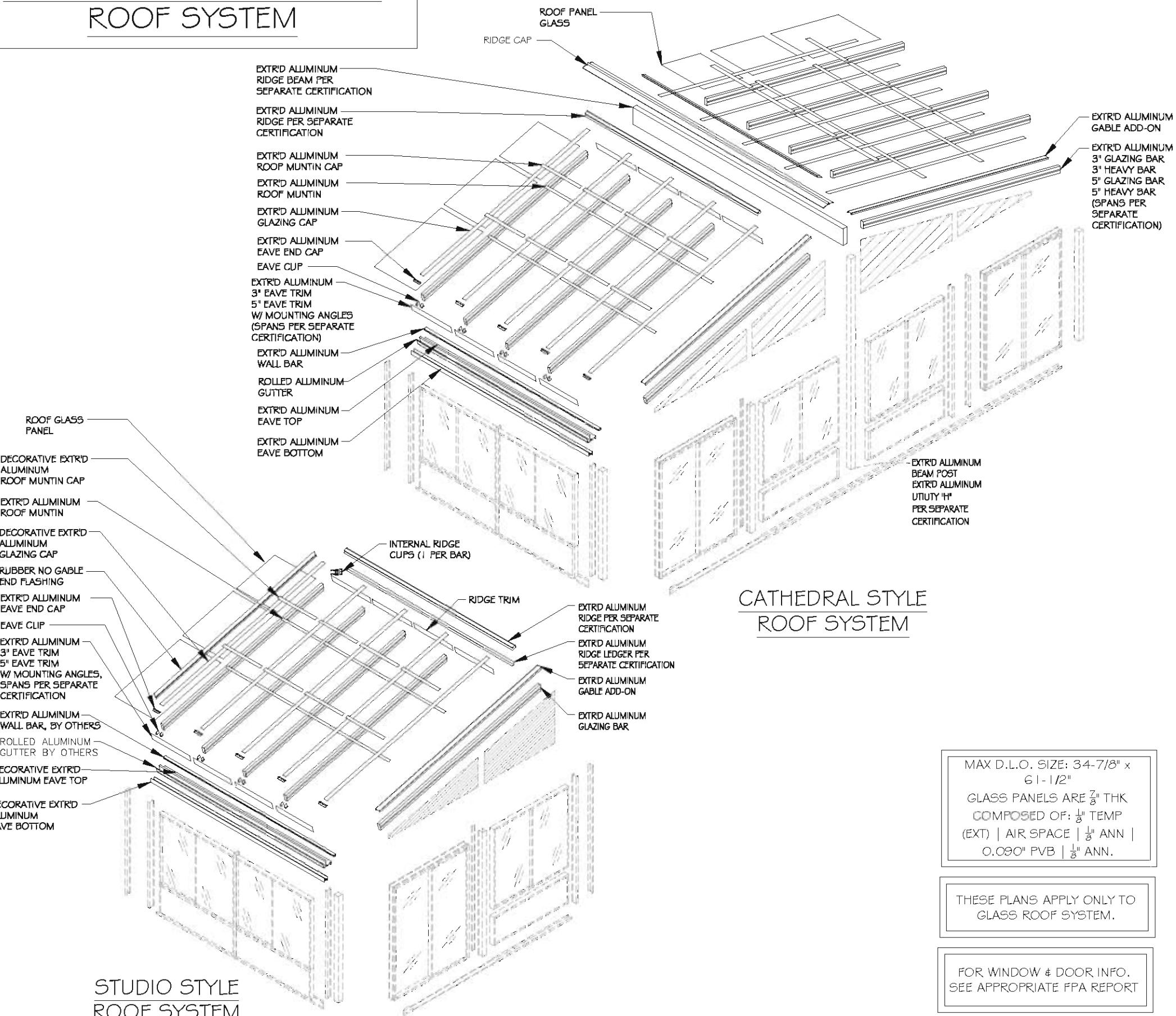


SERIES 230 SUN & STARS ROOF SYSTEM



MAX D.L.O. SIZE: 34-7/8" x 61-1/2"
GLASS PANELS ARE $\frac{7}{8}$ " THK
COMPOSED OF: $\frac{1}{8}$ " TEMP (EXT) | AIR SPACE | $\frac{1}{8}$ " ANN | 0.090" PVB | $\frac{1}{8}$ " ANN.

THESE PLANS APPLY ONLY TO
GLASS ROOF SYSTEM.

FOR WINDOW & DOOR INFO.
SEE APPROPRIATE FPA REPORT

MAXIMUM ALLOWABLE DESIGN PRESSURES:

+70 PSF / -70 PSF ASD

DESIGN NOTES:

POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

GENERAL NOTES:

1. THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) FOR USE WITHIN AND OUTSIDE THE HVHZ. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
3. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
4. SEPARATE 'SITE-SPECIFIC' SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN. CONTACT THIS ENGINEER FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. THE CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF, INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA. THIS ADDITIONAL ROOF LOAD CRITERIA SHALL BE PROPERLY ANALYZED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
7. THE CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
8. ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
9. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
10. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

SYSTEM PERFORMANCE DERIVATIONS:

1. SYSTEM PERFORMANCE DERIVED FROM CERTIFIED TEST REPORTS Nos. ETC-08-1014-21317.0 AND ETC-08-1014-21649.0 BY ETC LABORATORIES.

VISIT ECALC.IO/29440

FOR SITE SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE

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FLORIDA BUILDING CODE
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REMARKS	DRWN	CHKD	DATE
INIT ISSUE 2020 FBC	JAC	FLB	08/17/17
	CCB	RVN	7/26/20

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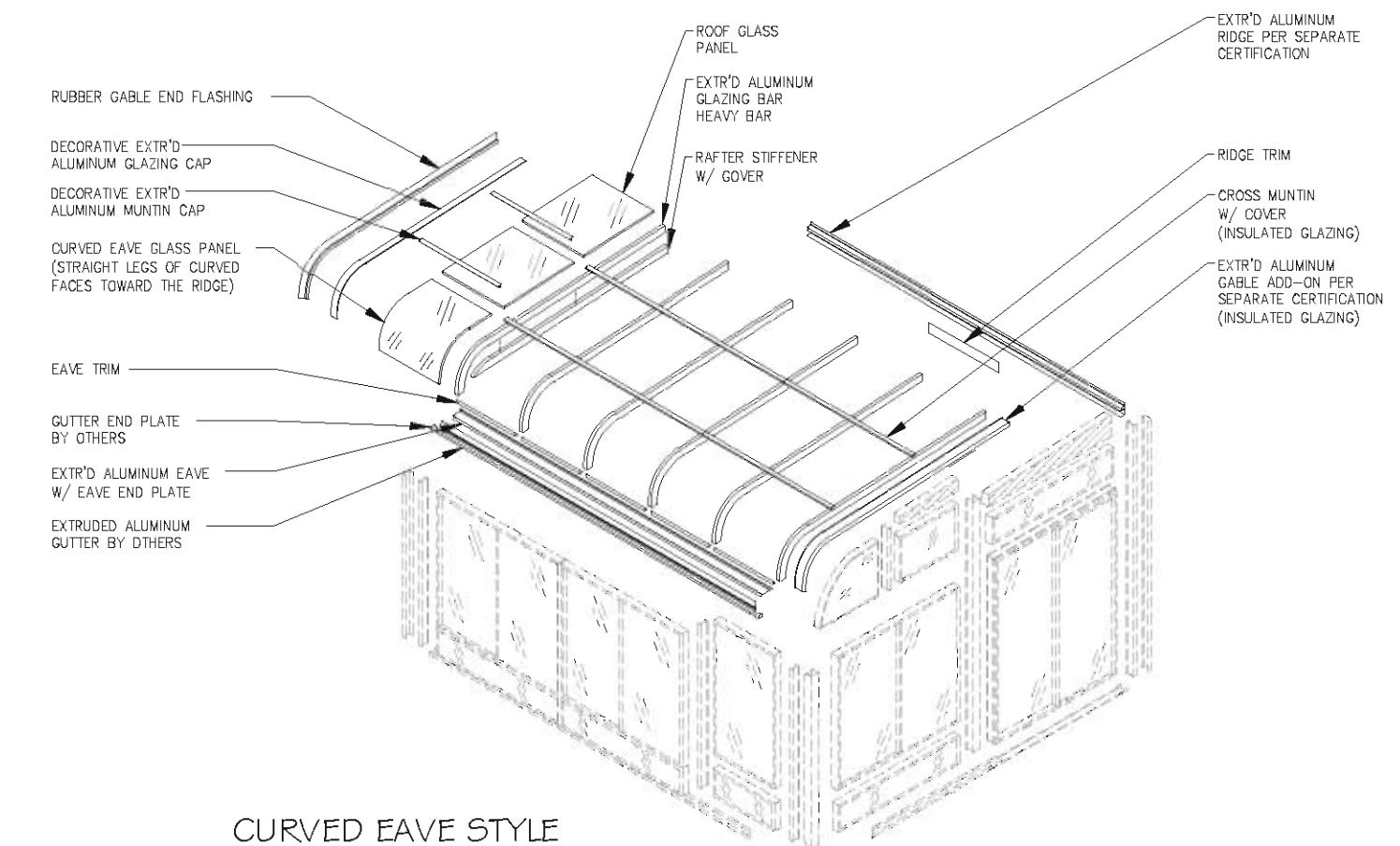
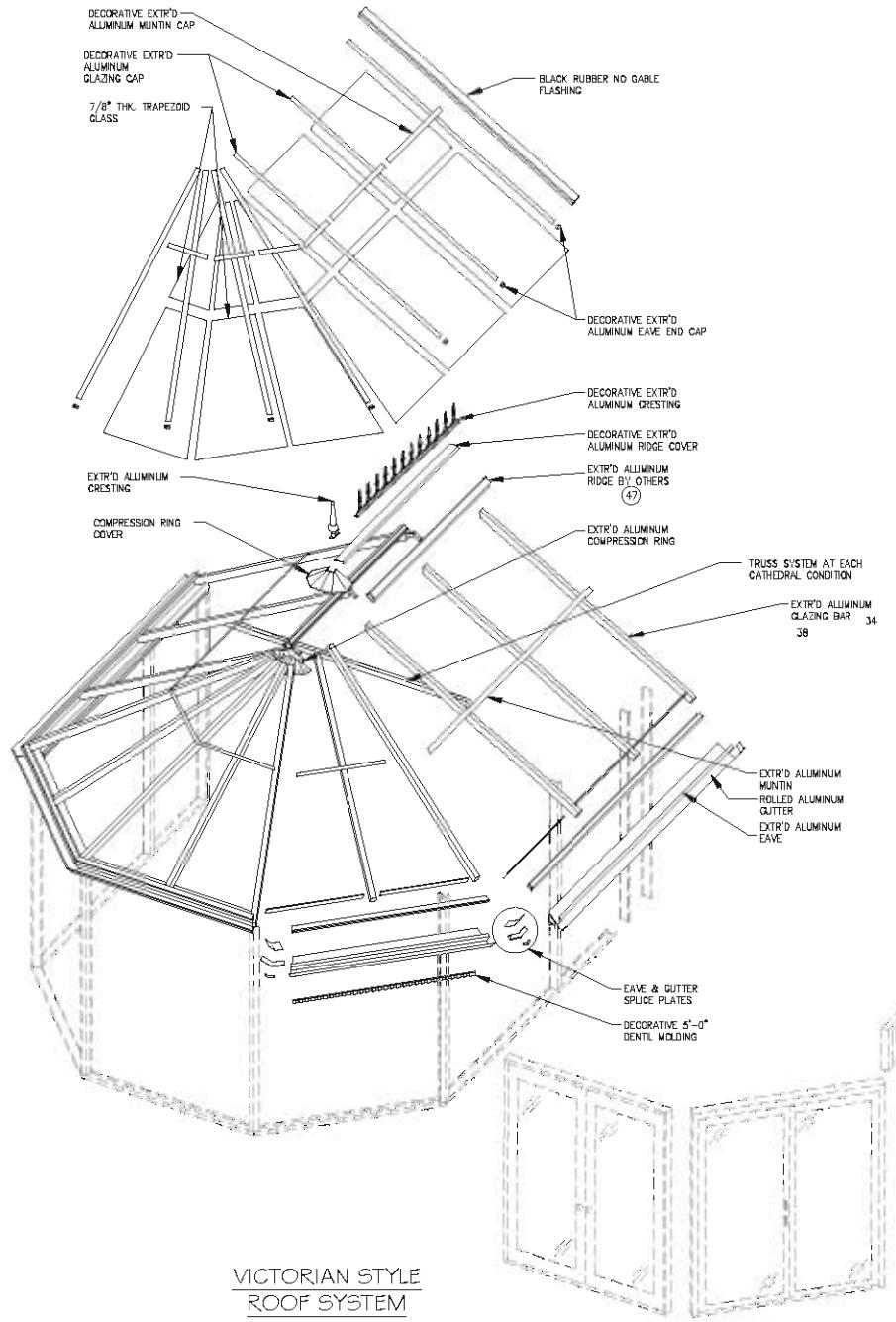
SCALE: N.T.S.

OF
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1

SERIES 230 SUN & STARS ROOF SYSTEM



THESE PLANS APPLY ONLY TO
GLASS ROOF SYSTEM.

FOR WINDOW & DOOR INFO.
SEE APPROPRIATE FPA REPORT

FOUR SEASONS SOLAR PRODUCTS LLC
5005 VETERANS MEMORIAL HWY
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2020 FBC JAC FLB
CCB RWN 7/26/20
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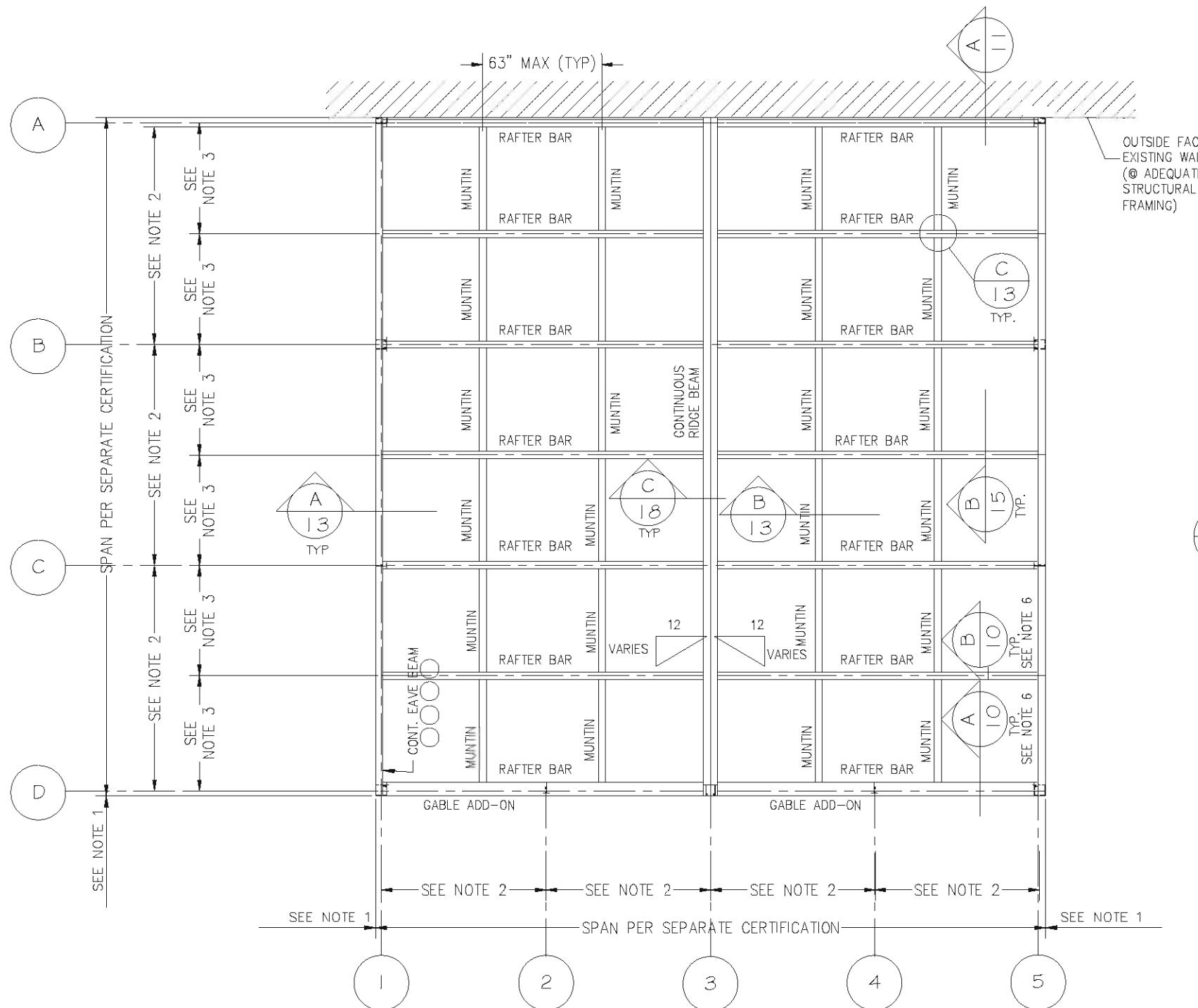
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FRANK BENNARDO, PE
PE# 0046549 CAF# 9885
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/05/2020

