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## **GENERAL INFORMATION**

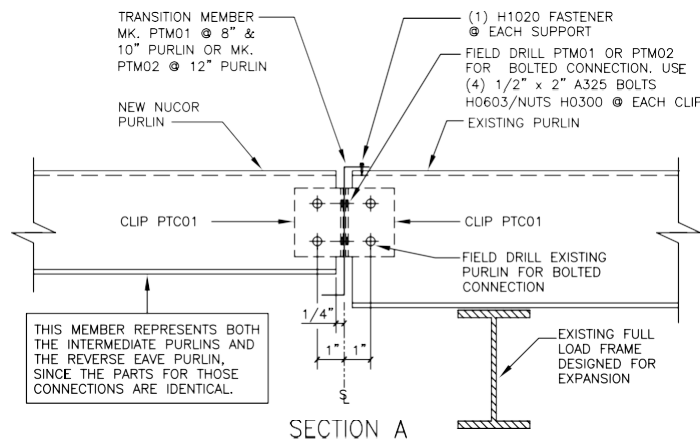
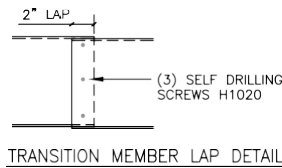
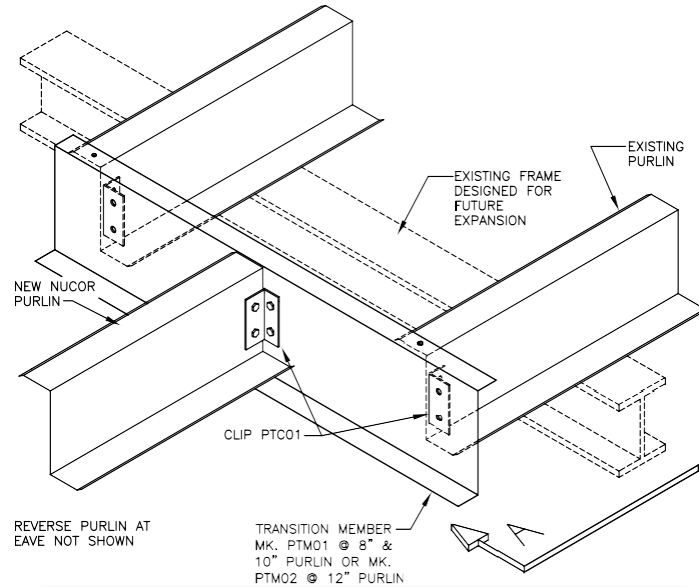
1. Re-working, cutting, reaming, shimming and fitting of structural connections may be required to match actual field conditions to make the tie-in structurally and aesthetically adequate.
2. Some roof details shown in this section are pictured with roof purlins. Some of the details may also be used in conjunction with roof joists.
3. Roof to wall tie-in details may require fieldwork to ensure weather tight conditions.
4. Nucor is not responsible for closures, flashing, mastic, fasteners, or any other accessories that may be required to adequately weatherproof existing wall and/or roof panels.

### **IMPORTANT NOTE:**

In the case where a Nucor building is tying into an existing building, it is possible that the Nucor building will impose additional loads onto the existing structure. The Project Engineer of Record (not the metal building supplier) must investigate the existing building to insure it remains structurally adequate for strength and stability considerations with the additional loads. This may also be performed by a design professional retained by the building owner. In a case where the existing building is a Nucor structure, Nucor can provide this investigation via special request from the Builder for an additional charge. Nucor shall not be construed as the Project Engineer of Record on any project, and shall not be held responsible for the effects or the design of existing structures. Water runoff from the existing building may invalidate the Galvalume warranty on the new roof. Also, tie-in flashings are not by Nucor.

**SECONDARY FRAMING**

**BJ0030 – PURLIN CONNECTION TO EXISTING NON-NUCOR BUILDING (W/ EXISTING FRAME)**

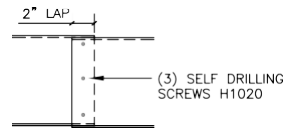
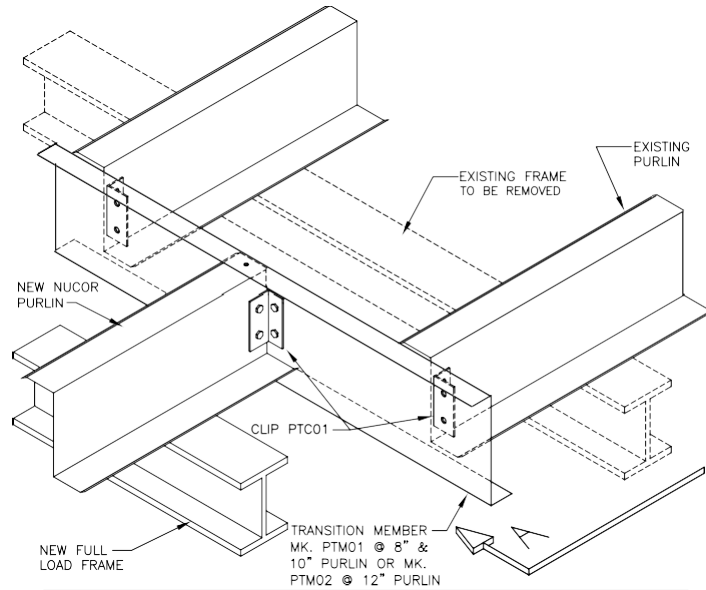


**PURLIN CONNECTION @ EXISTING BUILDING**

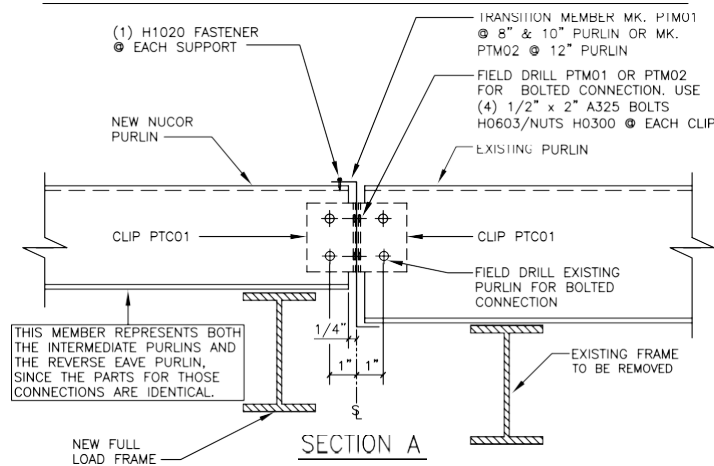
EXISTING PURLIN W/ EXISTING FRAME  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**BJ0030**

