

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC & 2006 IRC WITH STATE OF TEXAS MODIFICATIONS.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: ALUMINUM 6063-T6
6. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 11 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

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<b>SOLAR INNOVATIONS, INC.</b> 31 ROBERTS RD PINE GROVE, PA 17963		
SI 3350 FGW 3X8 PANEL 90° CORNER NO POST FOLDING GLASS WALL – IMPACT NOTES		
DRAWN: N.G.	DWG NO. 08-02654	REV -
SCALE NTS	DATE 03/23/15	SHEET 1 OF 16

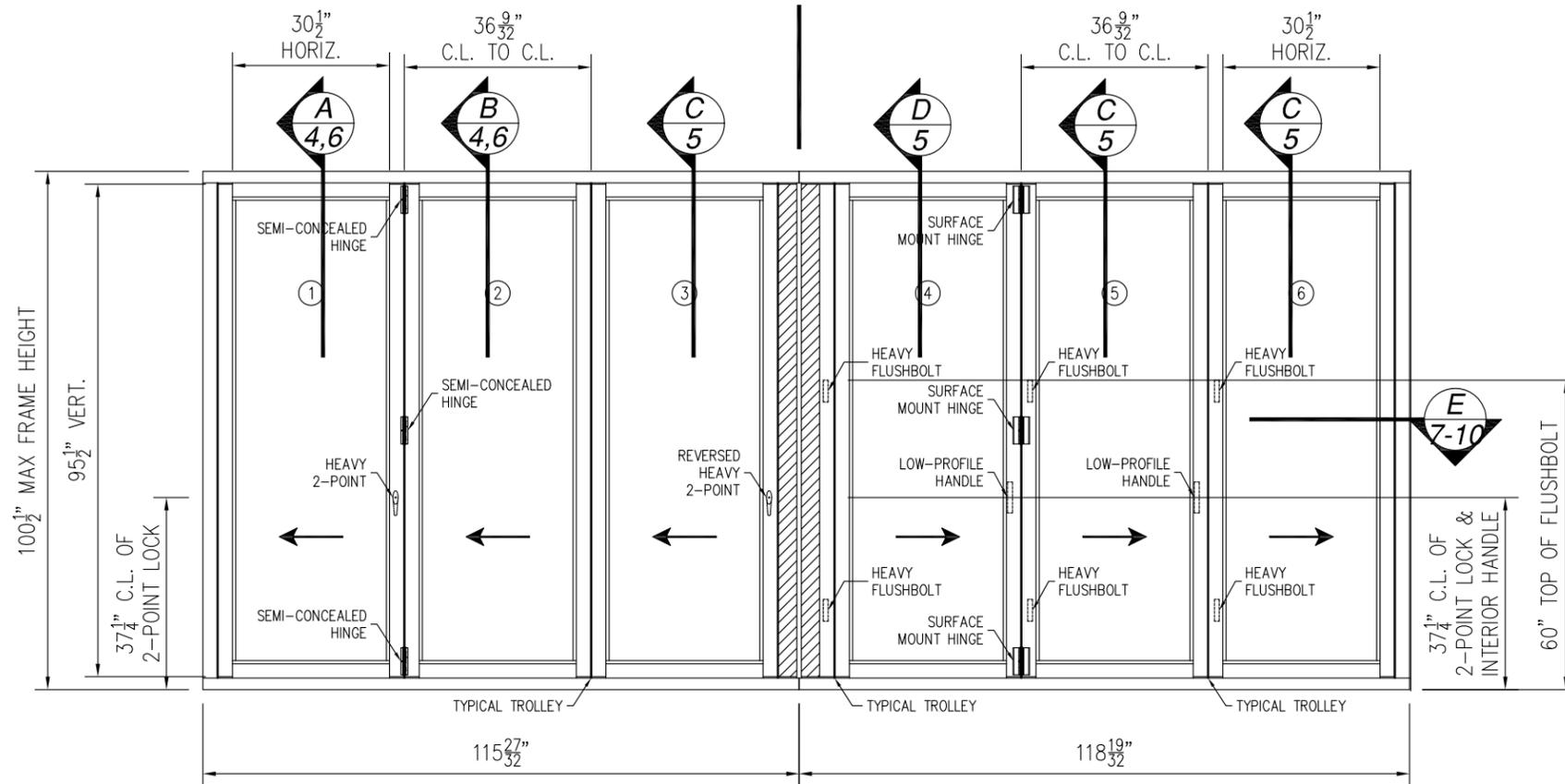
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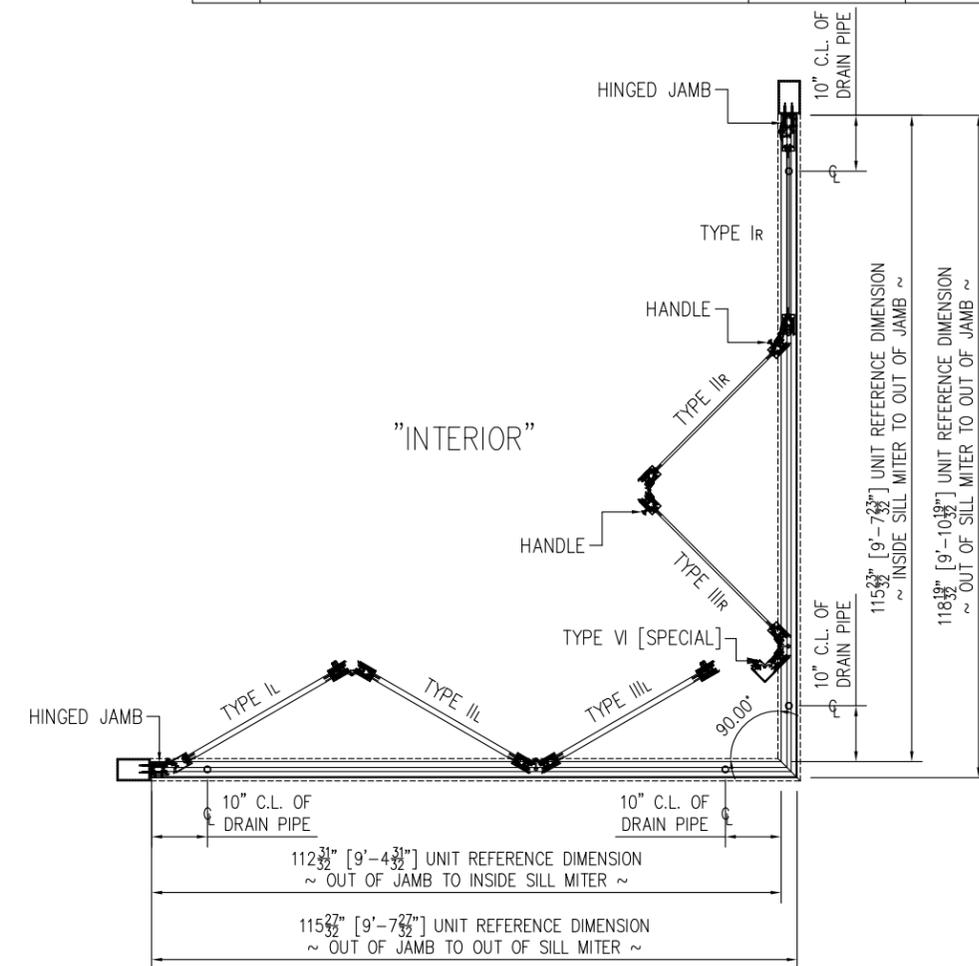
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Texas No. 101889

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B	ADDED NON-THERMAL PANELS	04/30/14	R.L.

**90° CORNER**



**SI 3350 FGW 3X8 PANEL 90° CORNER NO POST INFOLD**  
EXTERIOR VIEW



**SI 3350 FGW 3X8 PANEL 90° CORNER NO POST INFOLD**  
PLAN VIEW

DESIGN PRESSURE RATING	IMPACT RATING
<b>±80.0PSF</b>	<b>LARGE AND SMALL MISSILE IMPACT</b>

MISSILE LEVEL D, WIND ZONE 4

**HARDWARE SCHEDULE**

A. SEMI- CONCEALED HINGE BY SOLAR INNOVATIONS
B 2 POINT HANDLE & LOCK MS000487-XX BY SOLAR INNOVATIONS
C HEAVY FLUSH BOLTS MD000442-00-XX BY SOLAR INNOVATIONS

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31 ROBERTS RD  
PINE GROVE, PA 17963

SI 3350 FGW 3X8 PANEL 90° CORNER  
NO POST FOLDING GLASS WALL – IMPACT  
ELEVATION

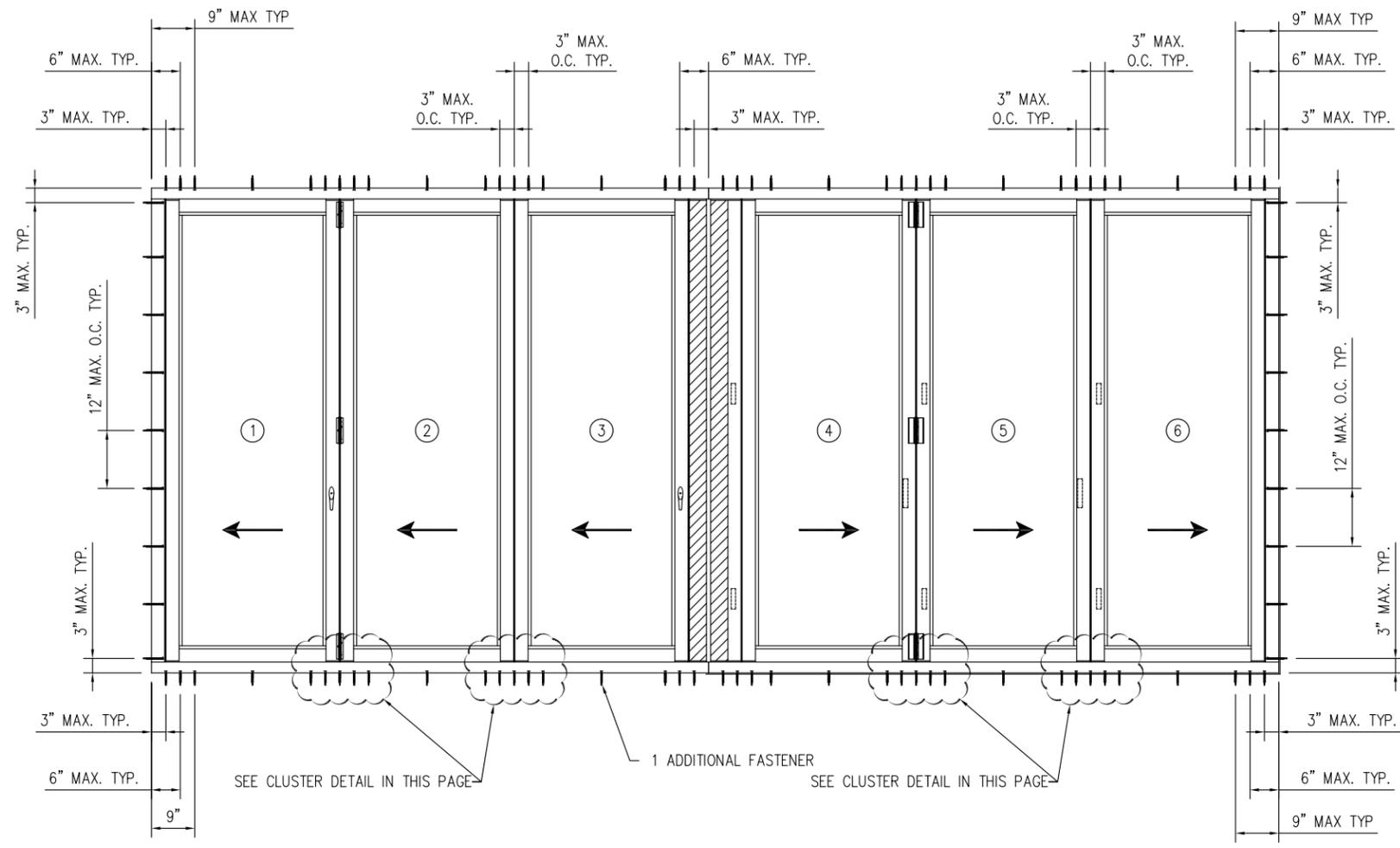
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SCALE NTS	DATE 03/23/15	SHEET 2 OF 16

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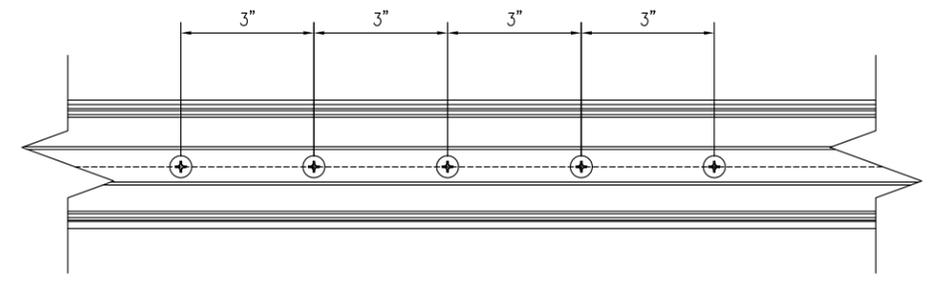


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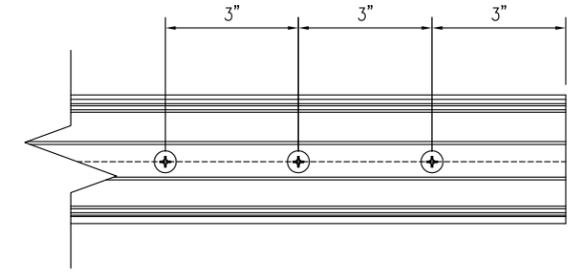
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**ANCHOR LAYOUT**  
 APPLICABLE TO ALL CONFIGURATIONS.