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FOR USE IN HVHZ SEE
INFO ON SHEETS 19 & 20

FOR WINDOW & DOOR INFO.
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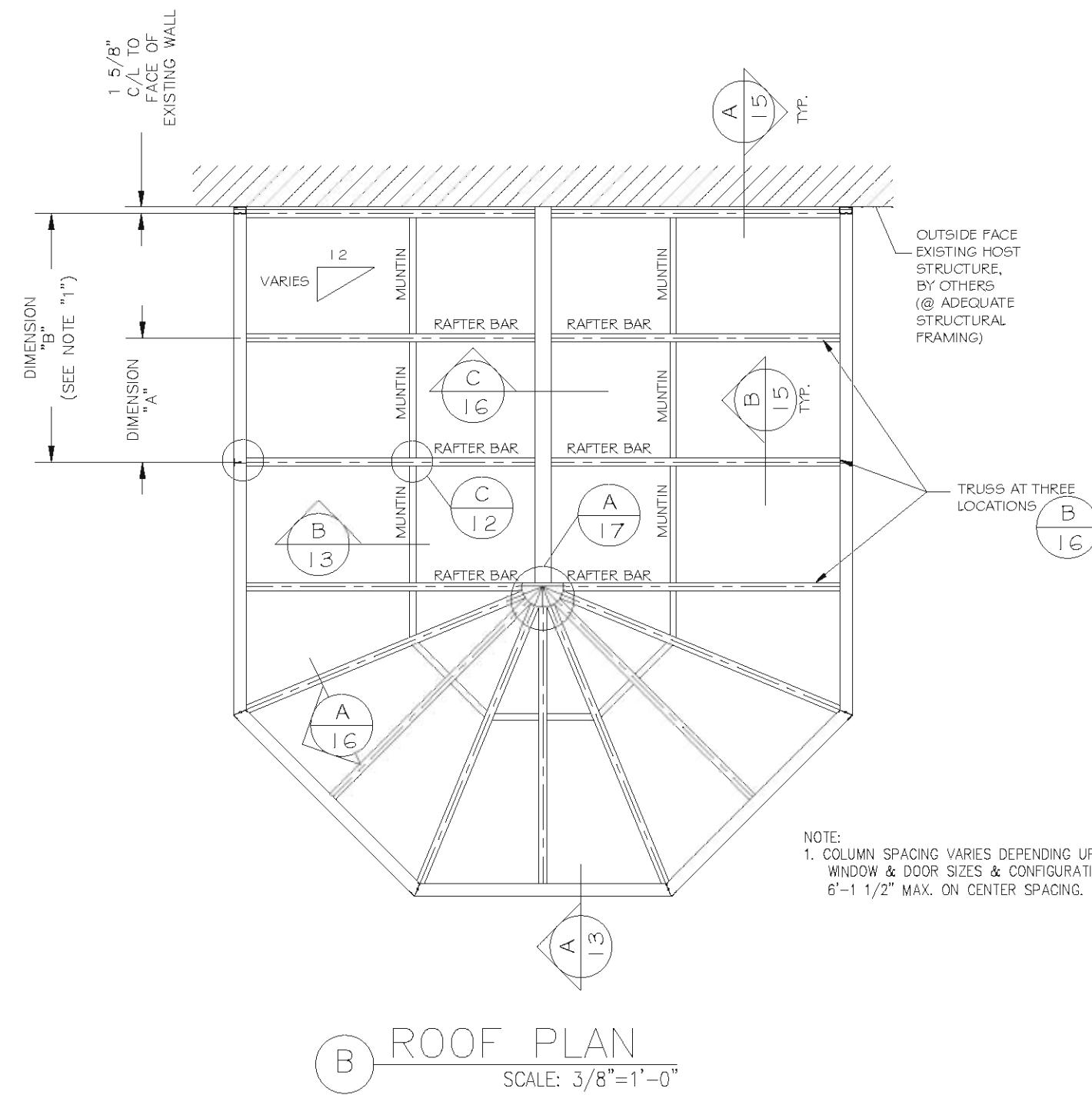
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SERIES 230 SUN AND STARS ROOF SYSTEM
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A circular Florida Professional Engineer license stamp. The outer ring contains the text "FLORIDA PROFESSIONAL ENGINEER" at the top and "NO. PED0045549" at the bottom. The center of the stamp contains "FRANK L. BENNARDO" above "LICENSE" and "STATE OF FLORIDA" below it.



SERIES 230 SUN & STARS VICTORIAN
ROOF MODEL CONFIGURATION

MODEL #	DIMENSION "A" RAFTER BAR O.C. SPACING	DIMENSION "B" WALL "H" POST SPACING
C4**13***	30 5/8"	61 1/4"
C4**15***	36 5/8"	73 1/4"

NOTE:
1. COLUMN SPACING VARIES DEPENDING UPON
WINDOW & DOOR SIZES & CONFIGURATION.
6'-1 1/2" MAX. ON CENTER SPACING.

THESE PLANS APPLY ONLY TO
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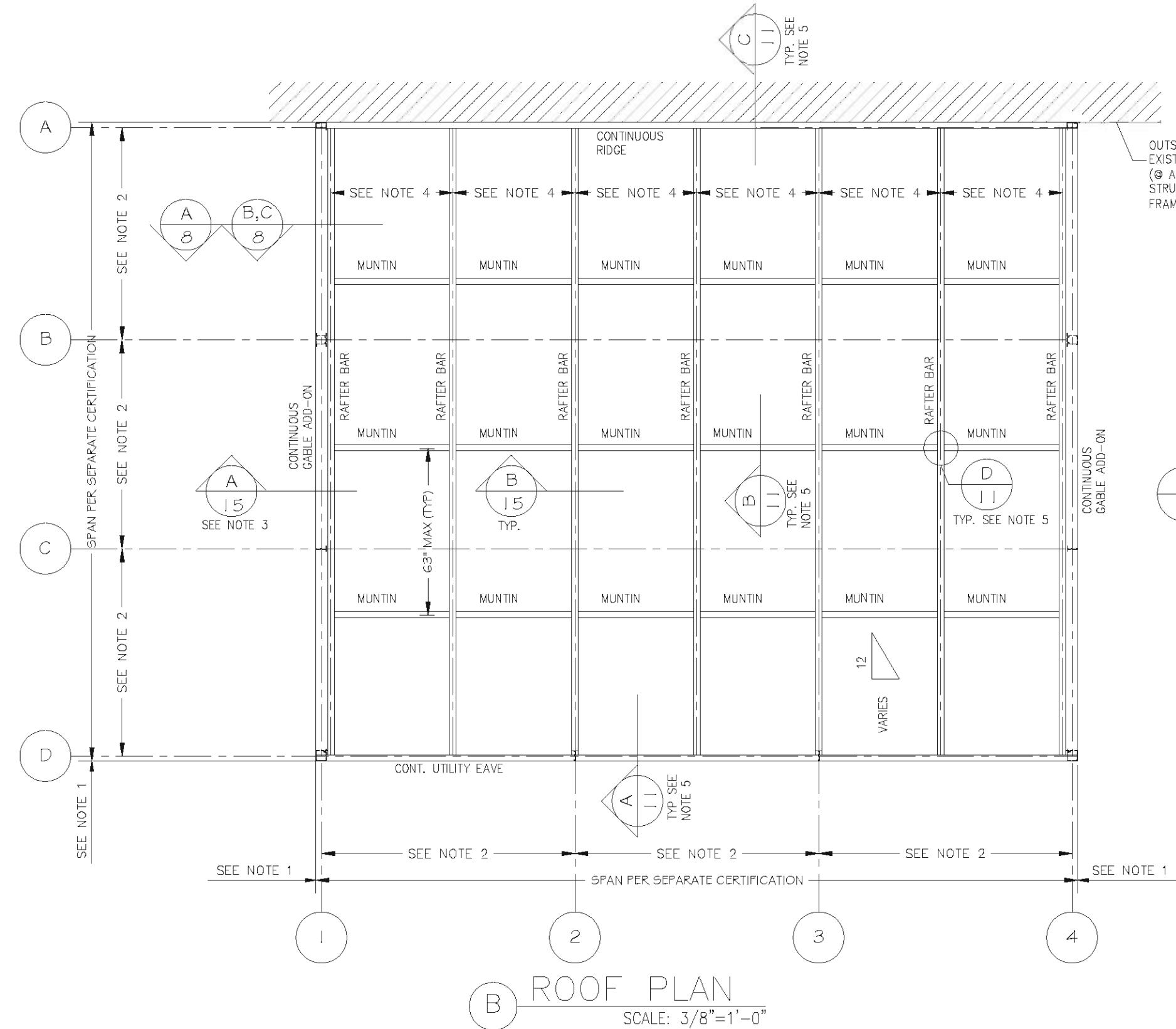
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PE# 0046549 CA# 9885
NO PED046549
LIC# 0046549
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/05/2020

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SERIES 230 SUN AND STARS ROOF SYSTEM
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ROOF PLAN

SCALE: $\frac{3}{8}'' = 1'-0''$

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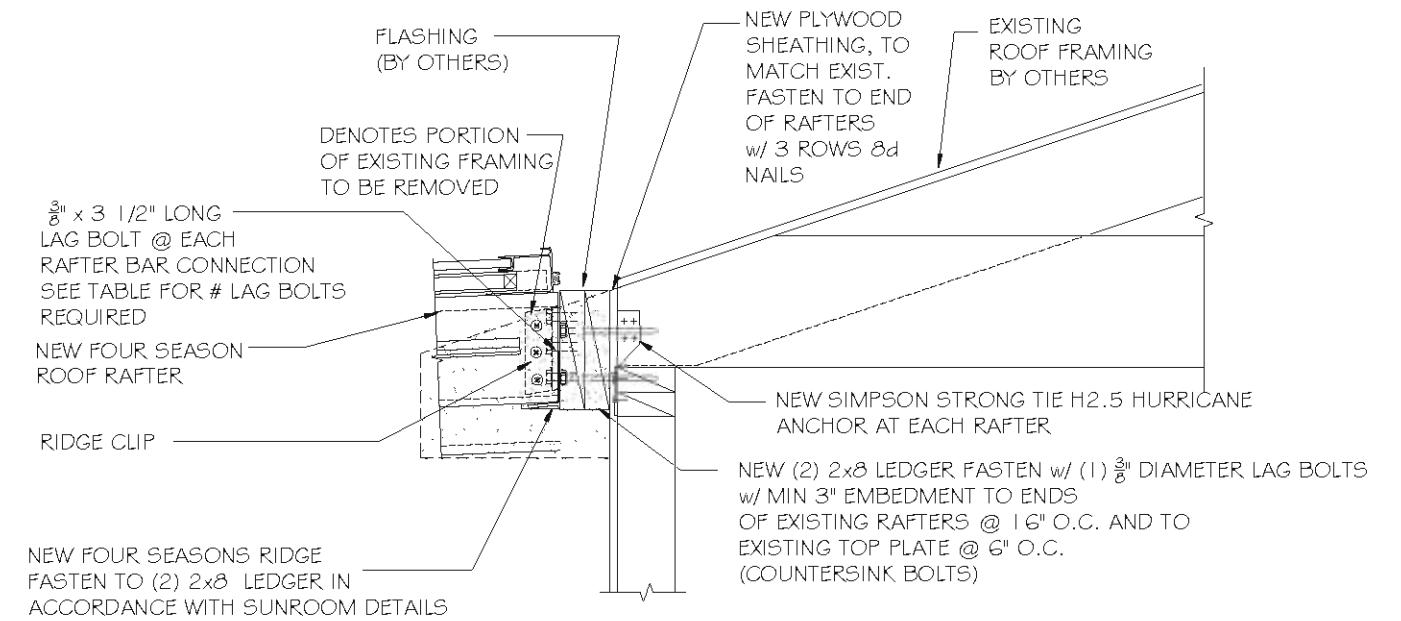
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SERIES 230 SUN AND STARS ROOF SYSTEM
FLORIDA BUILDING CODE

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A circular Florida Professional Engineer license seal. The outer ring contains the text "FLORIDA", "PROFESSIONAL", "ENGINEER", and "08/05/2020". The inner circle contains "FRANK J. BENNARDO", "PE", "LICENSING", "NO. PE0046549", and "STATE OF FLORIDA".





NOTE:

1. WHEN FASTENING TO MASONRY OR CONCRETE, FASTEN SUNROOM RIDGE DIRECTLY TO MASONRY WITH (3) 3/8" DIAMETER x 3" LONG HILTI METAL HIT ANCHOR (2 1/2" MINIMUM EMBEDMENT)
2. DO NOT FASTEN RAFTERS DIRECTLY TO MASONRY VENEERS.

WIND SPEED (MPH)	MAX. ALLOW. SPAN		MIN No.LAG BOLTS PER RAFTER BAR
	2.5' BAYS	3' BAYS	
85 EXP B	24'-0"	23'-0"	2
90 EXP B	24'-0"	21'-0"	2
100 EXP B	20'-0"	17'-0"	2
105 EXP B	19'-0"	15'-0"	2
110 EXP C	20'-0"	17'-0"	3
120 EXP C	18'-0"	14'-0"	3
125 EXP C	16'-0"	13'-0"	3
130 EXP C	15'-0"	12'-0"	3
140 EXP C	13'-0"	10'-0"	3
145 EXP C	12'-0"	10'-0"	3
150 EXP C	10'-0"	8'-0"	3

NOTE: MAX ALLOWABLE SPANS SHOWN BASED ON CONNECTION CAPACITY OF DETAIL A/7 ONLY. ACTUAL ROOM SPAN MUST BE DETERMINED UTILIZING INFORMATION SHOWN ON EVALUATION REPORT

THESE PLANS APPLY ONLY TO GLASS ROOF SYSTEM.

