EAST CONGRESS STREET  
SAVANNAH, GEORGIA 31401  
tel 912.234.6318  
fax 912.236.8414  
cogdellmendrala.com

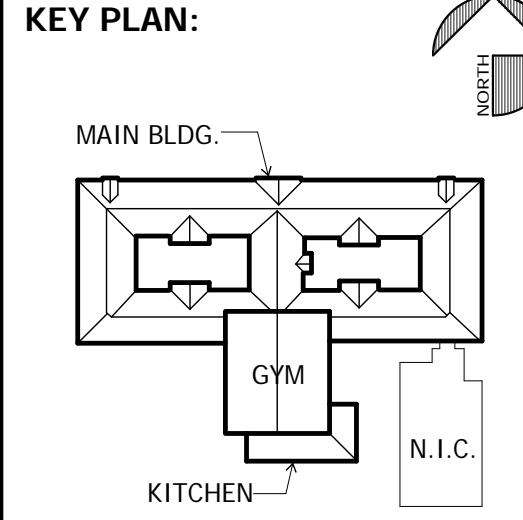
SEAL:



**PROJECT CONSULTANTS:**

ROOFING:  
**ROOFING STRATEGIES**  
2720 GREGORY STREET,  
SAVANNAH, GA 31404

**KEY PLAN:**



**SHEET TITLE:  
ROOF DETAILS**

REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO: 1417  
DATE: MAY 2015  
DRAWN BY: RML  
SCALE: As indicated  
FTE: 712

SHEET: **A3.03**