SILL AND HEAD  
 CLUSTER DETAIL



SILL AND HEAD  
 END DETAIL

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SCALE NTS	DATE 03/23/15	SHEET 3 OF 16

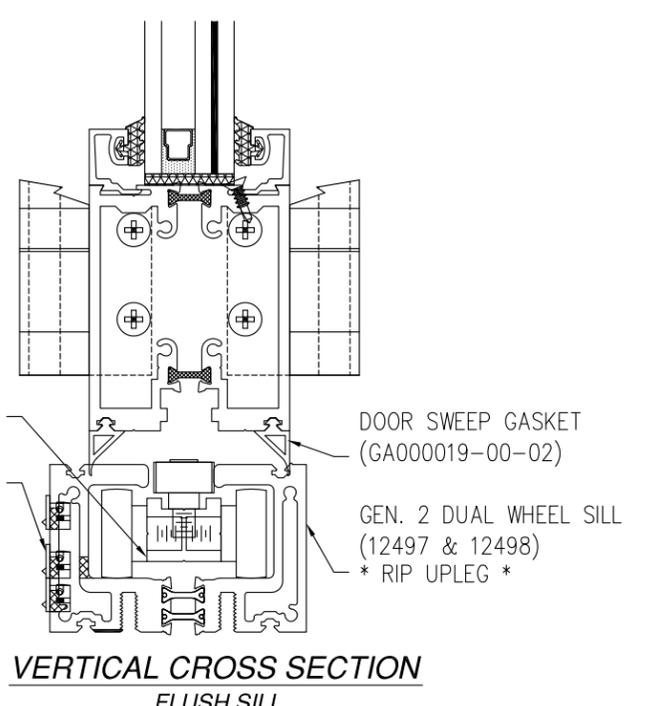
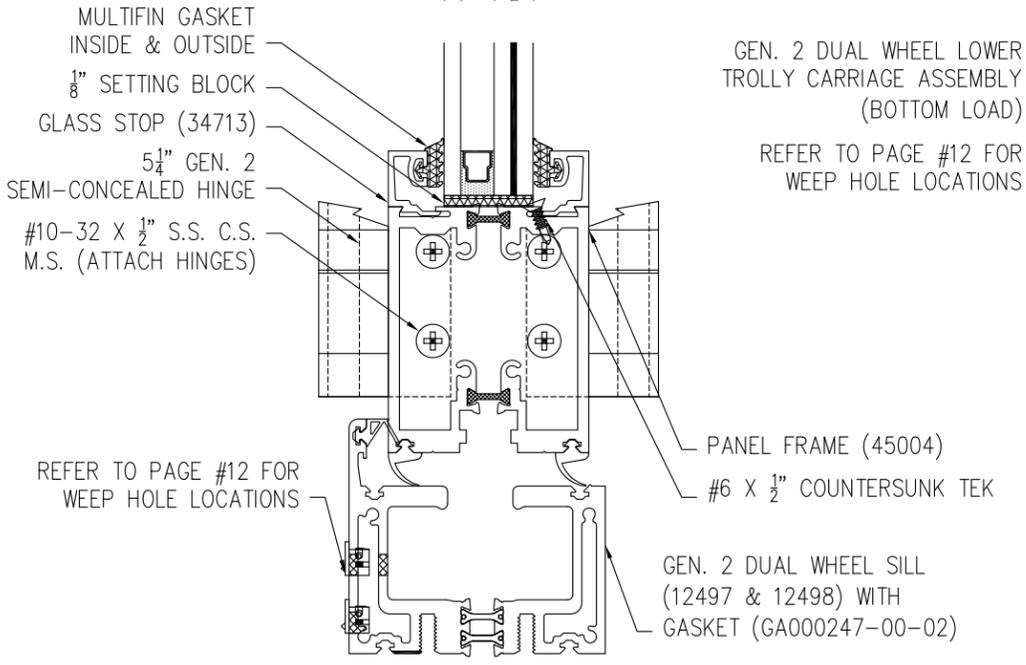
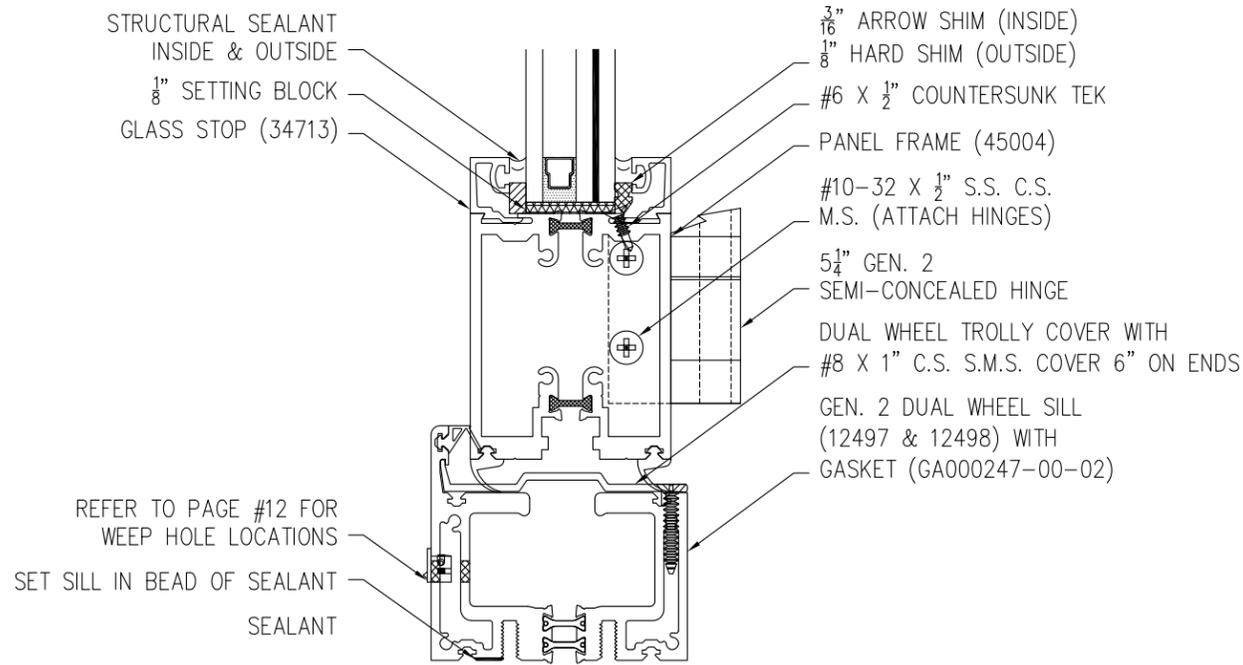
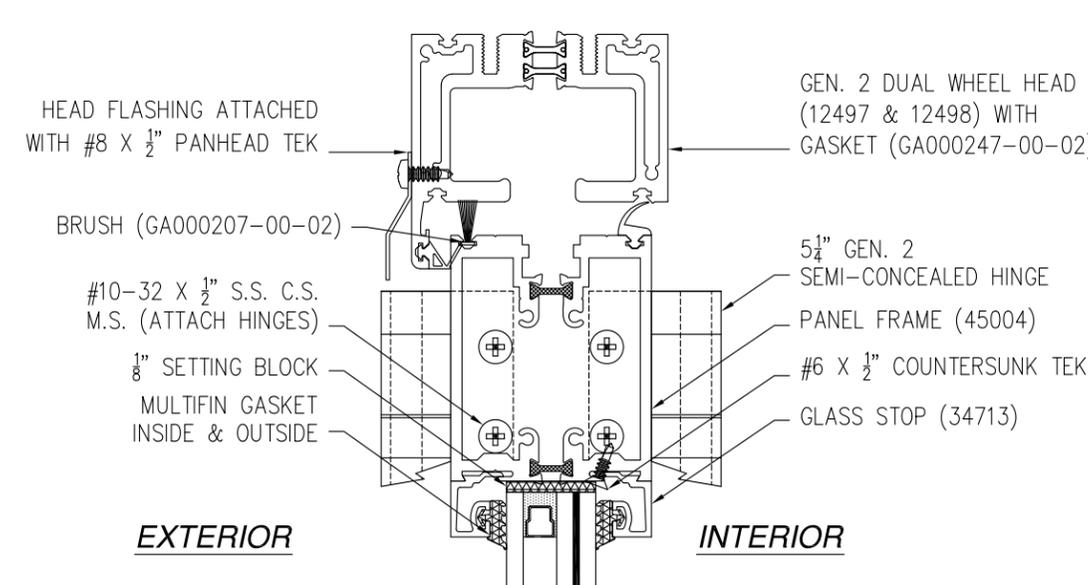
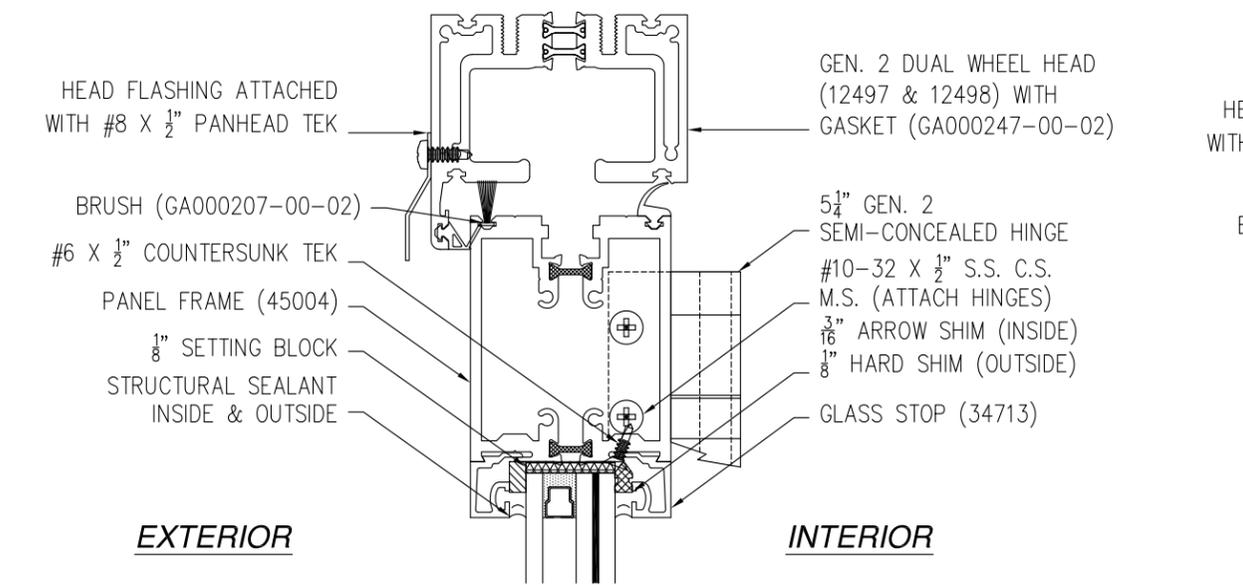
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**A**  
4  
**VERTICAL CROSS SECTION**  
WET GLAZED