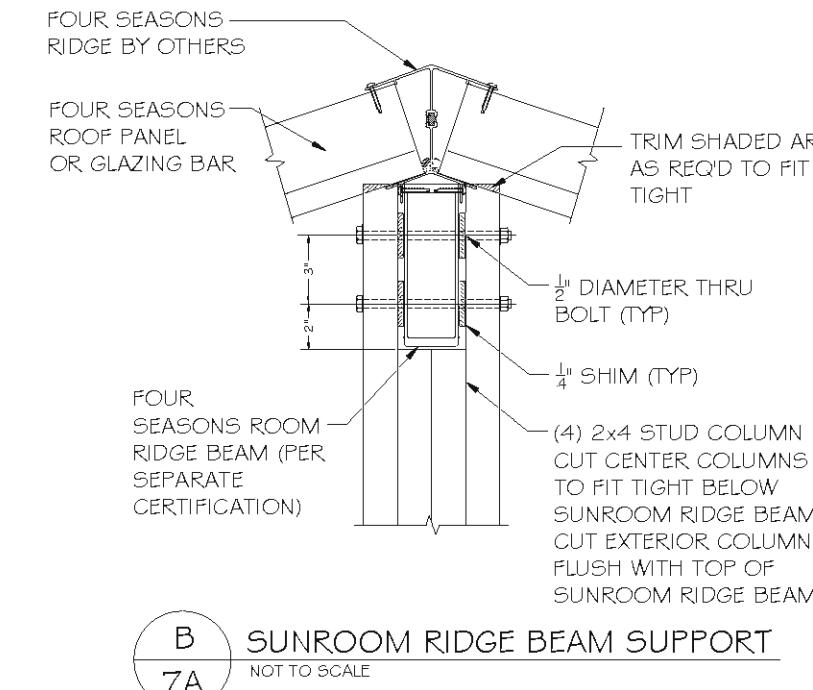
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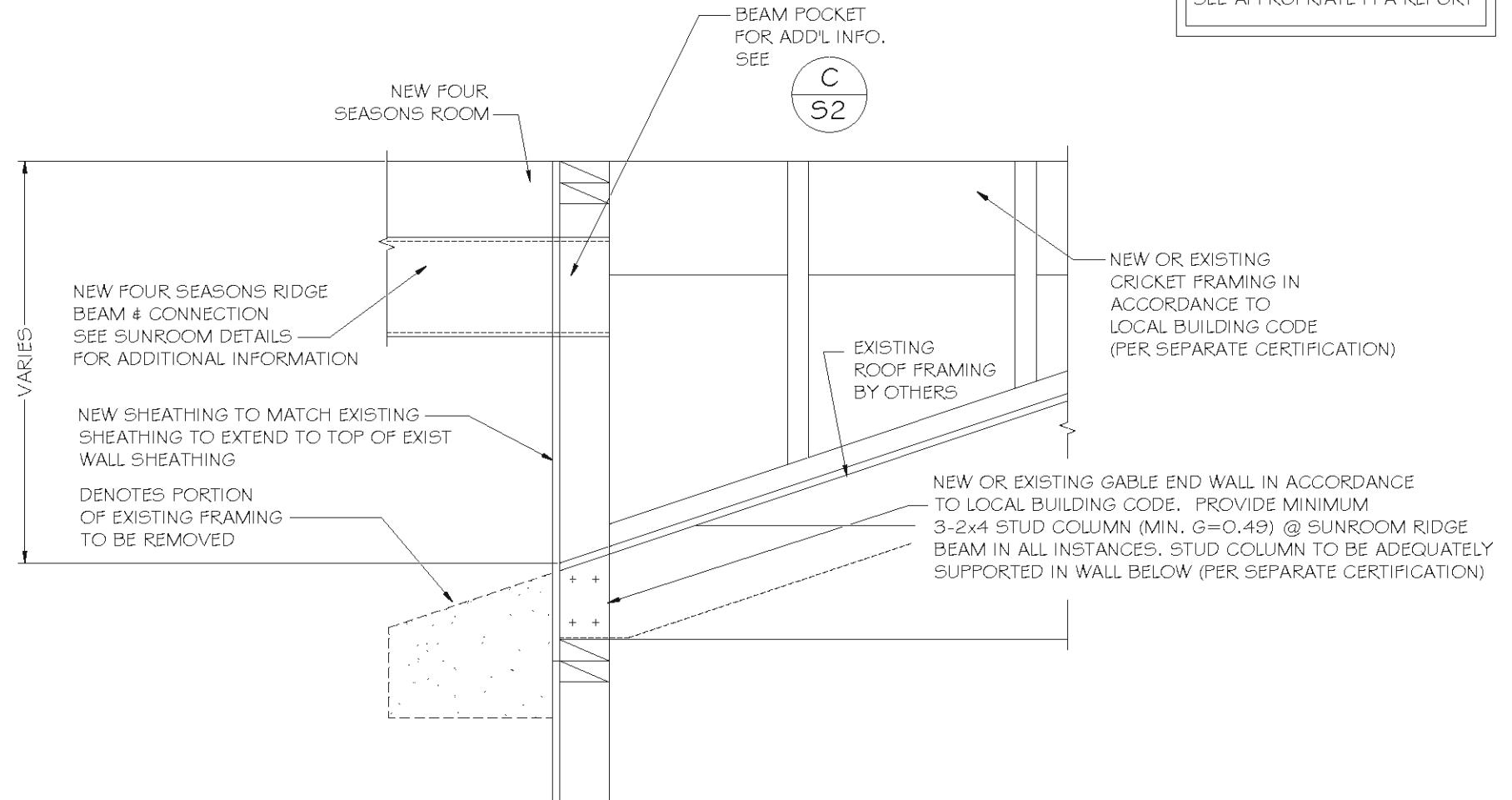
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B SUNROOM RIDGE BEAM SUPPORT
7A NOT TO SCALE



A TYP SUN & SHADE/STARS CATHEDRAL MODEL CONNECTION AT EXIST STRUCTURE
7A NOT TO SCALE

THESE PLANS APPLY ONLY TO
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FOR WINDOW & DOOR INFO.
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885
NO PRO654549
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/05/2020

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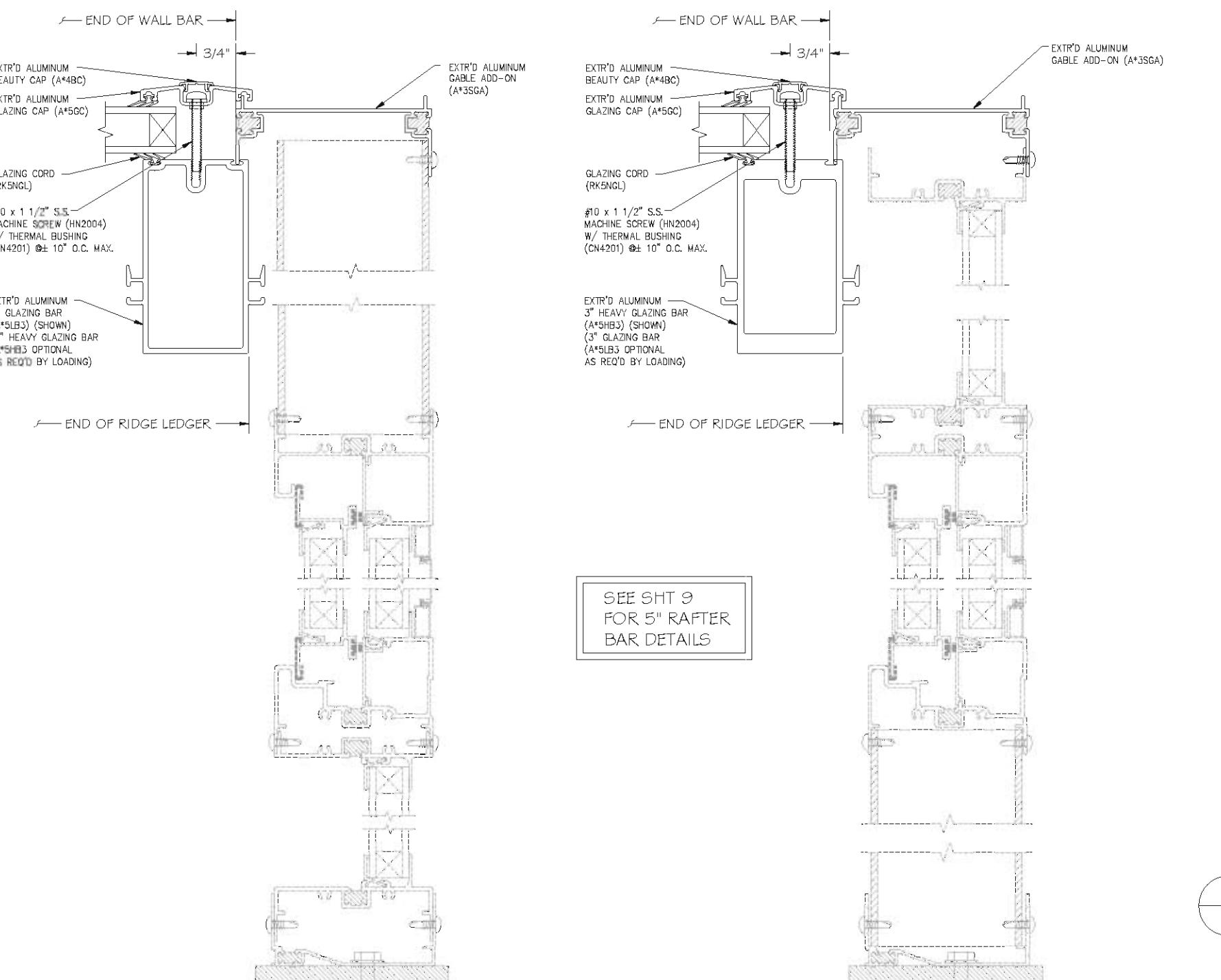
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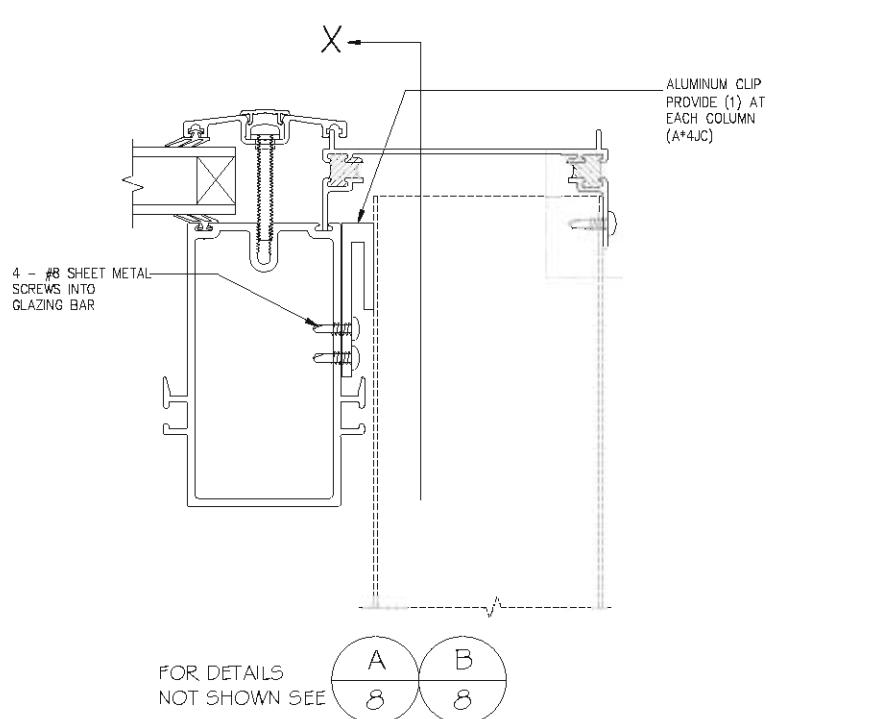
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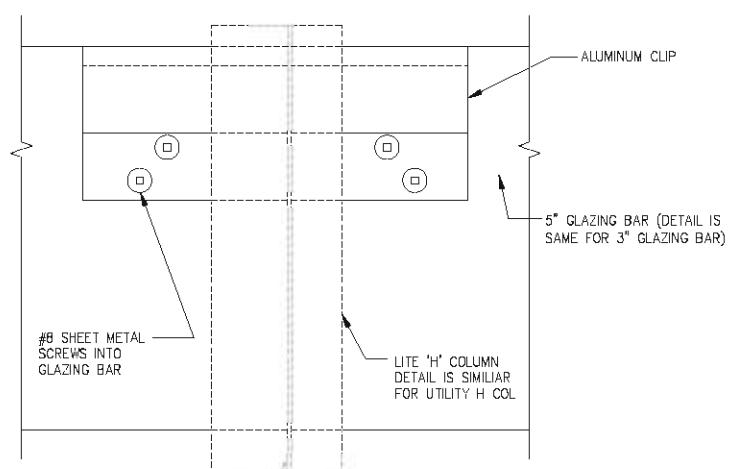


