



3" MODULAR GABLE ROOM

GLASS WALL NON-HABITABLE SUNROOM

MASTER PLAN SHEET

****SEE SHEET 6 FOR GENERAL NOTES****

- THIS ENCLOSURE IS ONLY CERTIFIED AS **NON-HABITABLE** PER AAMA 2100
- THIS ENCLOSURE DOES NOT QUALIFY FOR MISSILE IMPACT RESISTANCE UNDER ANY CIRCUMSTANCE
- THIS ENCLOSURE MAY BE INSTALLED WITHIN OR OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ)

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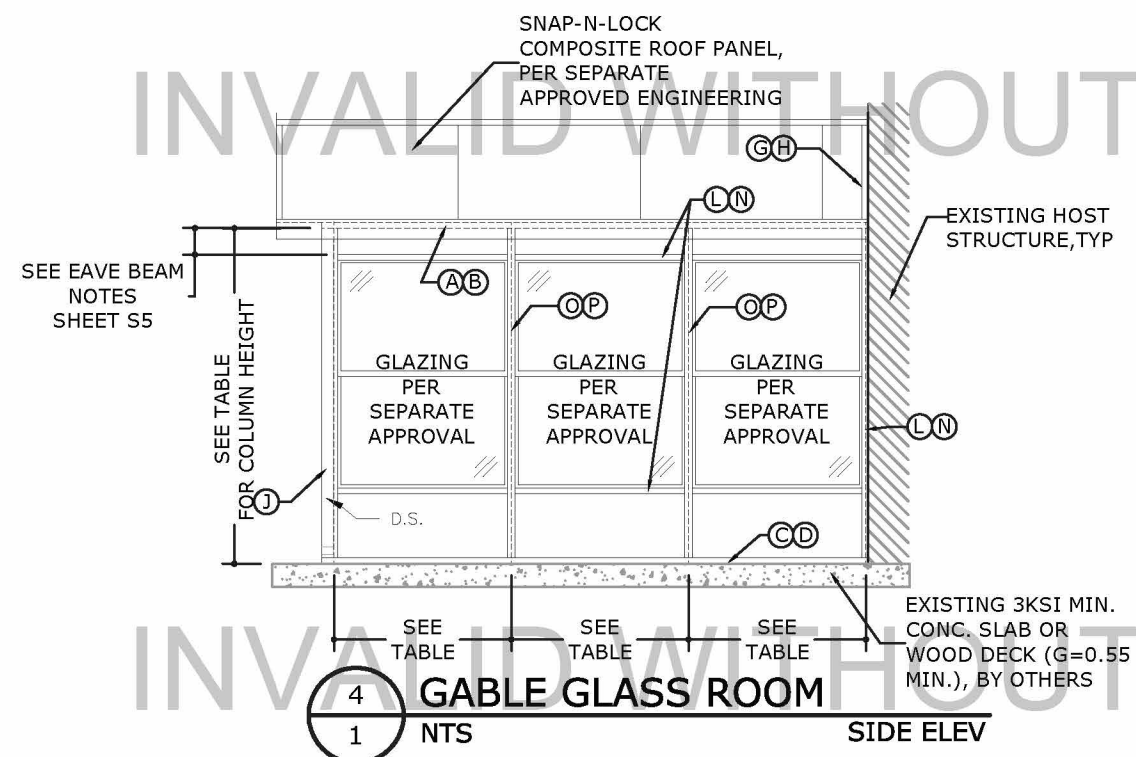
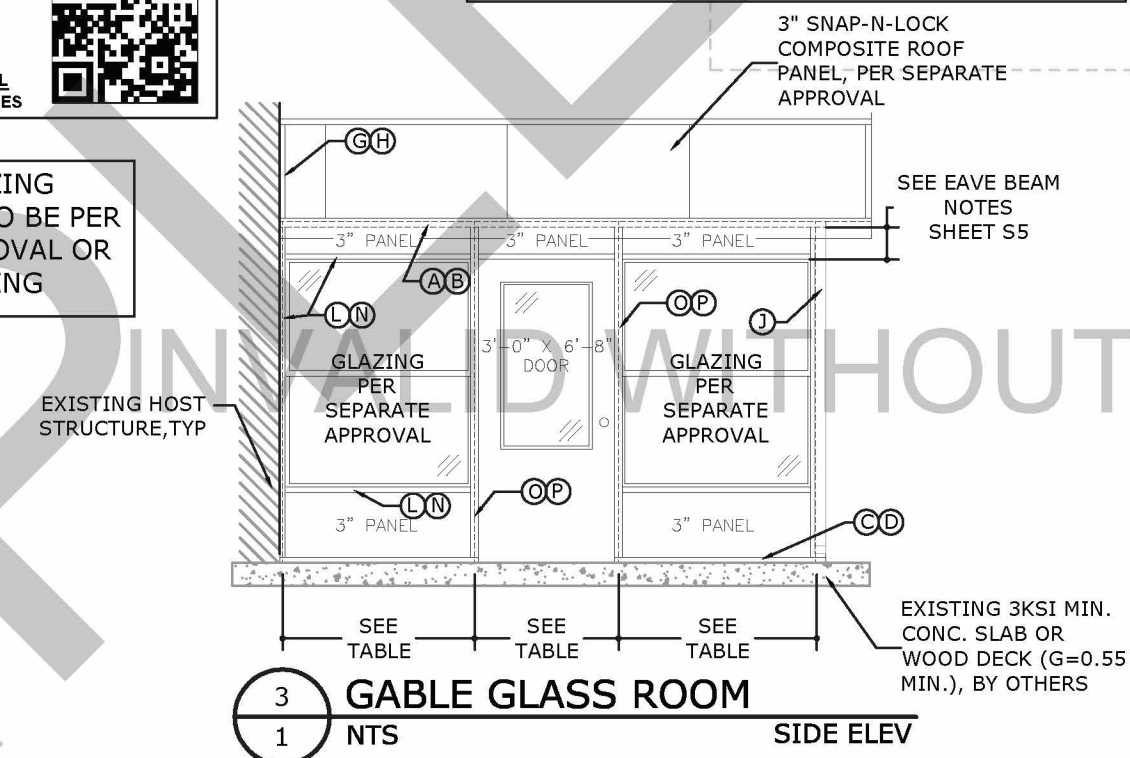
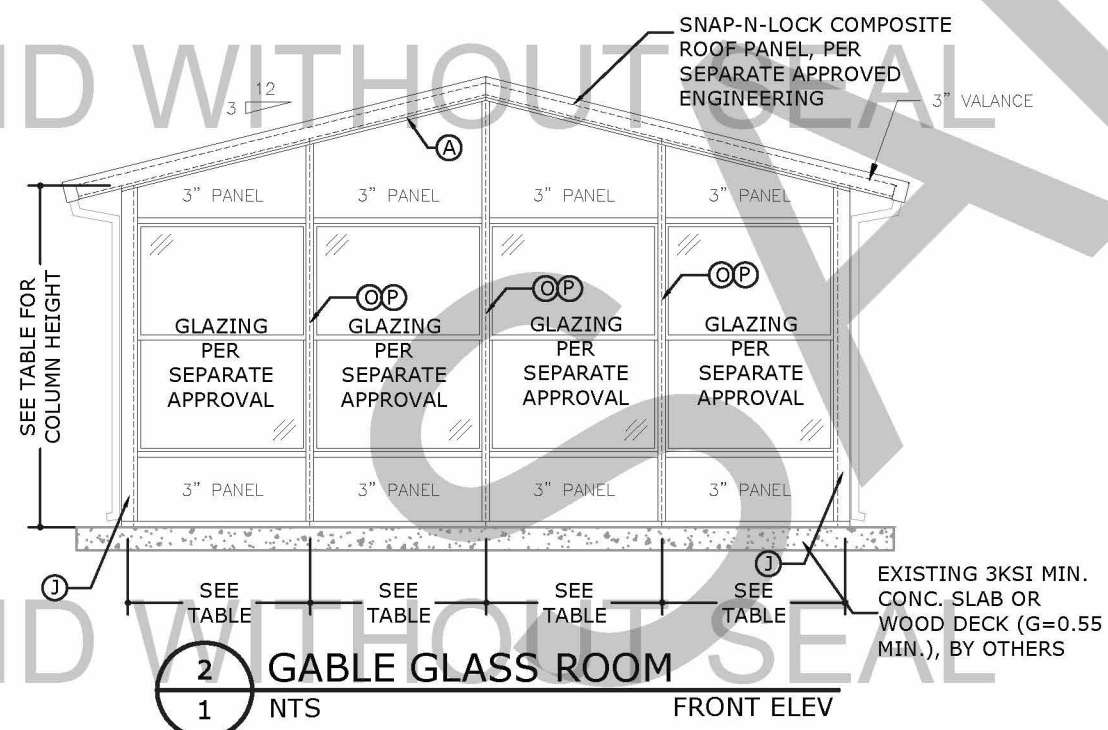
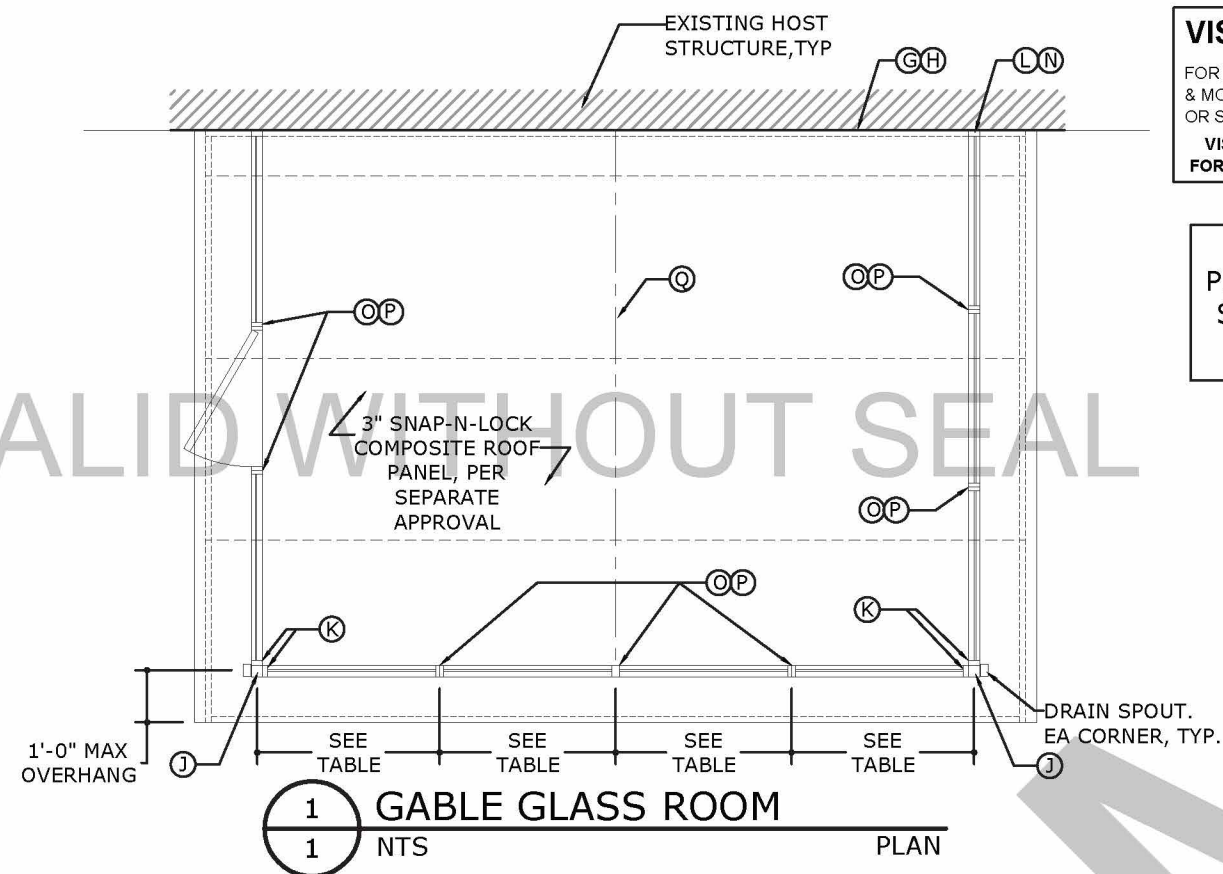
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STRUCTALL BUILDING SYSTEMS, INC.
350 BURBANK RD
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**CABLE MODULAR GLASS SUNROOM
NON-HABITABLE SPACE
MASTER PLAN SHEET**

