

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
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. 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, 6063-T5 AND 6005A-T5.
6. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 7 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 3/8".
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" 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 3,000 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 .125" THICK MINIMUM

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16	COMPONENTS

THERMA-TRU CORPORATION

1750 INDIAN WOOD CIRCLE

MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD

ALUMINUM REINFORCED – IMPACT – HVHZ

NOTES

DRAWN: R.L.

DWG NO. 08-03863

REV A

SCALE NTS

DATE 11/02/22

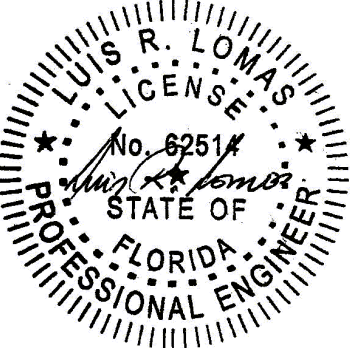
SHEET 1 OF 16

L. ROBERTO LOMAS P.E.

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SIGNED: 05/19/2026



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS REQUIRED, SEE CHART #1 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS NOT REQUIRED, SEE CHART #2 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-65.0PSF	LARGE AND SMALL MISSILE IMPACT

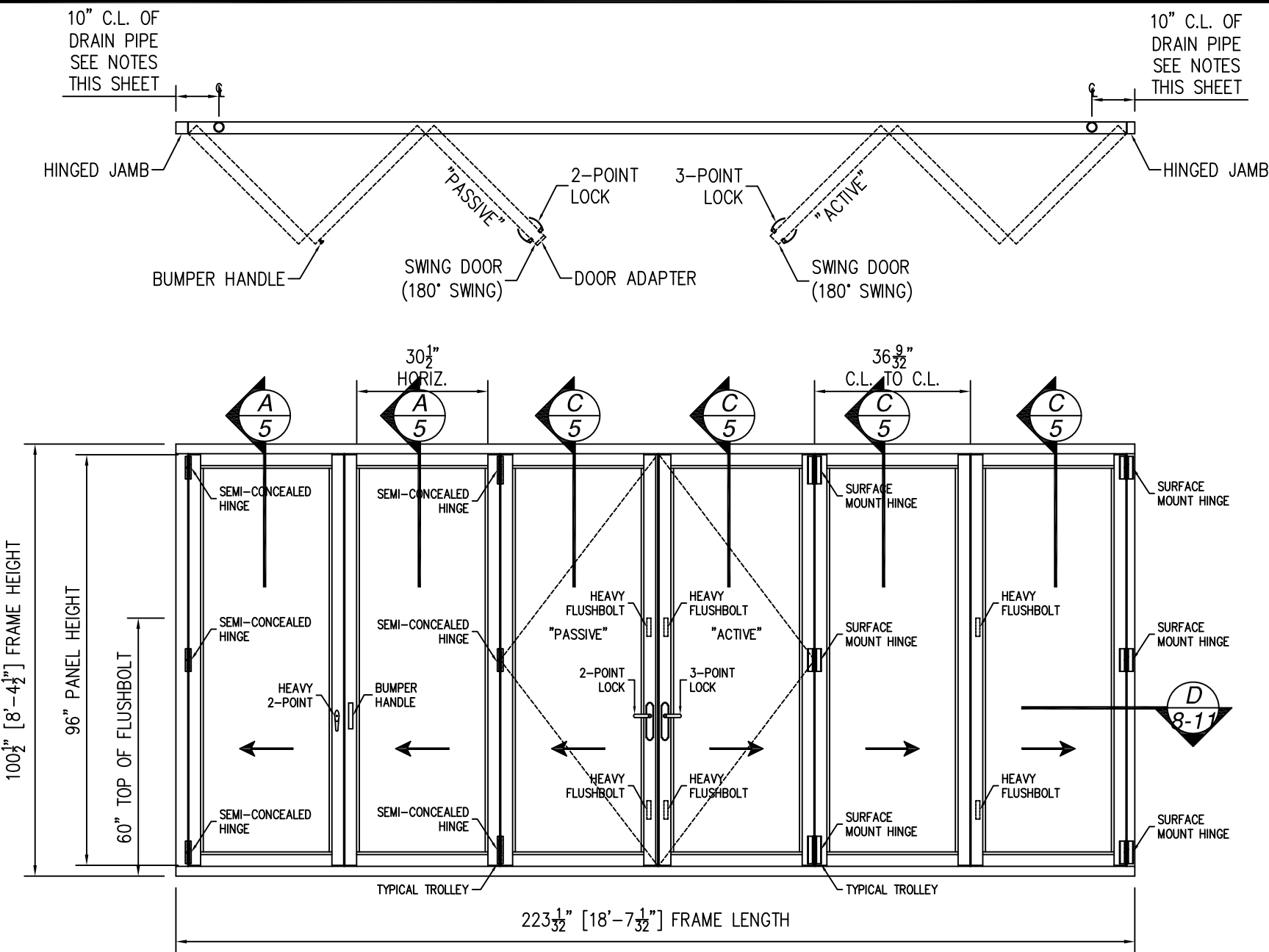
MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH PANIC BAR OPTION, SEE CHART #3 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH FLUSH SILL, SEE CHART #4 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH NON-THERMAL PANEL, SEE CHART #4 SHEET 4