A
8
GABLE END WALL SECTION w/ SOLID TRAP
NOT TO SCALE

B
8
GABLE END WALL SECTION w/ STD. OR CUSTOM GLASS TRAP
NOT TO SCALE



FOR DETAILS
NOT SHOWN SEE
A
8
B
8



SECTION X

C
8
NOT TO SCALE
STRAIGHT EAVE GABLE WALL SECTION @ COLUMN CONNECTION

THESE PLANS APPLY ONLY TO
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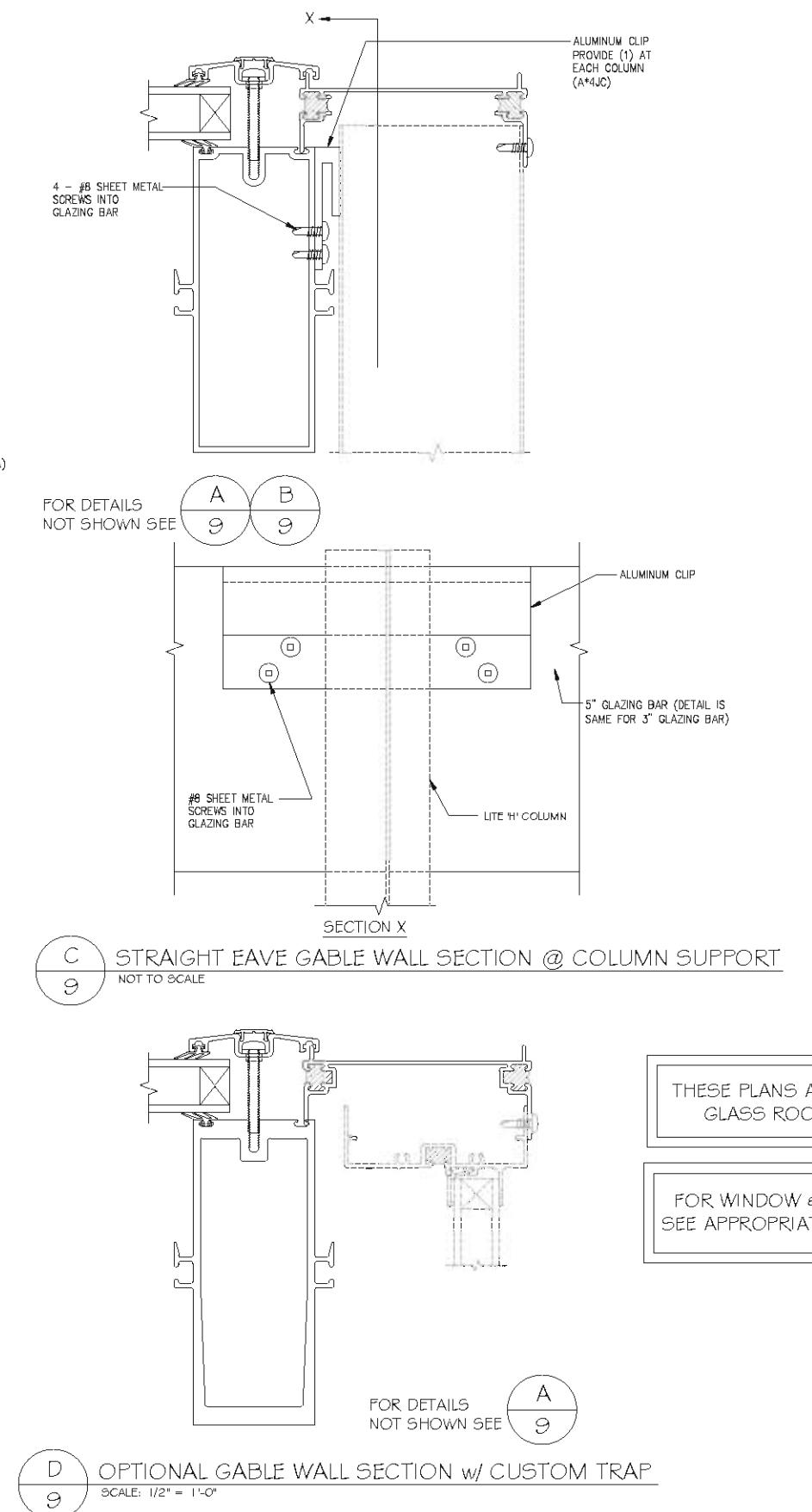
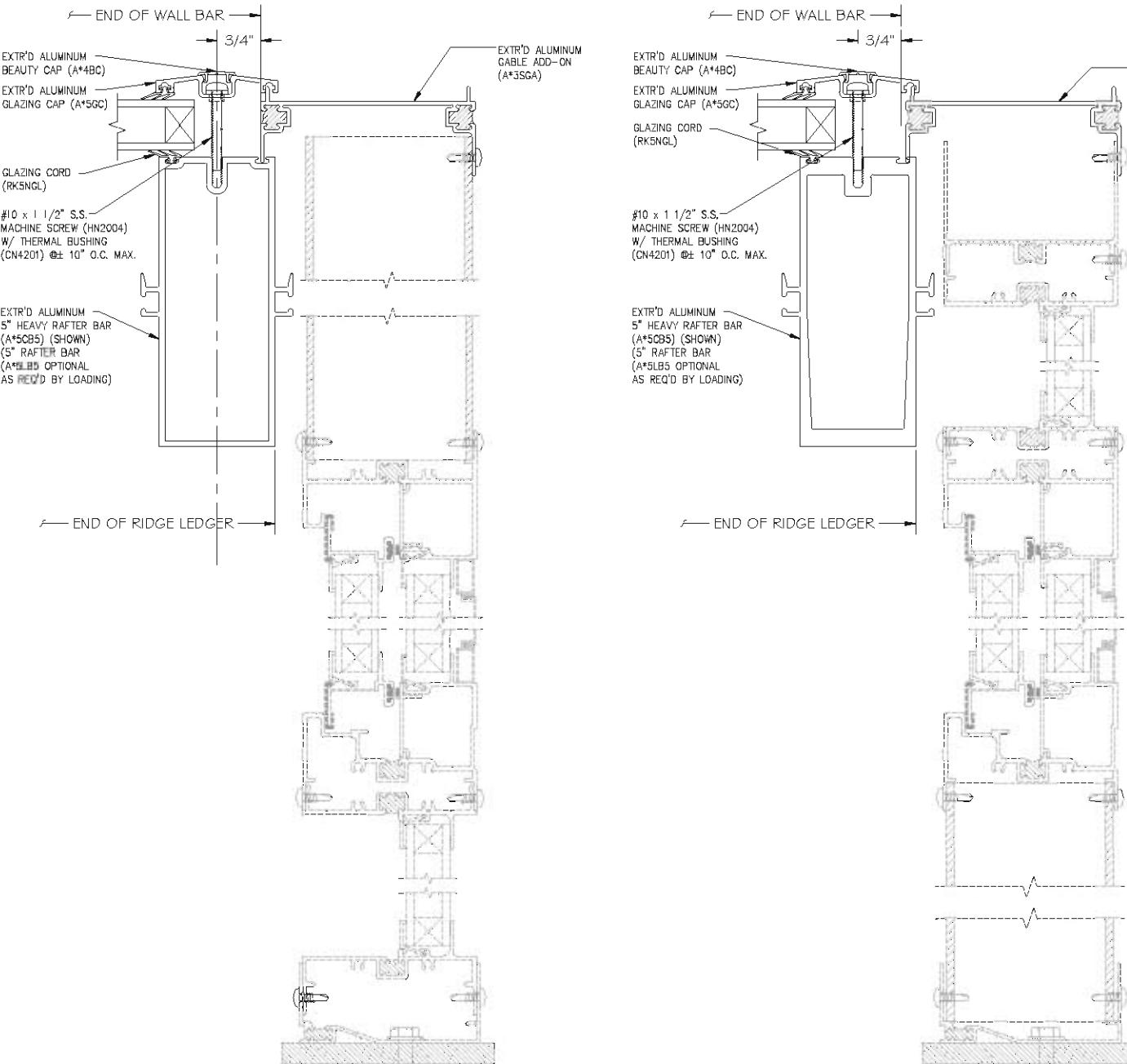
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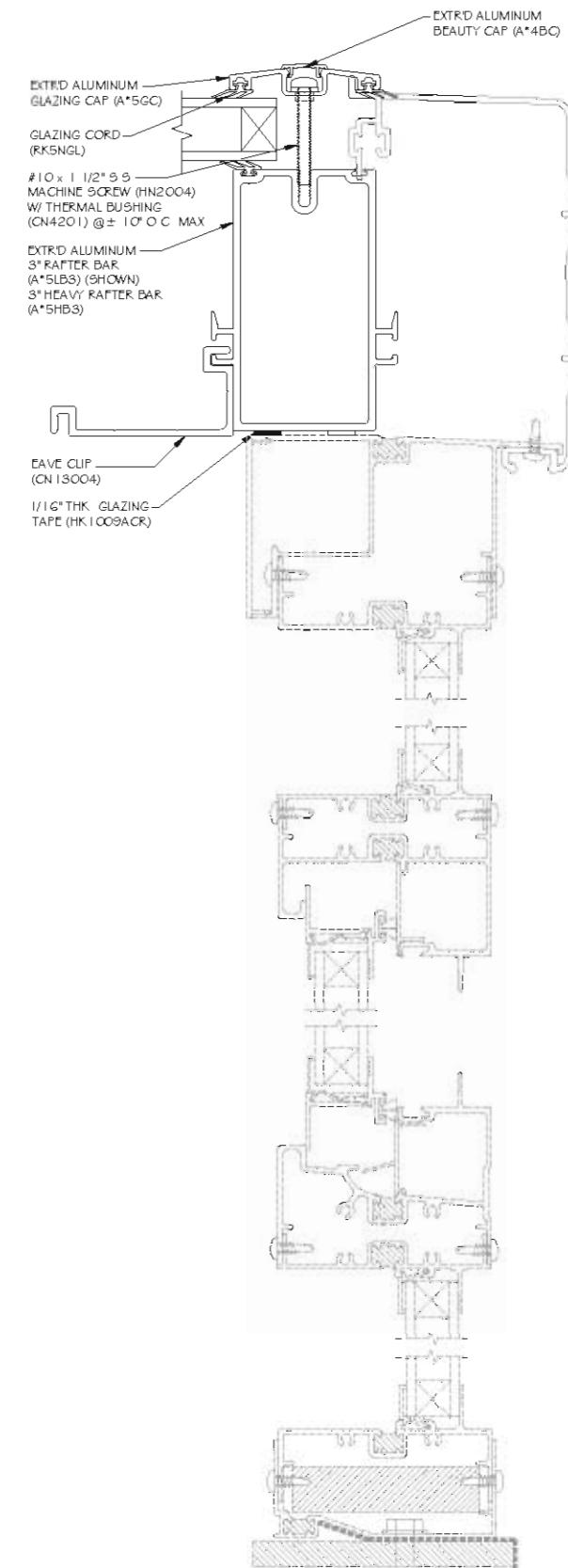
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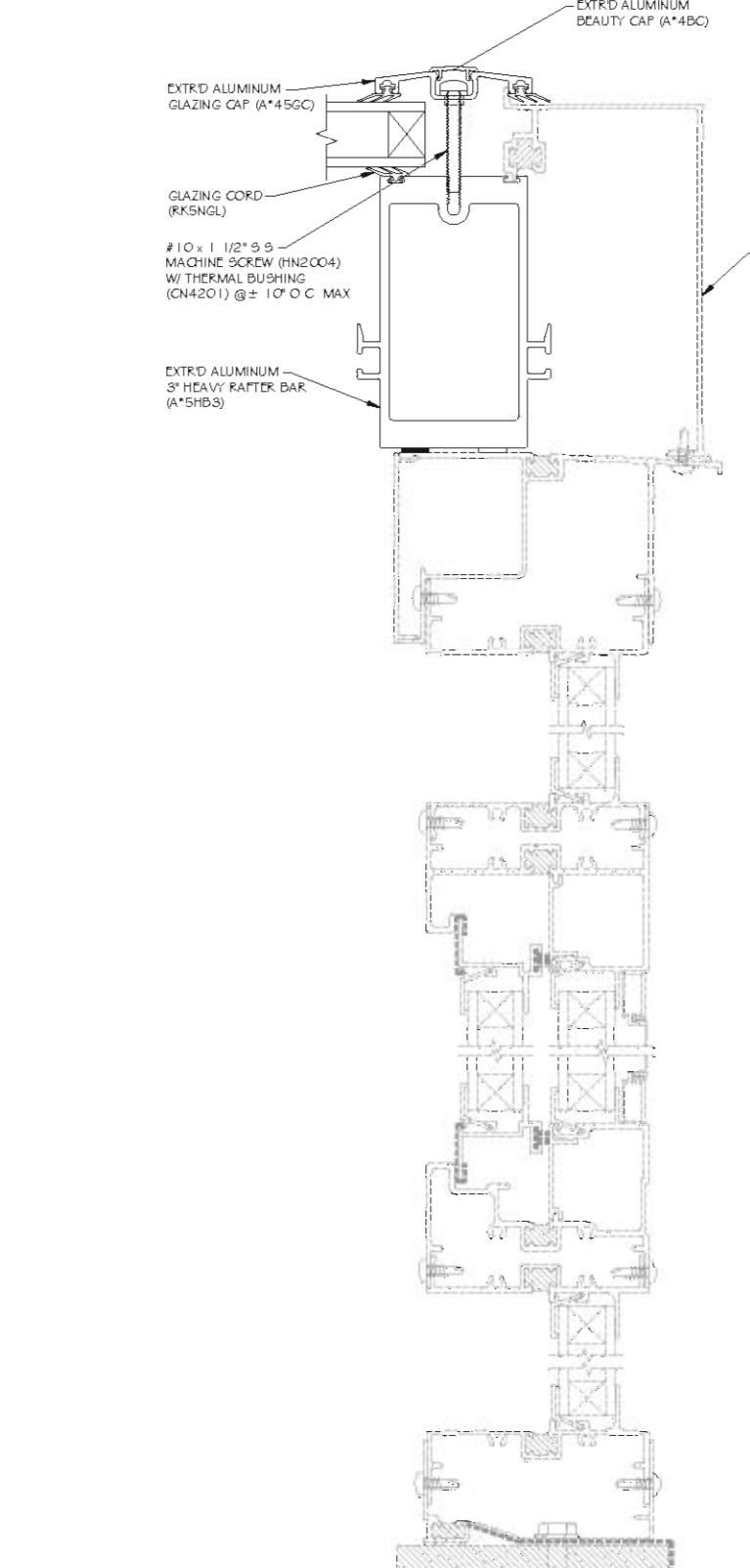
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99



A
10 GABLE END WALL SECTION
NOT TO SCALE



B
10 GABLE END WALL SECTION w/ STD. OR CUSTOM GLASS TRAP
NOT TO SCALE

THESE PLANS APPLY ONLY TO
GLASS ROOF SYSTEM.

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SEE APPROPRIATE FPA REPORT

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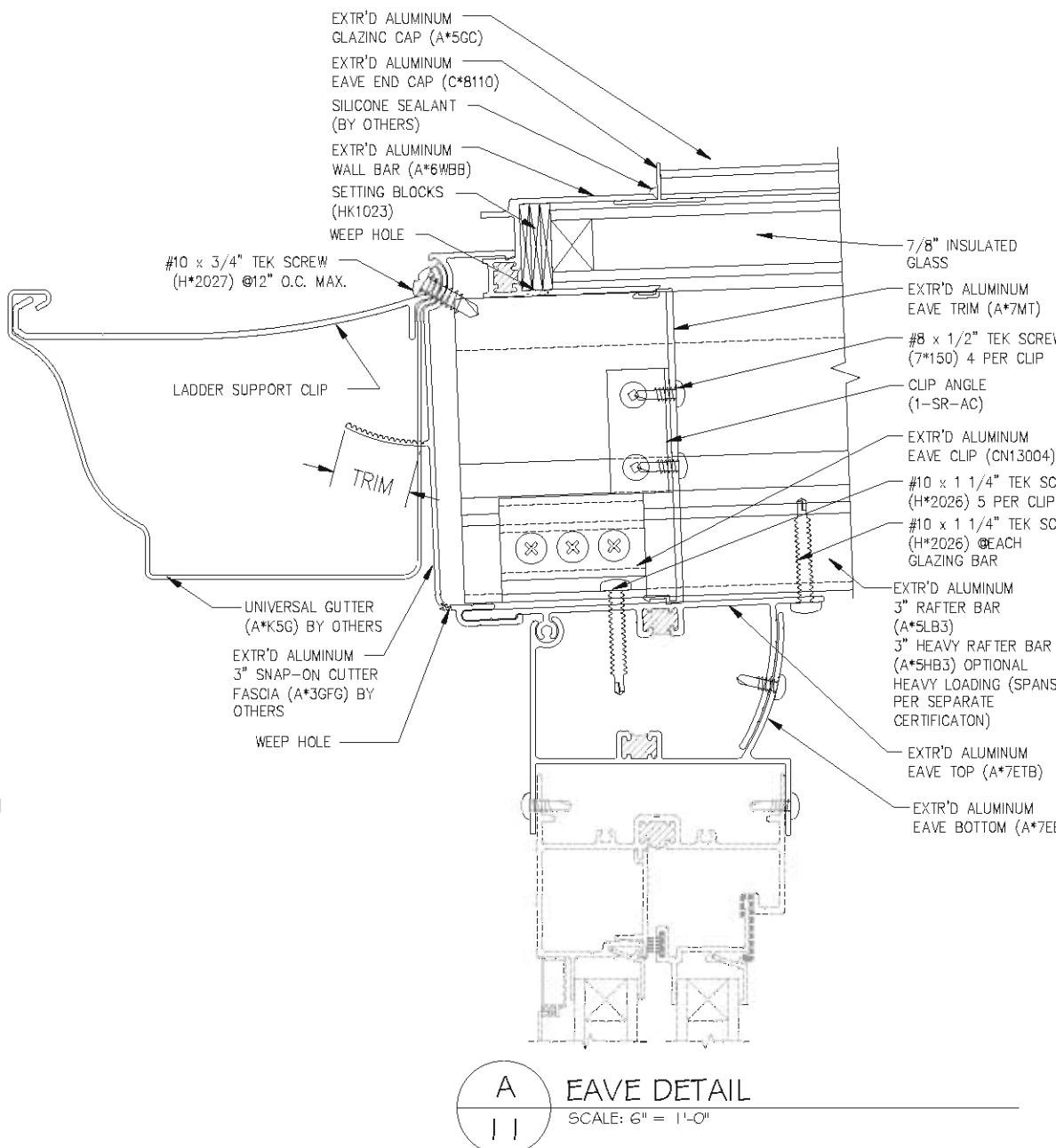
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NOV 2020
PROFESSIONAL ENGINEER

STATE OF FLORIDA

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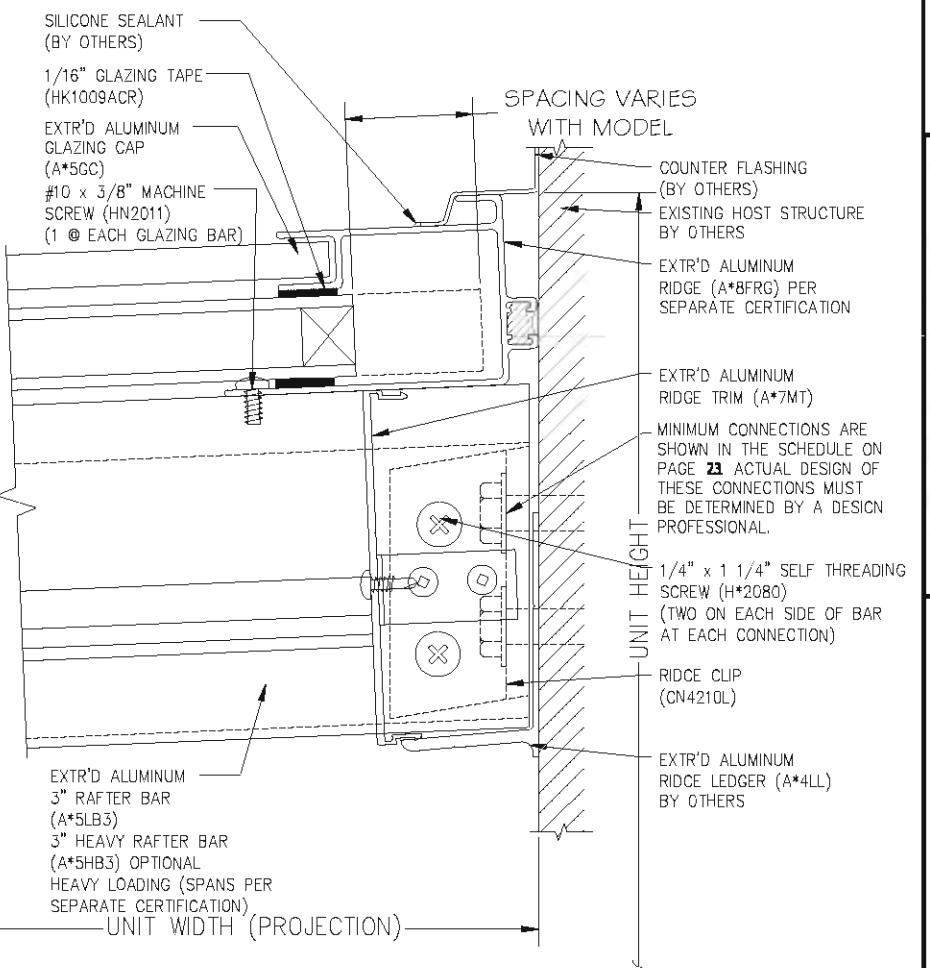
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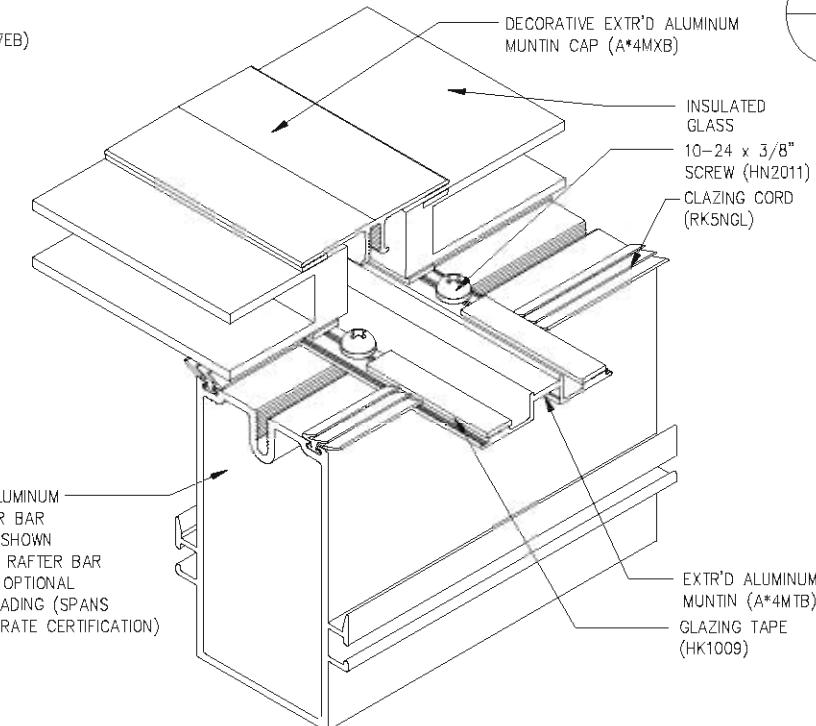
EXTR'D ALUMINUM 3" RAFTER BAR (A*5LB3) SHOWN
3" HEAVY RAFTER BAR (A*5HB3) OPTIONAL
HEAVY LOADING (SPANS PER SEPARATE CERTIFICATION)

D CROSS MUNTIN & RAFTER BAR CONNECTION
SCALE: 6" = 1'-0"

EXTR'D ALUMINUM MUNTIN (A*4MTB)
GLAZING TAPE (HK1009)



C 3" RIDGE SECTION
SCALE: 6" = 1'-0"



SEE SHT 12
FOR 5" RAFTER
BAR DETAILS

THESE PLANS APPLY ONLY TO
GLASS ROOF SYSTEM.