| REMARKS | DRWN | CHKD | DATE |
|-------------|------|------|----------|
| INIT ISSUE | RN | RN | 07/23/19 |
| UPDATE 2020 | TT | FB | 06/02/20 |
| | - | - | - |
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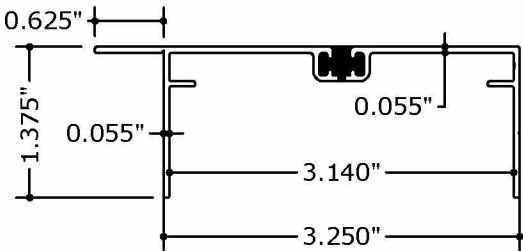
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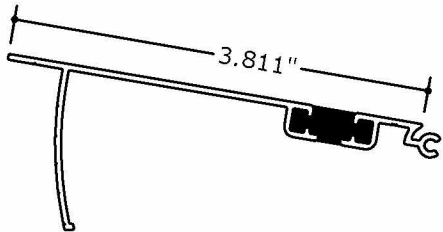
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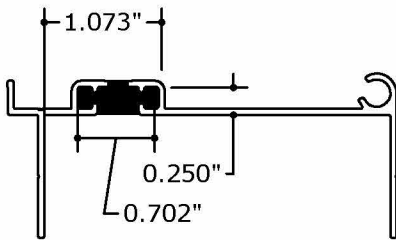
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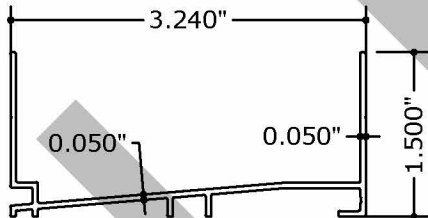
A 3" THERMO TOP CAP CHANNEL