**BJ0040 – PURLIN CONNECTION TO EXISTING NON-NUCOR BUILDING (W/ NEW FRAME)**



TRANSITION MEMBER LAP DETAIL



SECTION A

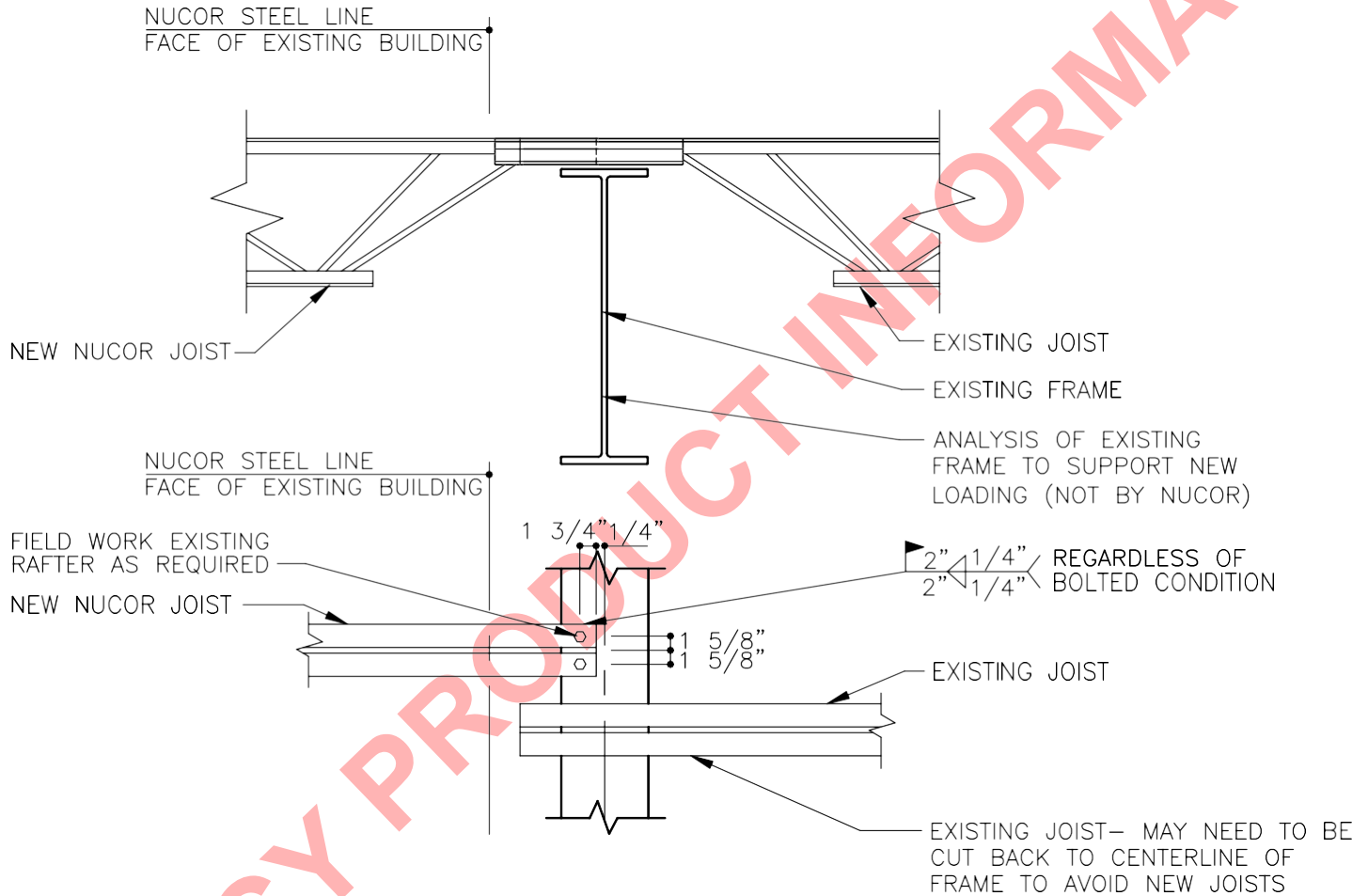
PURLIN CONNECTION @ EXISTING BUILDING

EXISTING PURLIN W/ NEW FRAME  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

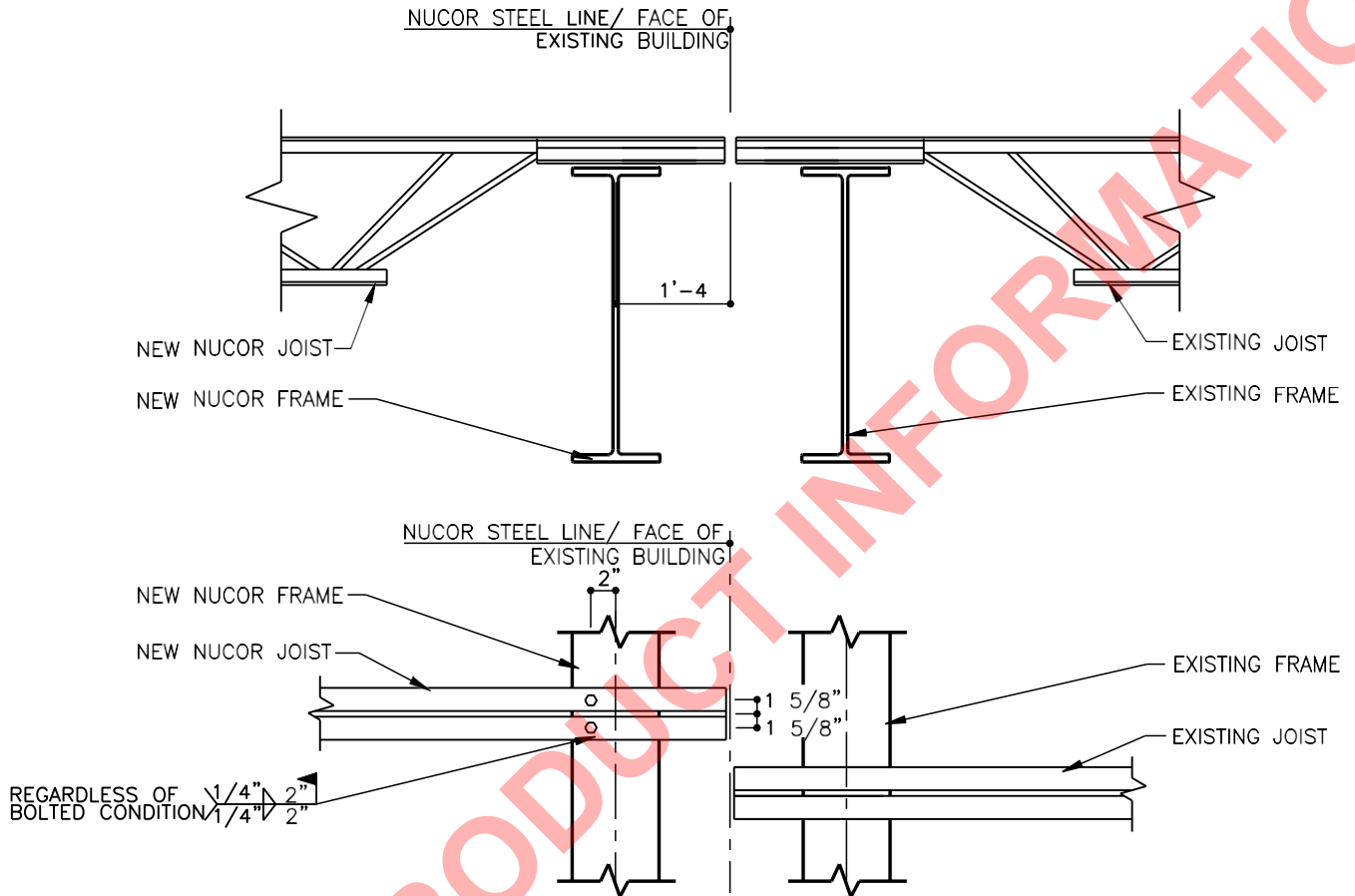
**BJ0040**

**BT0010PE – OPTIONAL JOIST CONNECTION TO NON-NUCOR BUILDING (EXISTING FRAME)**

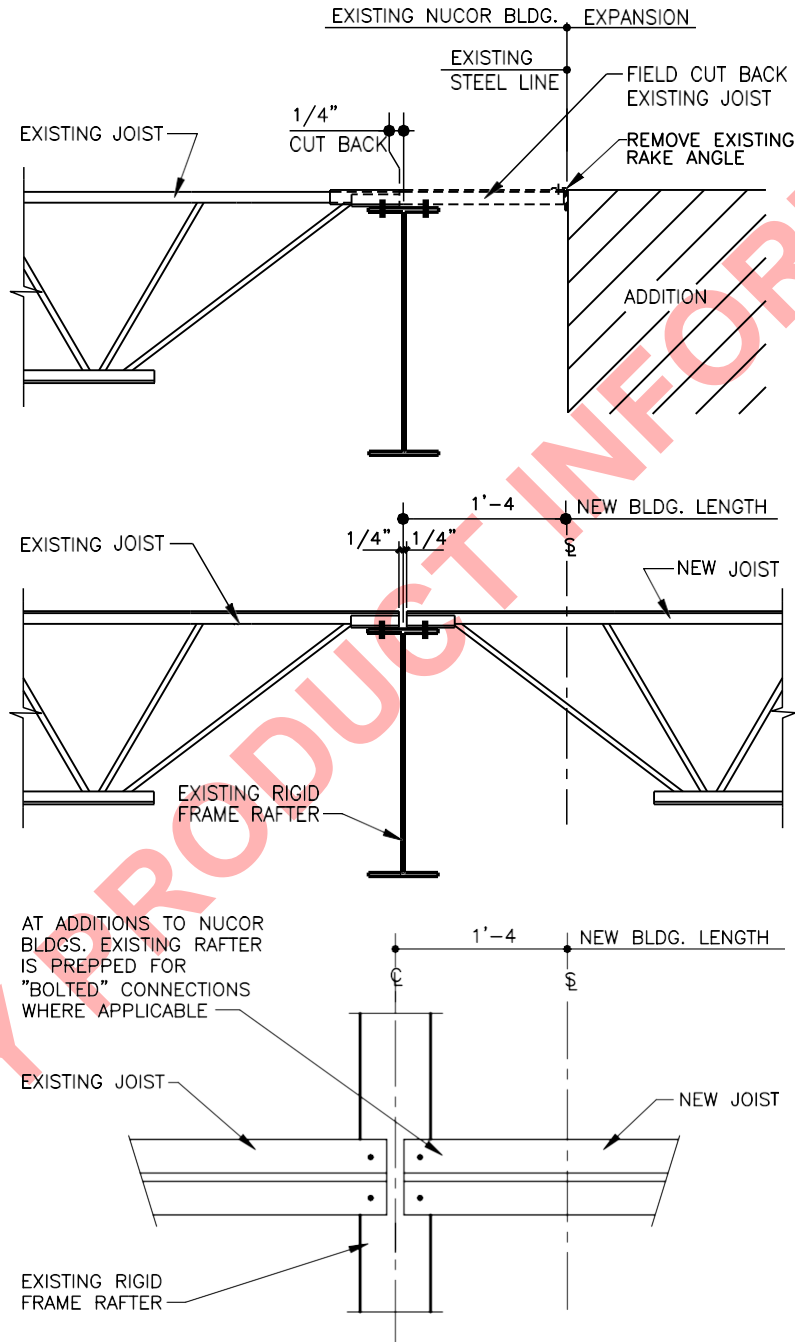
NOTE: THE NEW HIGH EAVE OR RIDGE JOIST MUST BE HELD 1'-4" DOWN FROM THE HIGH EAVE STEEL LINE OR THE RIDGE IN ORDER FOR THE CFR SYSTEM TO WORK PROPERLY. THE EXISTING JOIST MAY NEED TO BE FIELD CUT TO ALLOW FOR THIS CONDITION. FIELD WORK OF SOME EXISTING JOISTS MAY BE REQUIRED TO AVOID INTERFERENCE WITH NEW JOISTS.