**B**  
4  
**VERTICAL CROSS SECTION**  
DRY GLAZED

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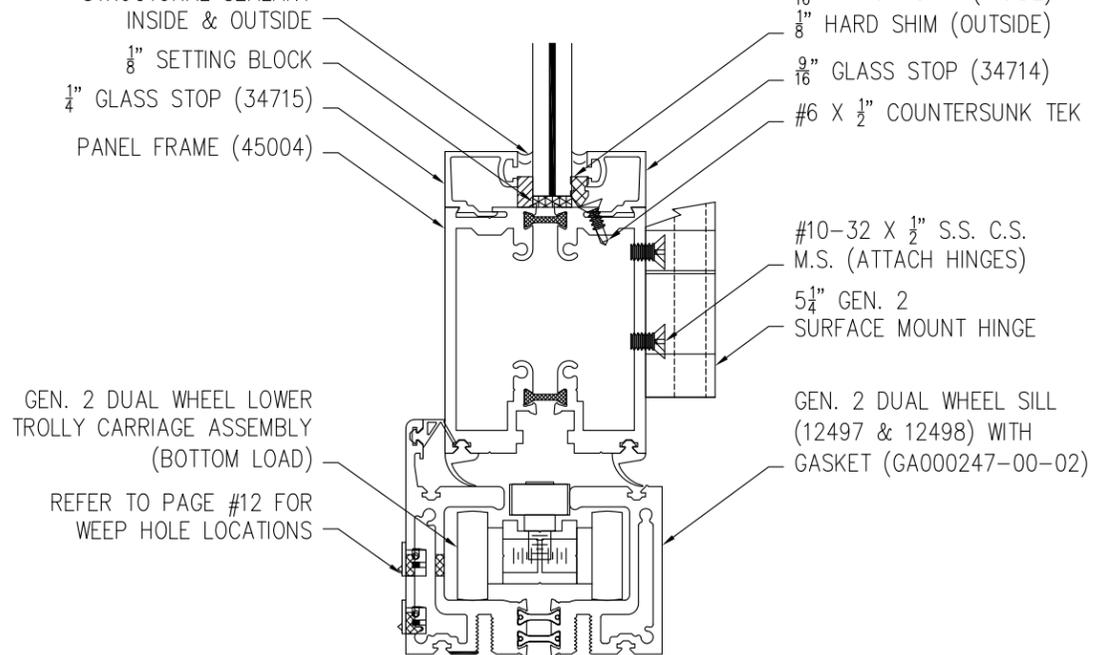
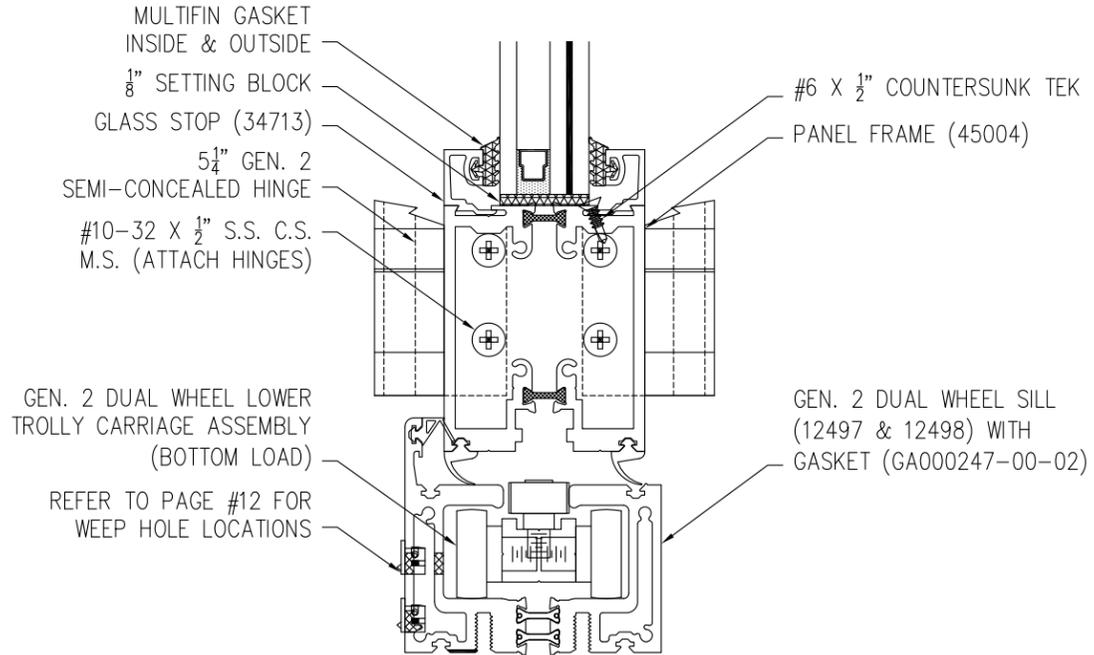
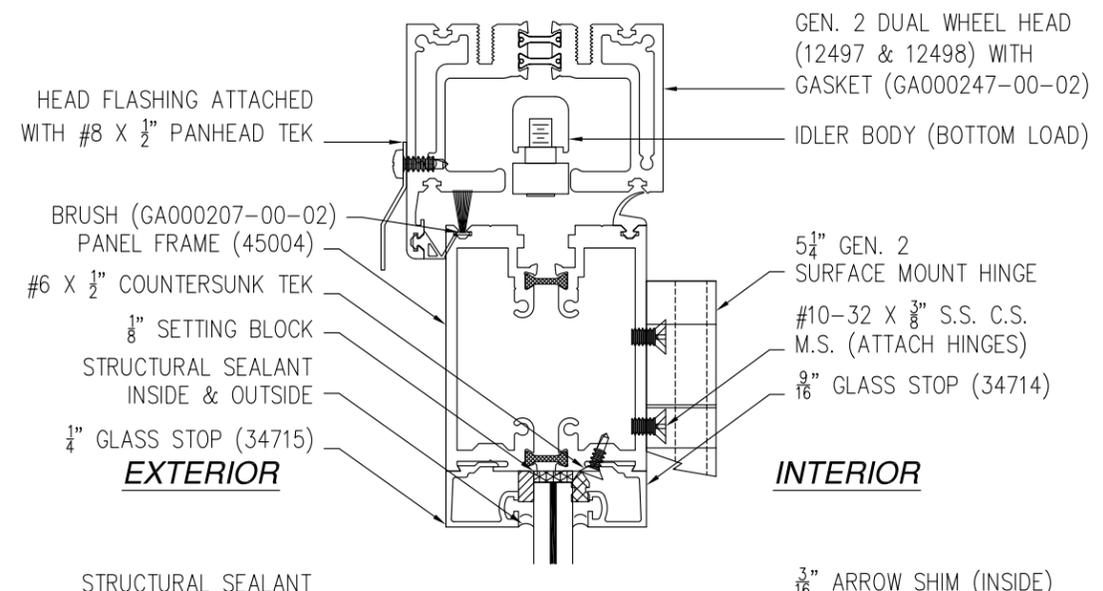
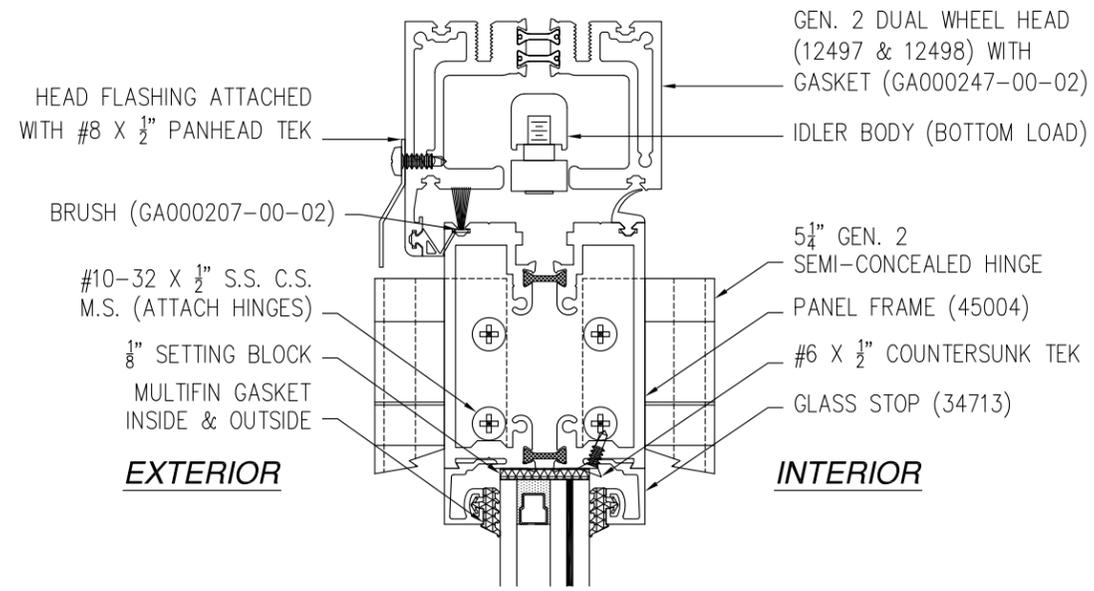
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31 ROBERTS RD PINE GROVE, PA 17963		
SI 3350 FGW 3X8 PANEL 90° CORNER NO POST FOLDING GLASS WALL – IMPACT VERTICAL CROSS SECTIONS		
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**C**  
5  
**VERTICAL CROSS SECTION**  
DRY GLAZED BOTTOM LOAD

**D**  
5  
**VERTICAL CROSS SECTION**  
WET GLAZED BOTTOM LOAD

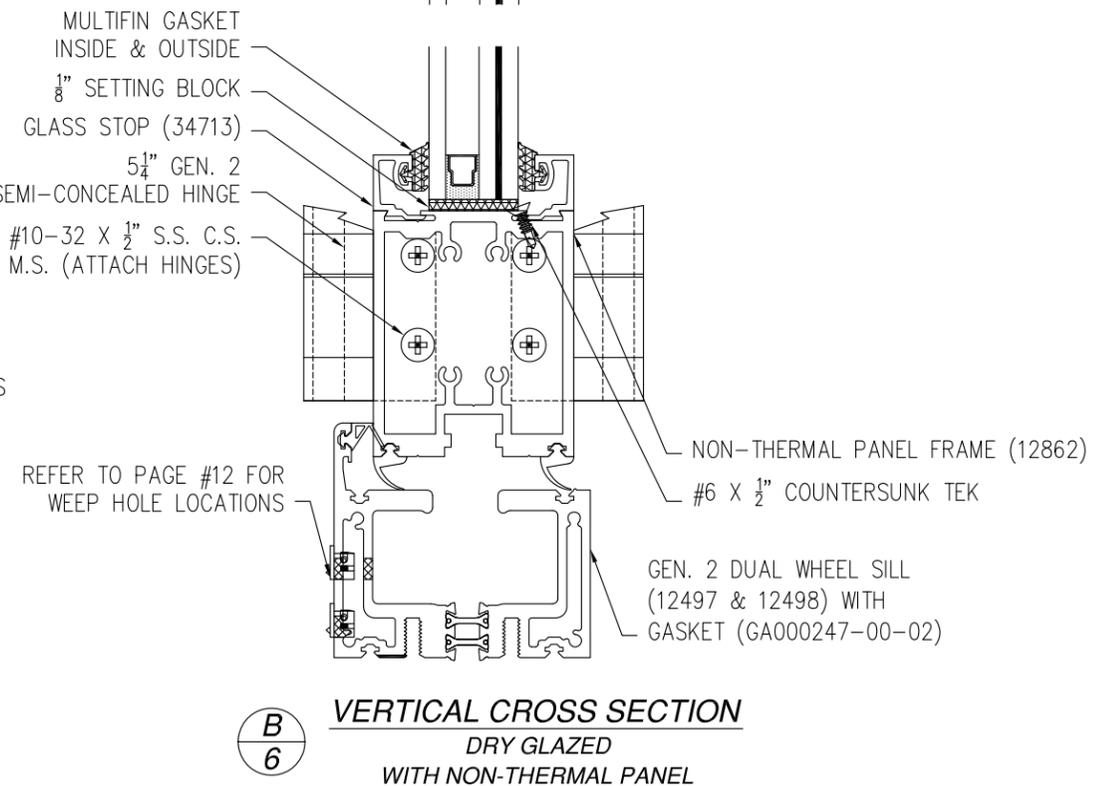
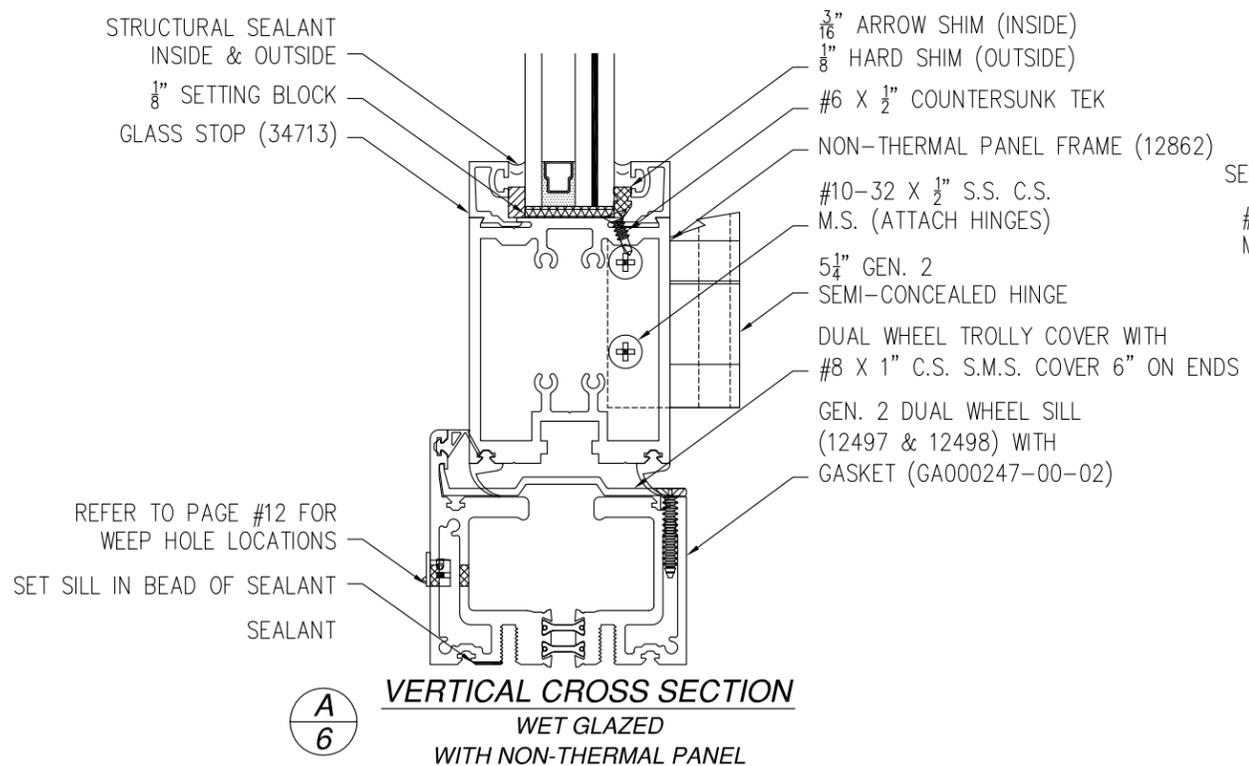
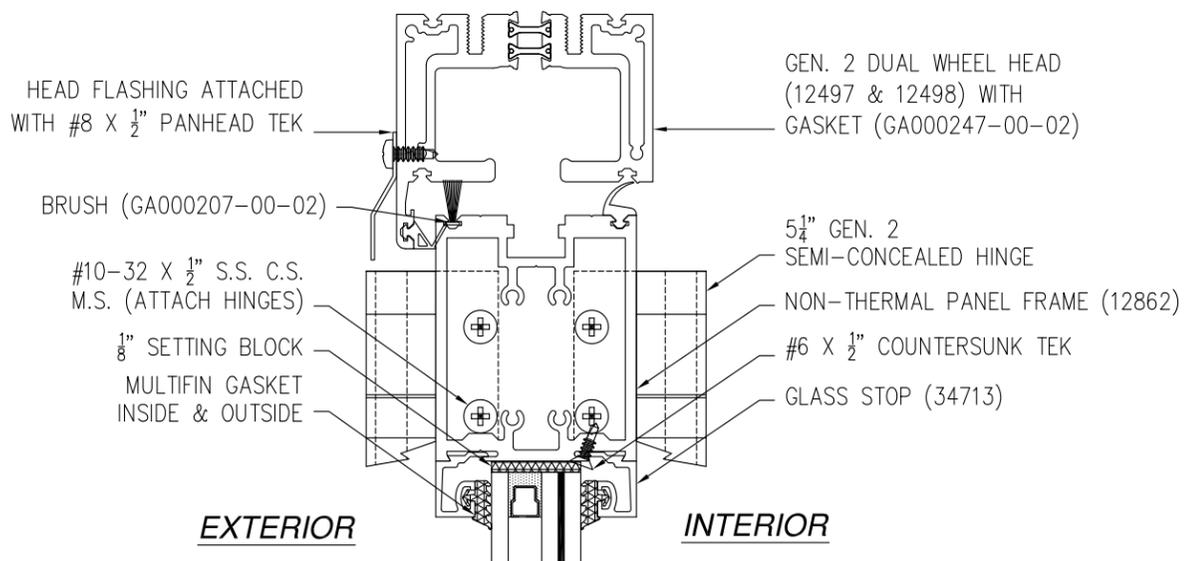
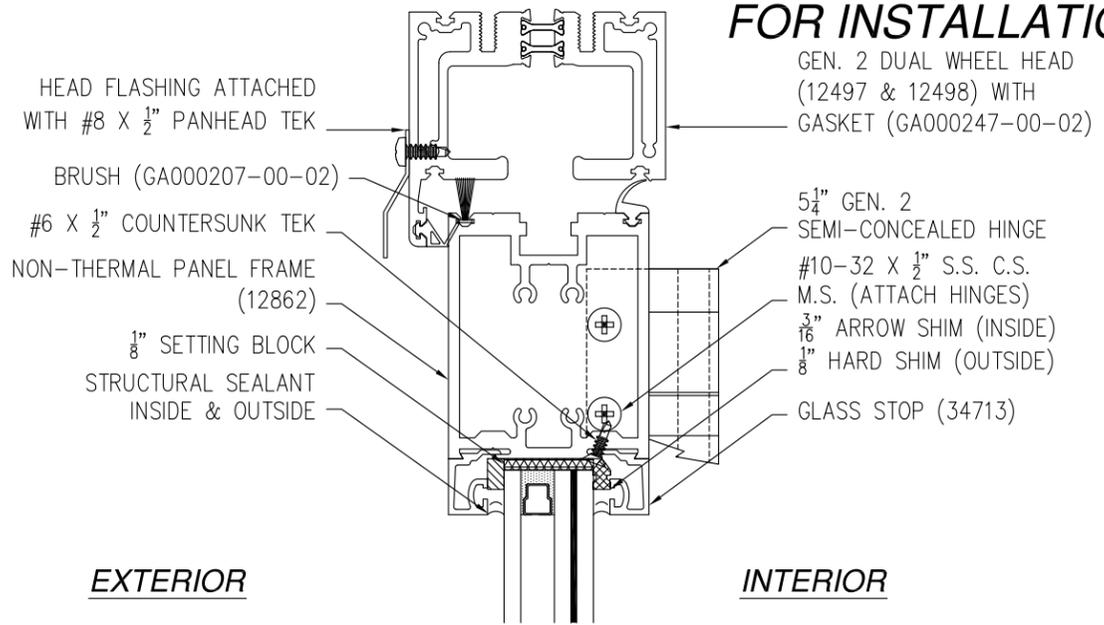
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SI 3350 FGW 3X8 PANEL 90° CORNER NO POST FOLDING GLASS WALL – IMPACT VERTICAL CROSS SECTIONS		
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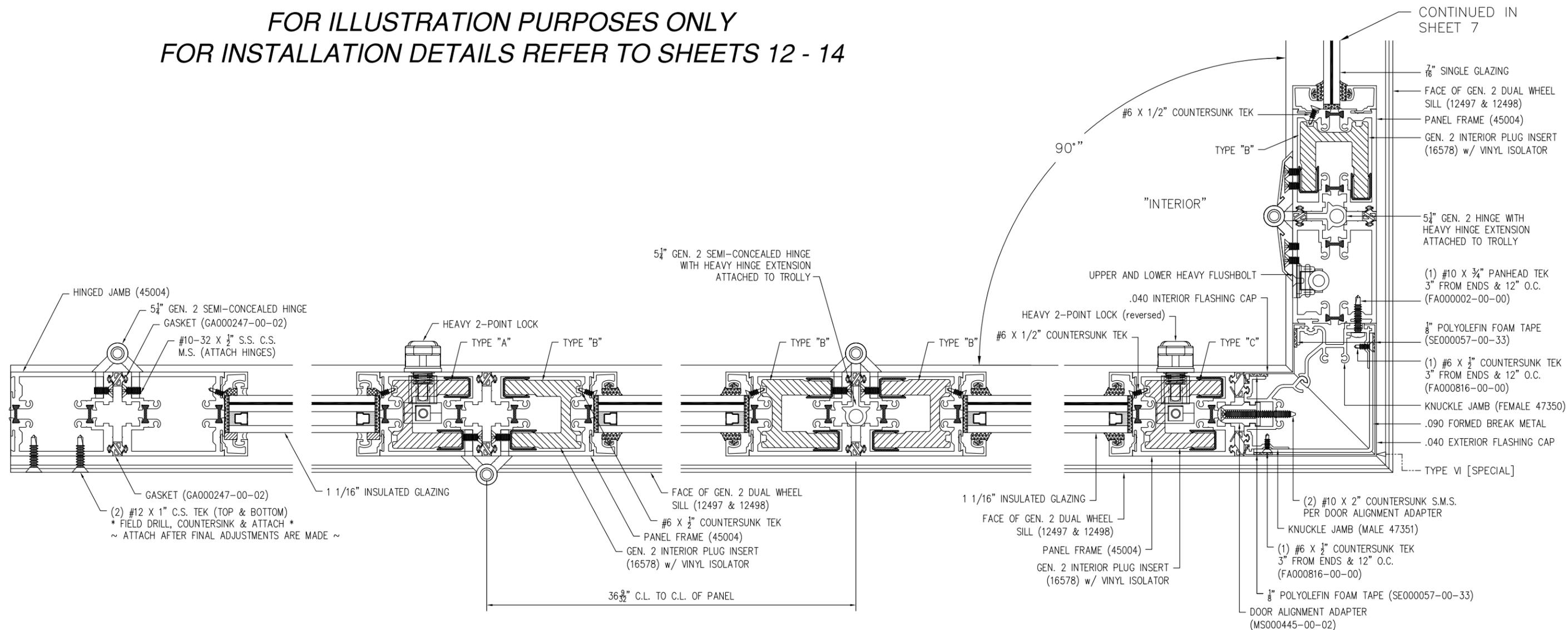
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**E**  
**7** **HORIZONTAL CROSS SECTION**