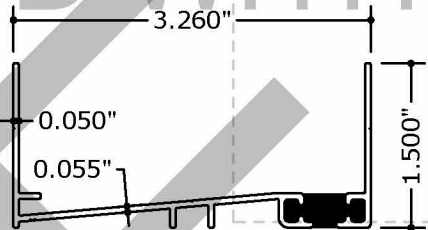
B.1 3" THERMO TOP CAP PLATE (UPPER ASSEMBLY)



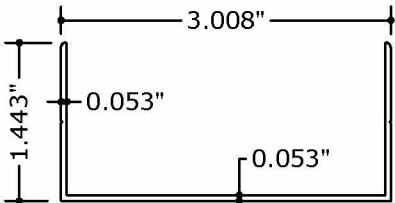
B.2 3" THERMO TOP CAP PLATE (LOWER ASSEMBLY)



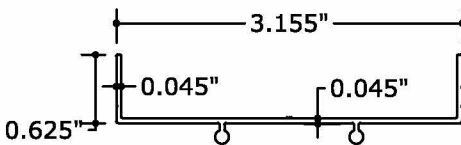
C 3" NON-THERMO BASE CHANNEL



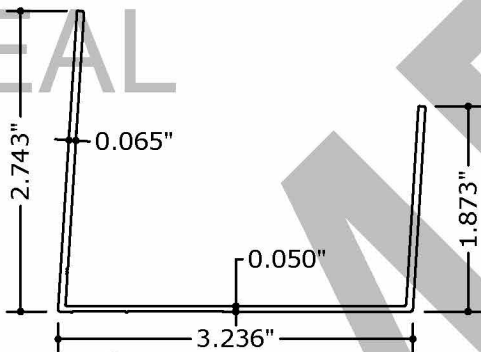
D 3" THERMO BASE CHANNEL



E 3" RECEIVING CHANNEL (ALSO USED FOR NON-THERMO TOP CAP)

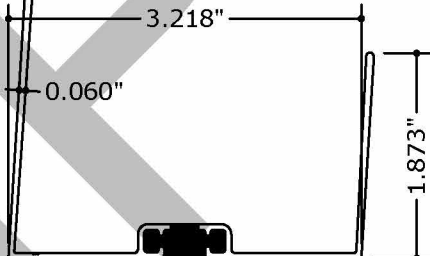


F 3" KEYED RECEIVER

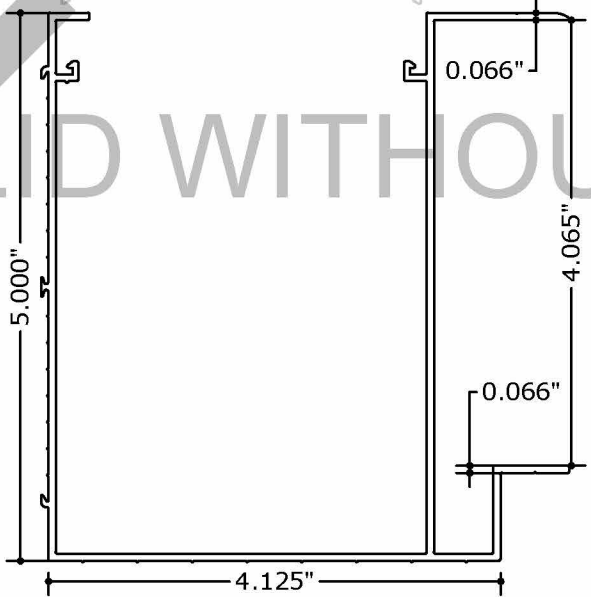


G 3" WALL NON-THERMO HEADER

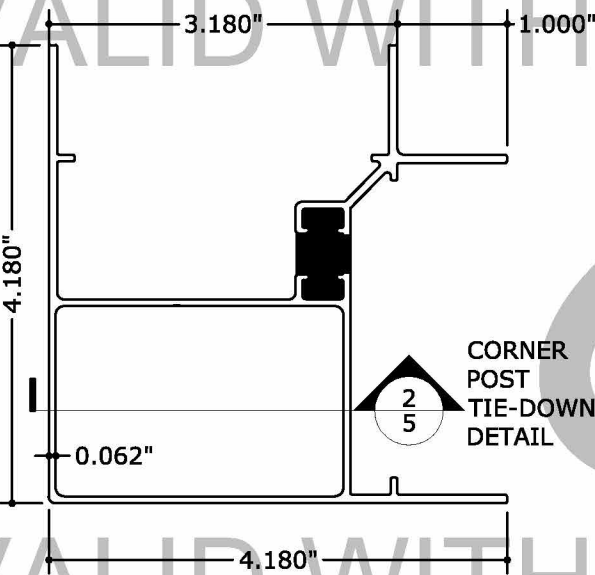
1/4" SAE GR 5 THURBOLTS MAY BE USED IN LIEU OF SEX BOLTS IN ALL CASES



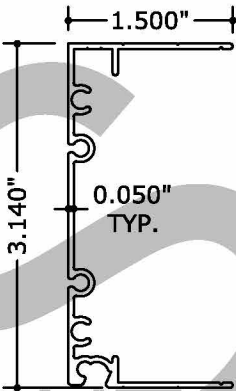
H 3" WALL THERMO HEADER



I GUTTER EXTRUSION



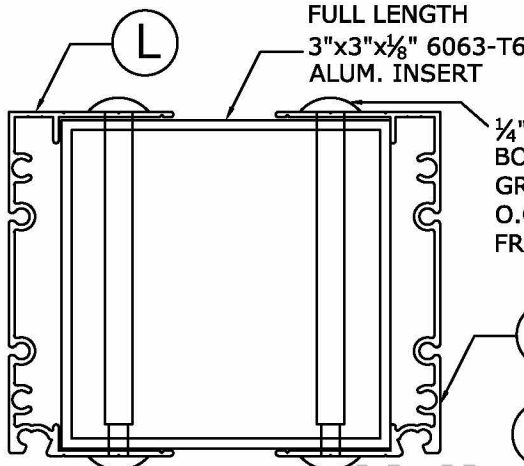
J 3" THERMO MODULAR ROOM CORNER POST



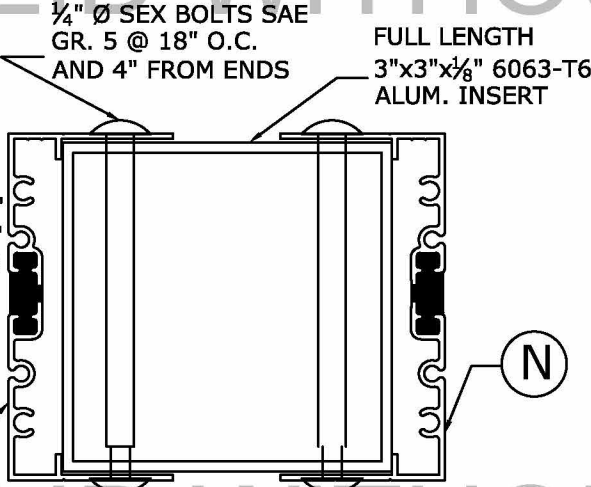
L 2"x3" NON-THERMO MODULAR ROOM FEMALE MULLION



