

BR04/AA, Wall Framing Elevation BR17/AA, Frame Brace, For Bypass Purlins/Girts BR17A/AA, Frame Brace, Inset BR17P/AA, Frame Brace. Flush BR60/AA, Single Angle Bracing Layout at Column Web BR60A/AA, Double Angle Bracing Layout at Column Web BR60B/AA, Single Angle Bracing Layout at Column Flange BR60BA/AA, Double Angle Bracing Layout at Column Flange BR61/AA, Bolt Angle Bracing to Top Gusset, Bolted Conneciton to Top Gusset at Column Web, Single or Double Angle Bracing BR61B/AA, Bolt Angle Bracing to Top Gusset, Bolted Connection to Top Gusset at Column Flange, Single or Double Angle Bracing BR62/AA, Single Angle Bracing Crossing, Typical Connection at Back to Back Single Brace Angle Crossing BR62A/AA, Double Angle Crossing, Typical Connection at Back to Back Double Brace Angle BR63/AA, Field Weld Angle Bracing at Column Base, Brace Angle to Bottom Gusset at Column Web - Field Weld Angles BR63B/AA, Field Weld Angle Bracing at Column Base, Brace Angle to Gusset Plate at Column Flange - Field Weld Angles BR79/AA, Typical Edge Zone Reinforcement, Typical Connection (Clip-Fastened Roof) BR79A/AA, Typical Corner Zone Reinforcement, Typical Connections BR79/BA, Typical Edge Zone Reinforcement, Typical Connections (Long Span III Roof) BR79B/AA, Typical Zone Reinforcement at Overhangs, (Clip Fastened Roofs) BR79B/BA, Typical Zone Reinforcement at Overhangs, (Long Span III Roofs) BR80/AA, Edge Zone or Corner Zone Eave Strut Connection, Roof Slope < 1:12 (Clip Fastened Roof) BR80A/AA, Edge Zone or Corner Zone Eave Strut Connection, Roof Slope < 1:12 (Clip Fastened Roof) BR80/BA, Edge Zone or Corner Zone Support Channel End Terminations, View of Inside Extension (Long Span III Roof) BR81/AA, Edge Zone or Corner Zone Purlin/Girt Connection BR81A/AA, Edge Zone or Corner Zone Inside Connections, Inside Extension is > 2'-6" (Clip Fastened Roofs) BR81A/BA, Edge Zone or Corner Zone Inside Connections, Inside Extensions is > 2'-6" (Long Span III Roofs) BR81/BA, Edge Zone Support Channel Intermediate Connections, Long Span III Roof BR81B/AA, Edge Zone or Corner Zone with Open Cee, Outside Extension or Overhang > 2'-6" (Clip Fastened Roofs) BR81W/AA, Edge Zone or Corner Zone with Gable Angle, Outside Extension is < 2'-6" (Clip Fastened Roofs) BR81W/BA, Edge Zone or Corner Zone with Gable Zee, Outside Extension (Long Span III Roof) BR81Y/AA, Edge Zone or Corner Zone Inside Connections, Inside Extension < 2'-6" BR89/AA, Girt Bracing Cross Section, 8", 9 1/2" and 12" Girts BS01/AA, Bypass Secondary Framing Connection, Bolt Requirements MF01/AA, ASTM A325/A325T Bolt Identification

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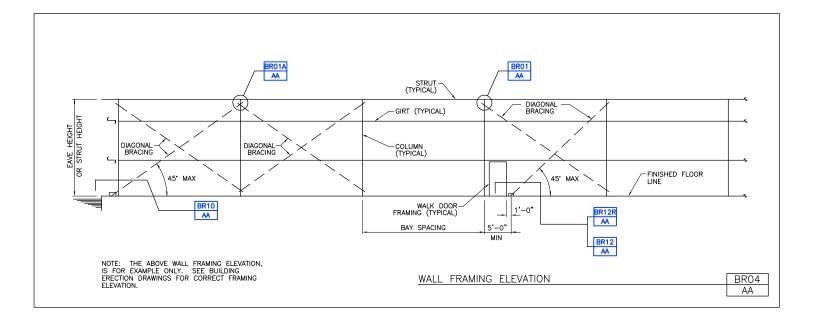
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OF06/AA, Jamb to Eave Strut Connection OF06A/AA, Jamb to Eave Strut Connection w/ Reinforcing Girt OF12/AA, Jamb Base Detail