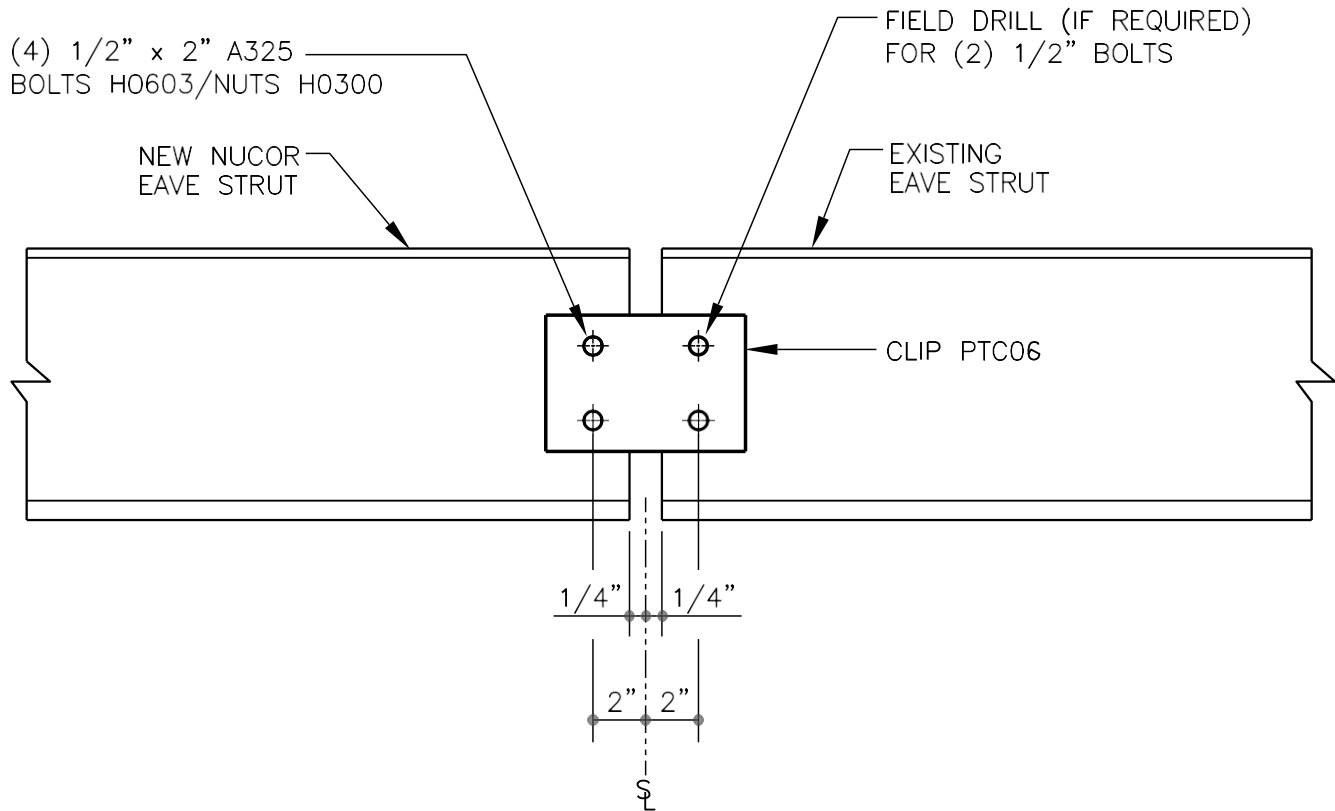
**BT0020PE – OPTIONAL JOIST CONNECTION TO NON-NUCOR BUILDING (NEW FRAME)**



**BT0030PE – STANDARD JOIST CONNECTION AT EXPANDABLE ENDWALL (FULL LOAD FRAME)**



**BJ0090 – EAVE STRUT TO EXISTING @ HIGH SIDE OF BUILDING**



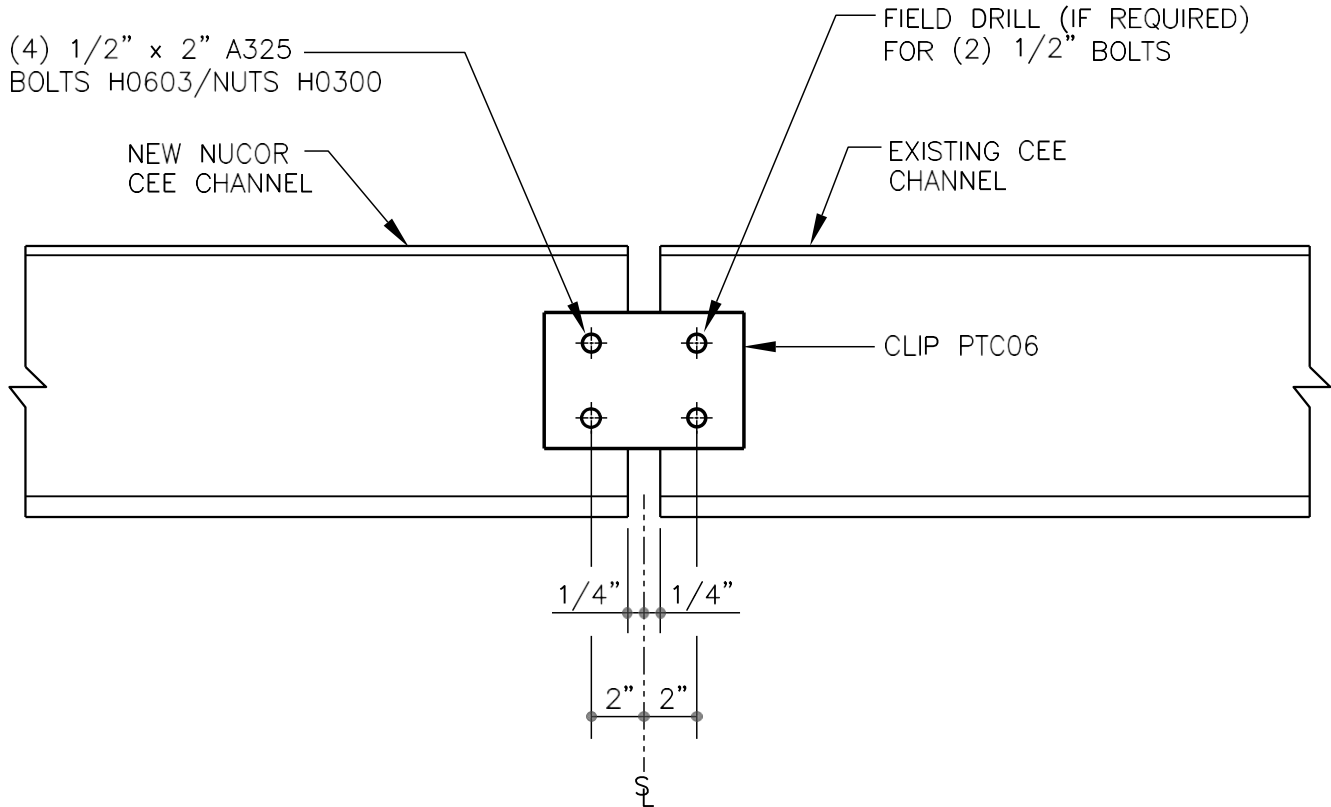
**EAVE STRUT CONN AT EXISTING BUILDING**