N 2"x3" THERMO MODULAR ROOM FEMALE MULLION



O COMPLETE REINFORCED NON-THERMO MODULAR MULLION



P COMPLETE REINFORCED THERMO MODULAR MULLION

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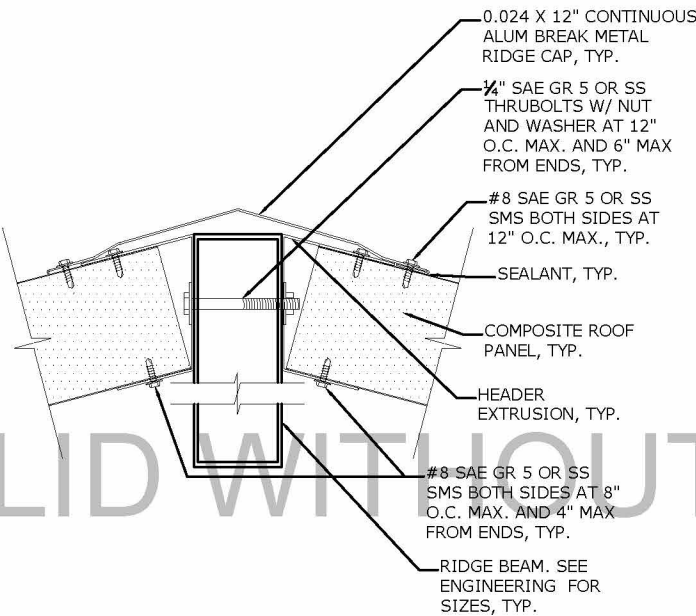
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MASTER PLAN SHEET

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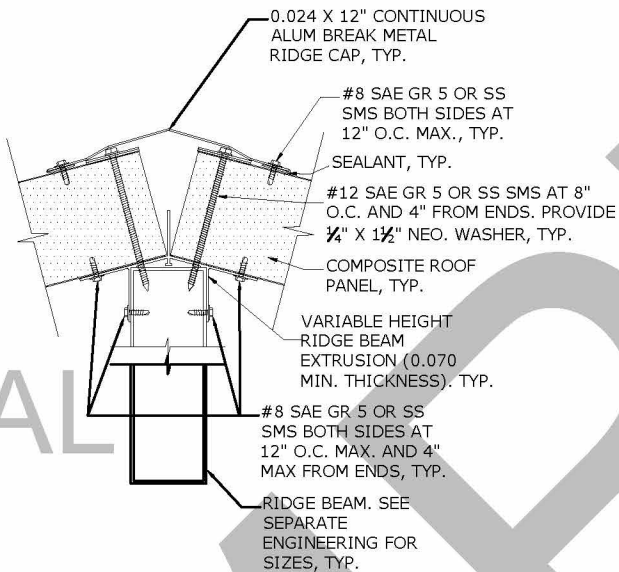
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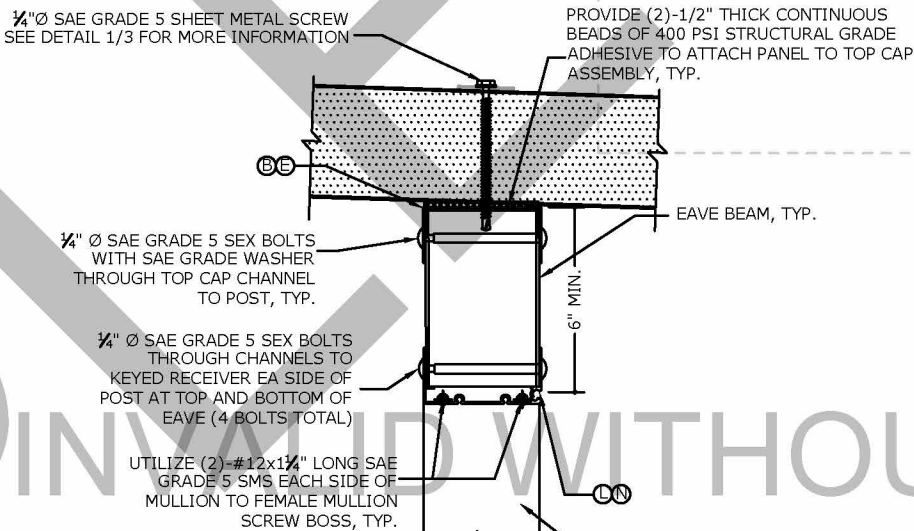
CONNECTIONS



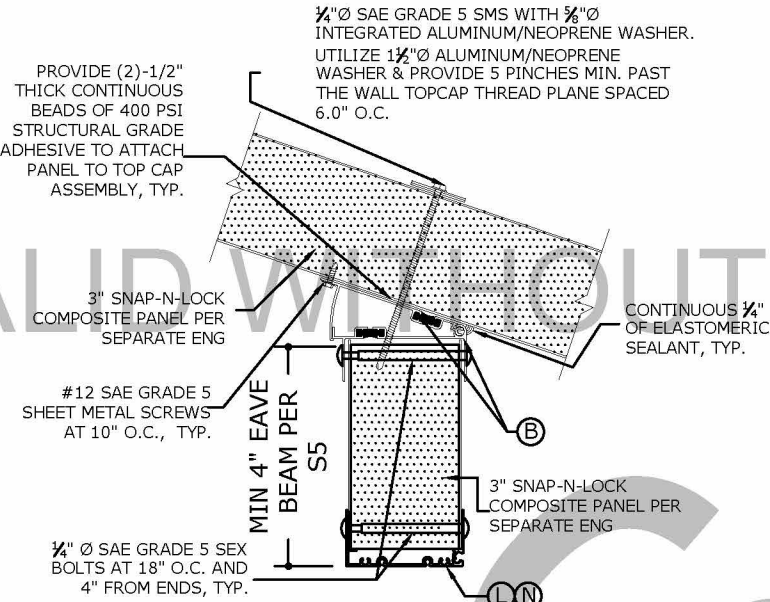
1.1 ROOF PANEL TO RIDGE BEAM
N.T.S. SECTION



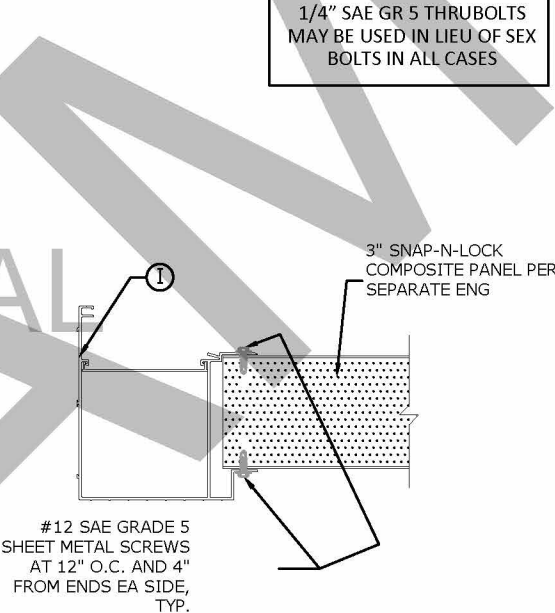
1.2 ROOF PANEL TO RIDGE BEAM
N.T.S. SECTION