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 31 ROBERTS RD  
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SI 3350 FGW 3X8 PANEL 90° CORNER  
 NO POST FOLDING GLASS WALL – IMPACT  
 HORIZONTAL CROSS SECTIONS (STANDARD PANEL)

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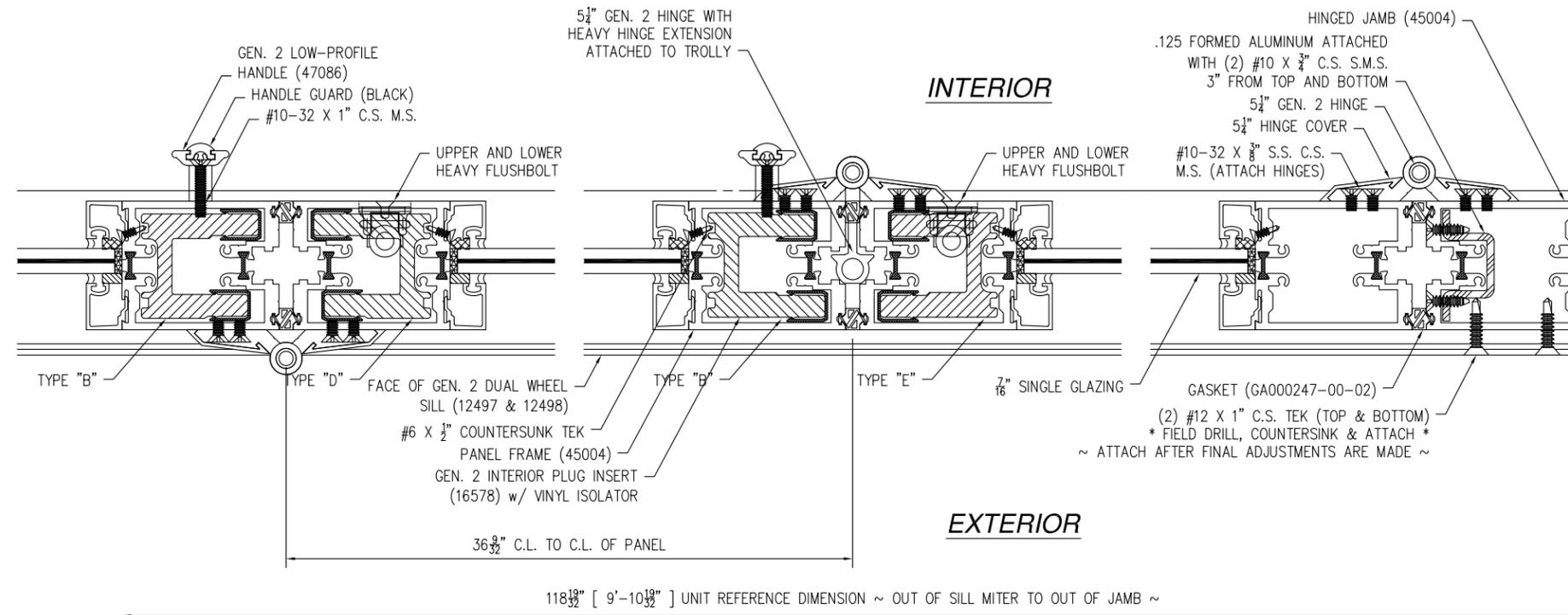


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CONTINUED  
FROM SHEET 6



**E**  
**8** HORIZONTAL CROSS SECTION

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31 ROBERTS RD  
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SI 3350 FGW 3X8 PANEL 90° CORNER  
NO POST FOLDING GLASS WALL - IMPACT  
HORIZONTAL CROSS SECTION (STANDARD PANEL)

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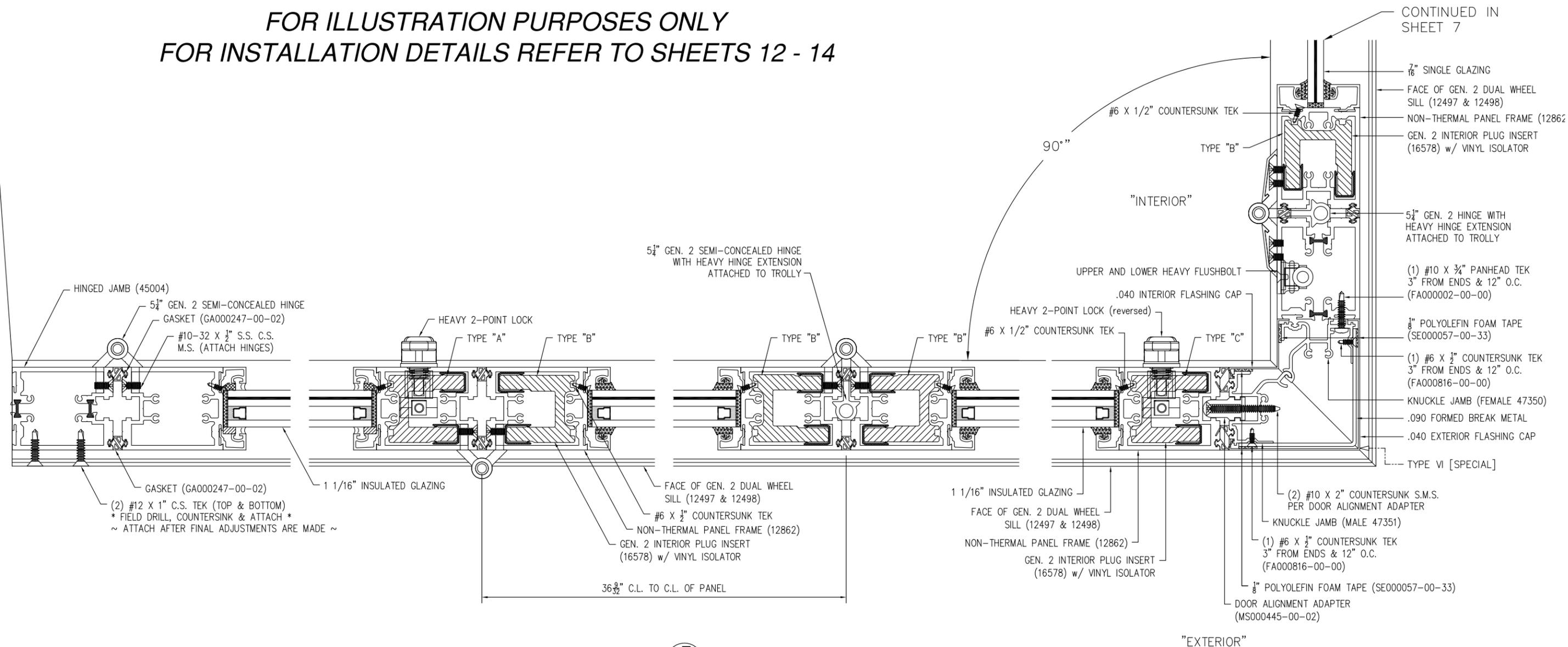
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**E**  
**9** **HORIZONTAL CROSS SECTION**

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SI 3350 FGW 3X8 PANEL 90° CORNER  
 NO POST FOLDING GLASS WALL – IMPACT  
 HORIZONTAL CROSS SECTION (NON-THERMAL PANEL)