NUCOR EXISTING EAVE STRUT @ HIGH SIDE OF BUILDING  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**BJ0090**



**BJ0100 – CEE CHANNEL TO EXISTING @ HIGH SIDE OF BUILDING**



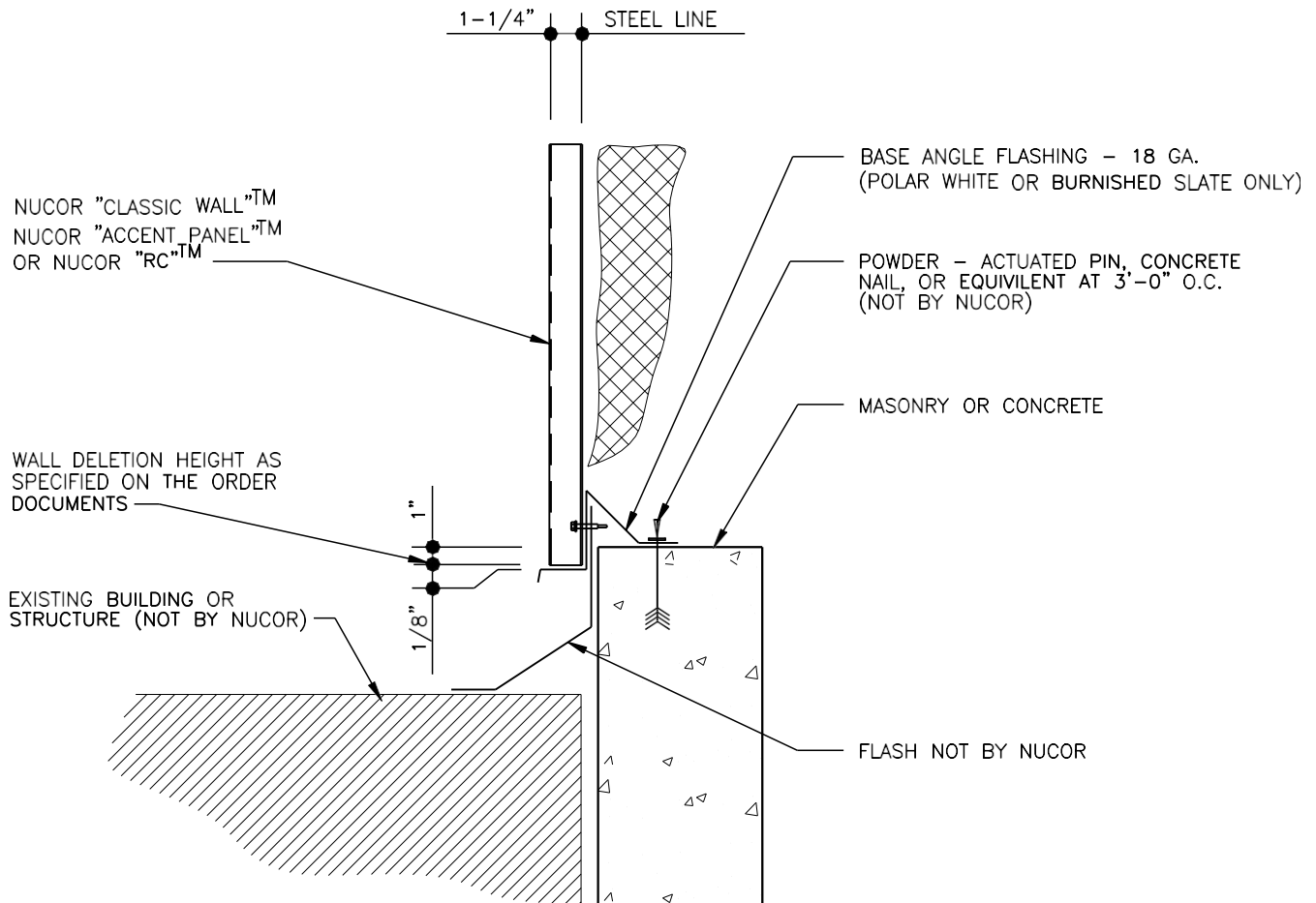
**CEE CHANNEL CONN AT EXISTING BUILDING**

NUCOR EXISTING CEE CHANNEL @ HIGH SIDE OF BUILDING  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**BJ0100**

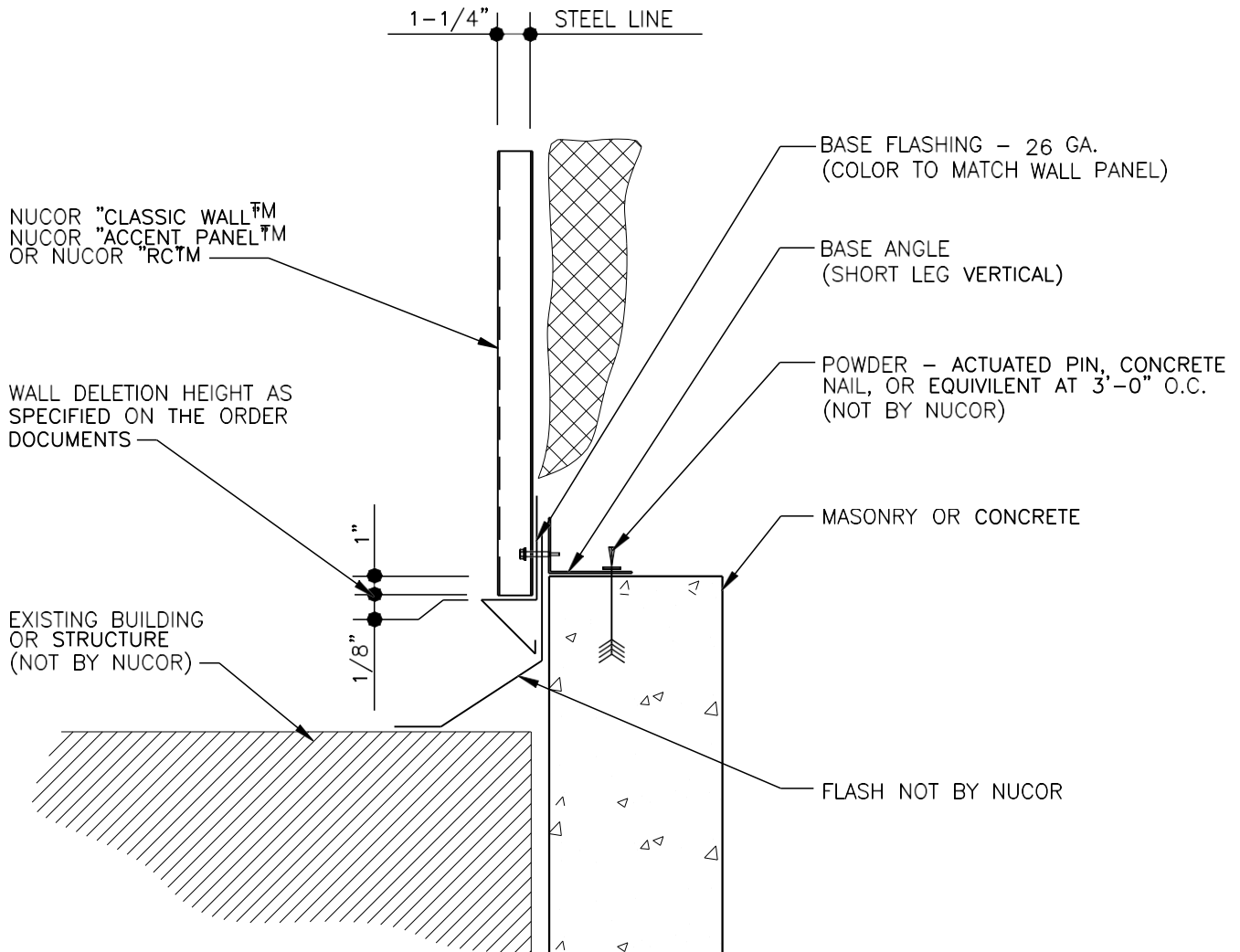
**BT0040PE – STANDARD BASE CONDITION AT MASONRY/CONCRETE (NON-NUCOR BUILDING TIE-IN)**

(3/32" x 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0" ABOVE THE LOWER BUILDING ROOF LINE.)