Wall Framing Elevation

BR04/AA

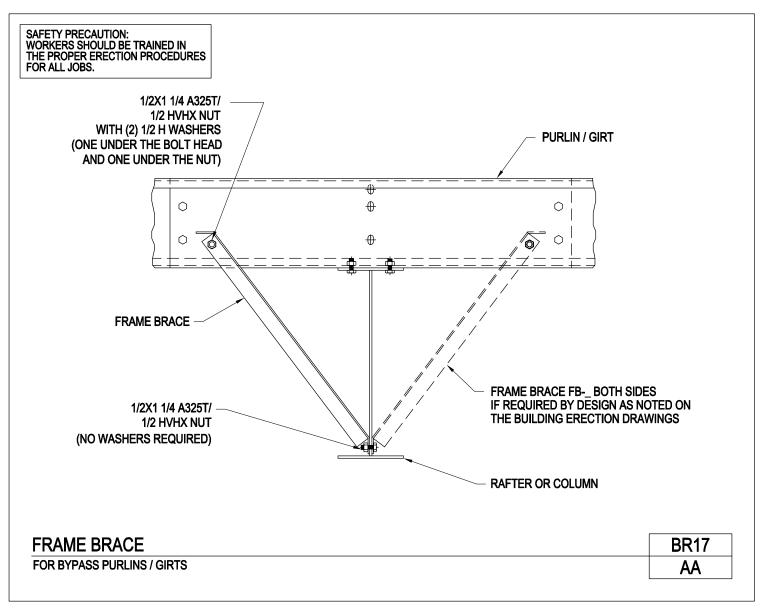


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A NUCOR COMPANY

Frame Brace For Bypass Purlins/Girts BR17/AA

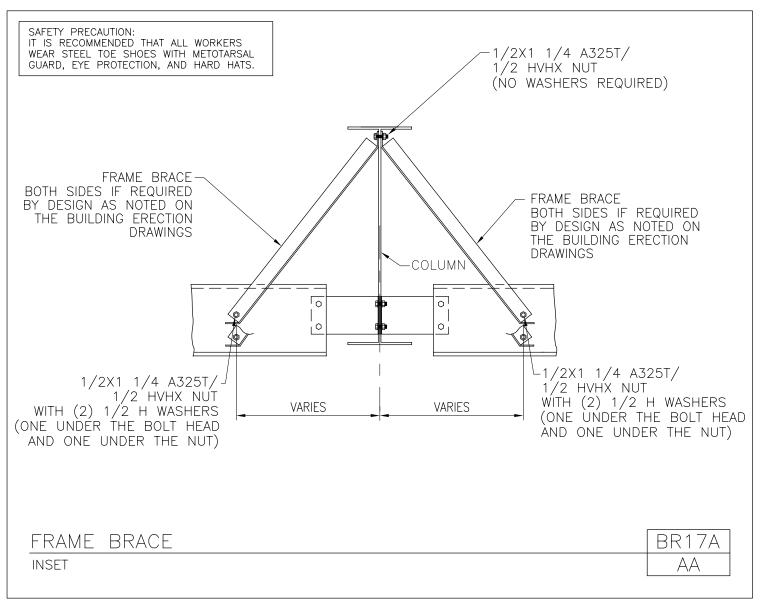


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Frame Brace Inset BR17A/AA

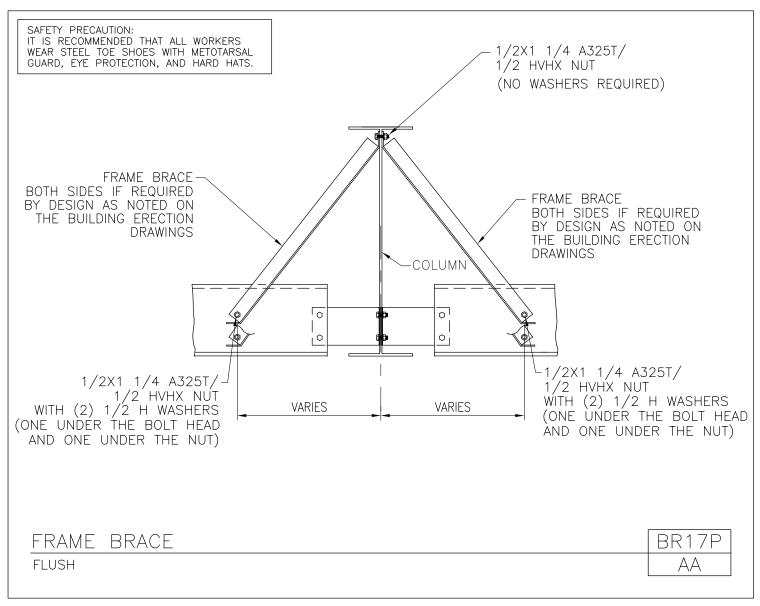


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Frame Brace Flush BR17P/AA

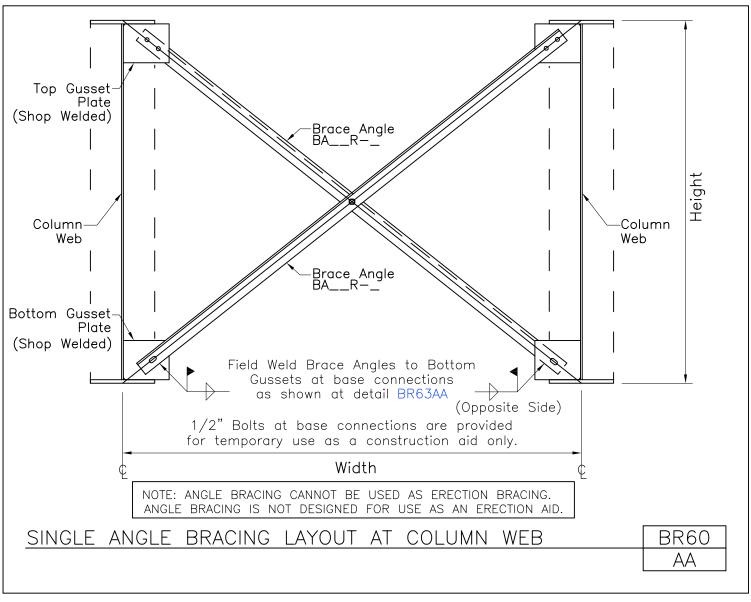


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Single Angle Bracing Layout at Column Web

BR60/AA

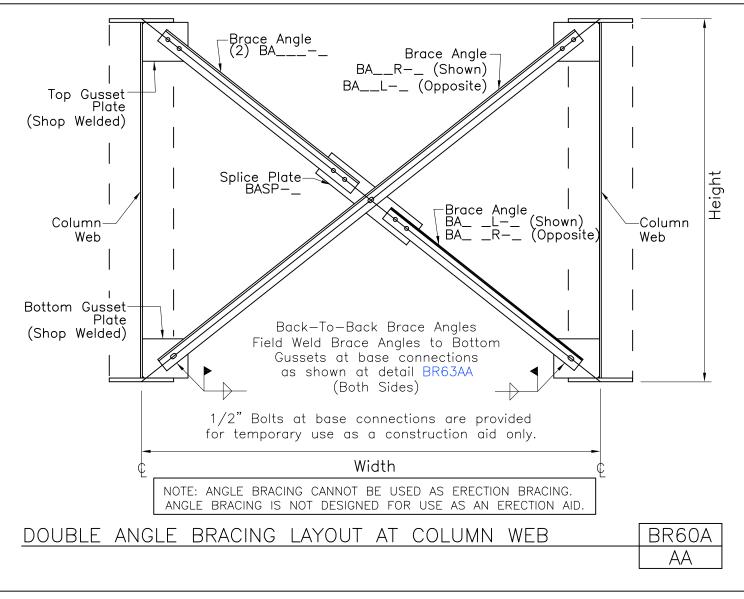


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Double Angle Bracing Layout at Column Web

BR60A/AA

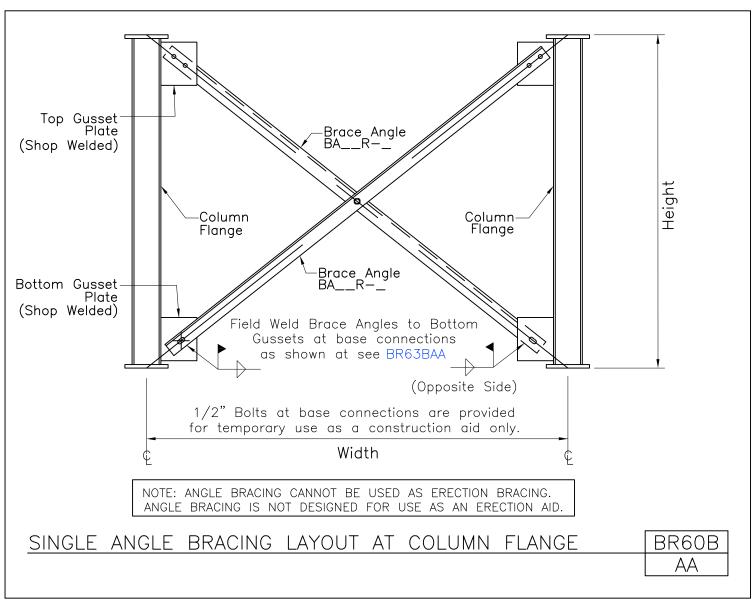


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Single Angle Bracing Layout at Column Flange

BR60B/AA

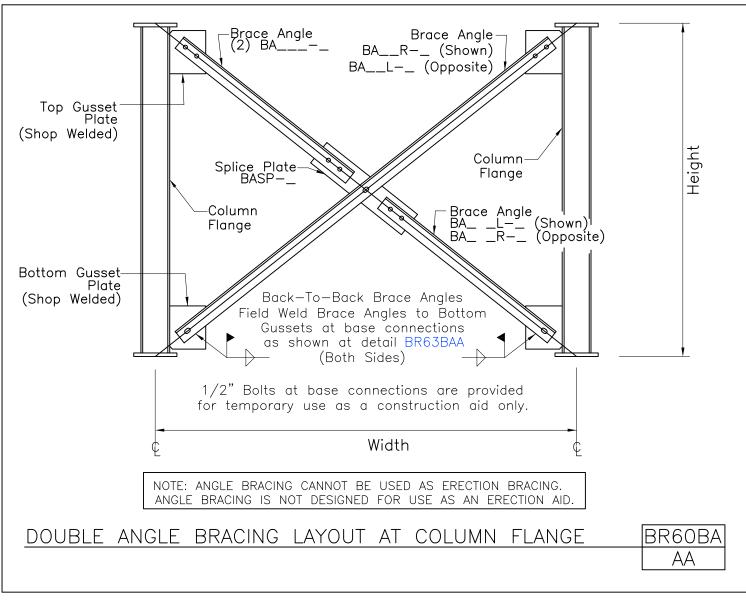


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Double Angle Bracing Layout at Column Flange