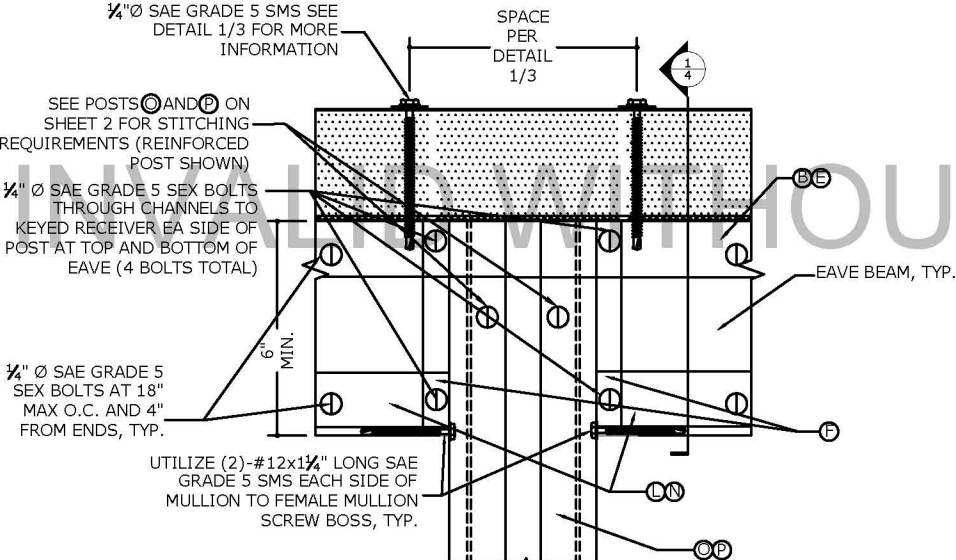
2 CONNECTION AT EAVE & POST
N.T.S. SECTION



3 ROOF TO WALL PANEL AT EAVE
N.T.S. SECTION



4 ROOF PANEL GUTTER DETAIL
N.T.S. SECTION



5 CONNECTION AT EAVE & POST
N.T.S. ELEVATION

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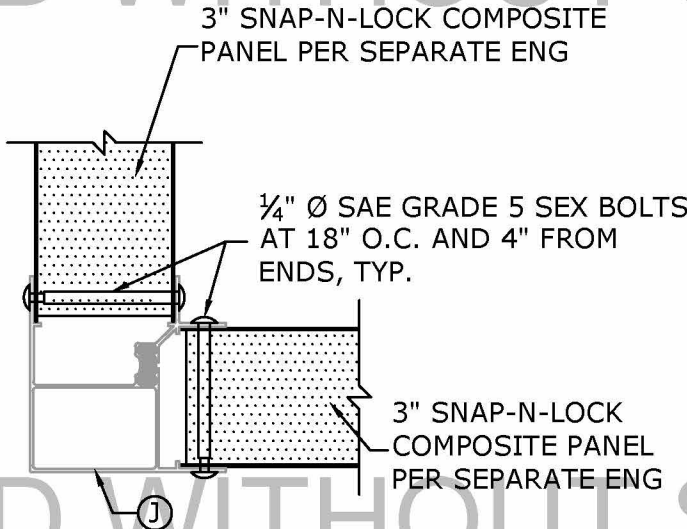
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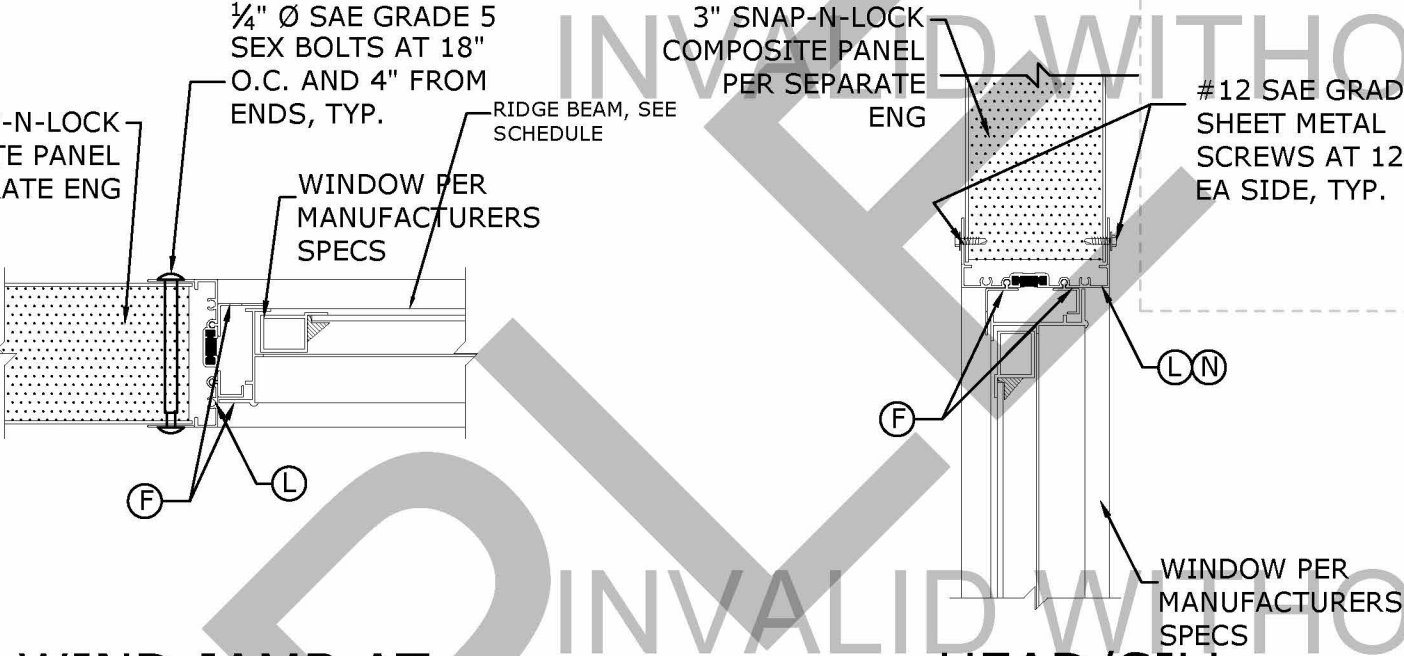
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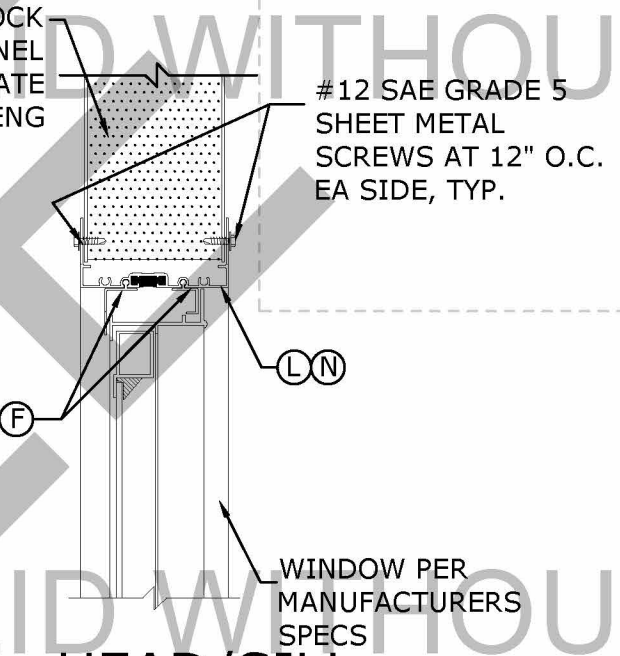
CONNECTIONS