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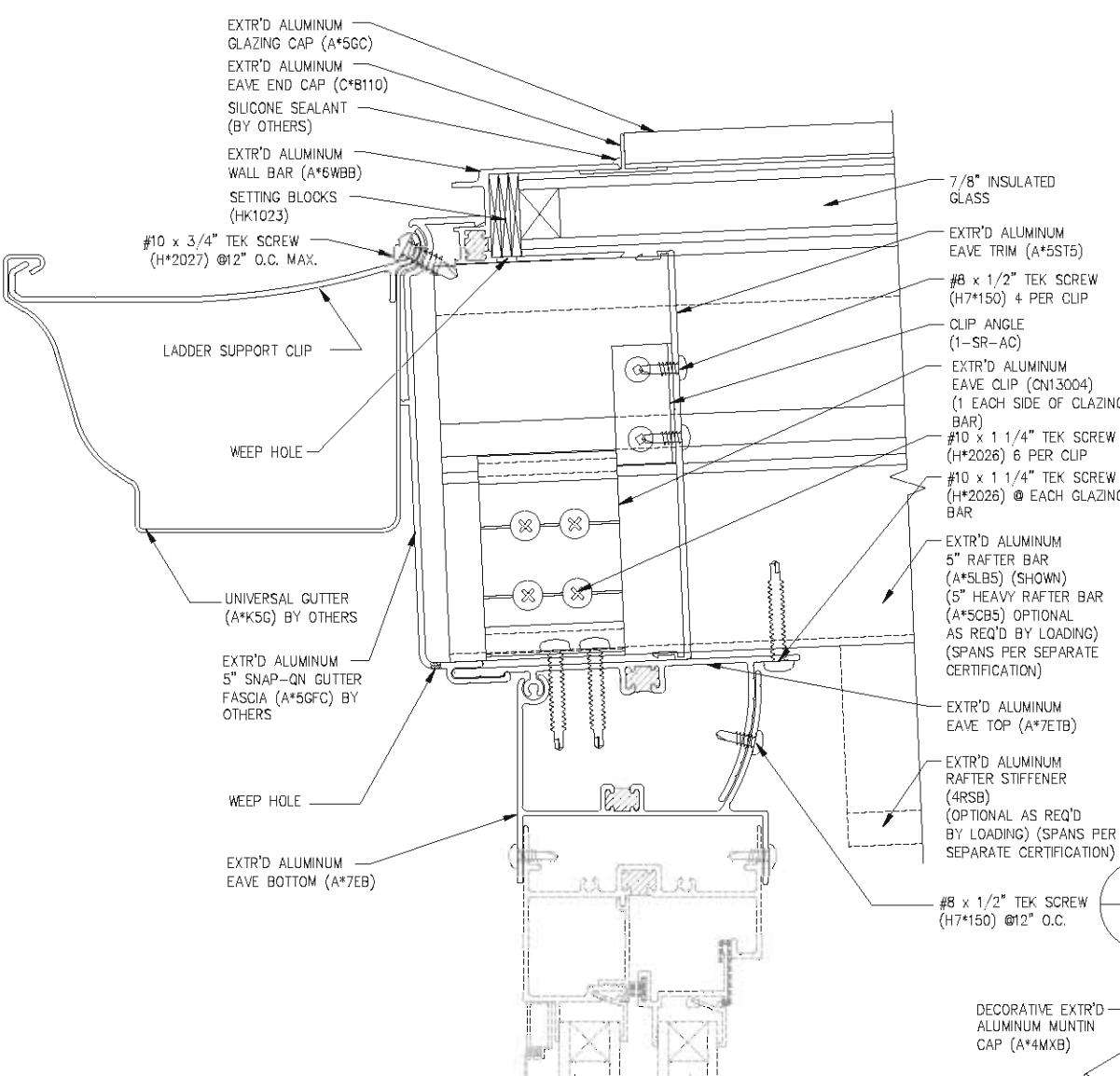
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FRANK BENNARDO, PE
PE# 0046549 CA# 9885
NO PER046549
STATE OF FLORIDA
08/05/2020

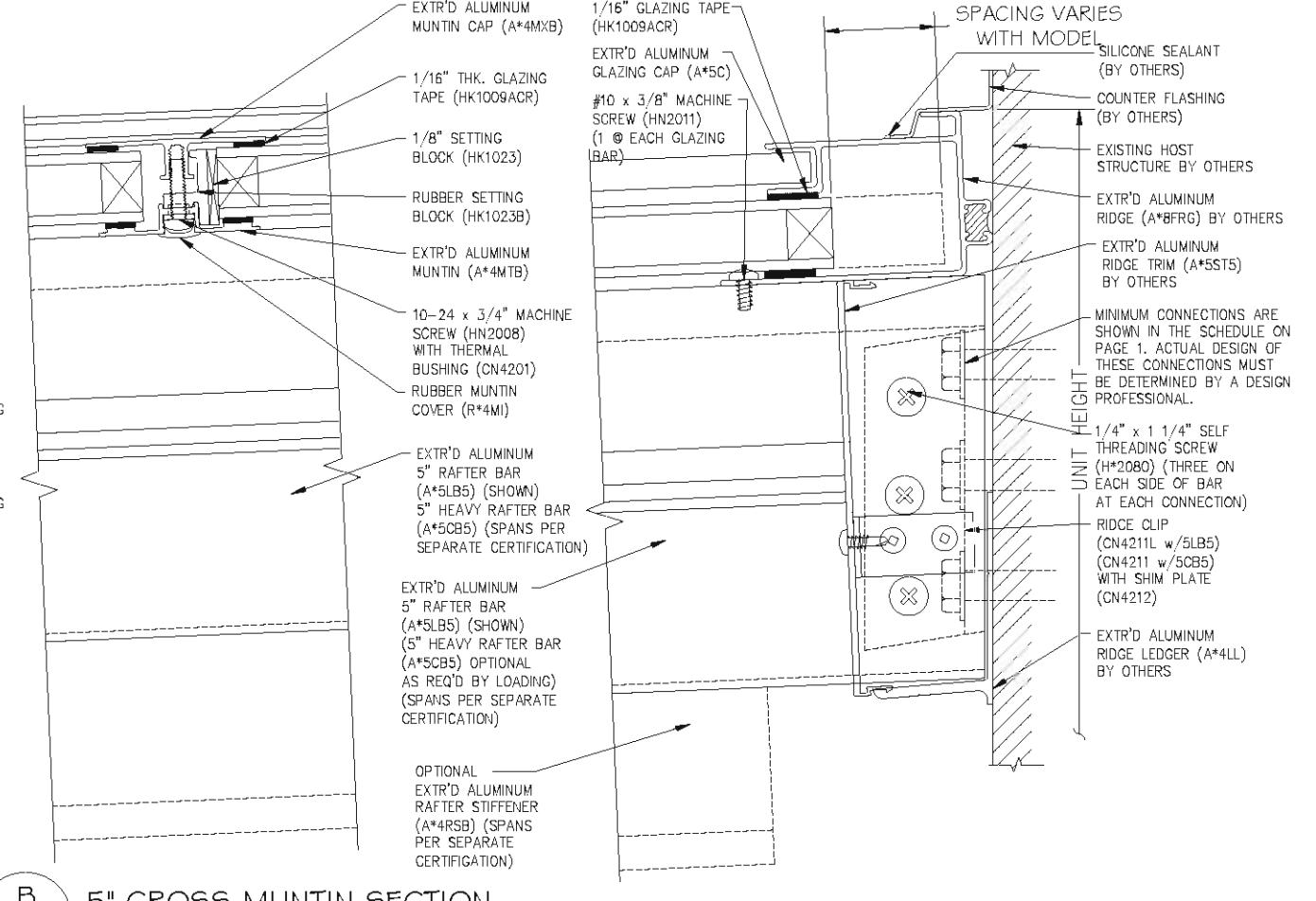
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A 12

5" EAVE SECTION

SCALE: 6" = 1'-0"



B 12

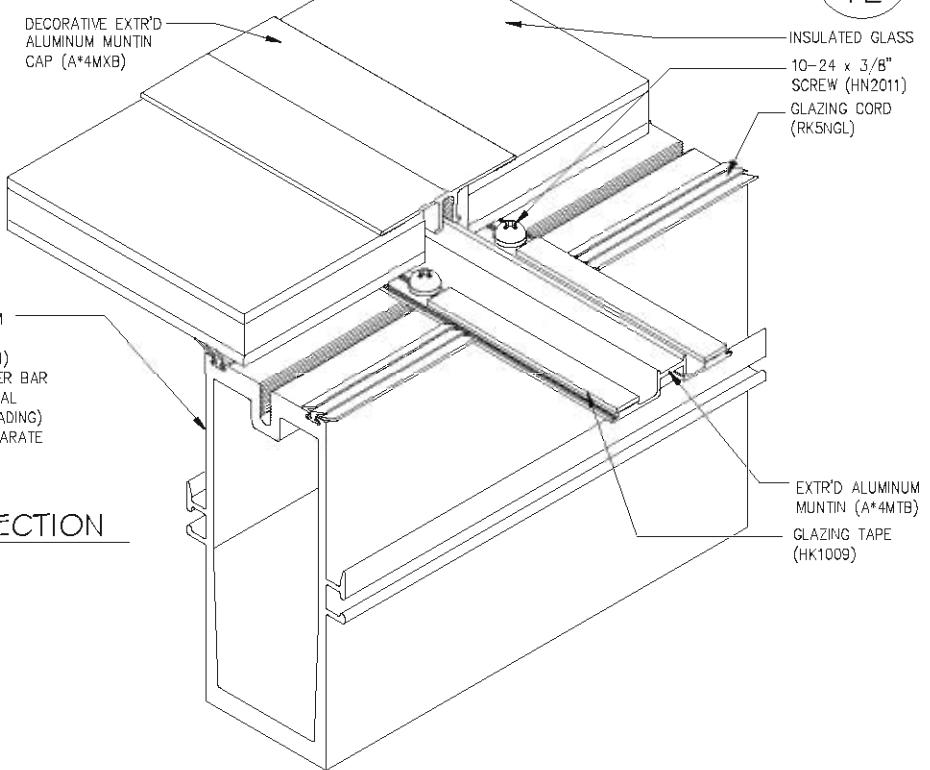
5" CROSS MUNTIN SECTION

SCALE: 6" = 1'-0"

C 12

5" RIDGE SECTION

SCALE: 6" = 1'-0"