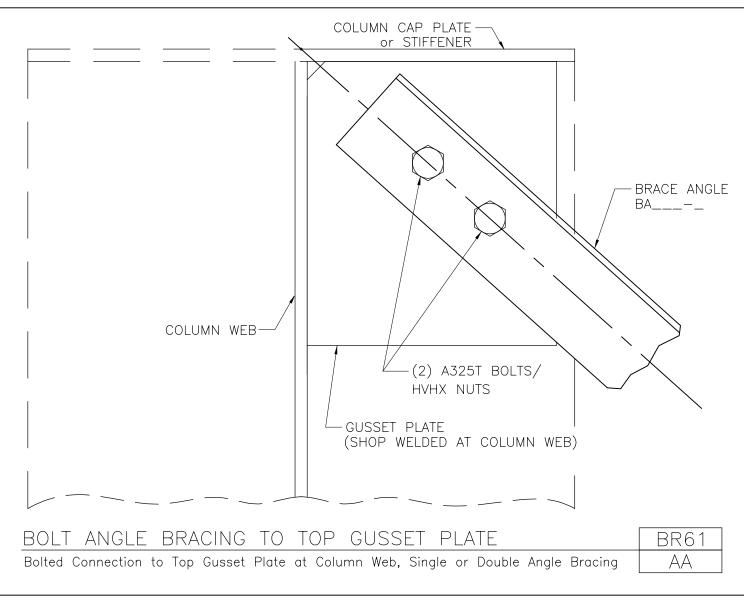
BR60BA/AA



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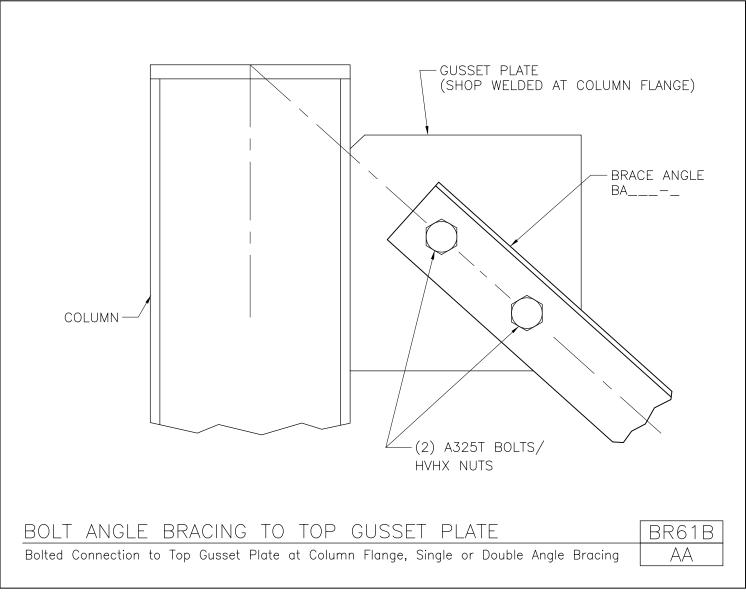
Bolt Angle Bracing to Top Gusset Plate Bolted Connection to Top Gusset Plate at Column Web, Single or Double Angle Bracing BR61/AA



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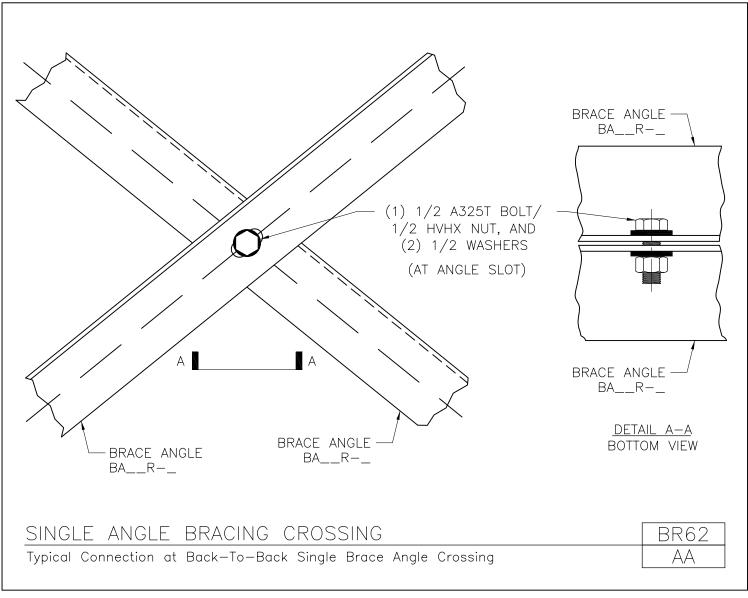
Bolt Angle Bracing to Top Gusset Plate Bolted Connection to Top Gusset Plate at Column Flange, Single or Double Angle Bracing BR61B/AA



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Single Angle Bracing Crossing Typical Connection at Back-to-Back Single Brace Angle Crossing BR62/AA

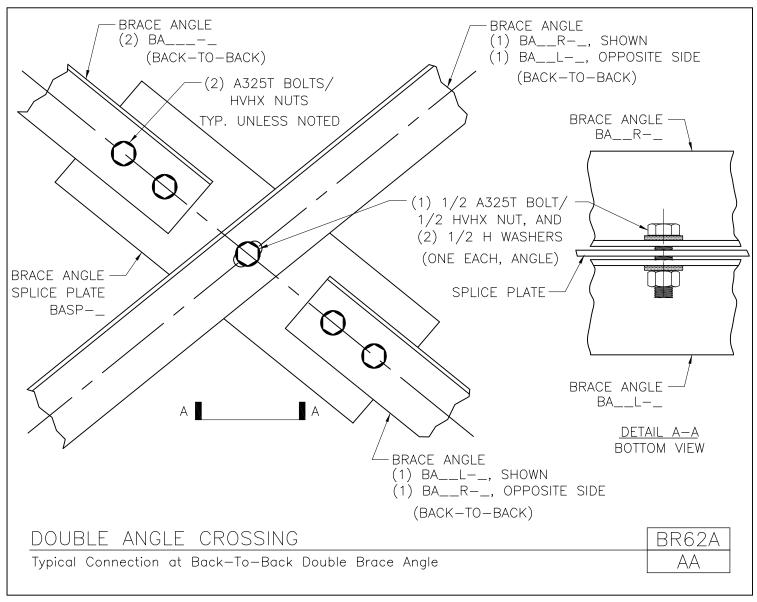


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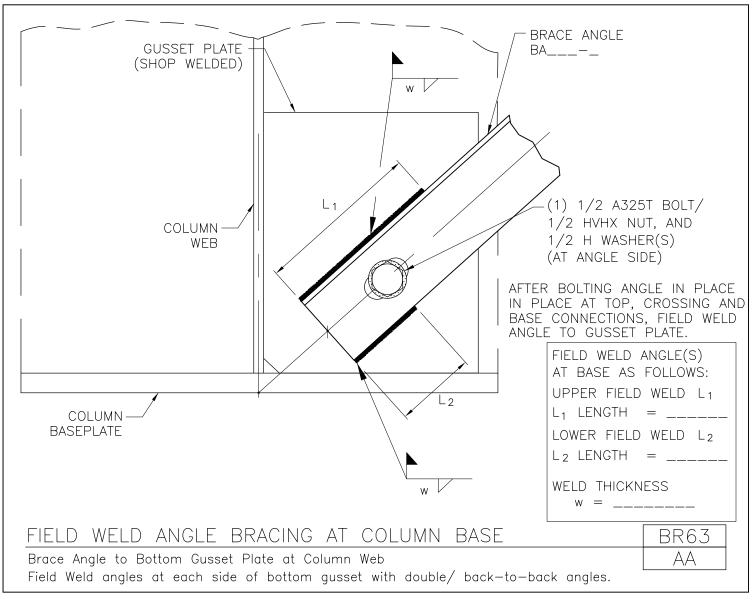