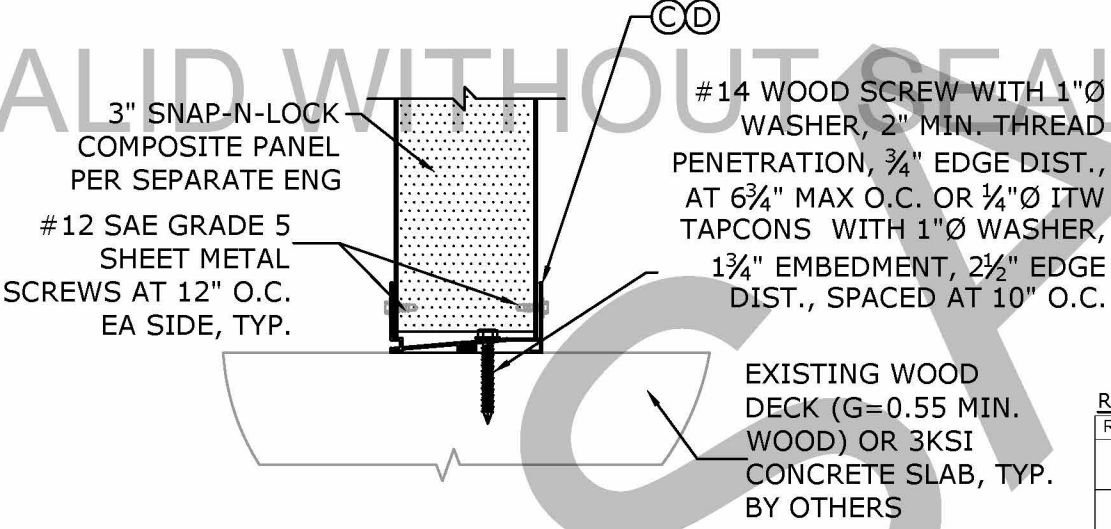
6 CORNER COLUMN DETAIL
N.T.S. PLAN



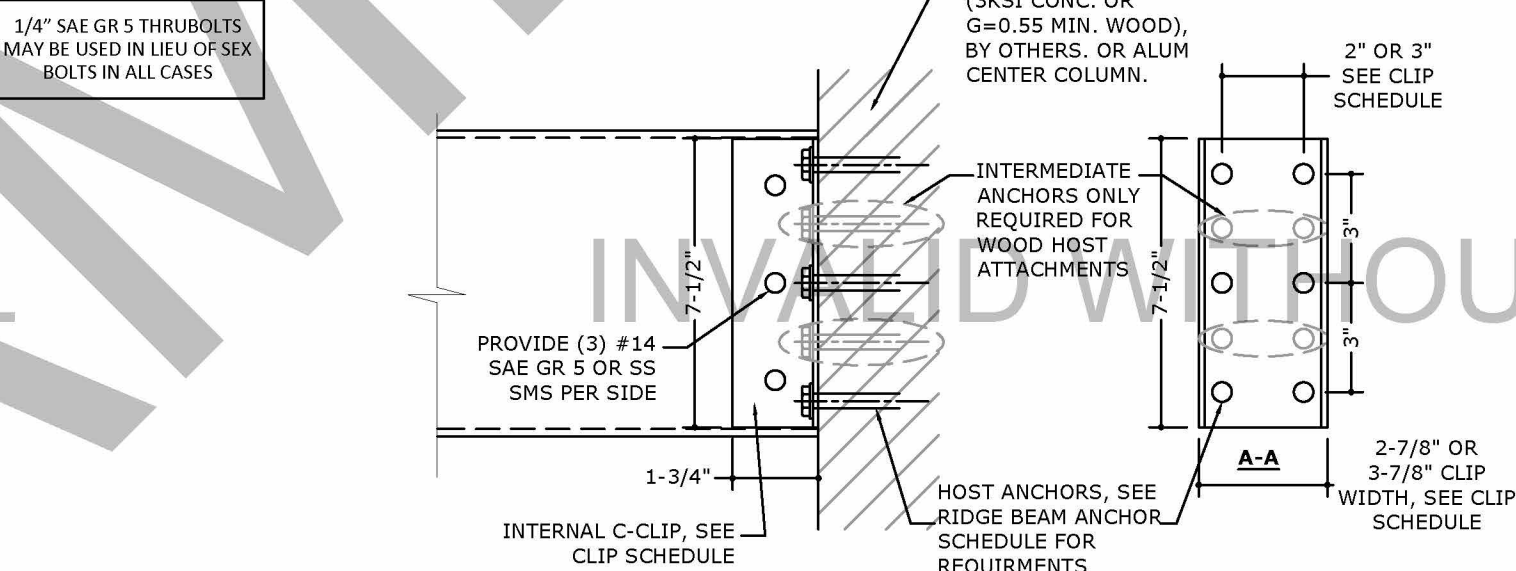
7 WIND JAMB AT PANEL FILL
N.T.S. PLAN VIEW



8 HEAD/SILL PANEL FILL
N.T.S. SECTION



9 WALL PANEL TO HOST BASE
N.T.S. SECTION



10 RIDGE BEAM END ATTACHMENT
N.T.S. SECTION

RIDGE BEAM ANCHOR SCHEDULE

| RIDGE BEAM OPTION | CLIP WIDTH | ANCHOR TYPE (TO CONCRETE) | NO. OF ANCHORS (TO CONCRETE) | ANCHOR TYPE (TO WOOD) | NO. OF ANCHORS (TO WOOD) |
|-------------------|------------|--|------------------------------|---|--------------------------|
| OPTION 1 | 2-7-8" | 1/4" ITW TAPCON W/ 1-3/4" EMBED. AND 4" EDGE DIST. | 6 | 1/4" WOOD SCREW W/ 2" MIN. THREAD PENETRATION AND 1" FROM ANY WOOD EDGE | 10 |
| OPTION 2 | 3-7/8" | 1/4" ITW TAPCON W/ 1-3/4" EMBED. AND 4" EDGE DIST. | 6 | 1/4" WOOD SCREW W/ 2" MIN. THREAD PENETRATION AND 1" FROM ANY WOOD EDGE | 10 |