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12

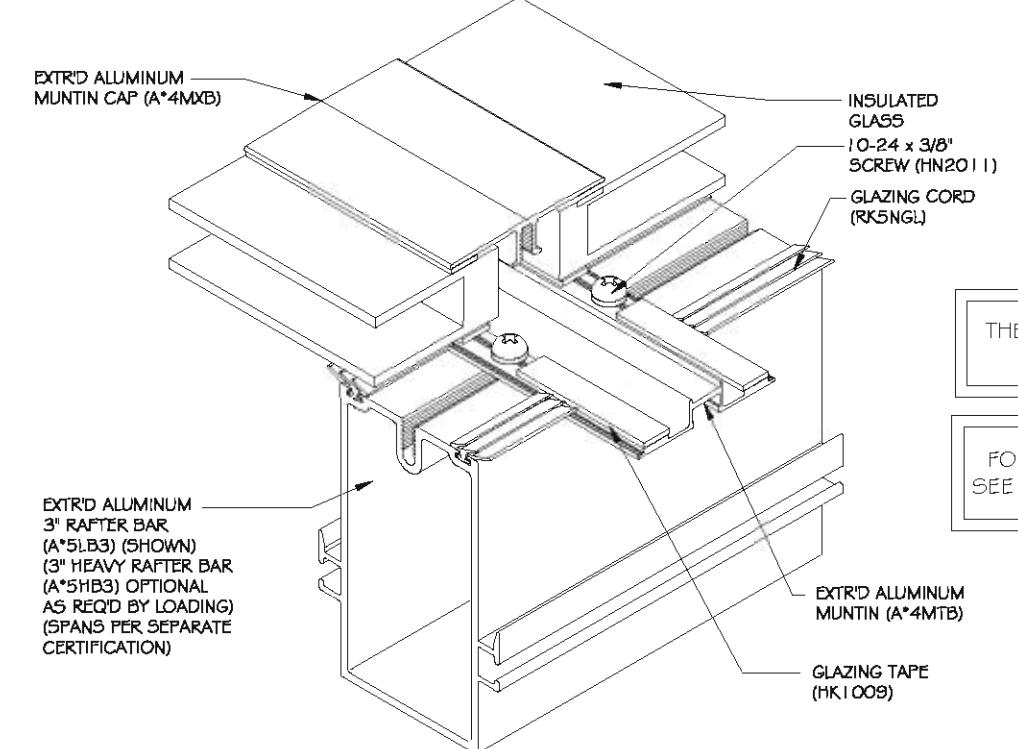
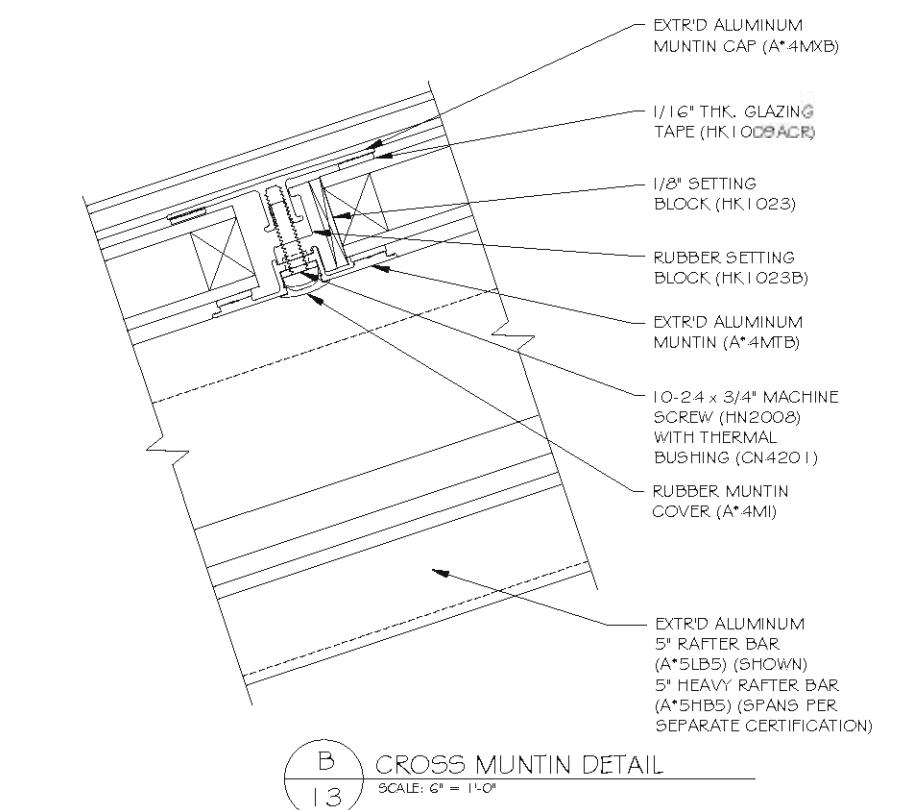
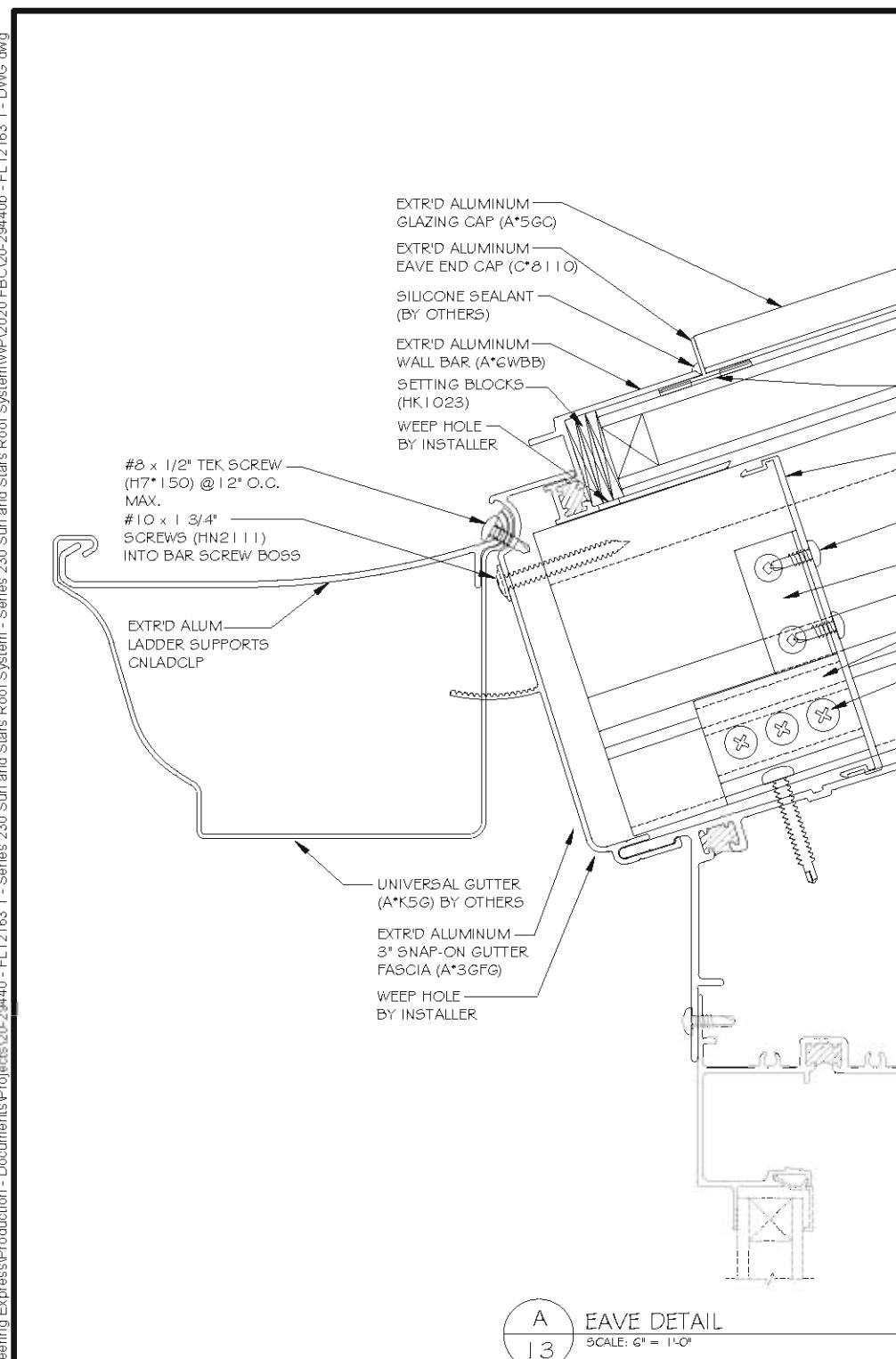
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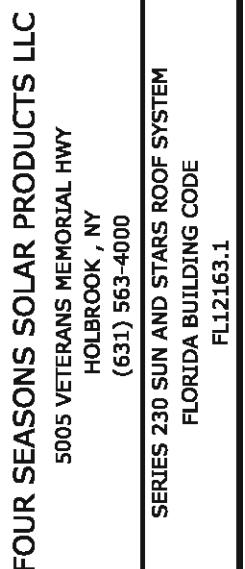
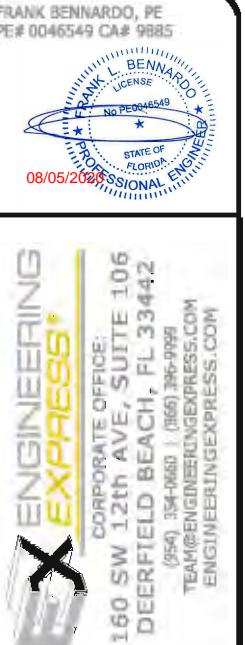
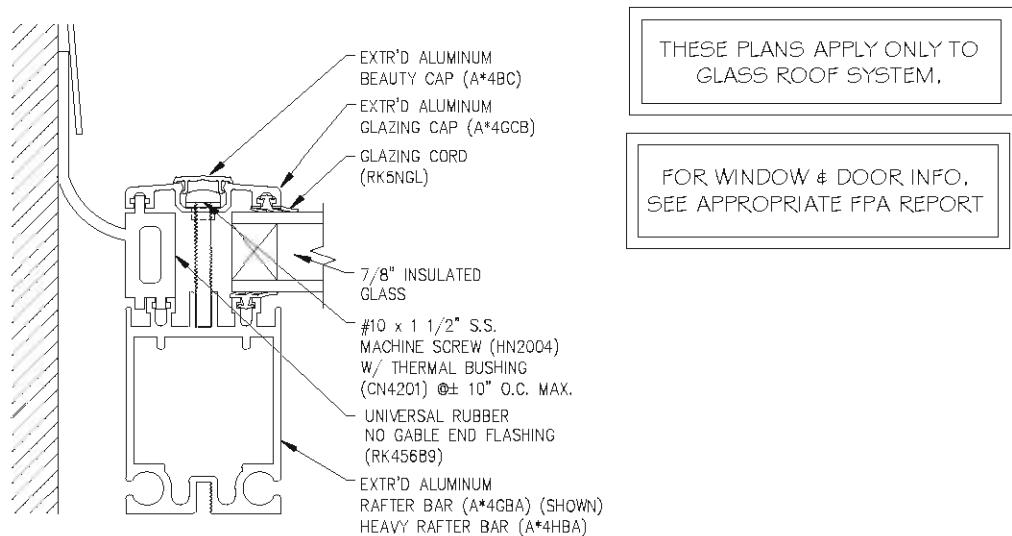
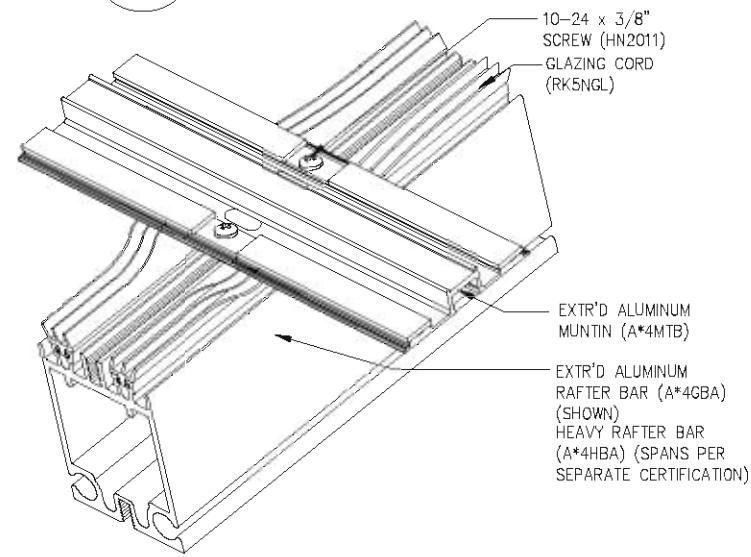
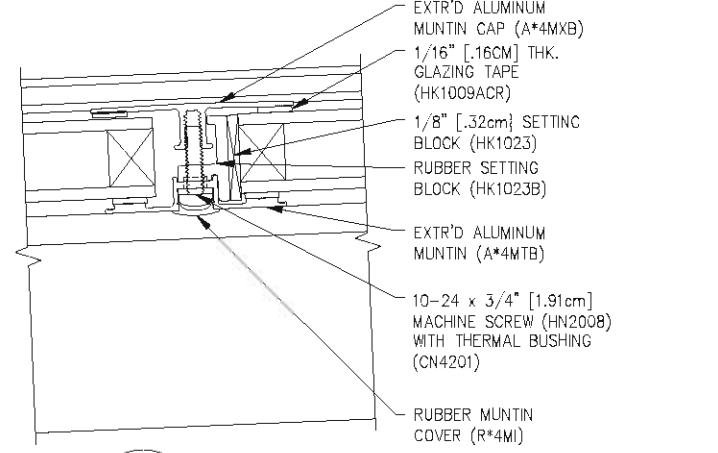
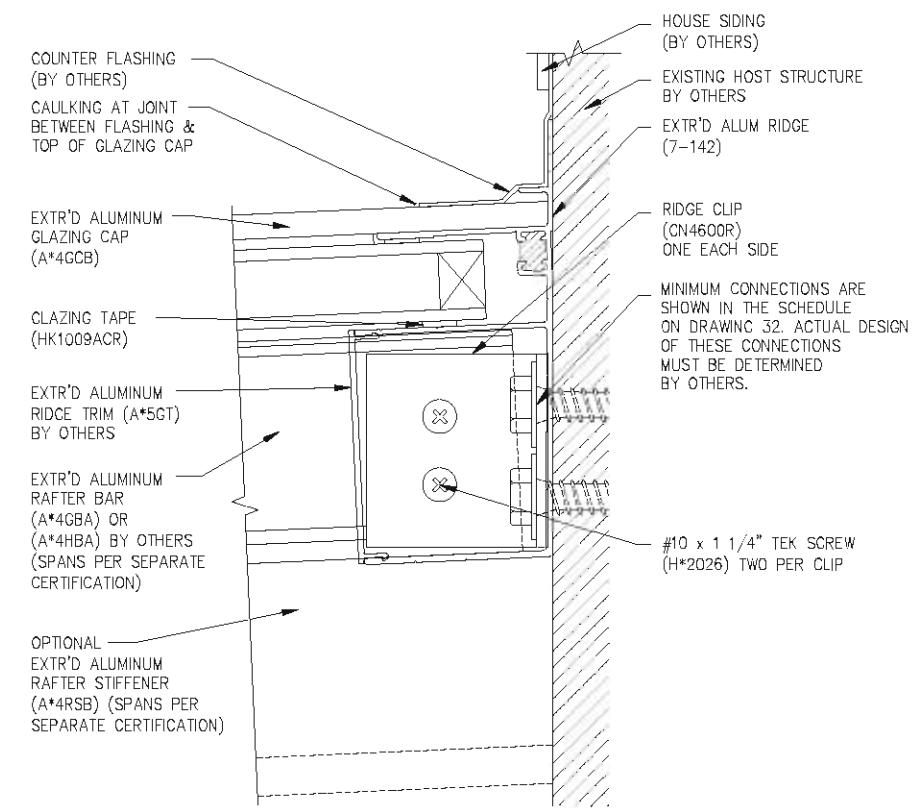
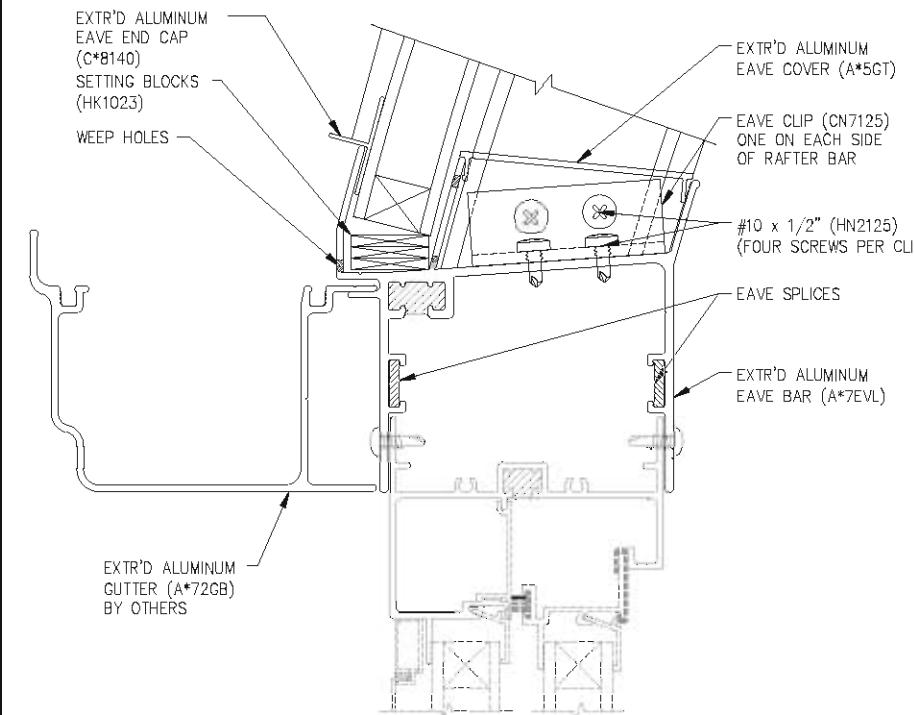
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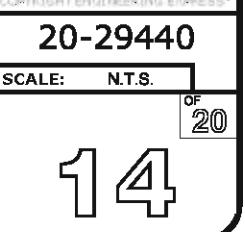
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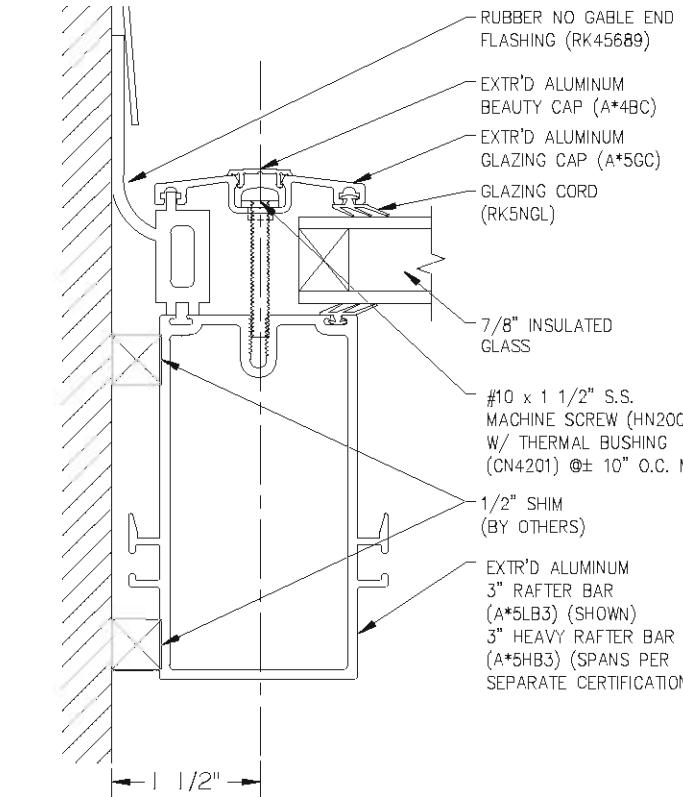
20-29440
SCALE: N.T.S.
13
13
20

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PE# 0046549 CA# 9885
08/05/2020
FRANK L. BENNARDO
LICENSE NO. PE0046549
STATE OF FLORIDA
PROFESSIONAL ENGINEER