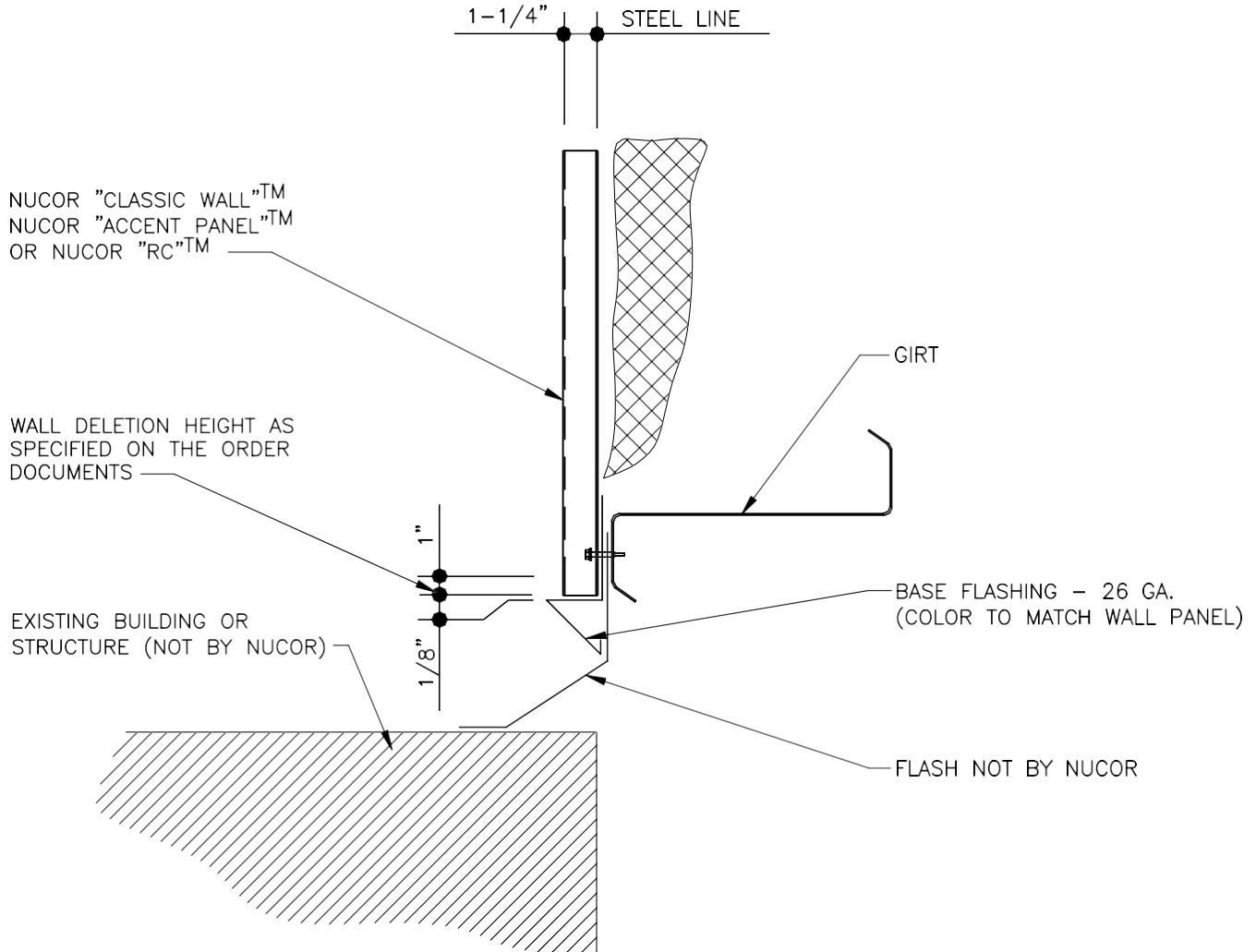
**BT0050PE – OPTIONAL BASE CONDITION AT MASONRY/CONCRETE (NON-NUCOR BUILDING TIE-IN)**

(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0" ABOVE THE LOWER BUILDING ROOF LINE.)



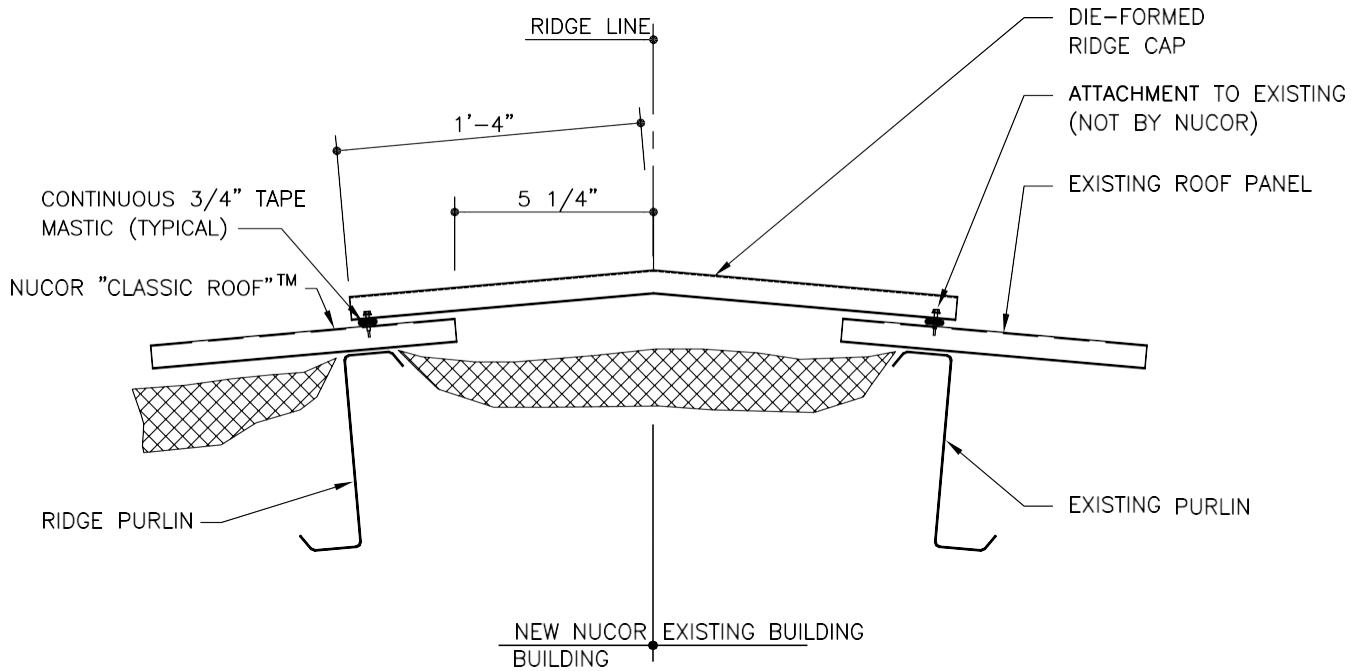
**BT0060PE – STANDARD BASE CONDITION AT METAL WALL (NON-NUCOR BUILDING TIE-IN)**

(3/32" x 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0" ABOVE THE LOWER BUILDING ROOF LINE.)