* FOR RIDGE BEAM ATTACHMENT TO ALUMINUM CENTER COLUMN, PROVIDE (6) #14 SAE GR 5 OR SS SMS PER THE ABOVE DETAIL

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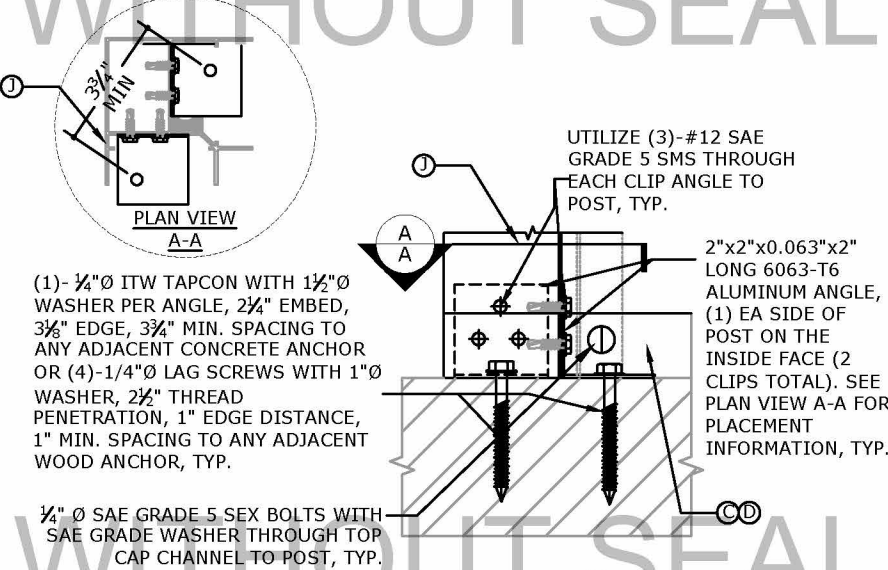
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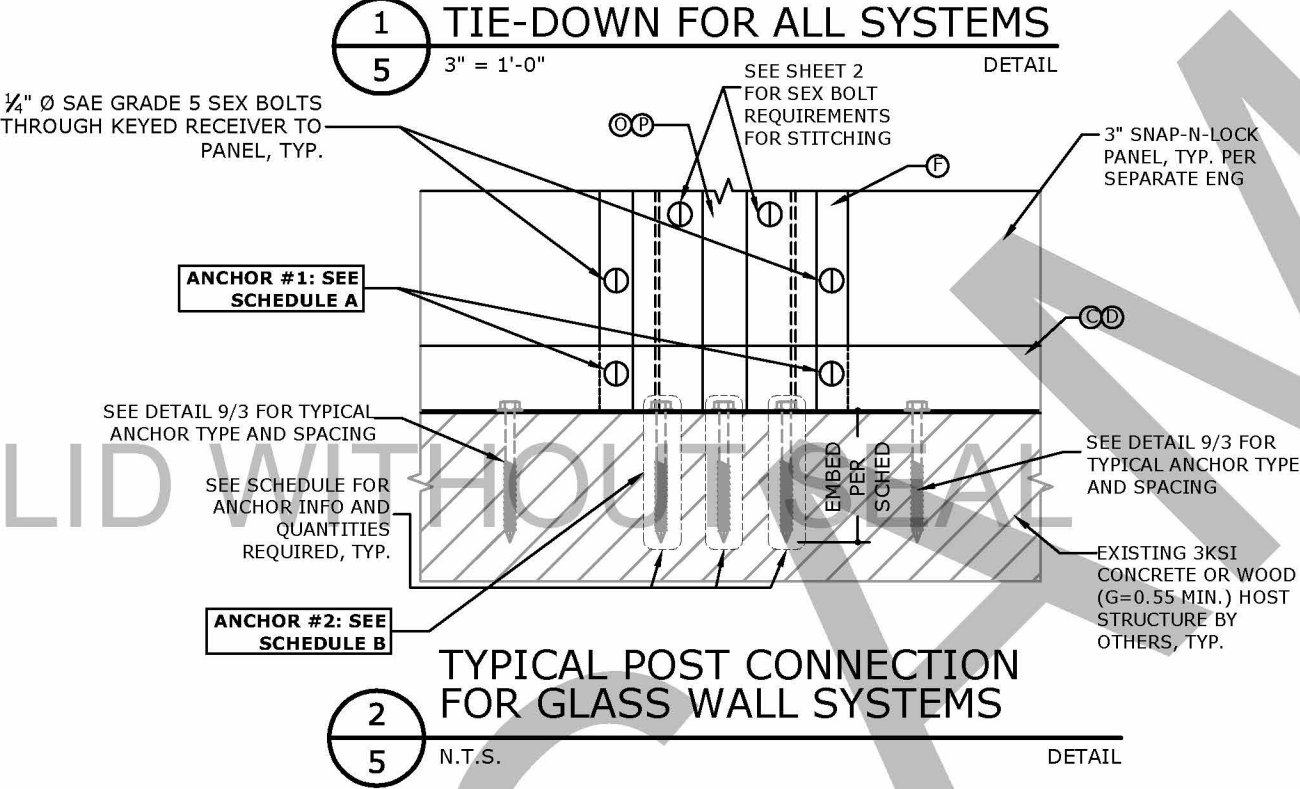
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POST CONNECTION

1/4" SAE GR 5 THRUBOLTS
MAY BE USED IN LIEU OF SEX
BOLTS IN ALL CASES



TYPICAL CORNER POST
TIE-DOWN FOR ALL SYSTEMS



TYPICAL POST CONNECTION
FOR GLASS WALL SYSTEMS

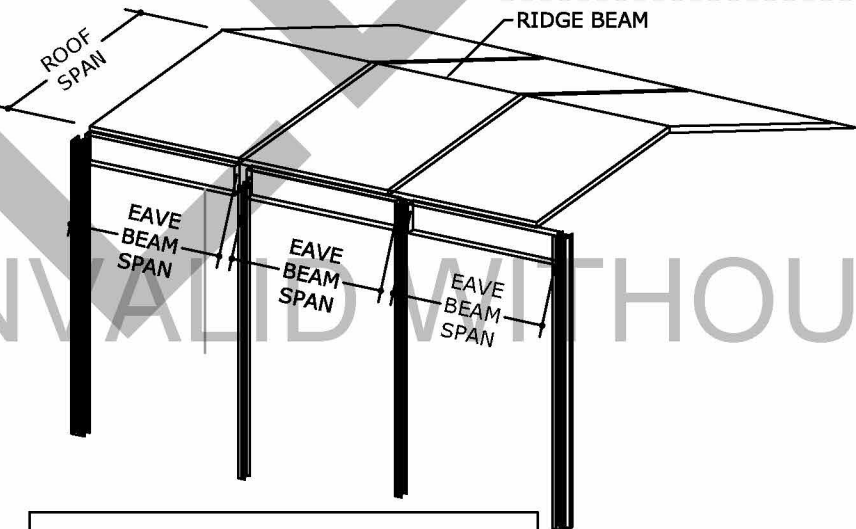
ANCHOR TYPE #1 SCHEDULE A:

| WIND TIER | ANCHOR TYPE | DESCRIPTION |
|--------------|-------------|--|
| UP TO 25 PSF | 1 | (2)-3/8" SAE GRADE 5 SEX BOLT WITH 3/8" SAE GRADE WASHER |

ANCHOR TYPE #2 SCHEDULE B:

| WIND TIER | ANCHOR 2 SUBSTRATE | QUANTITY REQUIRED |
|--------------|------------------------|---|
| UP TO 25 PSF | CONNECTION AT CONCRETE | (2)-3/8" ITW TAPCONS WITH 1 1/2" WASHER, 2 1/2" EMBED, 3" EDGE, 4" SPACING, TYP. |
| | CONNECTION AT WOOD | (4)-1/4" LAG SCREWS 1 1/2" WASHER, 2 1/2" THREAD PENETRATION, 1" EDGE, 1" SPACING |

EAVE BEAM CLEAR SPAN
ISOMETRIC DETAIL*



* GLAZING NOT SHOWN
FOR CLARITY

EAVE-BEAM
SPACING ISOMETRIC

4
5

N.T.S. ISOMETRIC

EAVE BEAM SPANS:

4" MIN. PANEL DEPTH:
EAVE BEAM SPAN= 5'-0" UP TO 50PSF
EAVE BEAM SPAN= 6'-0" UP TO 40PSF
MAX ALLOWABLE CLEAR ROOF SPAN= 12'-0"

8" OR GREATER PANEL DEPTH:
EAVE BEAM SPAN= 6'-0" UP TO 60PSF
AT 20' CLEAR ROOF SPAN

SITE SPECIFIC ENGINEERING FOR ADDITIONAL SPANS
DEFLECTION LIMIT = L/180.