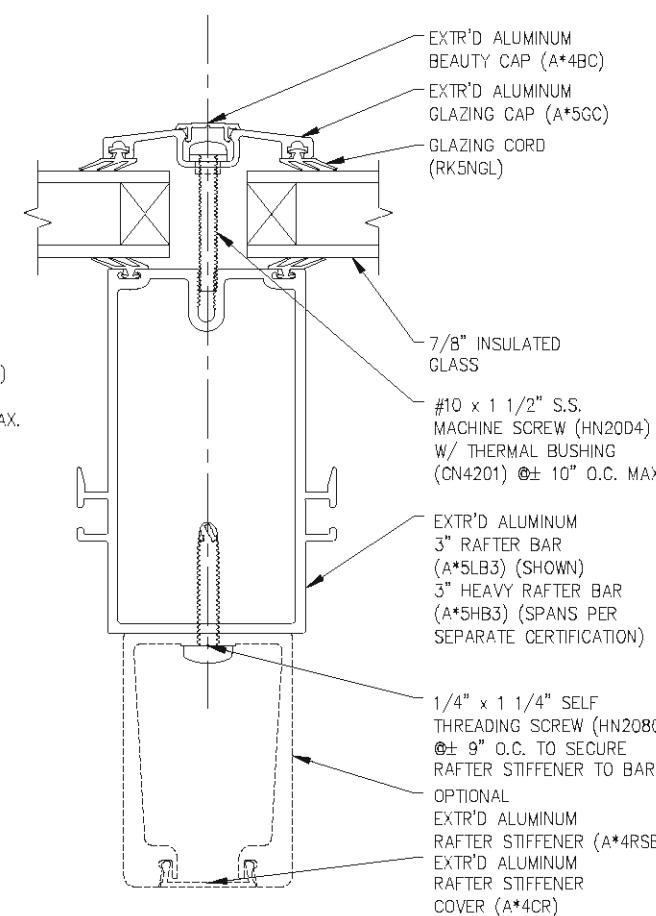


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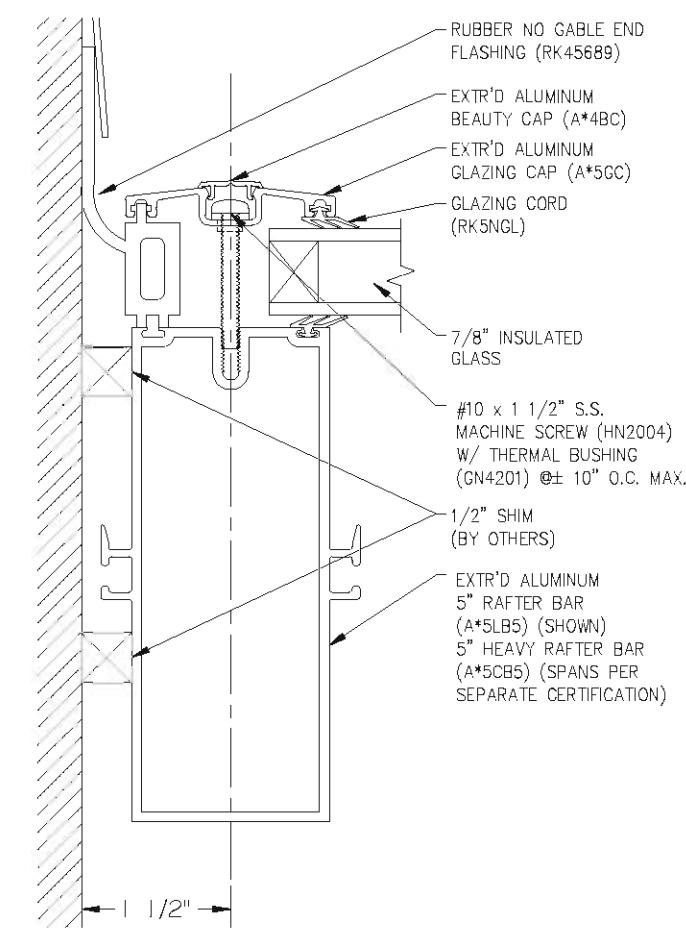




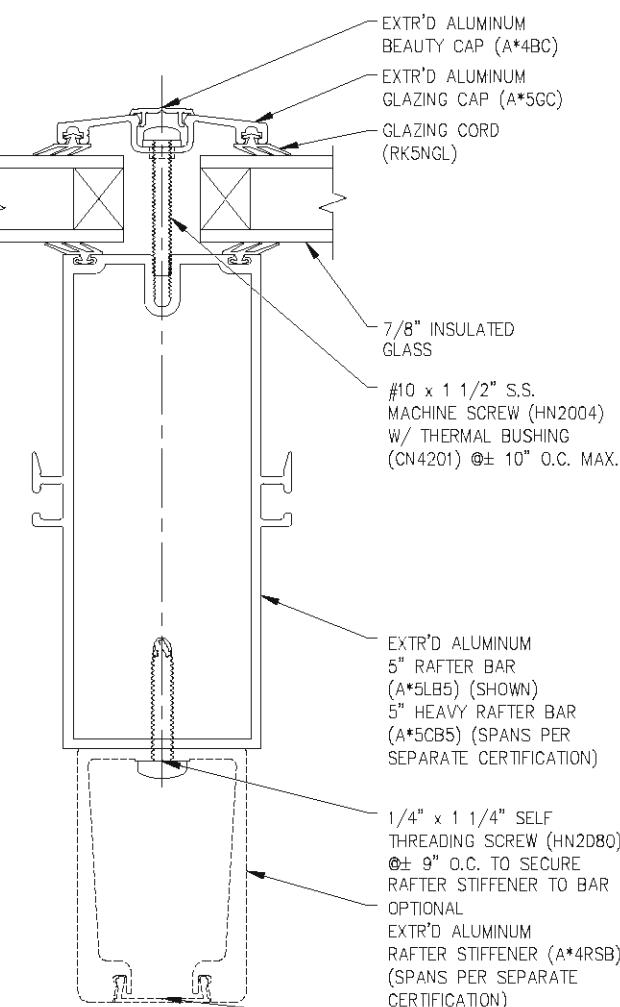
A
15
NO GABLE END SECTION
SCALE: 6" = 1'-0"



B
15
3" Rafter Bar Section
SCALE: 6" = 1'-0"



A
15
NO GABLE END SECTION
SCALE: 6" = 1'-0"



A
15
5" Rafter Bar Section
SCALE: 6" = 1'-0"

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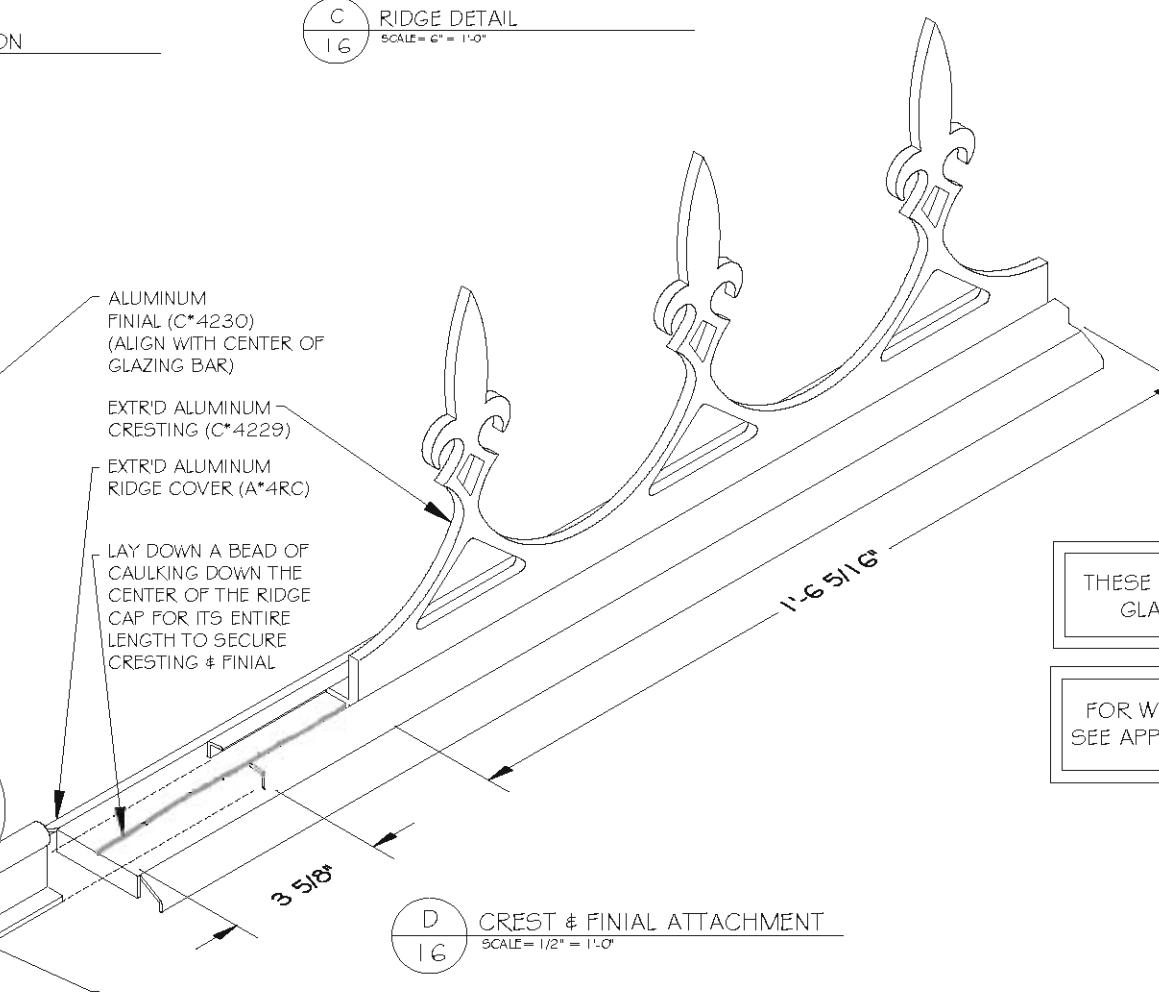
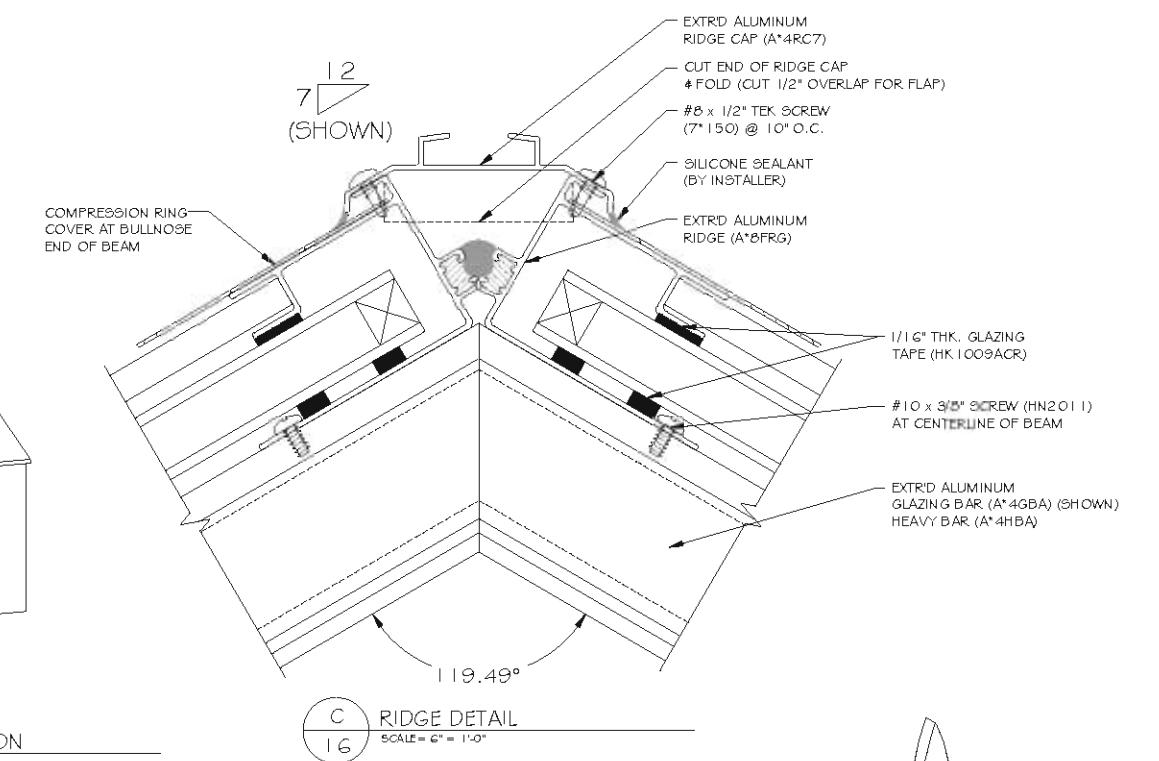
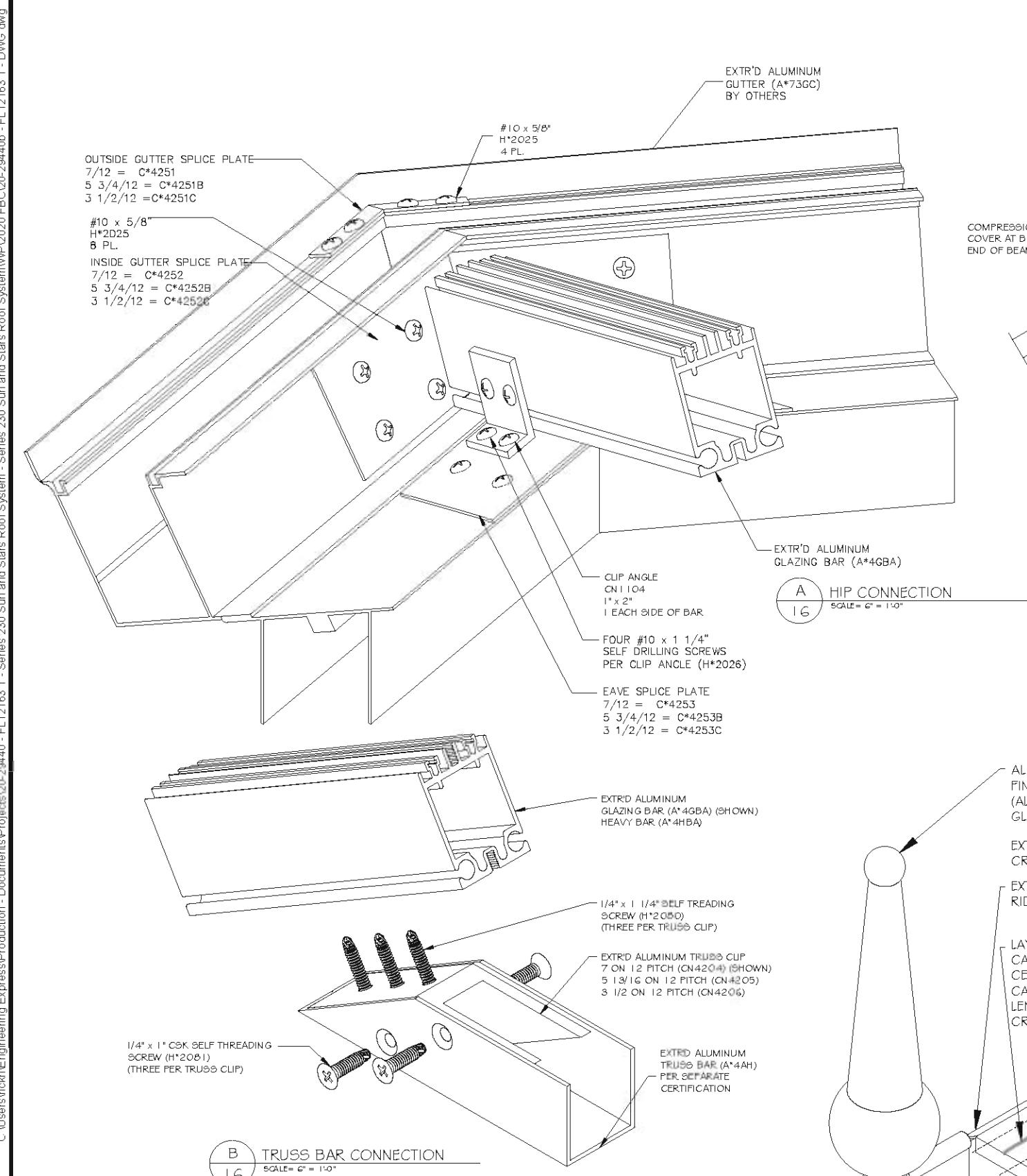