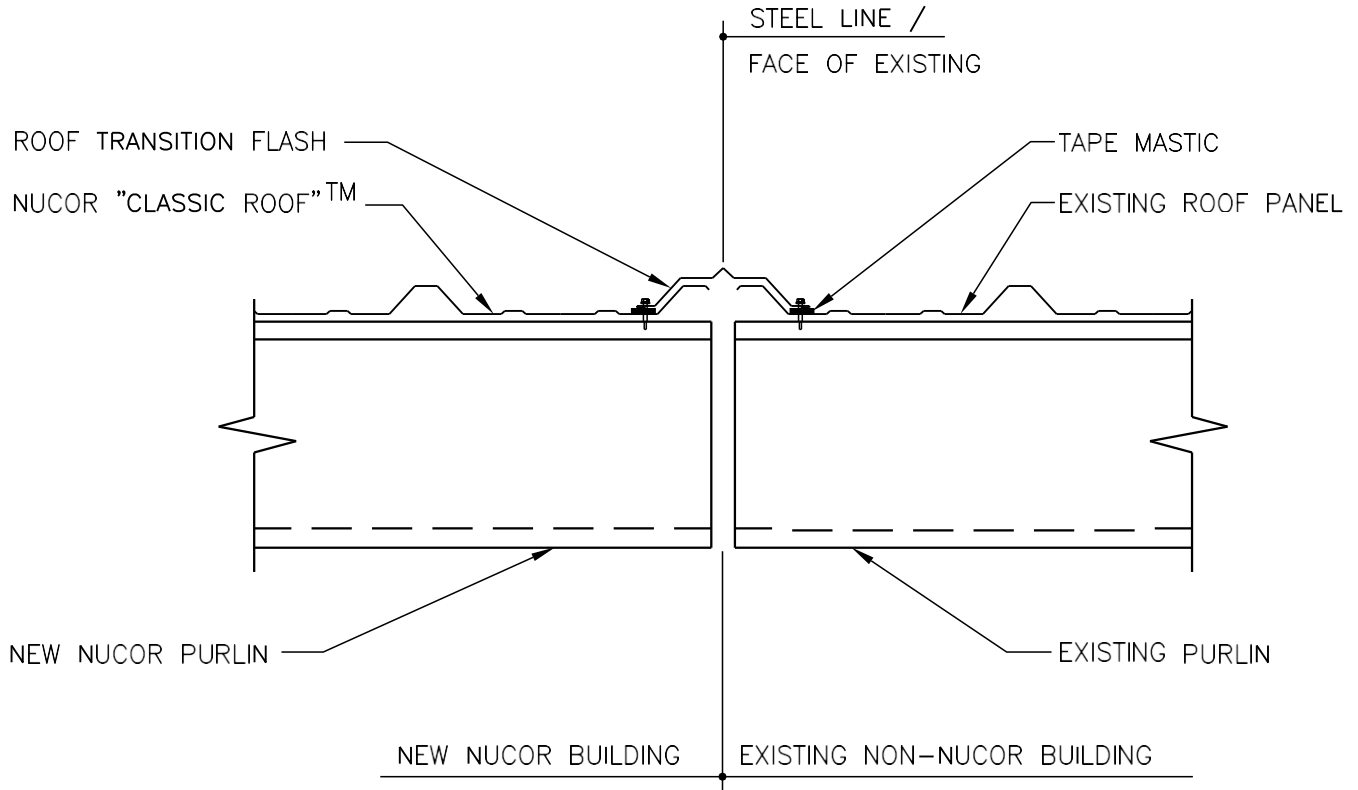


**ROOF SHEETING: NUCOR CLASSIC ROOF™**

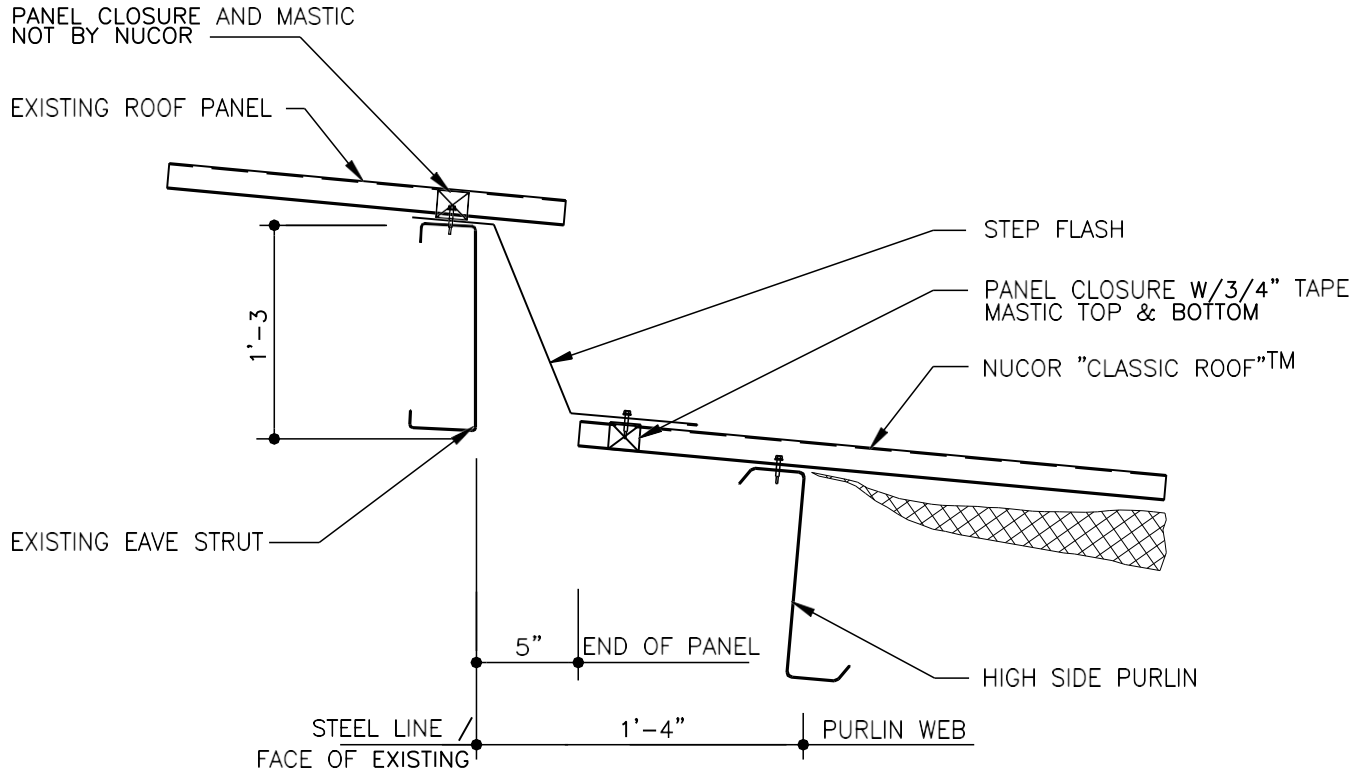
**BT0070PE – NUCOR CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT RIDGE**