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NOTES:

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 STRUCTURAL REQUIREMENTS OF THE 2015/2018 IBC/IRC, 2017 (6th EDN) & 2020 (7th EDN) FLORIDA BUILDING CODE AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS ARE LISTED THEN MOST STRINGENT APPLIES. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 CODES FOR SITE SPECIFIC APPLICATIONS AS APPLICABLE.

ENCLOSURE MAXIMUM MEAN (AVERAGE) ROOF HEIGHT= 15'
ROOF LIVE LOAD: 20 PSF TO 40 PSF PER TABLE
ROOF DEAD LOAD: 2 PSF USED IN TABLE

*THIS DOCUMENT DOES **NOT** CERTIFY PRODUCT FOR USE AS A HABITABLE STRUCTURE. AAMA 2100 SUNROOM CLASSIFICATION II, III, OR IV ONLY.

GENERAL NOTES:

1. STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
3. THE ARCHITECT/ENGINEER OF RECORD OR PERMITTING CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES.
4. THE HOST STRUCTURE SHALL NOT BE MODIFIED WITH THIS DESIGN - ALL EXISTING WINDOWS, DOORS, AND WALLS SHALL REMAIN IN PLACE. WHERE IMPACT PROTECTION IS REQUIRED, IT SHALL BE PLACED AT THE HOST STRUCTURE, NOT ON THE SUNROOM.

ANCHORAGE

5. ALL FASTENERS TO BE #12 OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
6. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
7. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.

MATERIALS

8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
9. ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
10. ALL CONCRETE TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS.
11. ANY WOOD USED IN A PRIMARY CONNECTION SHALL BE SYP#2 OR BETTER.

OTHER

12. ENGINEER SEAL AFFIXED HERETO 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.
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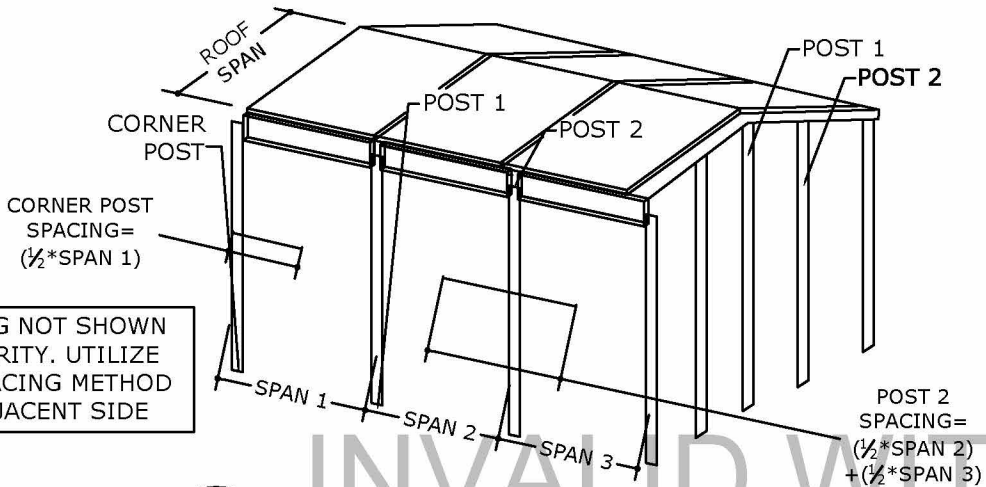
POST ALLOWABLE SPAN HEIGHTS

| POST TYPE | Wind Load PSF | Roof Load PSF | AVERAGE C/C POST SPACING | | | |
|--|------------------|------------------|--------------------------|---------|--------|--------|
| | | | 2'-0" | 3'-0" | 4'-0" | 5'-0" |
| 3" MOD ROOM (FEMALE + FEMALE) w/ 3x3 INSERT | 20 | 20 | 12'-0" | 12'-0" | 12'-0" | 11'-5" |
| | | 30 | 12'-0" | 12'-0" | 12'-0" | 11'-5" |
| | | 40 | 12'-0" | 12'-0" | 12'-0" | 11'-5" |
| | 30 | 20 | 12'-0" | 11'-10" | 10'-9" | 9'-12" |
| | | 30 | 12'-0" | 11'-10" | 10'-9" | 9'-12" |
| | | 40 | 12'-0" | 11'-10" | 10'-9" | 9'-12" |
| 3" THERMO MOD ROOM (FEMALE + FEMALE) w/ 3x3 INSERT | 20 | 20 | 12'-0" | 12'-0" | 12'-0" | 11'-5" |
| | | 30 | 12'-0" | 12'-0" | 12'-0" | 11'-5" |
| | | 40 | 12'-0" | 12'-0" | 12'-0" | 11'-5" |
| | 30 | 20 | 12'-0" | 11'-10" | 10'-9" | 9'-12" |
| | | 30 | 12'-0" | 11'-10" | 10'-9" | 9'-12" |
| | | 40 | 12'-0" | 11'-10" | 10'-9" | 9'-12" |
| THERMO MOD ROOM CORNER POST | 20 | 20 | 12'-0" | 12'-0" | 11'-4" | 10'-2" |
| | | 30 | 12'-0" | 12'-0" | 11'-4" | 10'-2" |
| | | 40 | 12'-0" | 12'-0" | N/A | N/A |
| | 30 | 20 | 12'-0" | 10'-8" | 9'-3" | 8'-3" |
| | | 30 | 12'-0" | 10'-8" | 9'-3" | 8'-3" |
| | | 40 | 12'-0" | 10'-8" | 9'-3" | 8'-3" |

TABLE NOTES:

1. SPANS APPLY TO MORE CRITICAL LOAD BEARING SIDE OF ENCLOSURE.
2. ROOF LIVE LOAD CONSIDERS COMPRESSION ON POST UP TO 20' TOTAL ROOF SUPPORTING SPAN & LISTED AVERAGE COLUMN SPACING.
3. SPANS FOR THERMALLY BROKEN POSTS SHALL BE REDUCED BY 10%.
4. DEFLECTION LIMIT = L/180.
5. VALUES BELOW ALLOWABLE CEILING HEIGHT OR POST HEIGHT MAY BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
6. LOADING CRITERIA CONSIDERED IS THE GOVERNING CASE OF THE FOLLOWING SCENARIOS:
 - 6.1. 2PSF ROOF DEAD LOAD & 20 PSF-40 PSF SOLID ROOF LIVE LOAD USED IN TABLES
 - 6.2. WALL WIND LOADS TO BE APPLIED PER ASCE 7-10 OR ASCE 7-16 C&C METHOD (THESE ARE PERFORMANCE TABLES).

AVERAGE POST SPACING DEFINED *



1 POST SPACING ISOMETRIC
6 N.T.S. ISOMETRIC

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GABLE MODULAR GLASS ROOM
MASTER PLAN SHEET

| REMARKS | DRWN/CHKD | DATE |
|-------------|-----------|----------|
| INIT ISSUE | RN | 07/23/19 |
| UPDATE 2020 | TT | 06/02/20 |

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SCALE: NTS UNLESS NOTED

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