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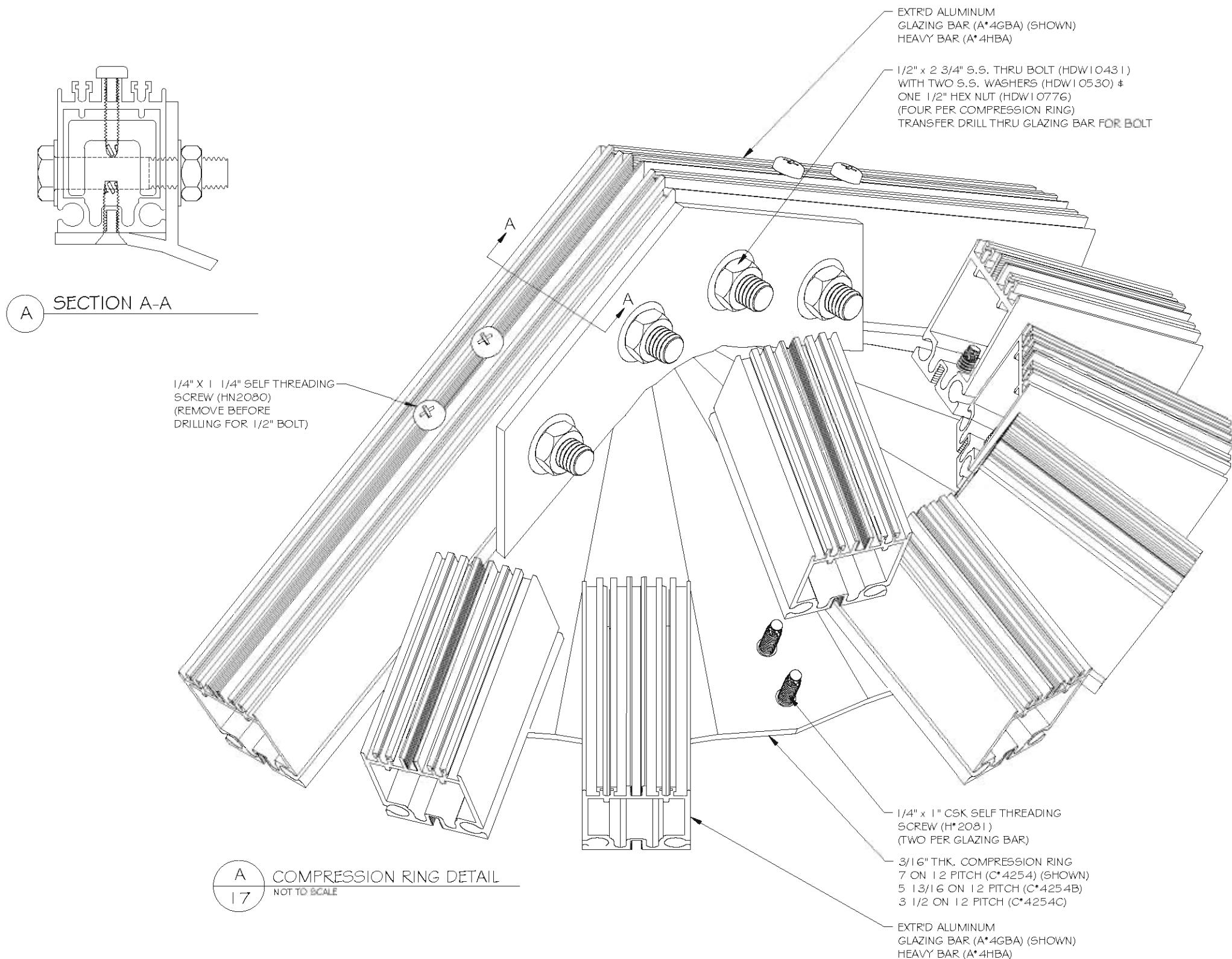
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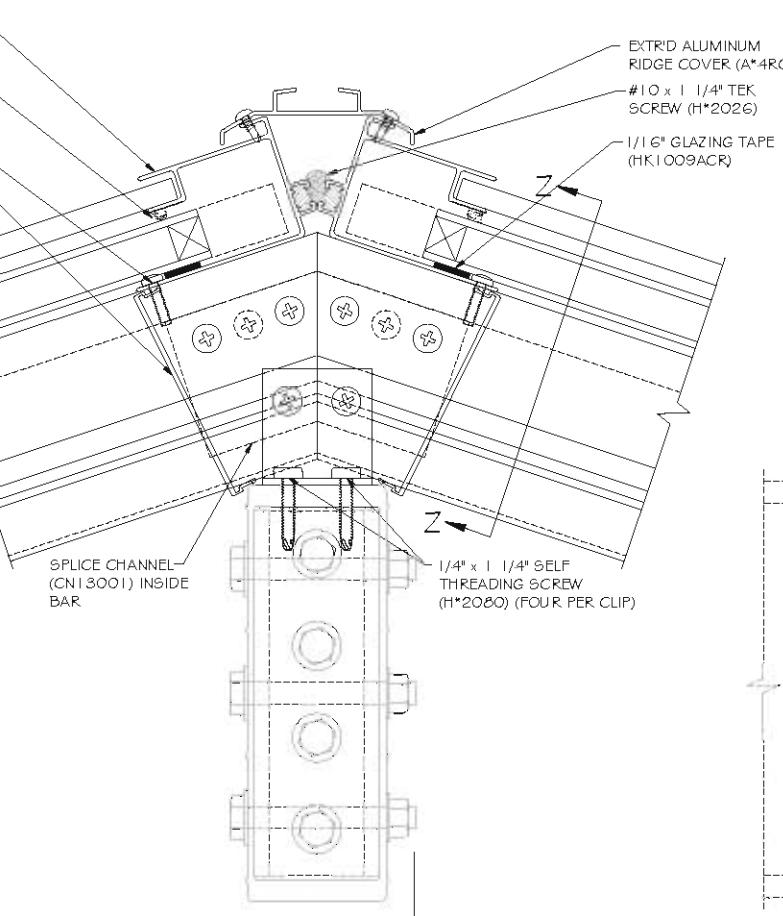
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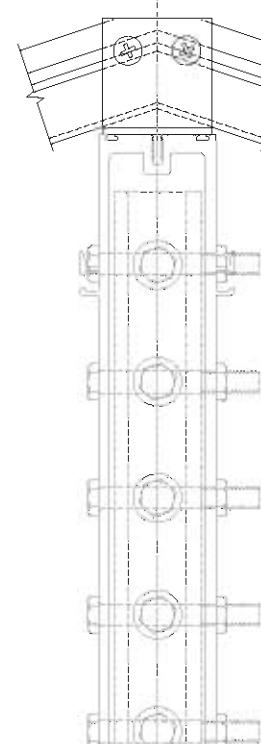


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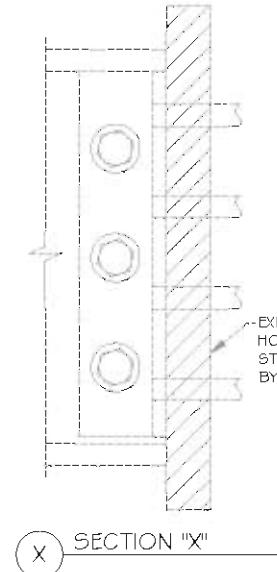
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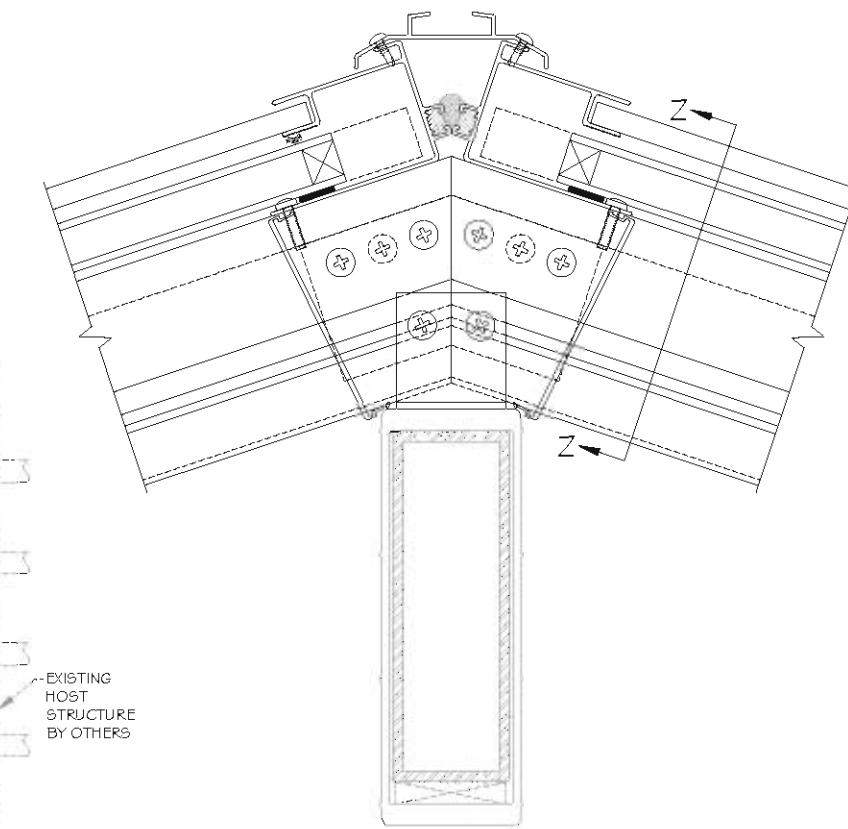
A 18 7" RIDGE BEAM @ EXISTING STRUCTURE
NOT TO SCALE



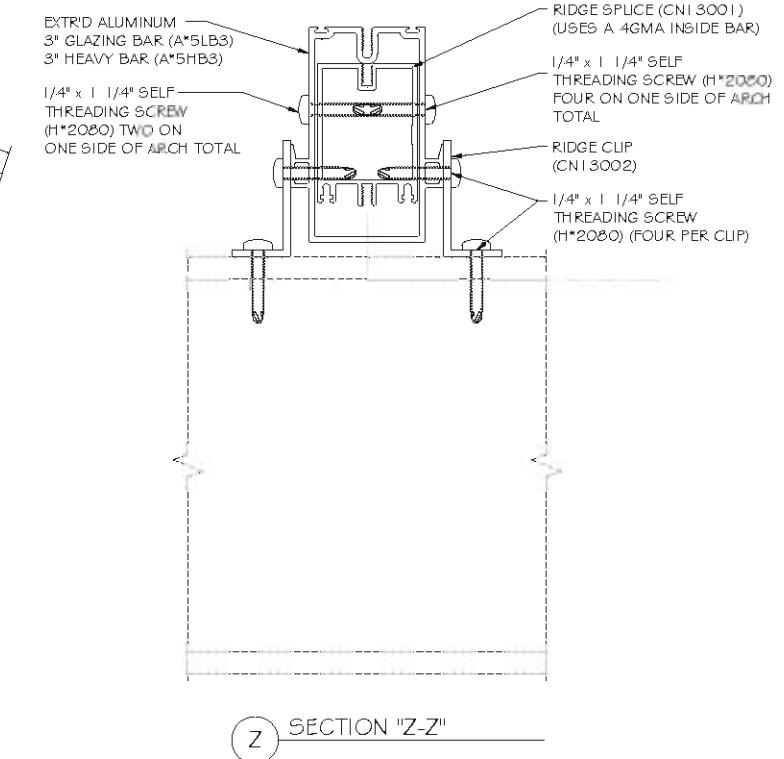
B 18 12" RIDGE BEAM
NOT TO SCALE



X SECTION "X"



C 18 7" RIDGE BEAM w/STEEL INSERT
NOT TO SCALE



Z SECTION "Z-Z"

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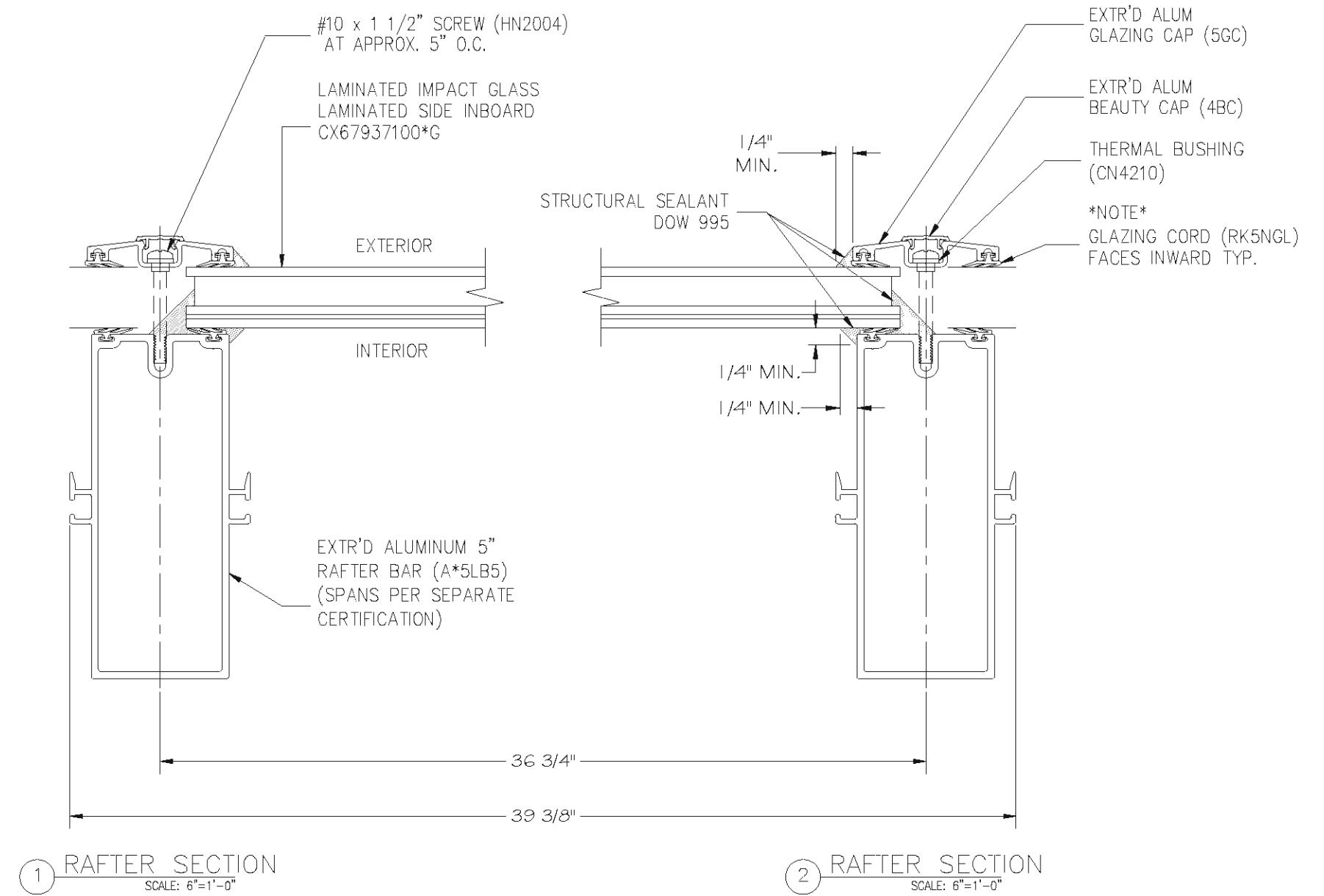
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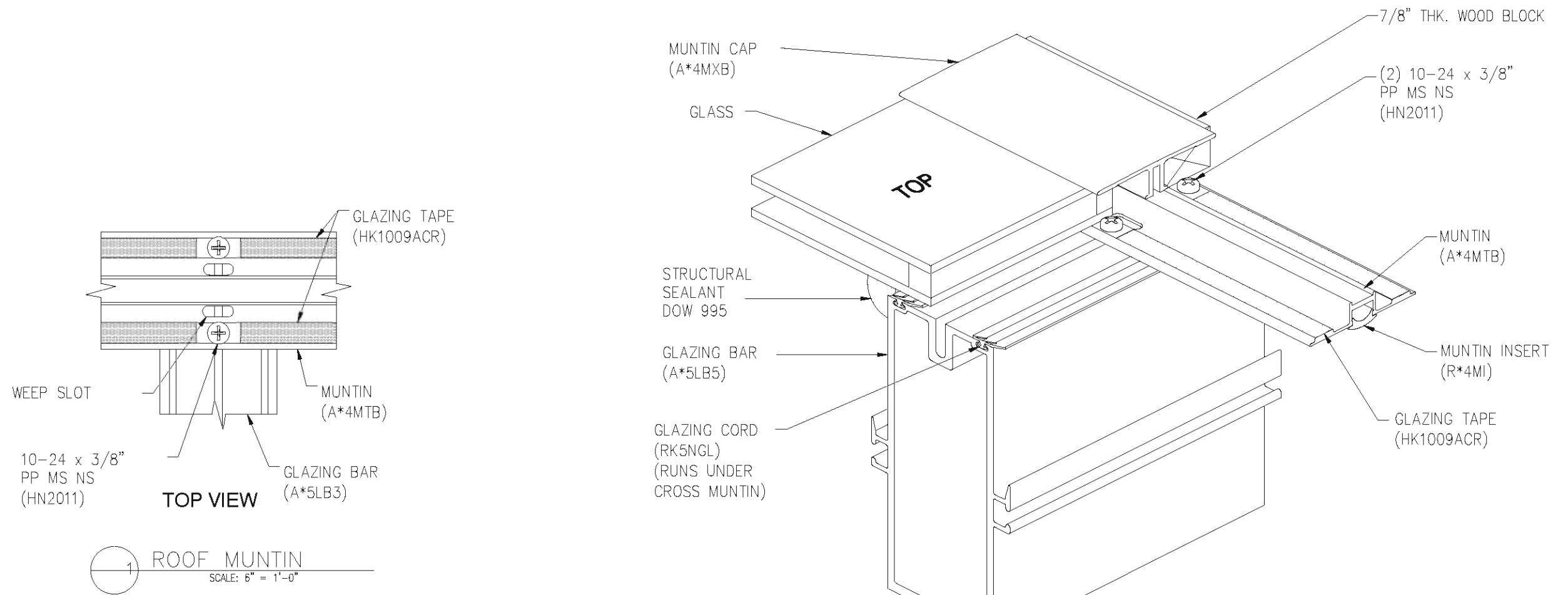
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