SERIES V-2 FGW 3X8 PANEL OUTFOLD FGW

EXTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 24.0FT² AND USES VERTICAL CONDITIONS AS
SHOWN AND DOES NOT EXCEED FRAME AREA OF 155.6FT².

HARDWARE SCHEDULE

- A. SEMI-CONCEALED HINGE BY THERMA-TRU
- B 2 POINT HANDLE & LOCK MS000487-XX BY THERMA-TRU
- C 3 POINT HANDLE & LOCK BY THERMA-TRU
- D HEAVY FLUSH BOLTS MS000442-00-XX BY THERMA-TRU
- E SURFACE MOUNT HINGE BY THERMA-TRU
- F PANIC BAR BY THERMA-TRU (OPTIONAL)

- NOTES:
- 1. PANEL SIZE: 36" X 96"
 - 2. PANEL D.L.O.: 29" X 89"
 - 3. DRAIN TUBE IS ONLY INSTALLED WITH RECESSED SILL TYPES

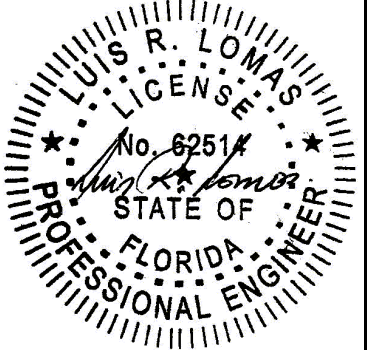
THERMA-TRU CORPORATION
1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
ELEVATION