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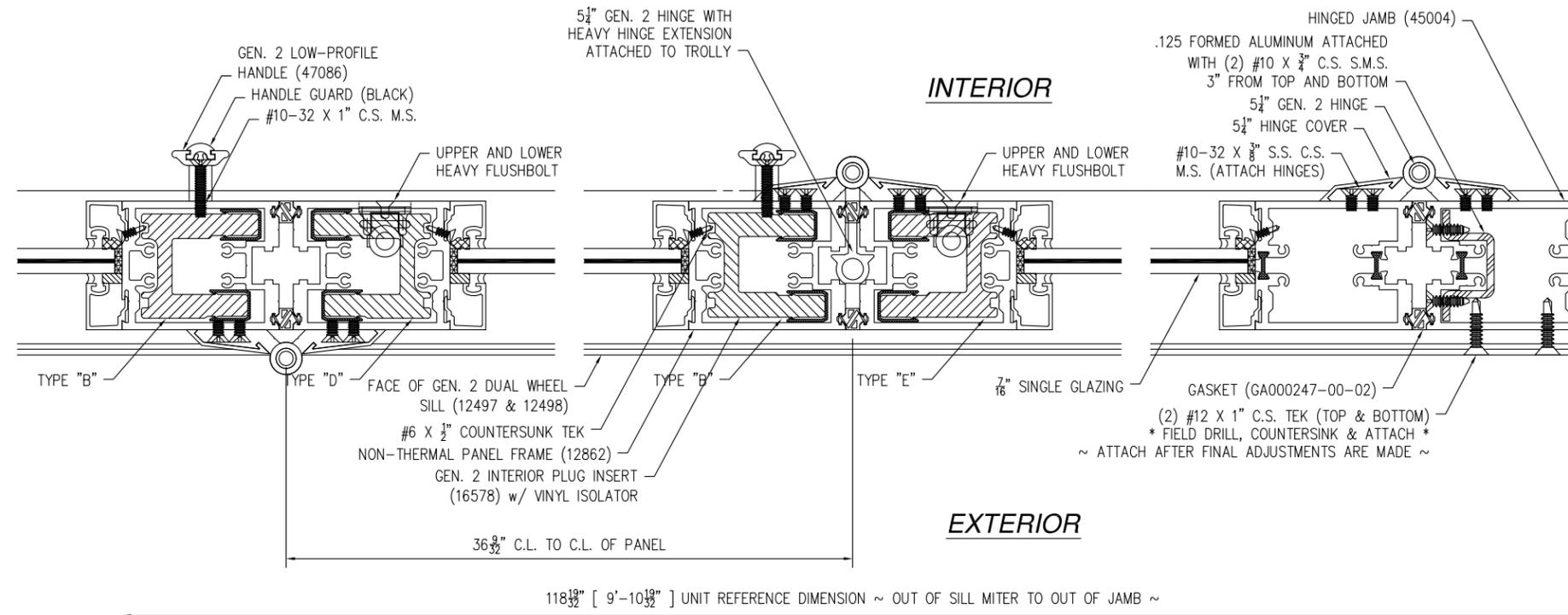


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**E**  
10 **HORIZONTAL CROSS SECTION**

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SI 3350 FGW 3X8 PANEL 90° CORNER  
NO POST FOLDING GLASS WALL - IMPACT  
HORIZONTAL CROSS SECTION (NON-THERMAL PANEL)

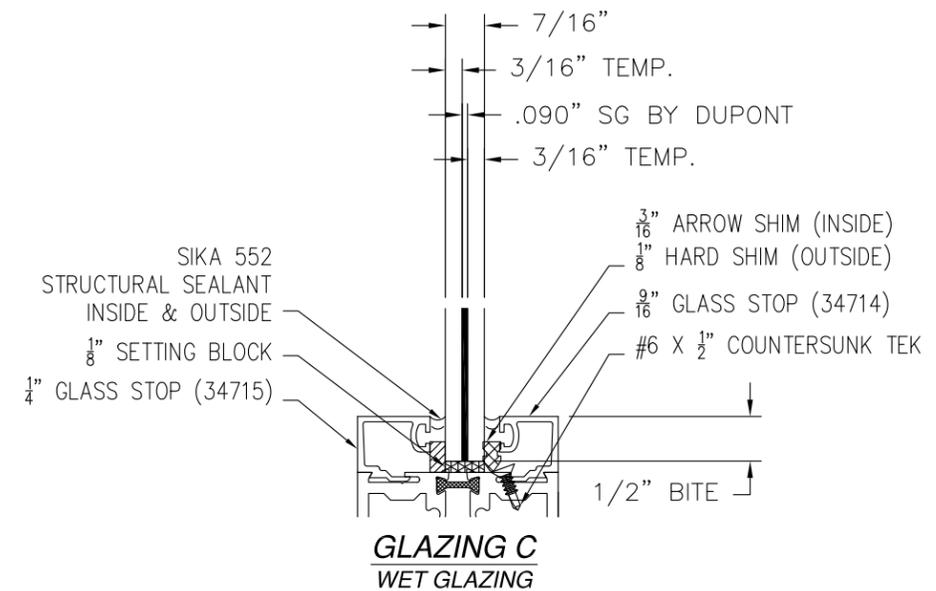
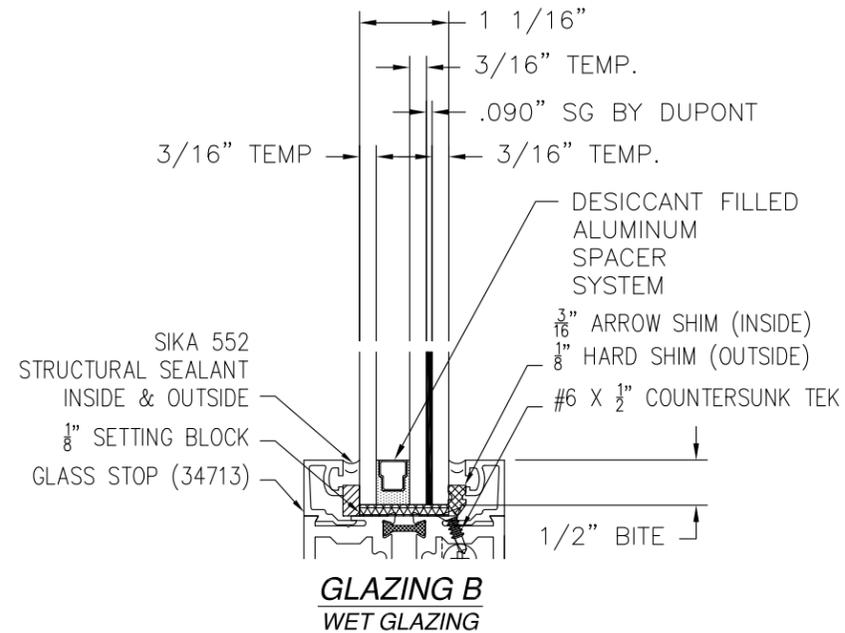
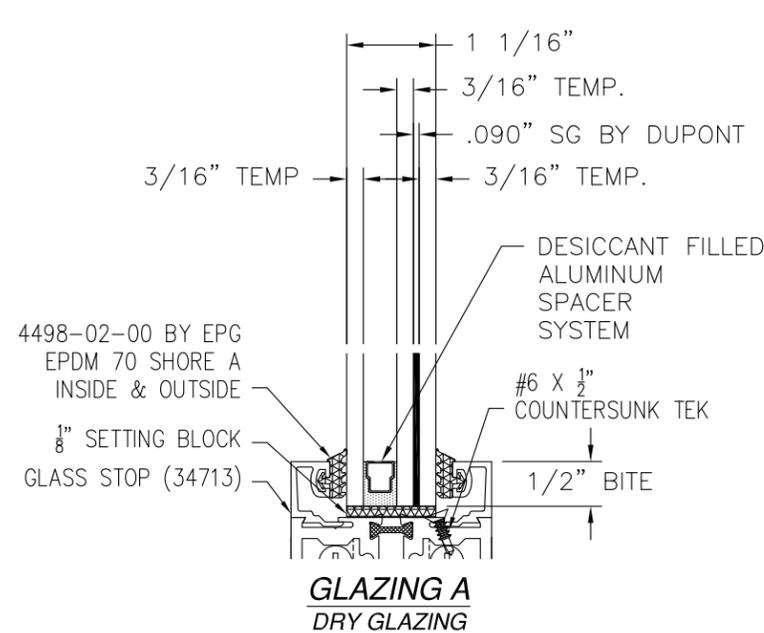
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31 ROBERTS RD  
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SI 3350 FGW 3X8 PANEL 90° CORNER  
NO POST FOLDING GLASS WALL – IMPACT  
GLAZING DETAILS