**BT0080PE – NUCOR CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT RAKE**

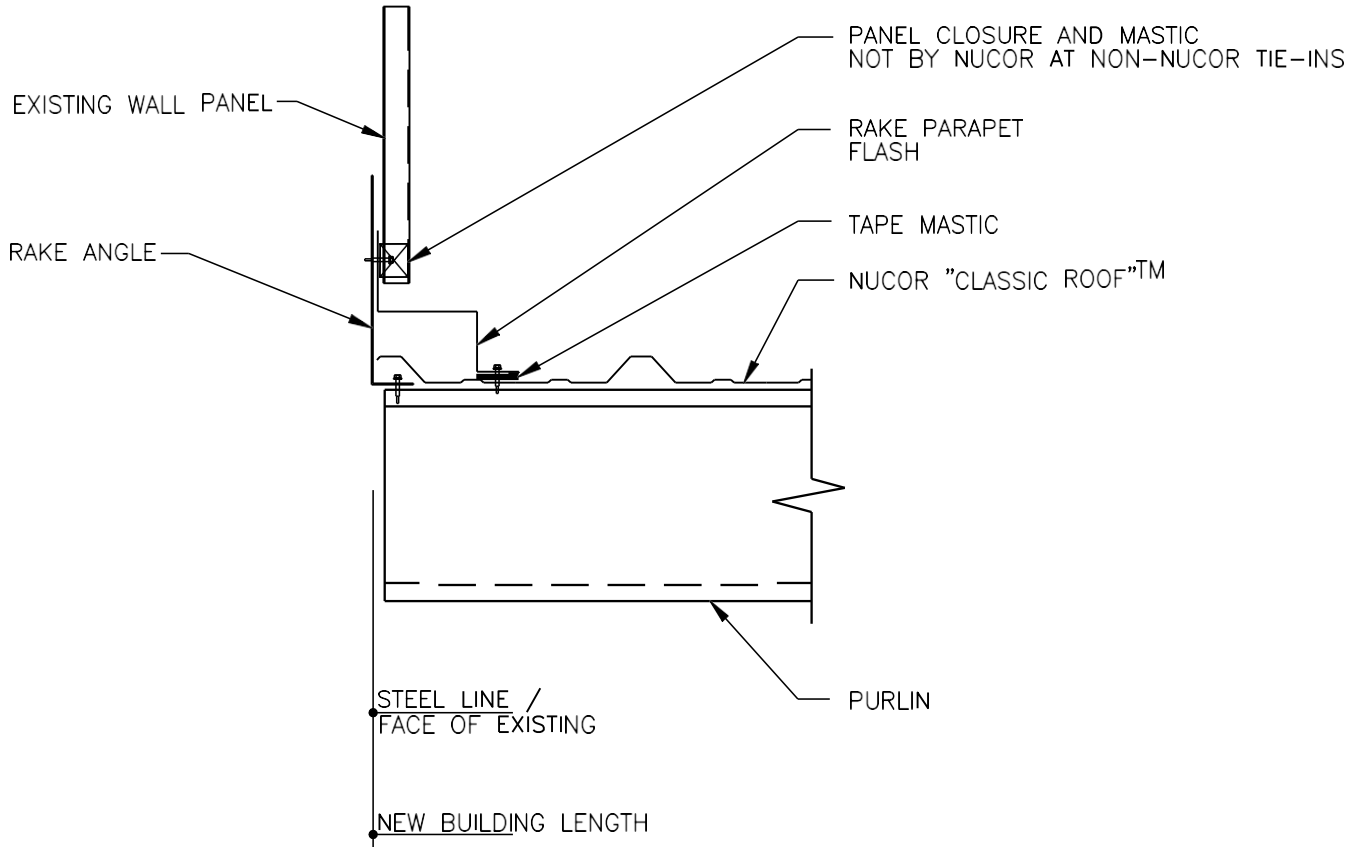


**BT0090PE – NUCOR CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT ROOF STEP**



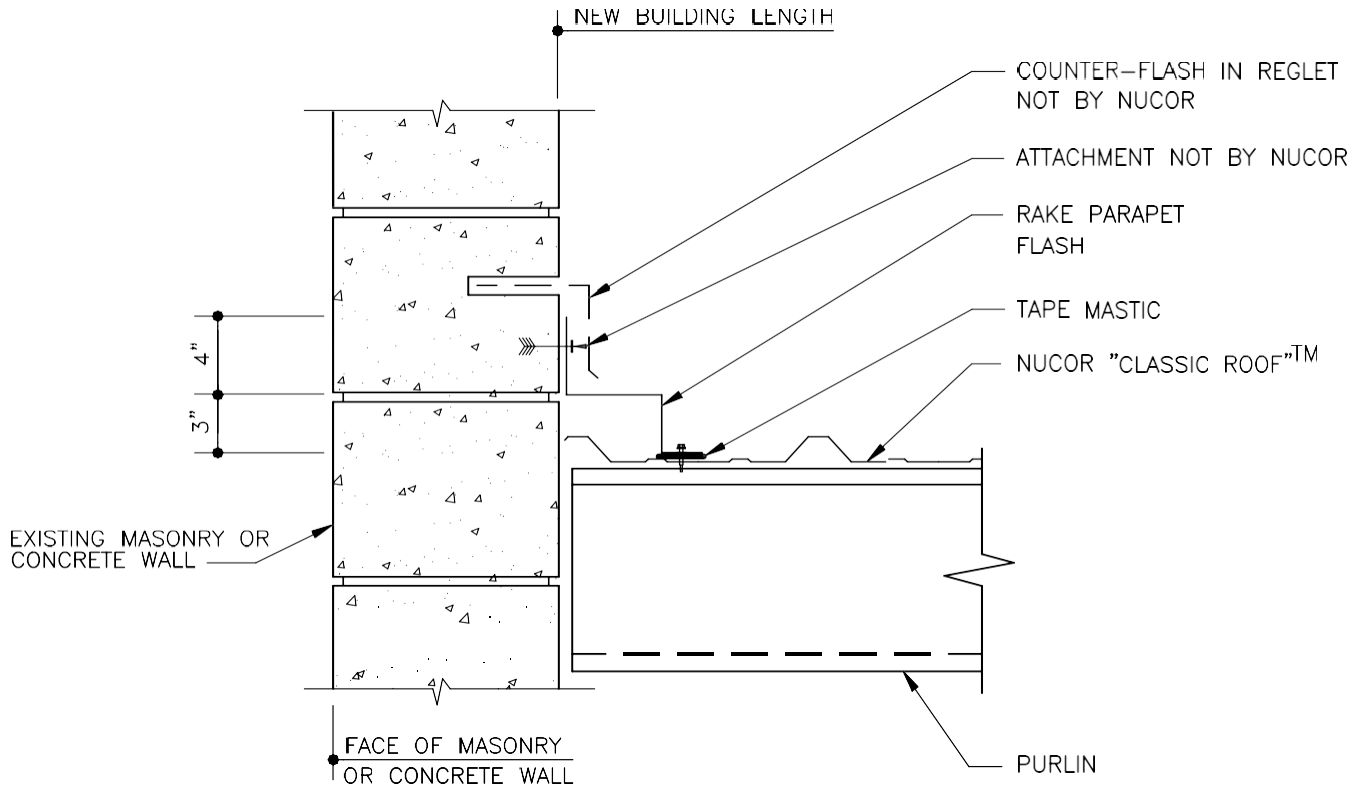
**BT0100PE – NUCOR CLASSIC ROOF™ PANEL RAKE PARAPET TO EXISTING BUILDING**

(3/32" x 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0 ABOVE THE LOWER BUILDING ROOF LINE.)



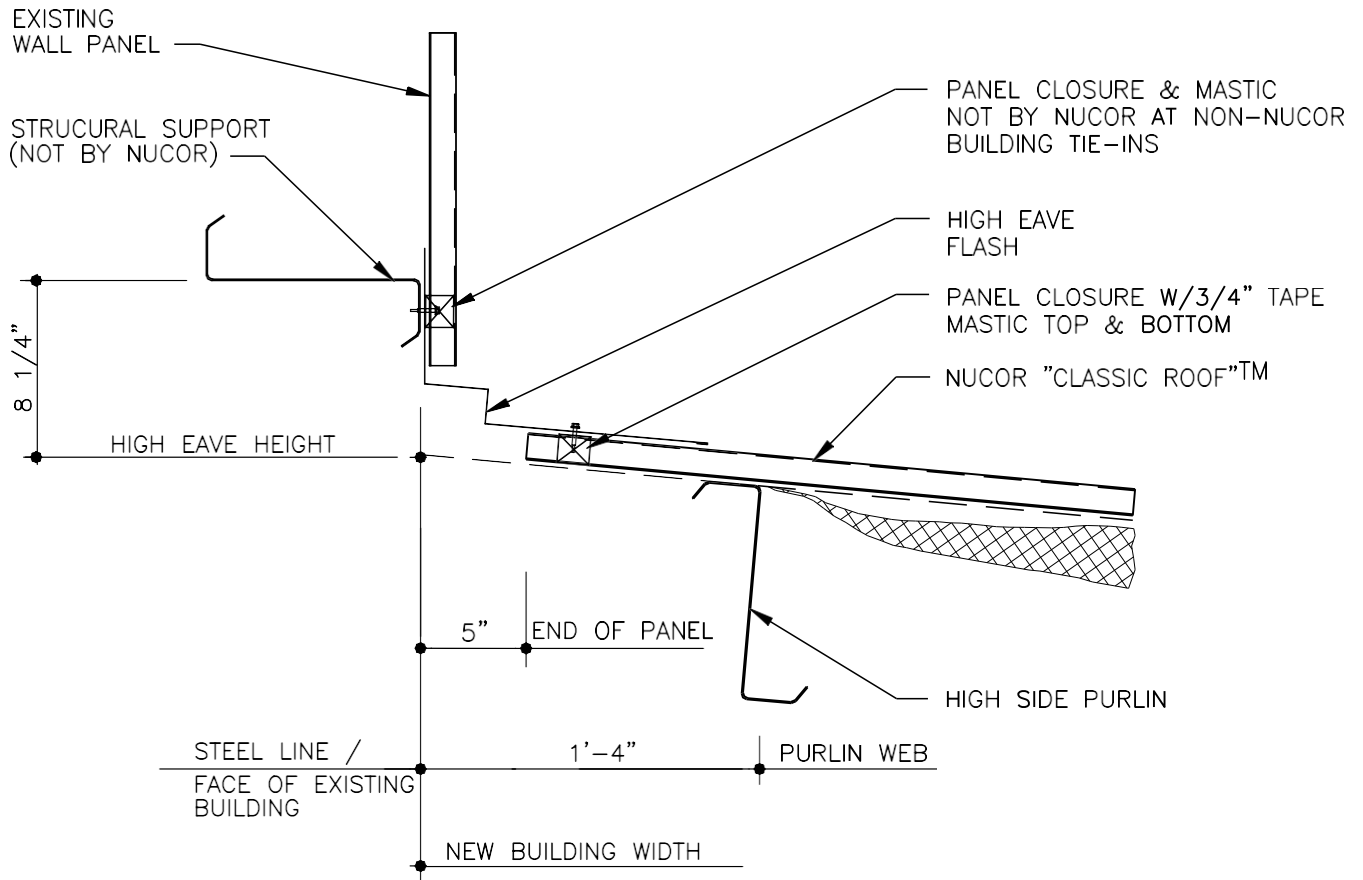


**BT0110PE – NUCOR CLASSIC ROOF™ PANEL RAKE PARAPET TO MASONRY OR CONCRETE**

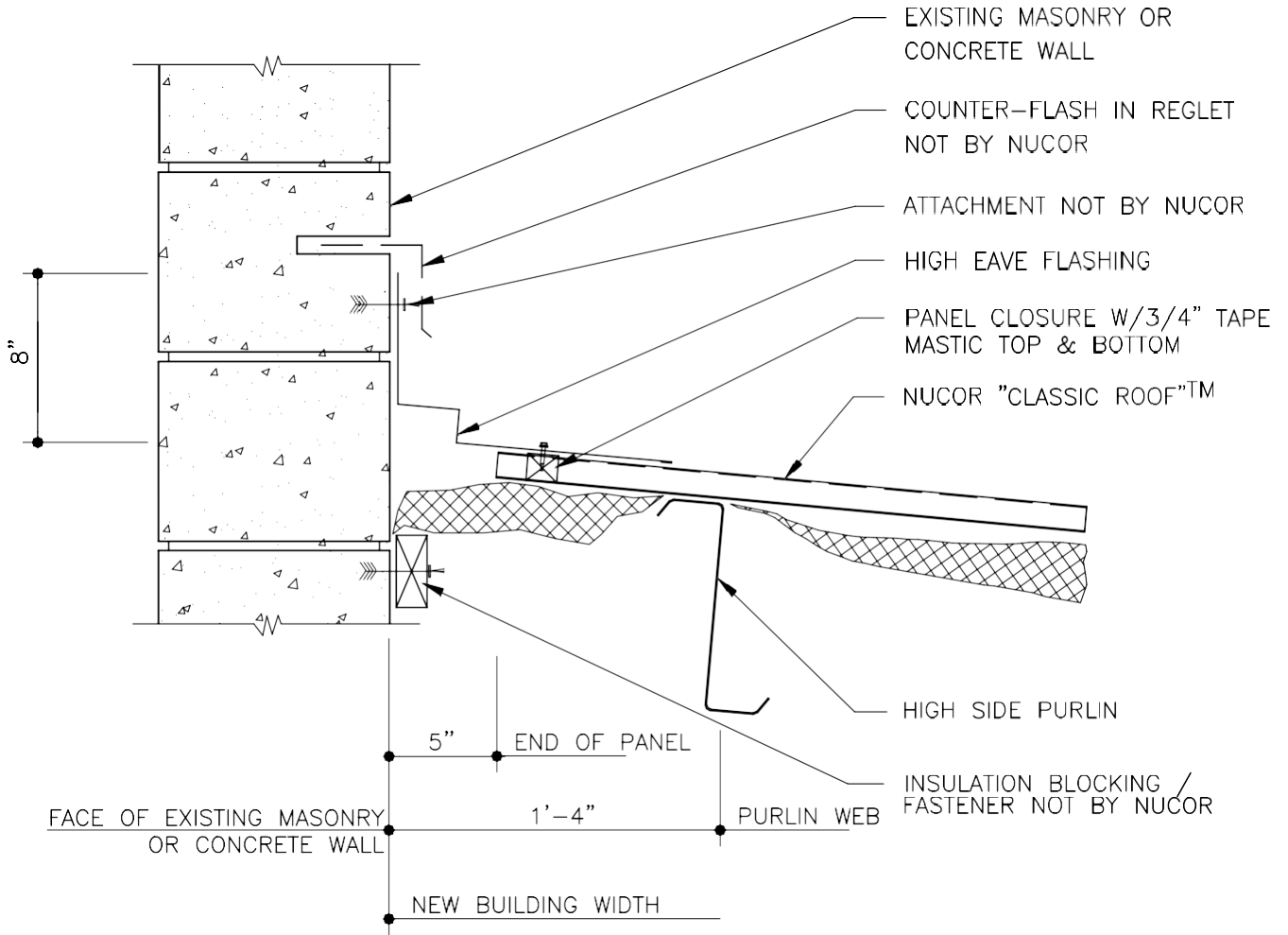


**BT0120PE – NUCOR CLASSIC ROOF™ PANEL HIGH EAVE PARAPET TO EXISTING BUILDING**

(3/32" x 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0" ABOVE THE LOWER BUILDING ROOF LINE.)