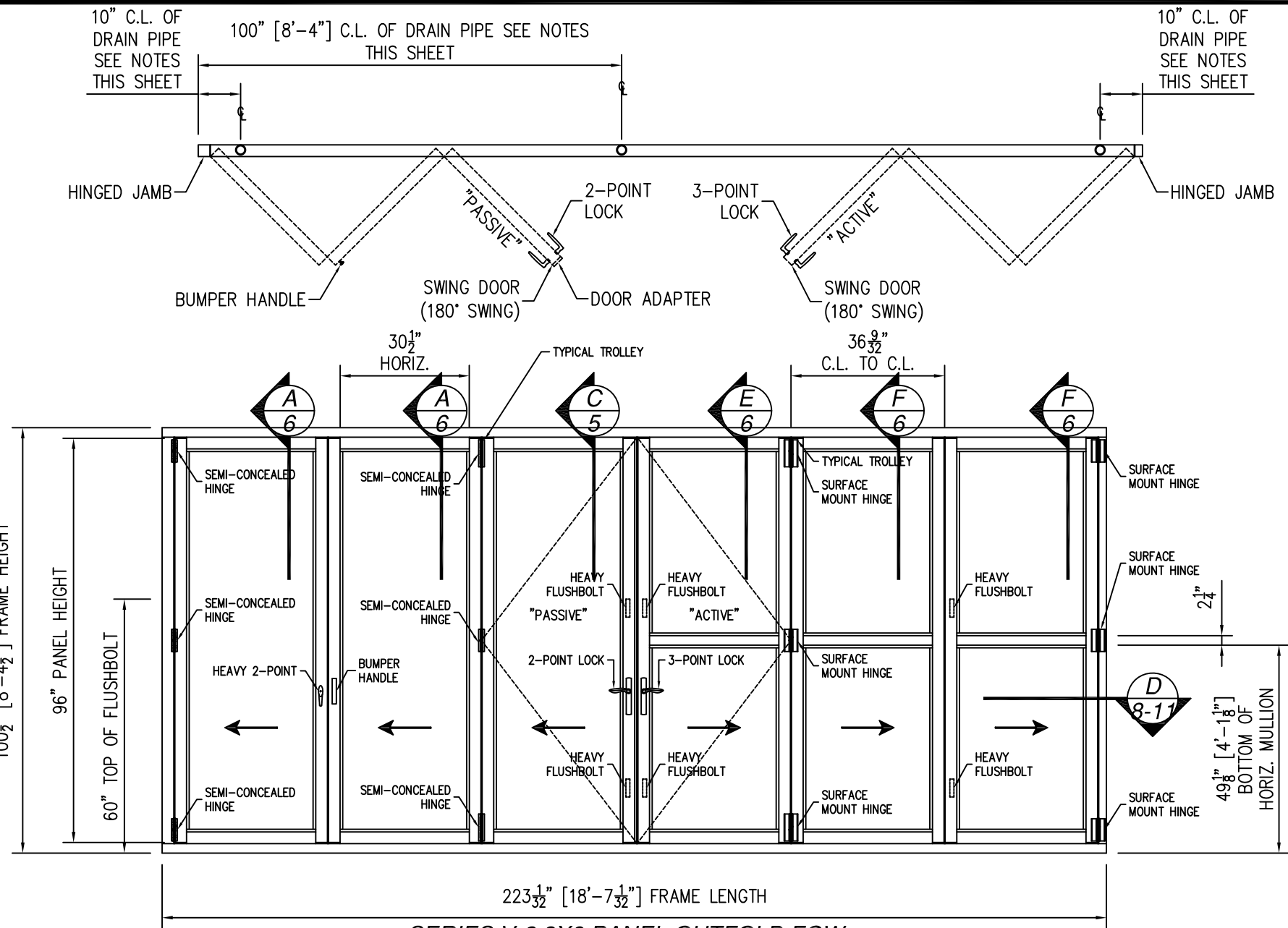
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SCALE NTS	DATE 11/02/22	SHEET 2 OF 16

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SERIES V-2 3X8 PANEL OUTFOLD FGW

EXTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 24.0FT² AND USES VERTICAL CONDITIONS AS SHOWN.

HARDWARE SCHEDULE

- | | |
|----|---|
| A. | SEMI-CONCEALED HINGE BY THERMA-TRU |
| B | 2 POINT HANDLE & LOCK MS000487-XX BY THERMA-TRU |
| C | 3 POINT HANDLE & LOCK BY THERMA-TRU |
| D | HEAVY FLUSH BOLTS MS000442-00-XX BY THERMA-TRU |
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NOTES:

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+60.0/-80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS REQUIRED, SEE CHART #1 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS NOT REQUIRED, SEE CHART #2 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-65.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH PANIC BAR OPTION, SEE CHART #3 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH FLUSH SILL, SEE CHART #4 SHEET 4