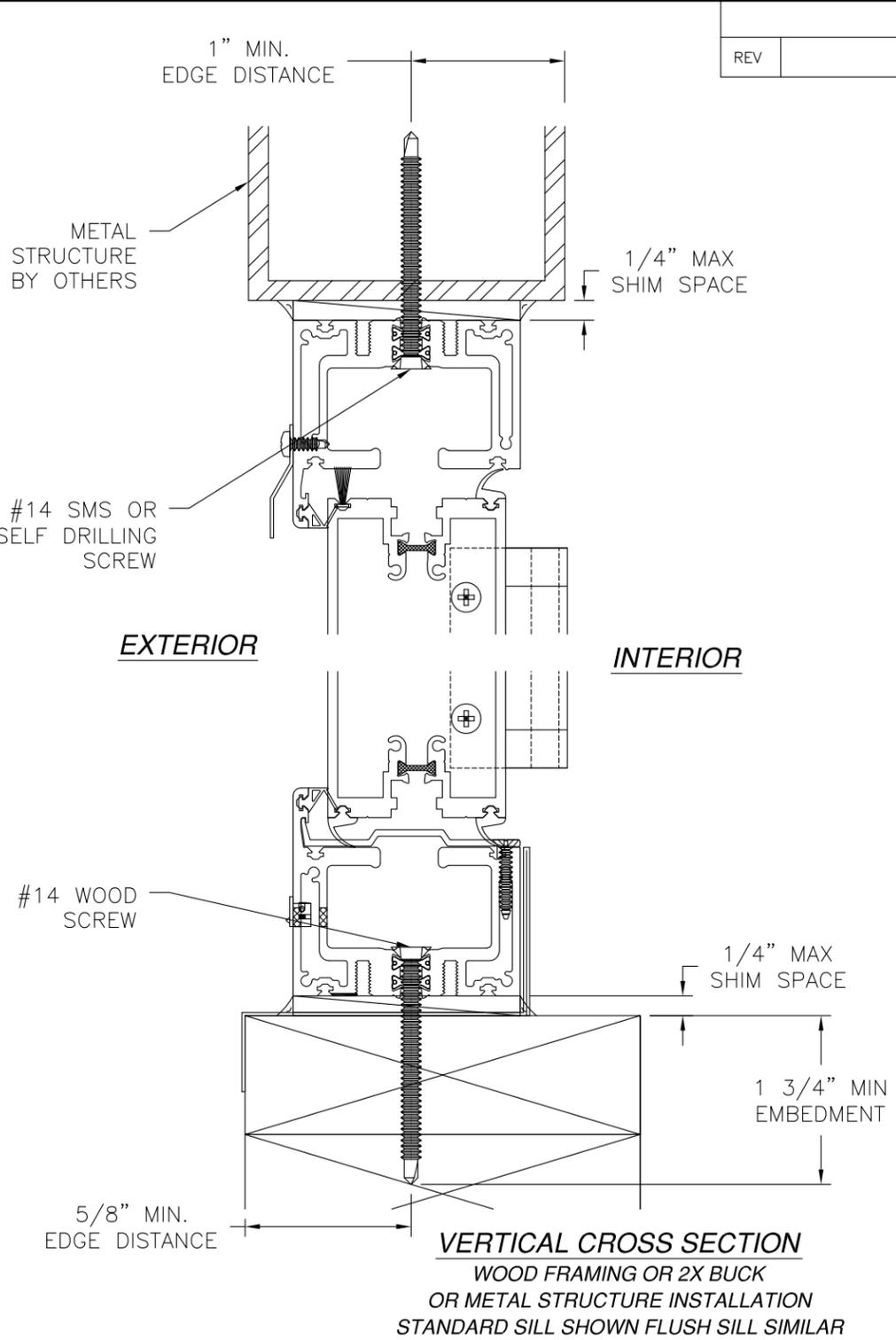
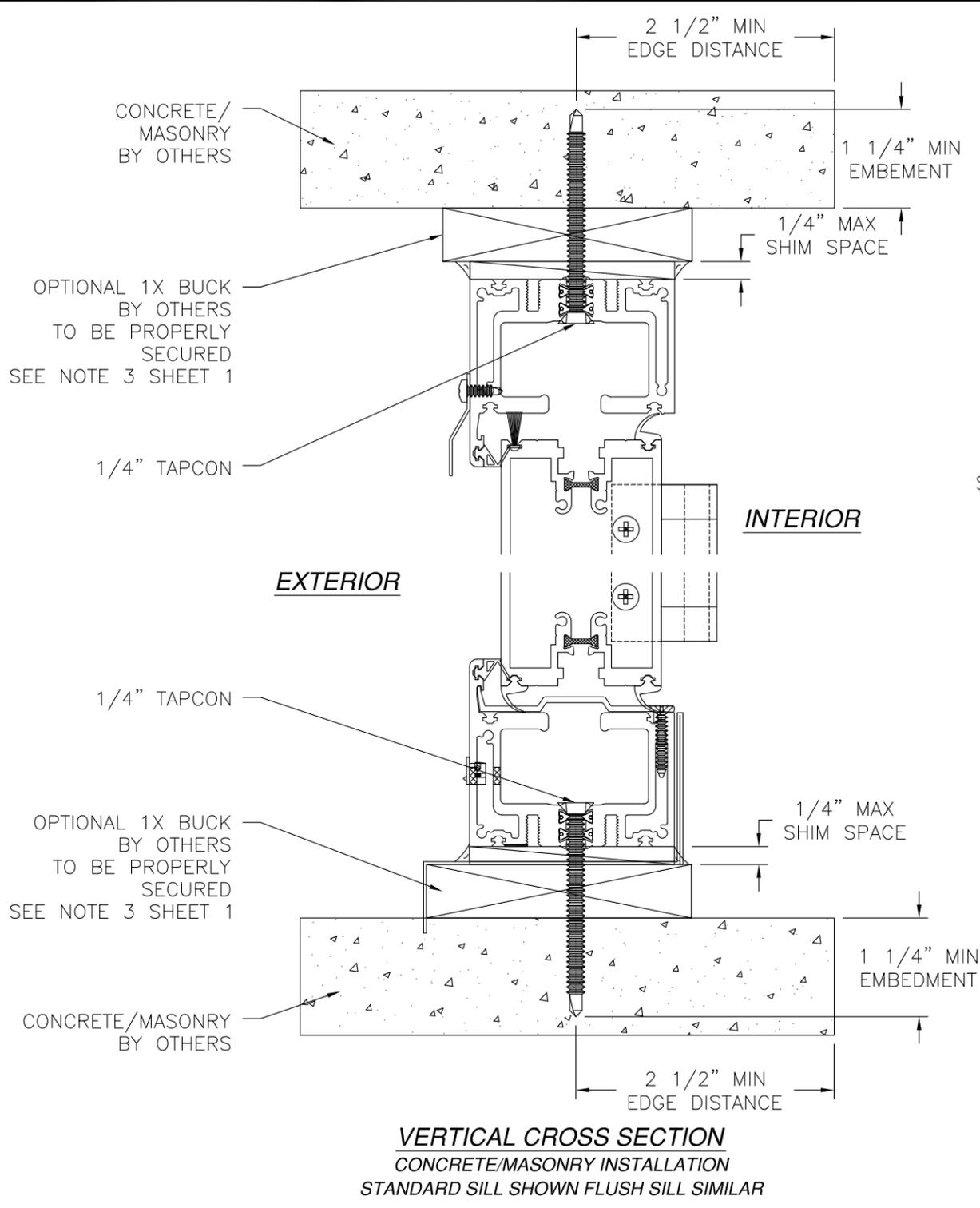
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NOTES:  
 1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.  
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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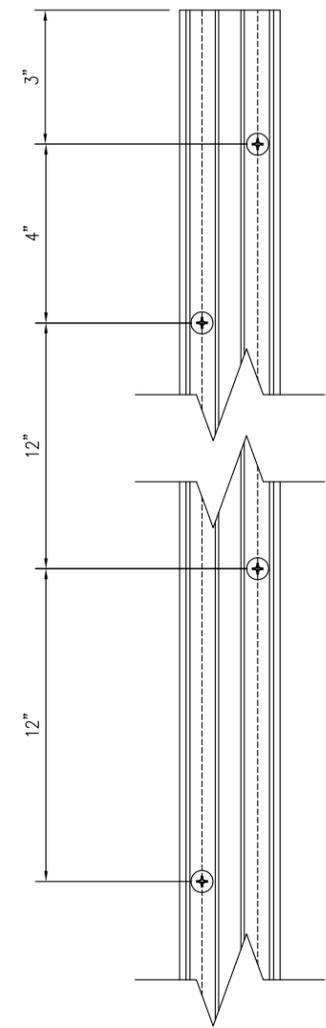
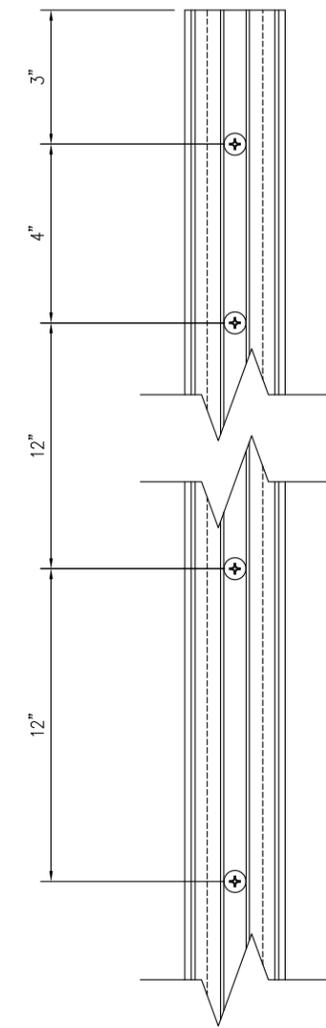
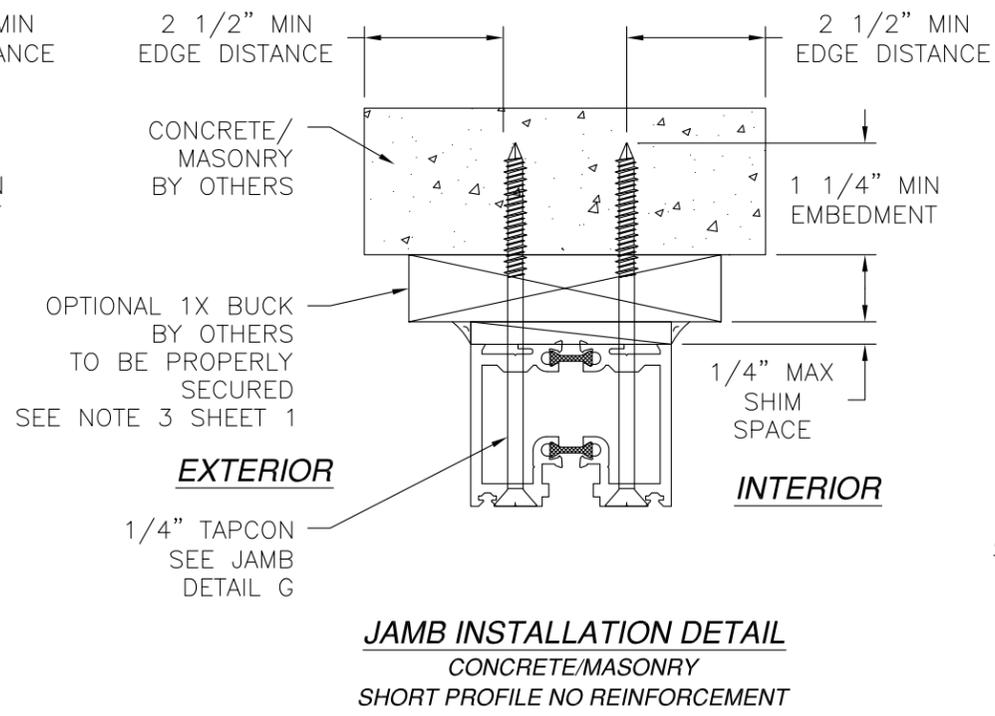
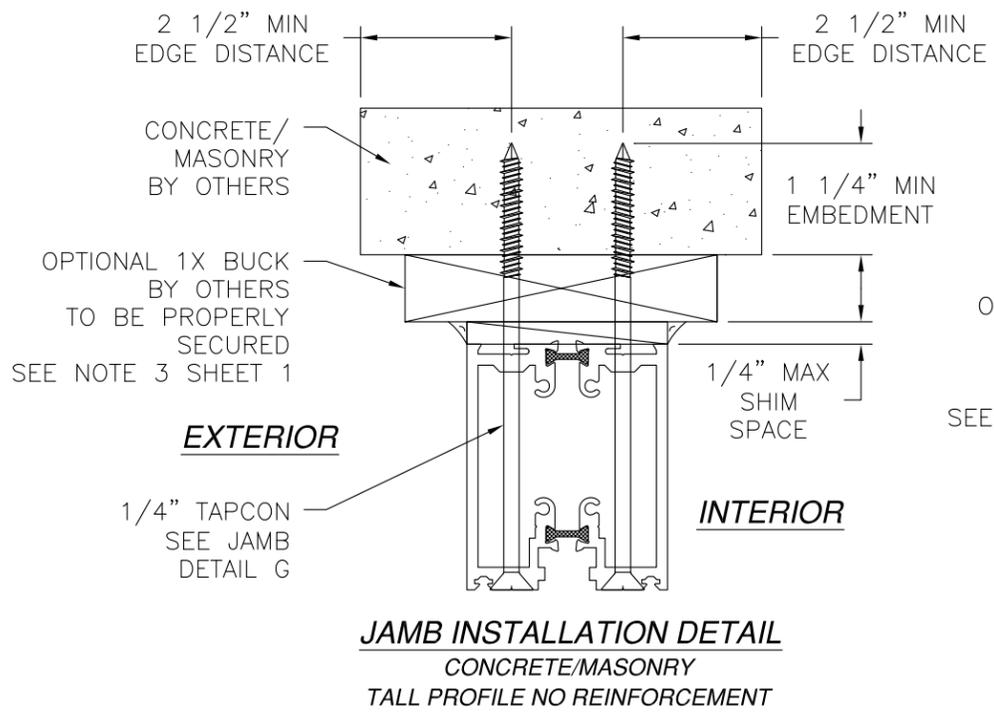
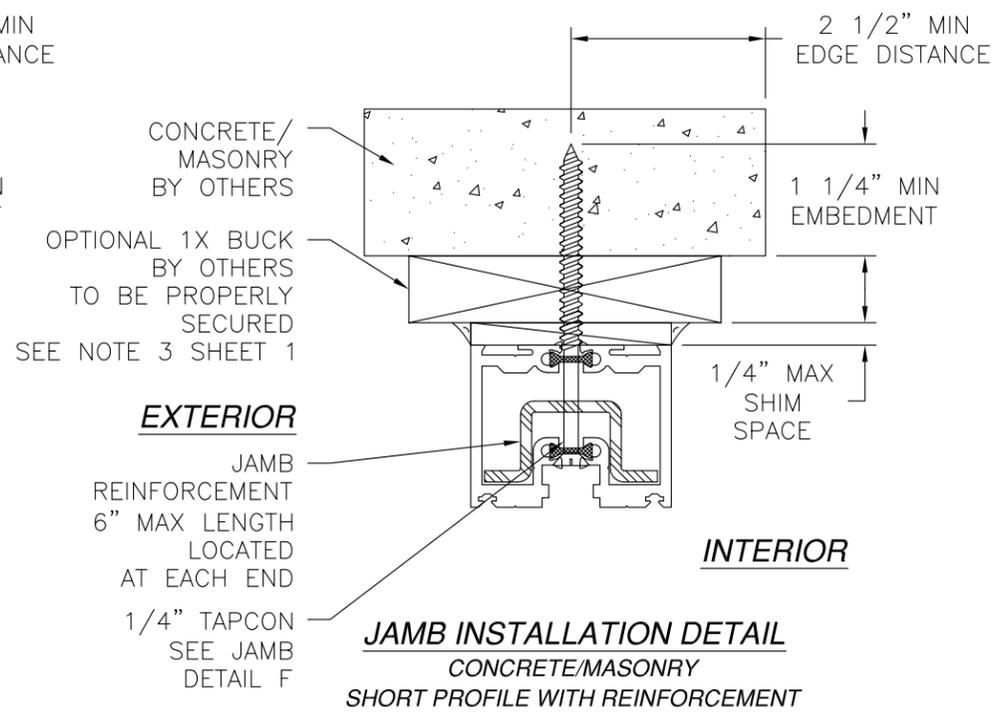
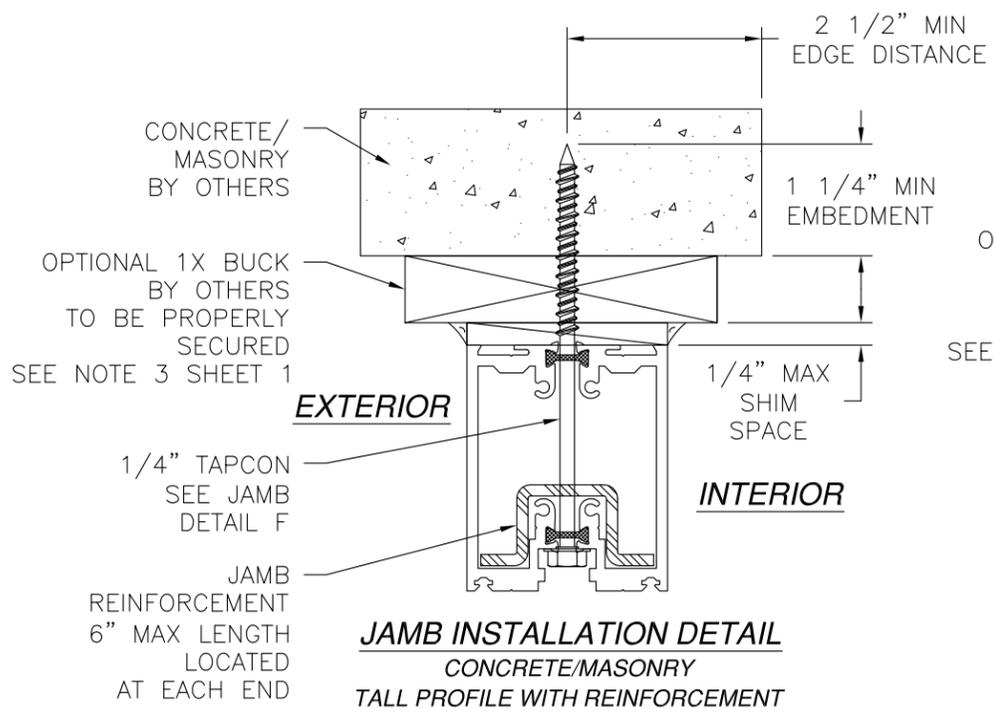
SI 3350 FGW 3X8 PANEL 90° CORNER  
 NO POST FOLDING GLASS WALL – IMPACT  
 INSTALLATION INSTRUCTIONS