Double Angle Crossing Typical Connection at Back-to-Back Double Brace Angle BR62A/AA





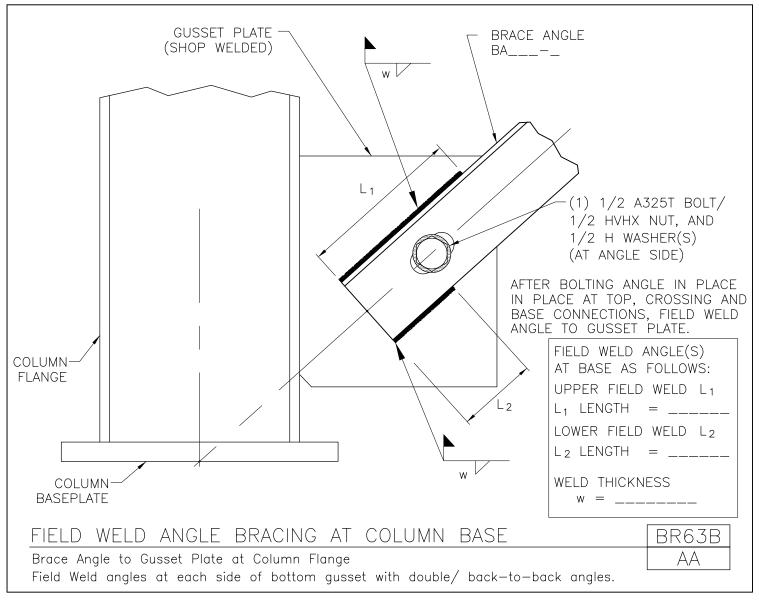
Field Weld Angle Bracing at Column Base Brace Angle to Bottom Gusset at Col. Web - Field Weld Angles BR63/AA



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Field Weld Angle Bracing at Column Base Brace Angle to Gusset Plate at Column Flange - Field Weld Angles BR63B/AA

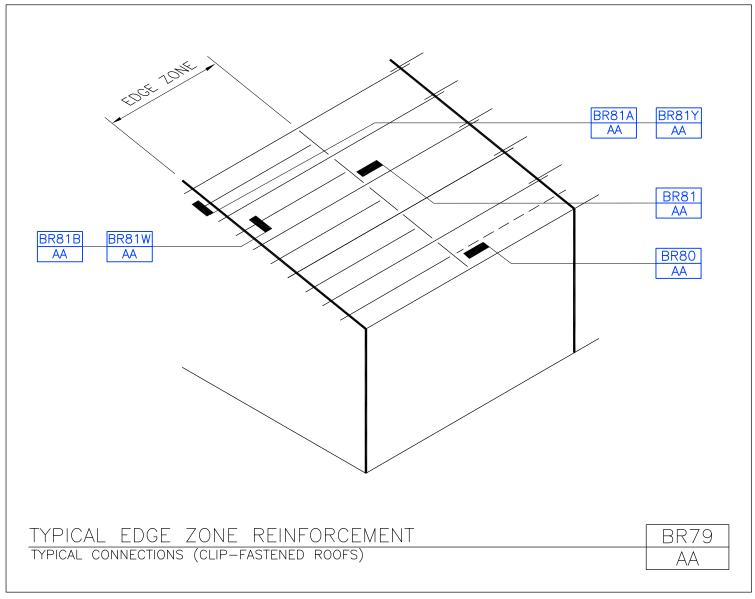


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Typical Edge Zone Reinforcement Typical Connection (Clip-Fastened Roof) BR79/AA

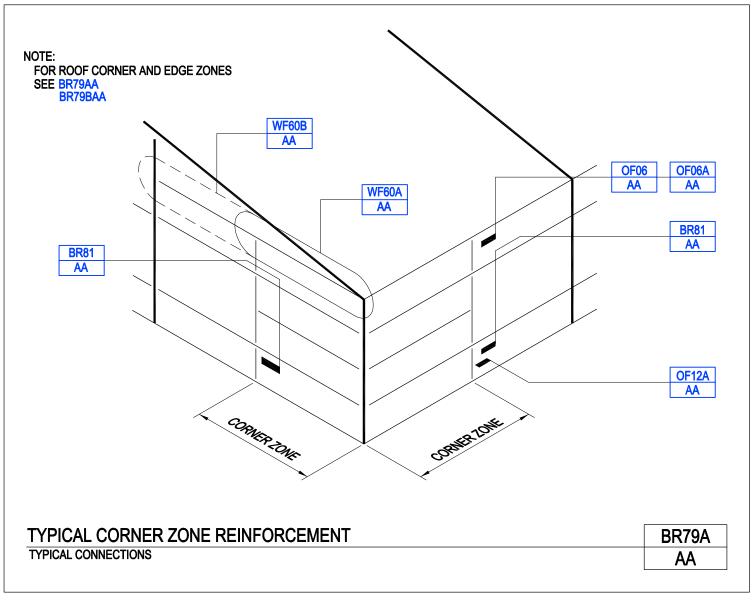


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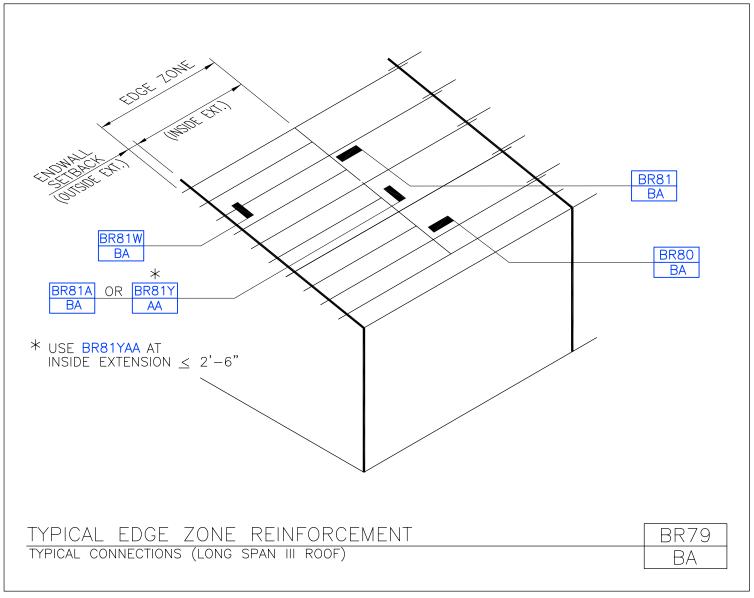
Typical Corner Zone Reinforcement Typical Connections BR79A/AA



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Typical Edge Zone Reinforcement Typcial Connections (Long Span III Roof) BR79/BA