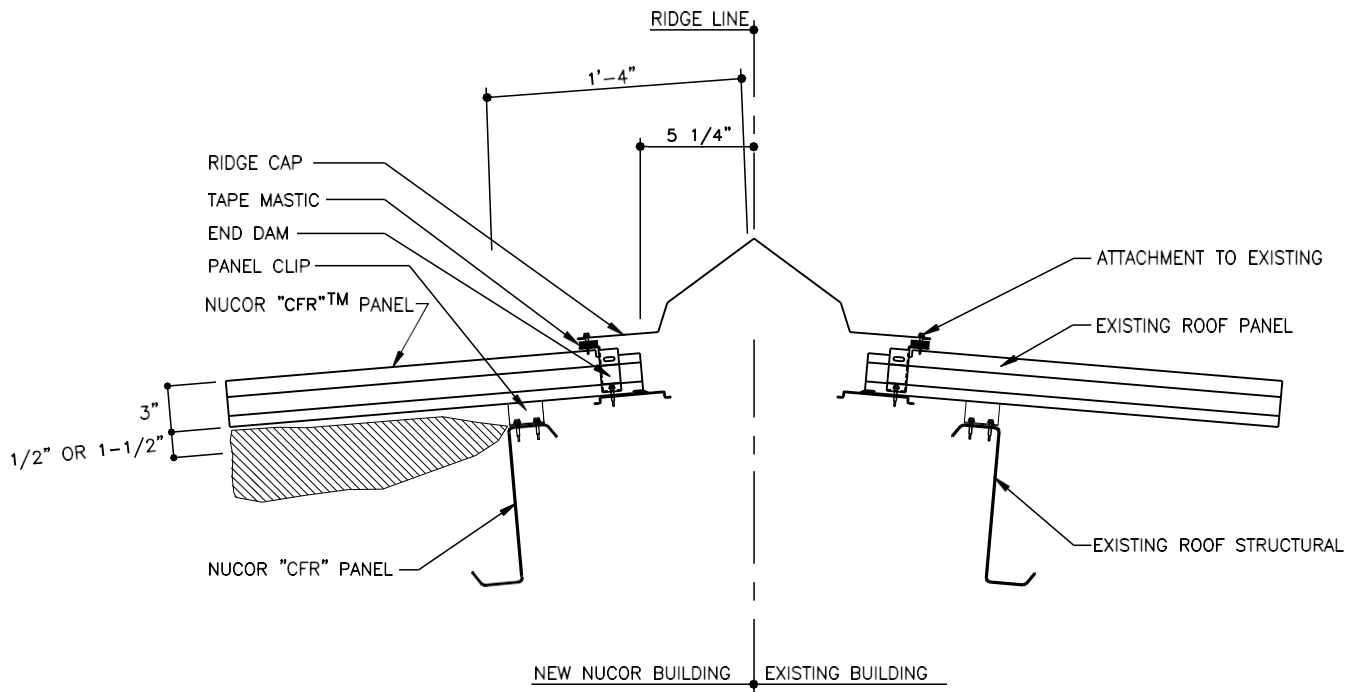
**BT0130PE – NUCOR CLASSIC ROOF™ PANEL RAKE PARAPET TO MASONRY OR CONCRETE**



**ROOF SHEETING: NUCOR CFR™ ROOF**

**BT0140PE – NUCOR CFR™ ROOF PANEL TO EXISTING BUILDING AT RIDGE**

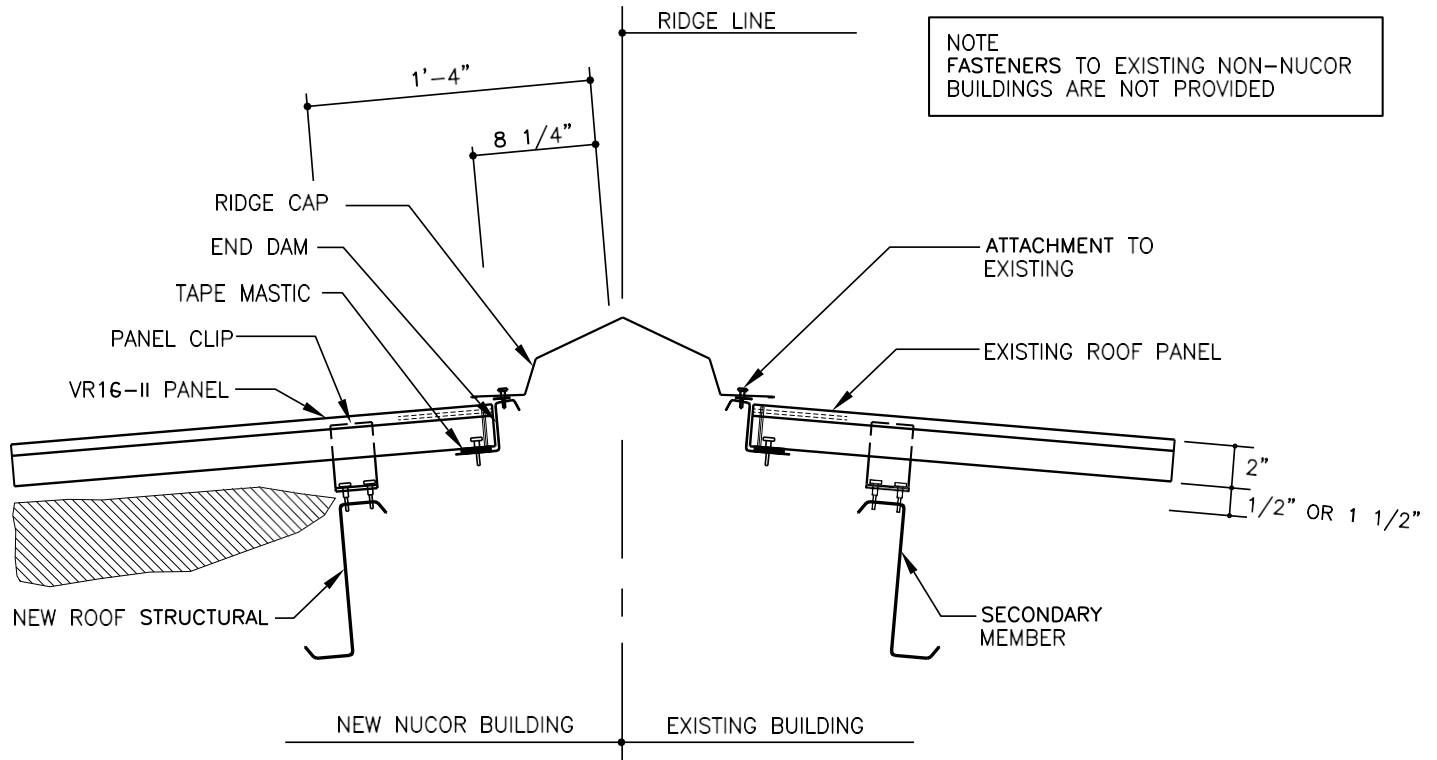
NOTE  
FASTENERS TO EXISTING NON-NUCOR  
BUILDINGS ARE NOT PROVIDED.



1. Refer to "Section 11.6" of the Product and Engineering Manual for all standard CFR Expansion Joint Details.

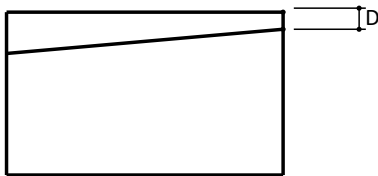
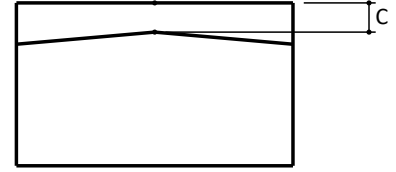
**ROOF SHEETING: NUCOR VR16-II™ ROOF**

**BT0145PE – NUCOR VR16-II™ ROOF PANEL TO EXISTING BUILDING AT RIDGE**



1. Refer to "Section 11.7" of the Product and Engineering Manual for all standard VR16-II Expansion Joint Details.

**BT0150PE – STANDARD DIMENSIONS FOR ROOF TIE-IN TO EXISTING BUILDINGS**



MINIMUM ROOF TIE-IN DIMENSIONS		
CONDITION	CLASSIC	CFR
A	1'-1"	1'-3"
B	1'-1"	1'-10"
C	10"	1'-6"
D	10"	10"
E	1'-1"	2'-3"