DRAWN: N.G.	DWG NO. 08-02654	REV -
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**JAMB INSTALLATION DETAIL F**  
JAMB WITH REINFORCEMENT

**JAMB INSTALLATION DETAIL G**  
JAMB WITHOUT REINFORCEMENT

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PINE GROVE, PA 17963

SI 3350 FGW 3X8 PANEL 90° CORNER  
NO POST FOLDING GLASS WALL – IMPACT  
INSTALLATION INSTRUCTIONS

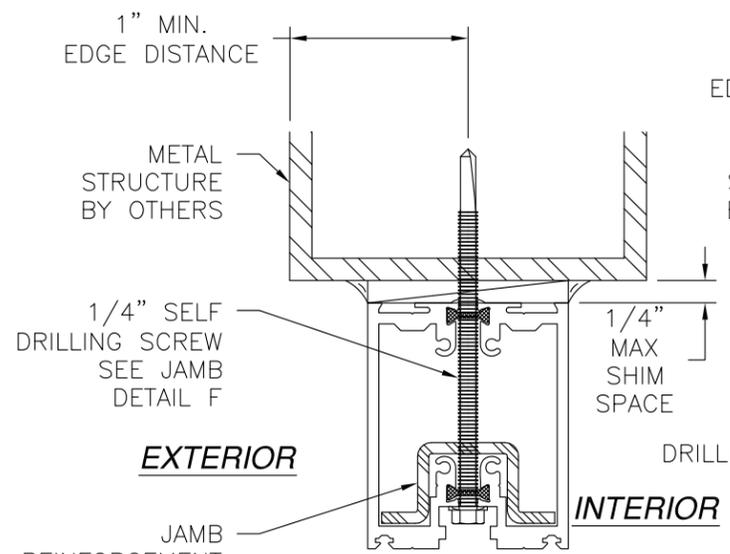
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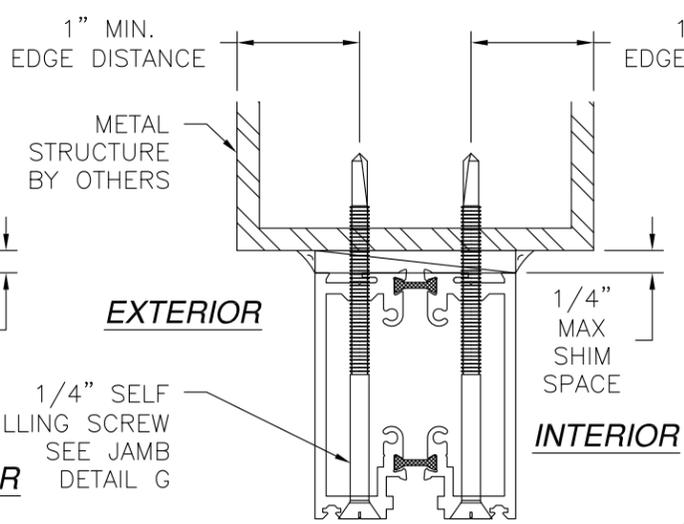


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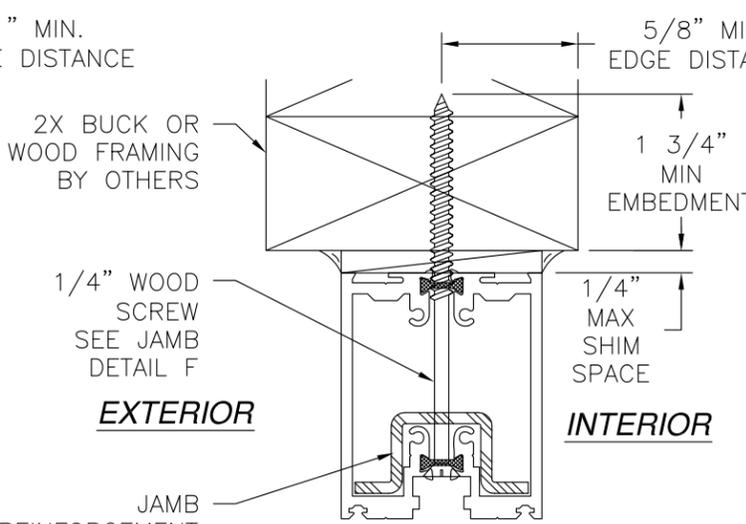
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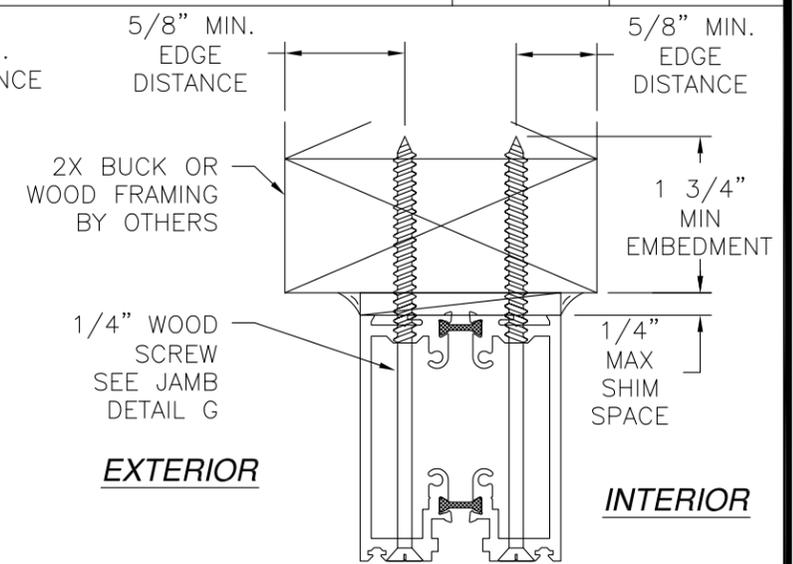
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
TALL PROFILE WITH REINFORCEMENT



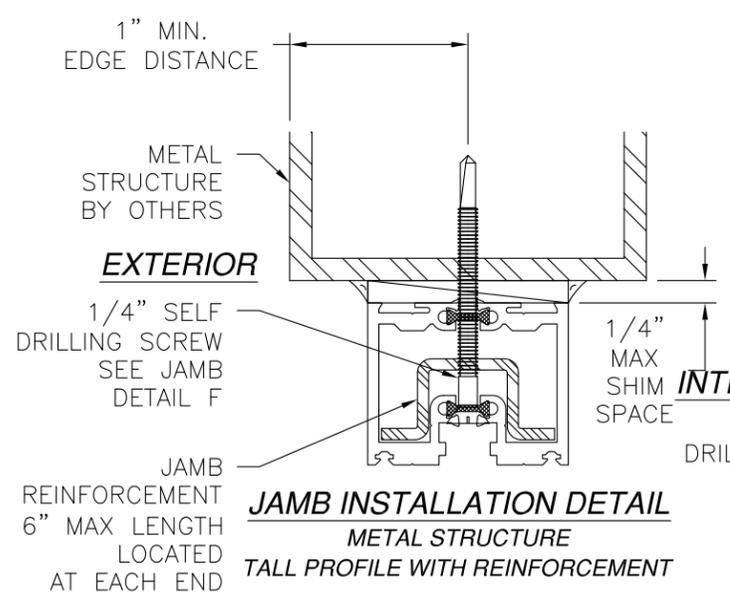
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
TALL PROFILE NO REINFORCEMENT



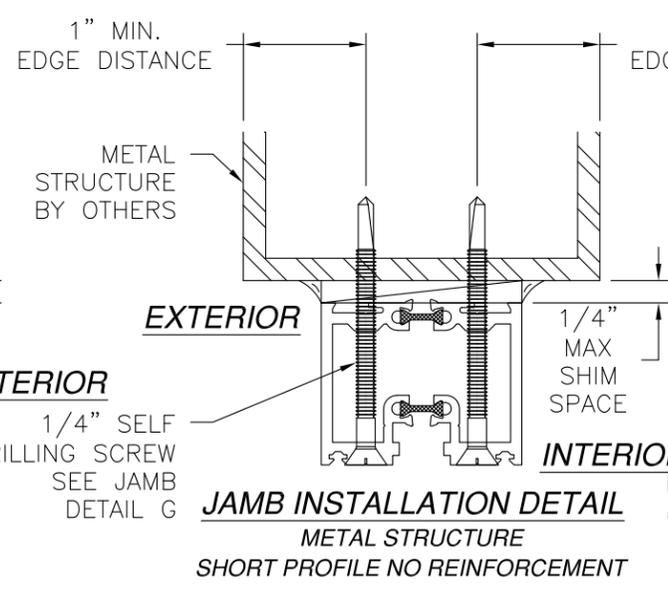
**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
TALL PROFILE WITH REINFORCEMENT



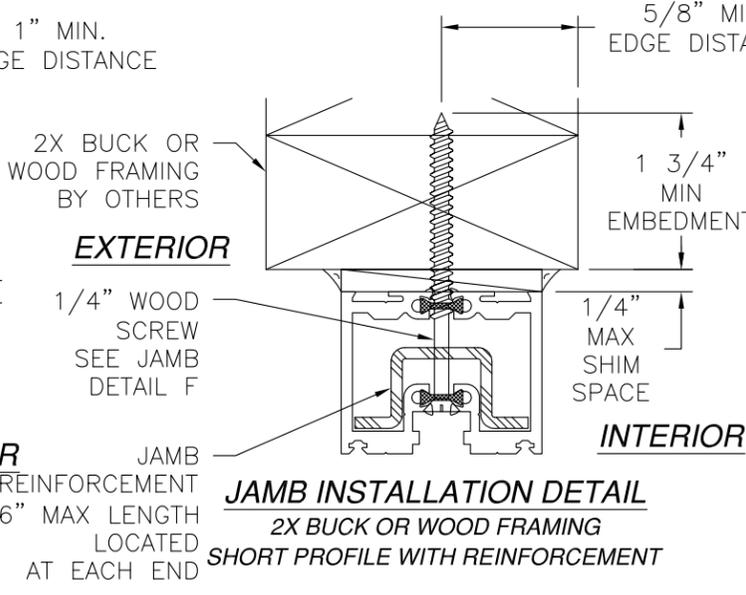
**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
TALL PROFILE NO REINFORCEMENT



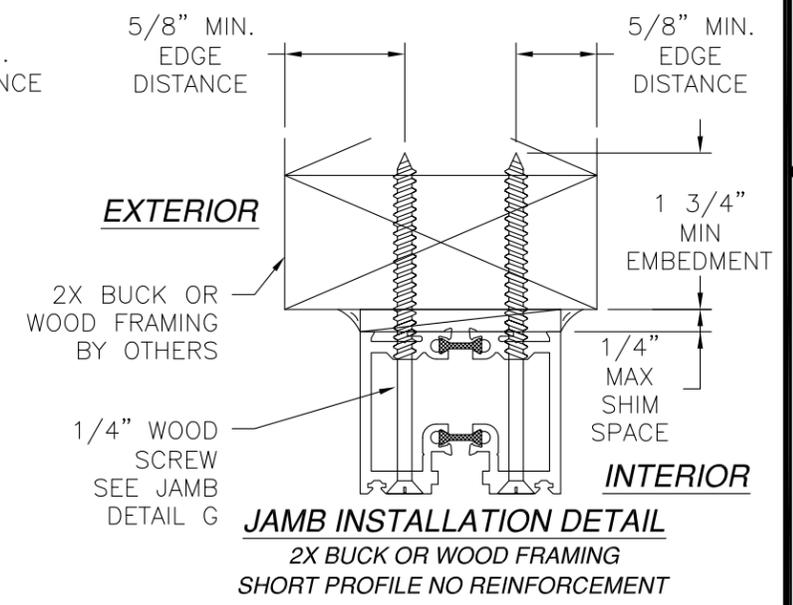
**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
TALL PROFILE WITH REINFORCEMENT