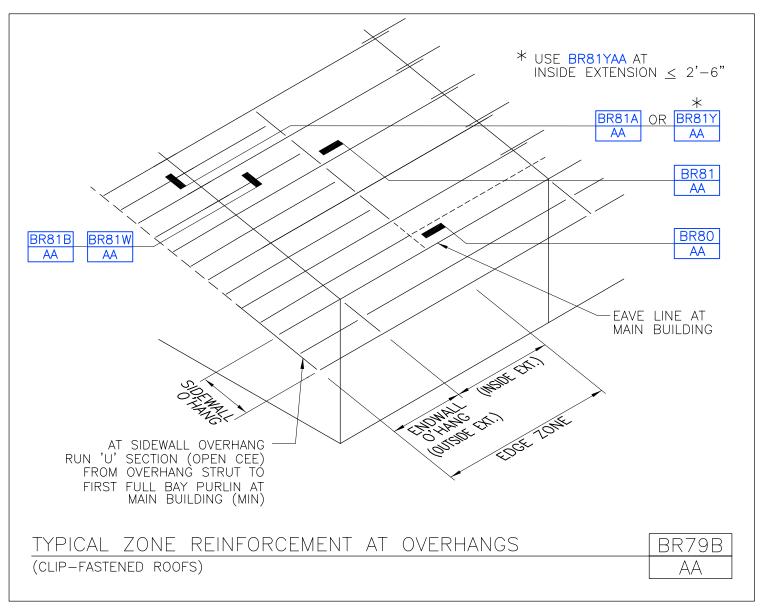
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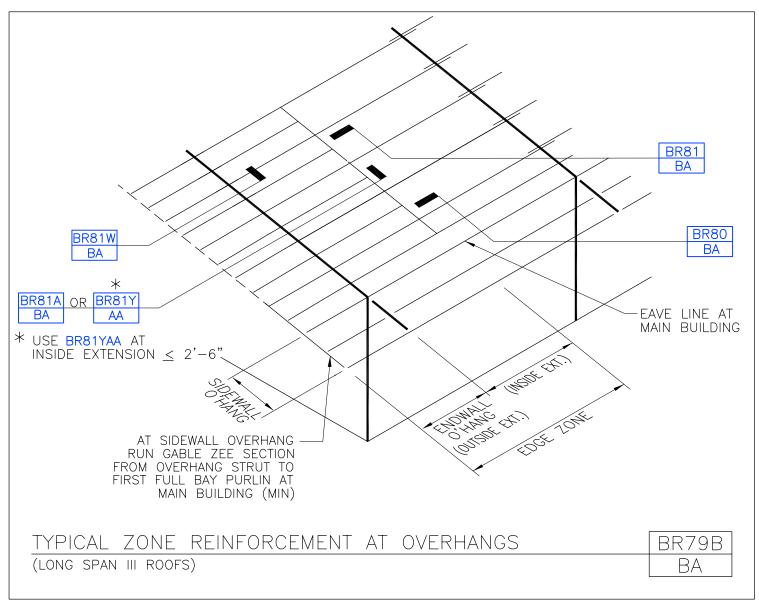
Typical Zone Reinforcement at Overhangs (Clip-Fastened Roofs) BR79B/AA



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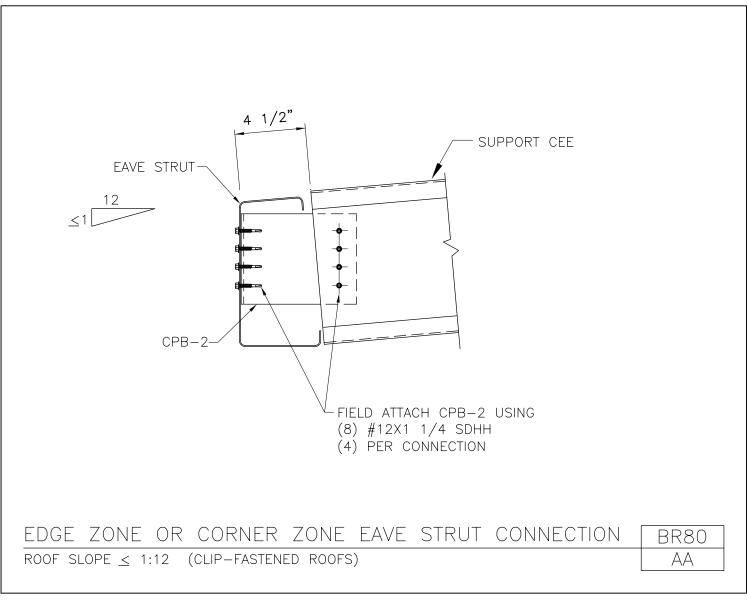
Typical Zone Reinforcement at Overhangs (Long Span III Roofs) BR79B/BA



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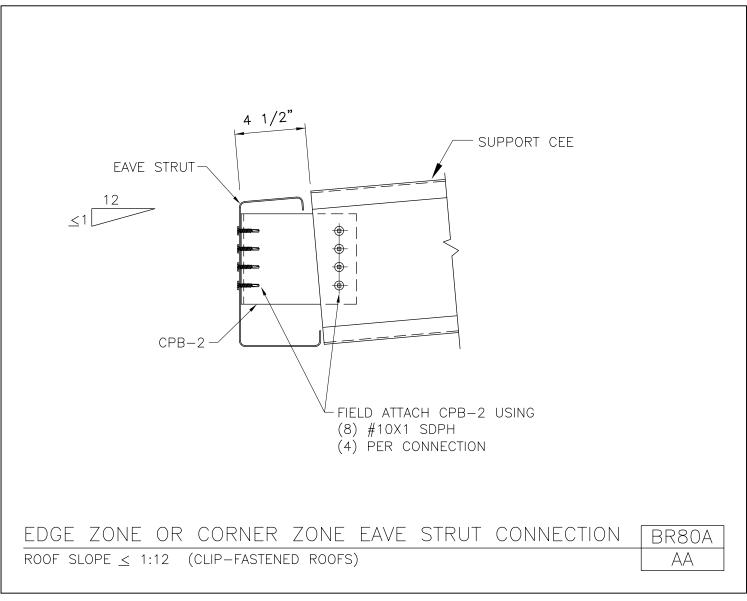
Edge Zone or Corner Zone Eave Strut Connection Roof Slope </= 1:12 (Clip-Fastened Roofs) BR80/AA



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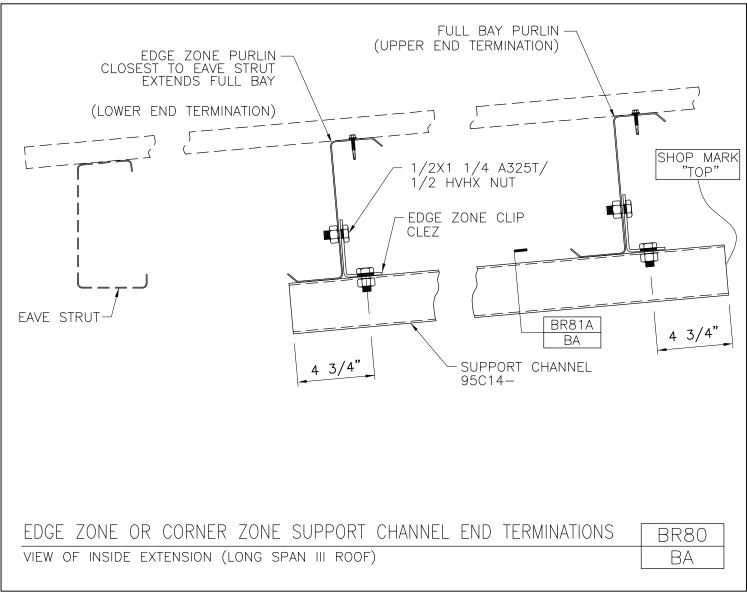
Edge Zone or Corner Zone Eave Strut Connection Roof Slope </= 1:12 (Clip Fastened Roofs) BR80A/AA



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Edge Zone or Corner Zone Support Channel End Terminations View of Inside Extension (Long Span III Roof) BR80/BA

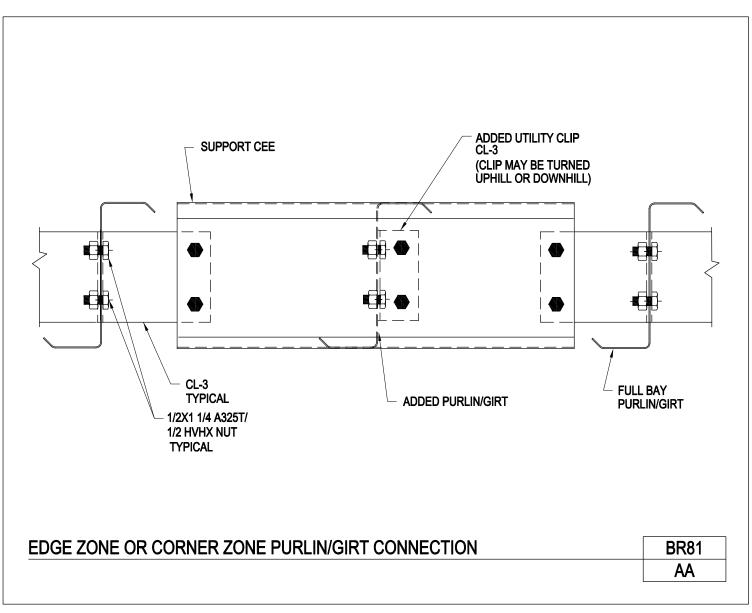


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Edge Zone or Corner Zone Purlin/Girt Connection

BR81/AA

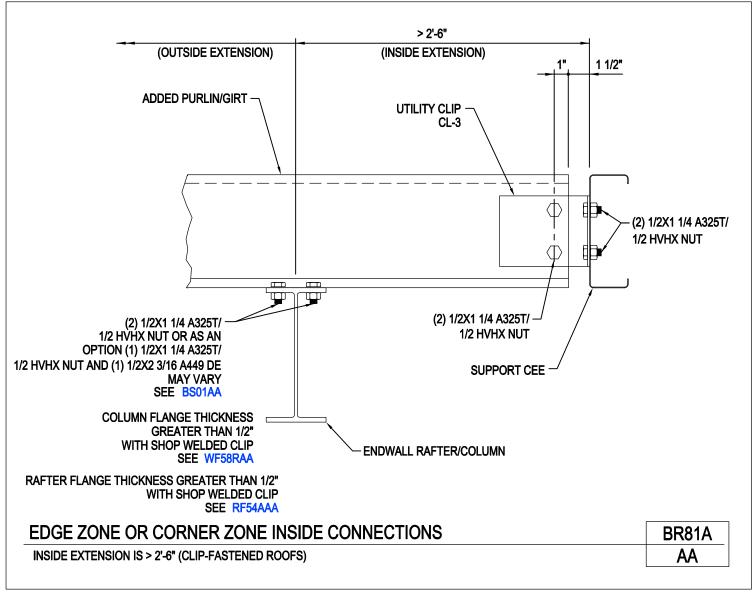


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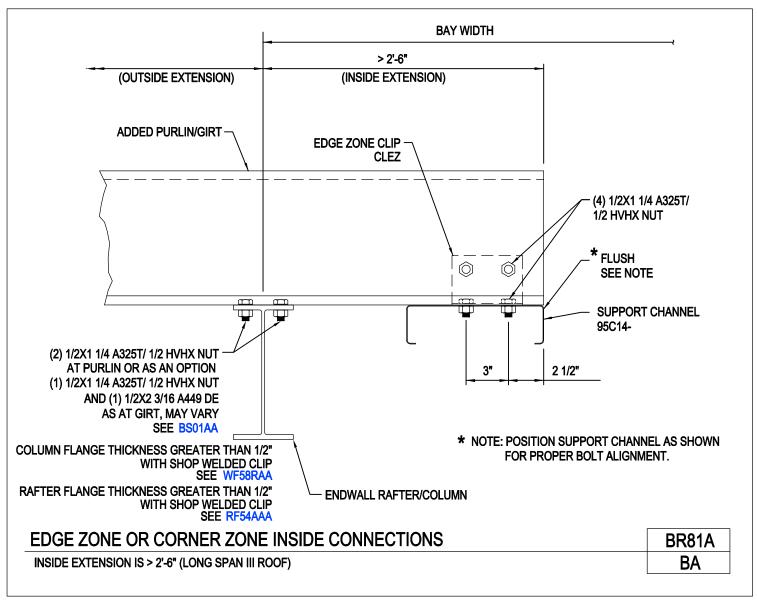
Edge Zone or Corner Zone Inside Connections Inside Extension is > 2'-6" (Clip-Fastened Roofs) BR81A/AA



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Edge Zone or Corner Zone Inside Connections Inside Extensions Is > 2'-6" (Long Span III Roofs) BR81A/BA



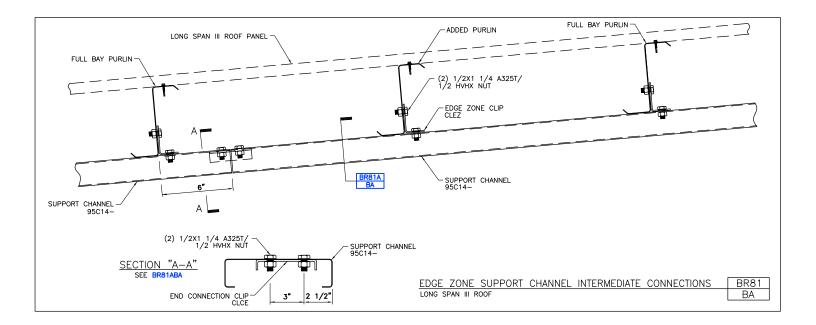
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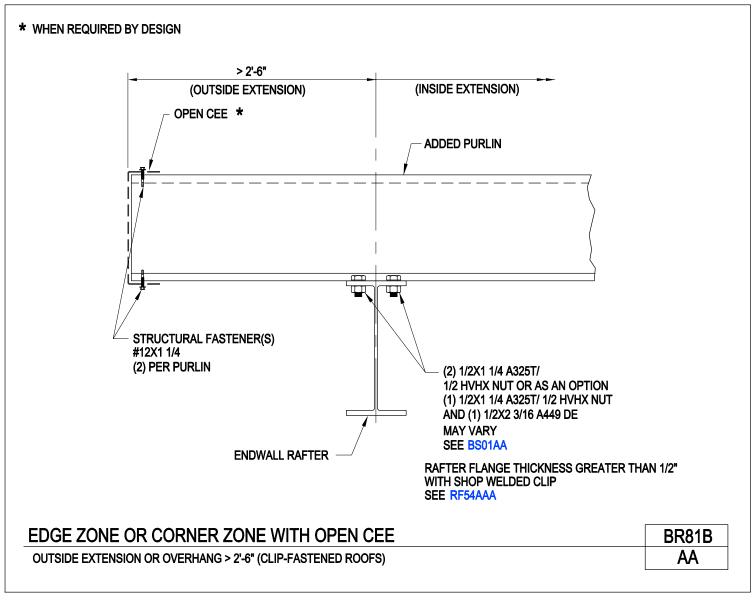
Edge Zone Support Channel Intermediate Connections Long Span III Roof BR81/BA



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Edge Zone or Corner Zone with Open Cee Outside Extension or Overhang > 2'-6" (Clip-Fastened Roofs) BR81B/AA