**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE  
SHORT PROFILE NO REINFORCEMENT



**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
SHORT PROFILE WITH REINFORCEMENT



**JAMB INSTALLATION DETAIL**  
2X BUCK OR WOOD FRAMING  
SHORT PROFILE NO REINFORCEMENT

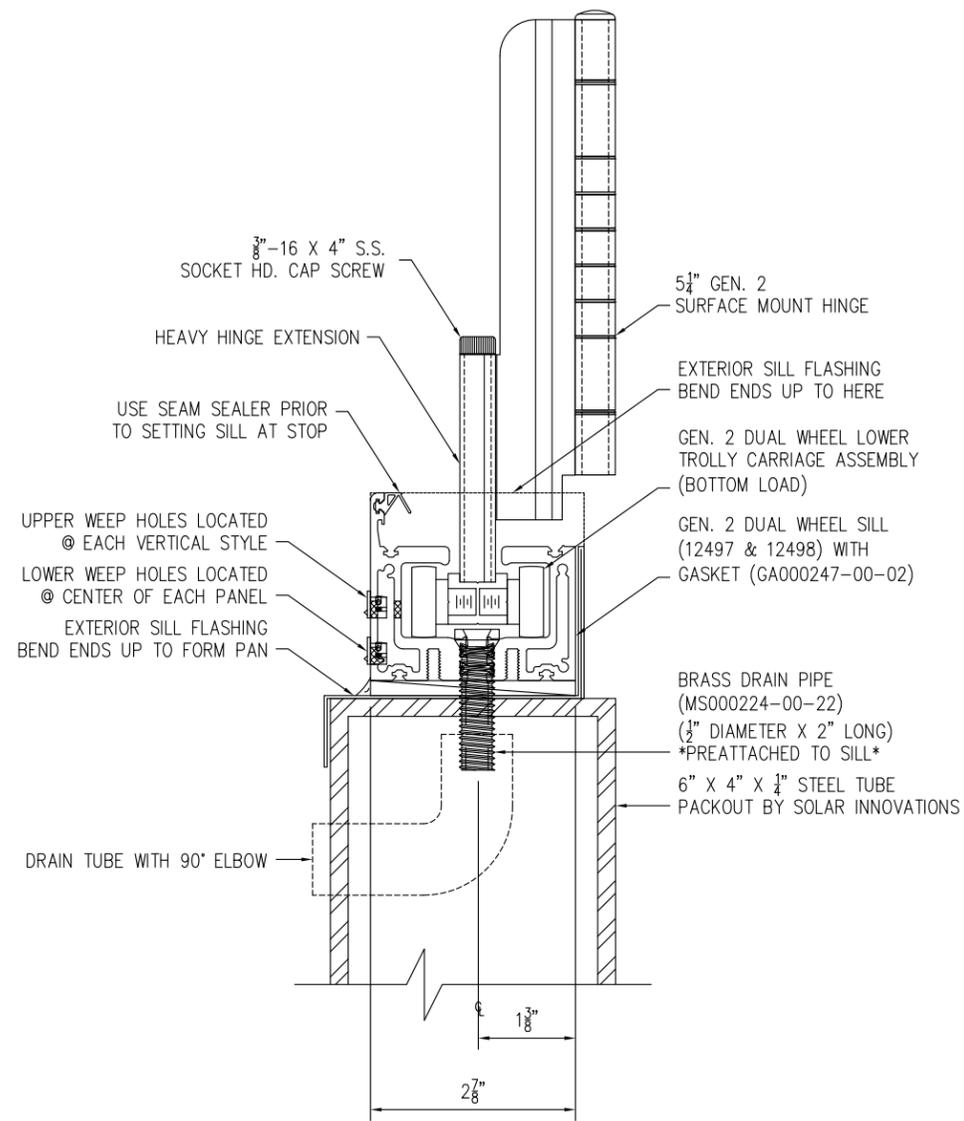
SIGNED: 03/23/2015

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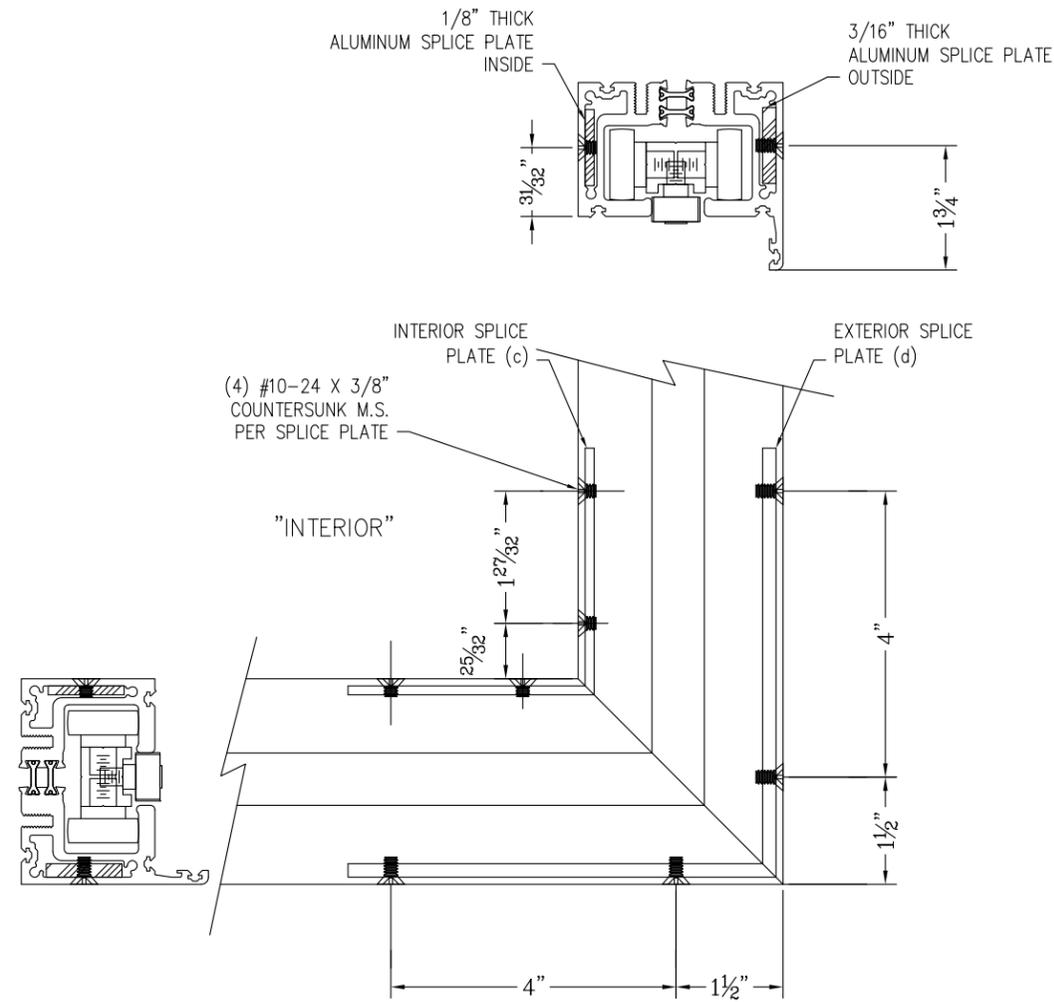
<b>SOLAR INNOVATIONS, INC.</b>		
31 ROBERTS RD PINE GROVE, PA 17963		
SI 3350 FGW 3X8 PANEL 90° CORNER NO POST FOLDING GLASS WALL – IMPACT INSTALLATION INSTRUCTIONS		
DRAWN: N.G.	DWG NO. 08-02654	REV -
SCALE NTS	DATE 03/23/15	SHEET 14 OF 16

Luis R. Lomas P.E.  
Texas No. 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



**WEEP HOLE, DRAIN PIPE AND HINGE  
EXTENSION DETAIL**



**SPLICE PLATES INSTALLATION DETAIL**

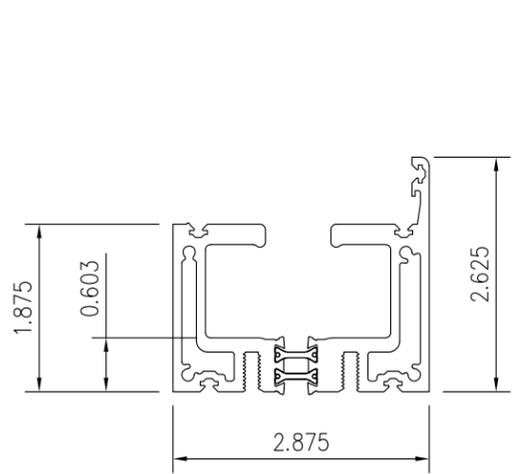
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SI 3350 FGW 3X8 PANEL 90° CORNER NO POST FOLDING GLASS WALL – IMPACT WEEP DETAILS		
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SCALE NTS	DATE 03/23/15	SHEET 15 OF 16

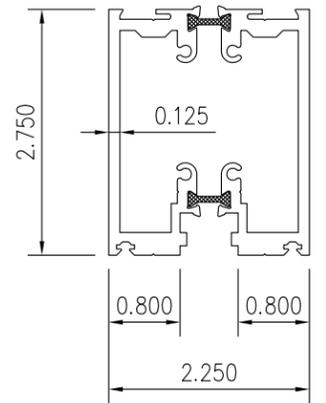
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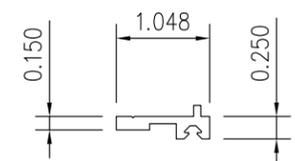
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Texas No. 101889



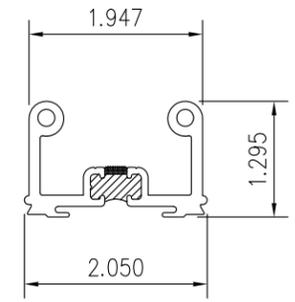
DUAL WHEEL  
HEAD / SILL



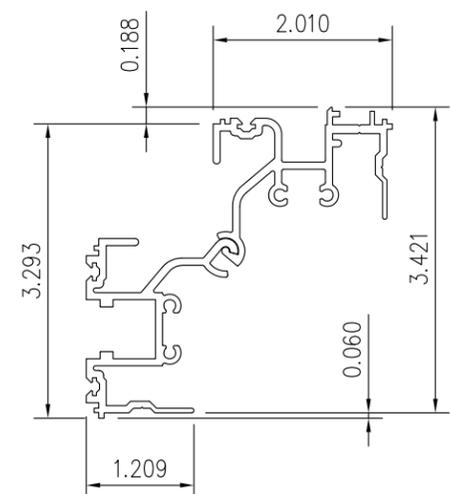
FRAME



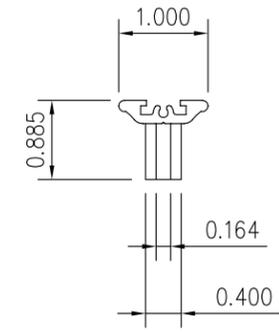
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CAP



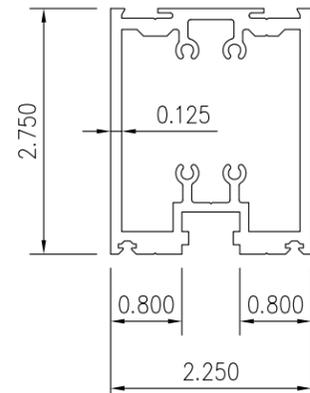
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LUG



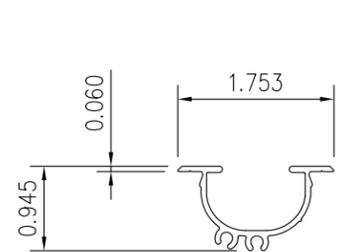
KNUCKLE  
JAMB



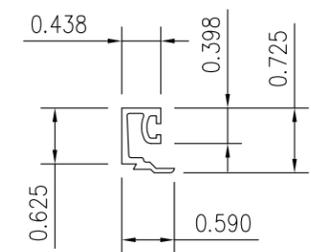
LOW-PROFILE  
HANDLE



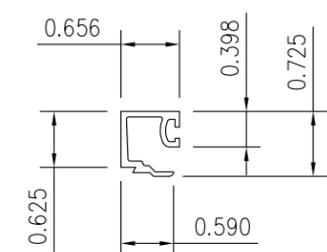
FRAME  
NON-THERMAL



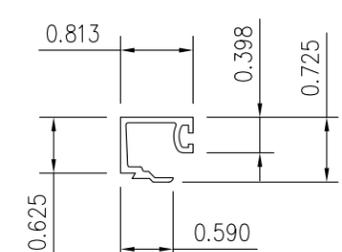
RECESSED / FLUSH  
HANDLE



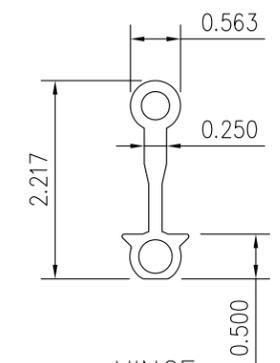
1" GLASS  
STOP



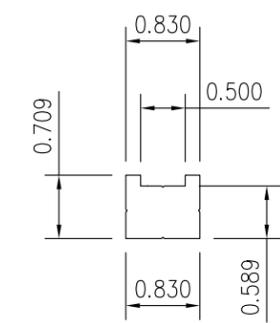
9/16" GLASS  
STOP



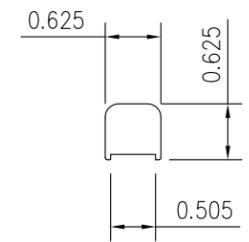
1/4" GLASS  
STOP



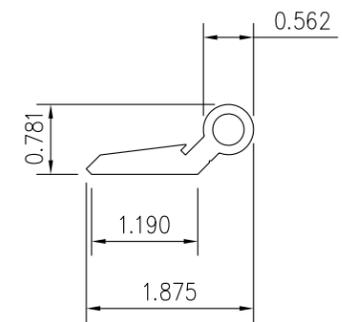
HINGE  
EXTENSION



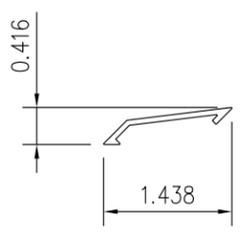
TROLLEY  
BODY



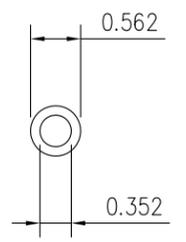
IDLER  
BODY



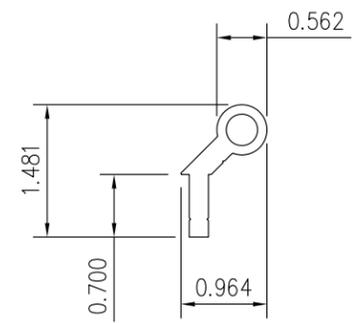
5 1/4" HYBRID  
HINGE



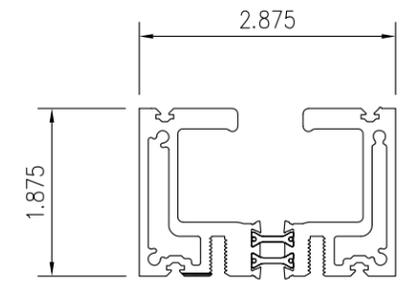
5 1/4" HYBRID  
HINGE COVER



HINGE  
BARREL



5 1/4" SEMI-  
CONCEALED HINGE



FLUSH SILL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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**SOLAR INNOVATIONS, INC.**  
31 ROBERTS RD  
PINE GROVE, PA 17963

SI 3350 FGW 3X8 PANEL 90° CORNER  
NO POST FOLDING GLASS WALL – IMPACT  
COMPONENTS

DRAWN: N.G.	DWG NO. 08-02654	REV -
SCALE NTS	DATE 03/23/15	SHEET 16 OF 16

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