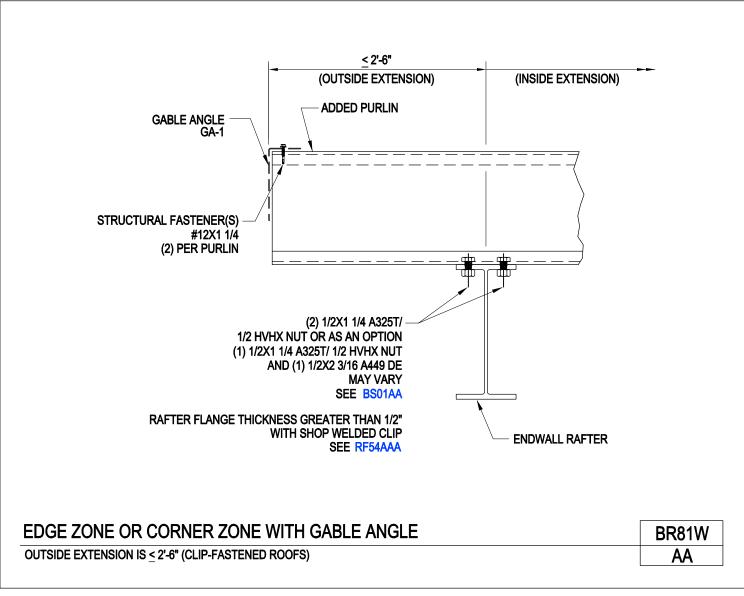
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Edge Zone or Corner Zone with Gable Angle Outside Extension is </= 2'-6" (Clip-Fastened Roofs) BR81W/AA

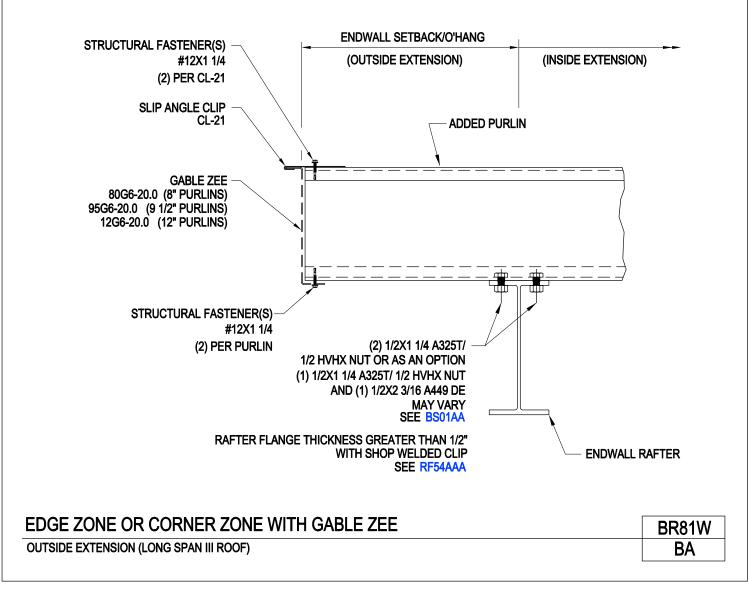


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Edge Zone or Corner Zone with Gable Zee Outside Extension (Long Span III Roof) BR81W/BA



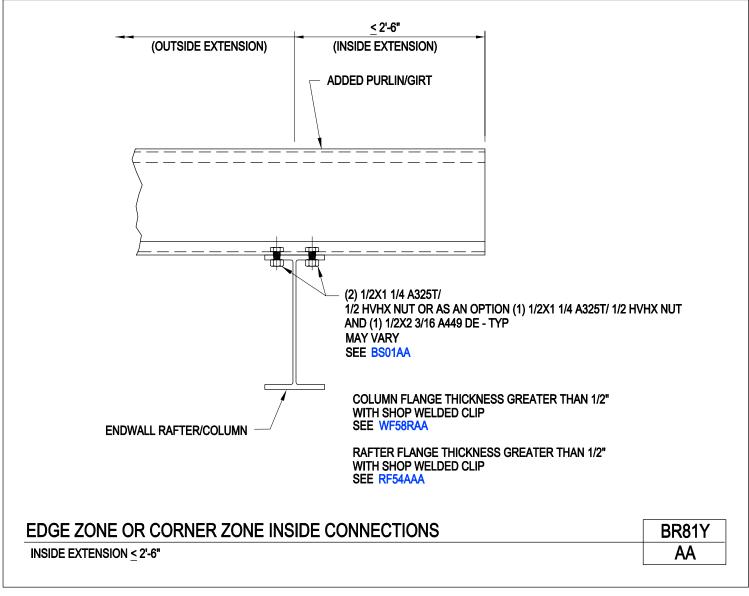
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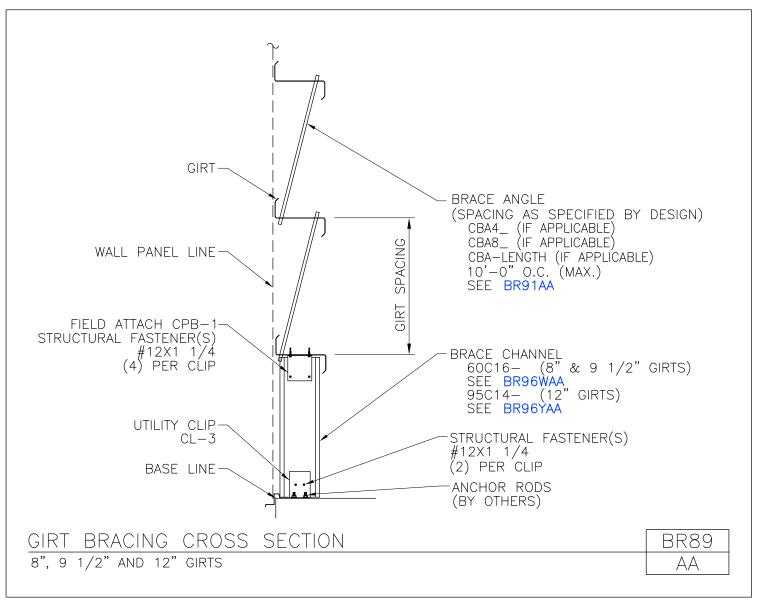
Edge Zone or Corner Zone Inside Connections Inside Extension </= 2'-6" BR81Y/AA



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Girt Bracing Cross Section 8", 9 1/2", and 12" Girts BR89/AA



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Bypass Secondary Framing Connection, Bolt Requirements

BS01/AA

RAFTER/COLUMN	SECONDARY	DOUBLE ENDED BOLT	1/2" A325T BOLT	1/2" A325T BOLT
FLANGE	MEMBER	1/2" X 2 3/16" A449 (NUTS INCLUDED)	REQUIRED FOR	REQUIRED FOR
THICKNESS	GAUGE	REQUIRED AT GIRTS		NON LAPPED MEMBERS
		OPTIONAL AT PURLINS	(REQUIRES 1/2 HVHX NUT)	(REQUIRES 1/2 HVHX NUT)
< 3/8"	11 - 16	1/2X2 3/16 A449 DE	1/2X1 1/4 A325T	1/2X1 1/4 A325T
3/8"	16	1/2X2 3/16 A449 DE	1/2X1 1/4 A325T	1/2X1 1/4 A325T
	15	1/2X2 3/16 A449 DE	1/2X1 1/4 A325T	1/2X1 1/4 A325T
	14	1/2X2 3/16 A449 DE	1/2X1 1/4 A325T	1/2X1 1/4 A325T
	13	1/2X2 3/16 A449 DE	1/2X1 1/4 A325T	1/2X1 1/4 A325T
	12	1/2X2 3/16 A449 DE	1/2X2 A325T	1/2X1 1/4 A325T
	11	1/2X2 3/16 A449 DE	1/2X2 A325T	1/2X1 1/4 A325T
1/2"	16	1/2X2 3/16 A449 DE	1/2X2 A325T	1/2X1 1/4 A325T
	15	1/2X2 3/16 A449 DE	1/2X2 A325T	1/2X2 A325T
	14	1/2X2 3/16 A449 DE	1/2X2 A325T	1/2X2 A325T
	13	1/2X2 3/16 A449 DE	1/2X2 A325T	1/2X2 A325T
	12	1/2X2 3/16 A449 DE	1/2X2 A325T	1/2X2 A325T

THE FOLLOWING FLANGE THICKNESS CONNECTIONS REQUIRE THE USE OF SHOP WELDED CLIPS. (SEE CONNECTION DETAILS.)

RAFTER/COLUMN FLANGE THICKNESS	SECONDARY MEMBER GAUGE	BUTTON HEAD BOLT <u>AT WALL ZEE GIRTS ONLY</u> 1/2" BUTTON HEAD BOLT (NUT INCLUDED) FIRST GIRT TO SHOP WELDED CLIP (UP THROUGH 1ST GIRT AND SHOP WELDED CLIP)	1/2" A325T BOLT REQUIRED FOR LAPPED AND NON LAPPED MEMBERS (REQUIRES 1/2 HVHX NUT)
1/2"	11	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
> 1/2"	16	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	15	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	14	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	13	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	12	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	11	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325

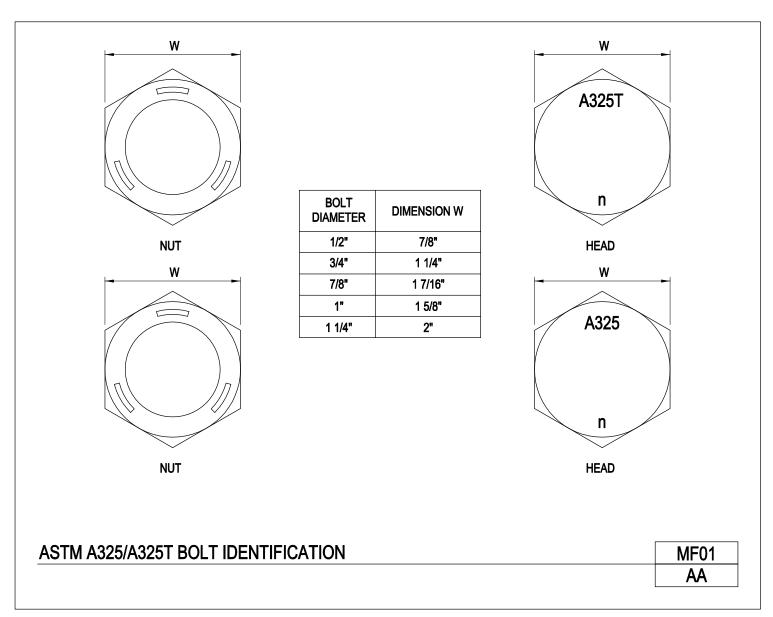
BS01	
AA	

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ASTM A325/A325T Bolt Identification

MF01/AA

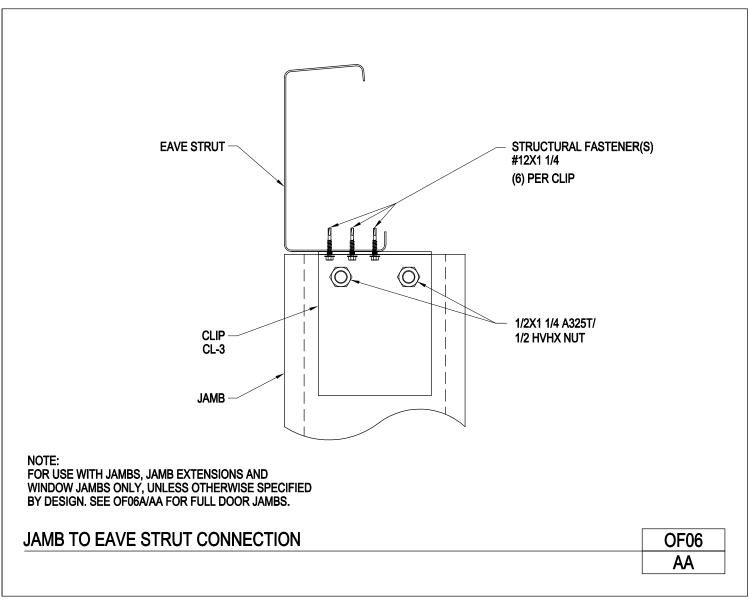


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Jamb to Eave Strut Connection

OF06/AA

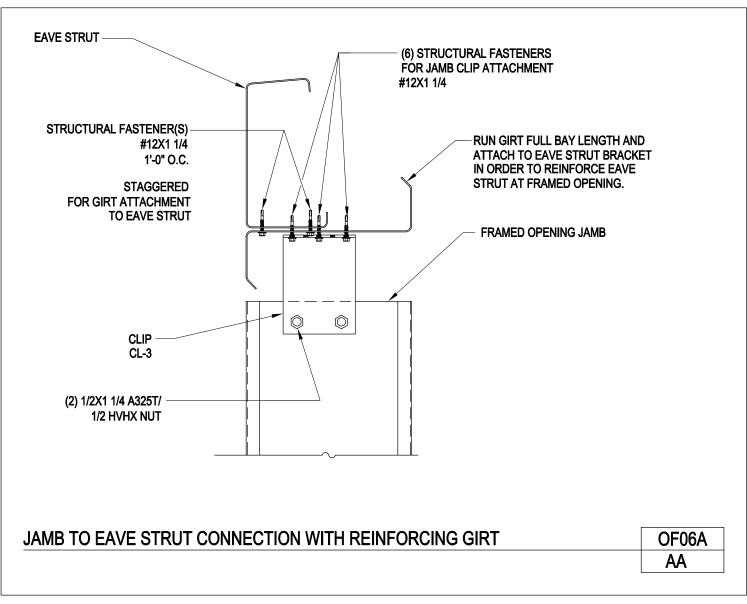


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Jamb to Eave Strut Connection with Reinforcing Girt

OF06A/AA



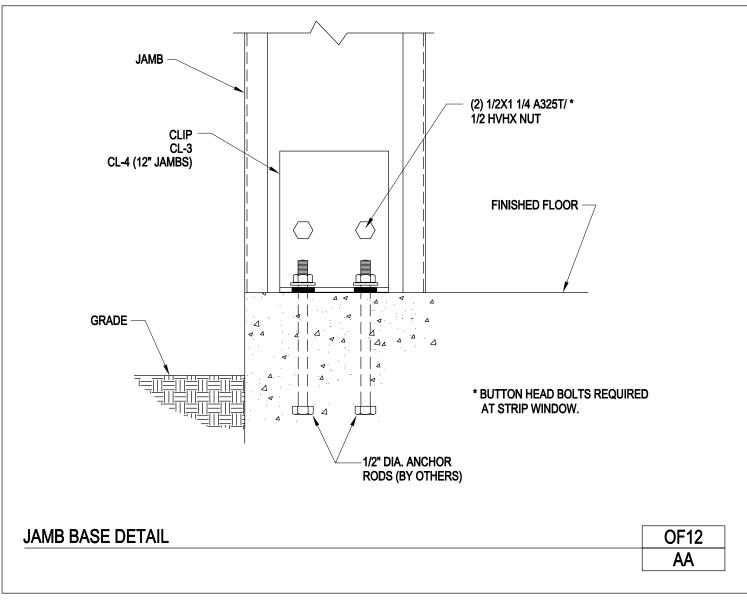
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Jamb Base Detail

OF12/AA



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