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH NON-THERMAL PANEL, SEE CHART #4 SHEET 4

SIGNED: 05/19/2026

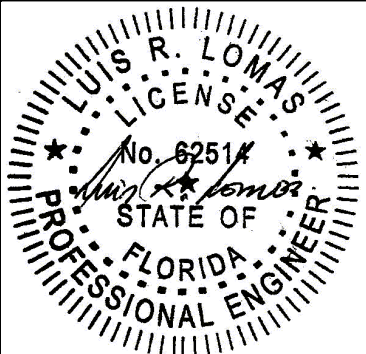
THERMA-TRU CORPORATION

1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

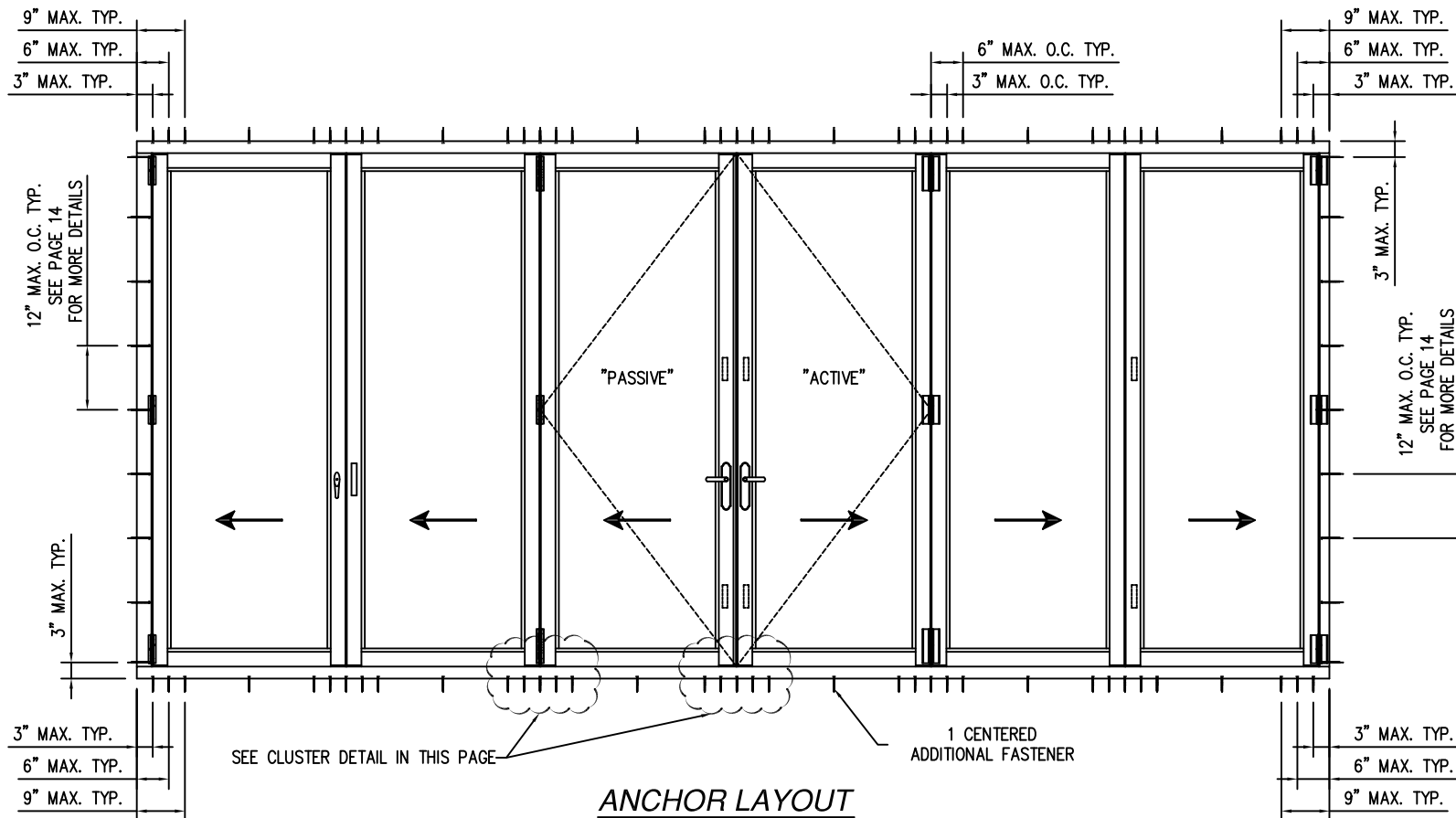
SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
ELEVATION

DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 3 OF 16

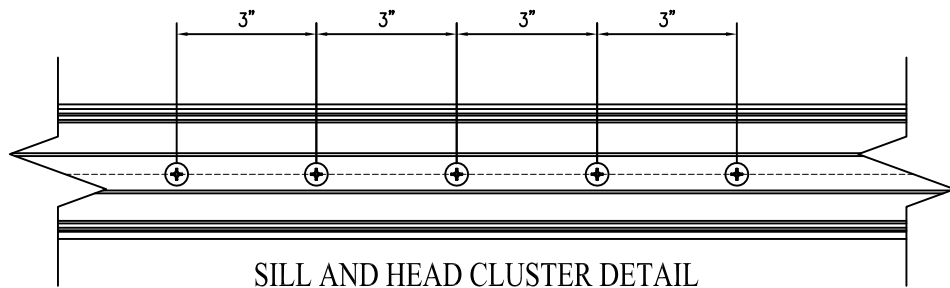
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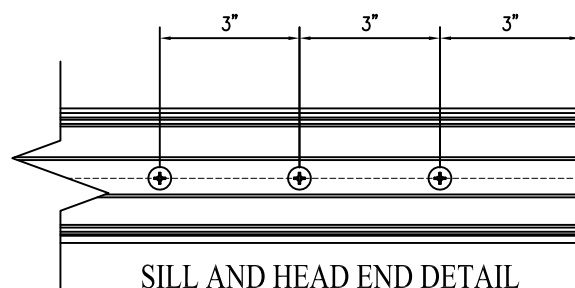
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ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATIONS.



SILL AND HEAD CLUSTER DETAIL



SILL AND HEAD END DETAIL

Chart #3

Maximum Design pressure (psf)											
Panel Height (in)	Single Panel Width (in)										
	24.0		30.0		36.0		42.0		44.0		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
78.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	60.0	65.0	
84.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-	-	-	
90.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-	-	-	
96.0	60.0	65.0	60.0	65.0	60.0	65.0	-	-	-	-	
102.0	60.0	65.0	60.0	63.6	-	-	-	-	-	-	
108.0	60.0	65.0	53.4	53.4	-	-	-	-	-	-	
114.0	56.0	56.0	45.2	45.2	-	-	-	-	-	-	
120.0	47.9	47.9	-	-	-	-	-	-	-	-	
126.0	41.3	41.3	-	-	-	-	-	-	-	-	
132.0	35.9	35.9	-	-	-	-	-	-	-	-	
138.0	31.4	31.4	-	-	-	-	-	-	-	-	
144.0	27.6	27.6	-	-	-	-	-	-	-	-	

Chart #4

Maximum Design pressure (psf)											
Panel Height (in)	Single Panel Width (in)										
	24.0		30.0		36.0		42.0		44.0		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
78.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	73.8	60.0	70.5	
84.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-	
90.0	60.0	80.0	60.0	80.0	60.0	74.7	-	-	-	-	
96.0	60.0	80.0	60.0	80.0	60.0	70.0	-	-	-	-	
102.0	60.0	80.0	60.0	68.5	-	-	-	-	-	-	
108.0	60.0	71.1	57.5	57.5	-	-	-	-	-	-	
114.0	60.0	60.3	48.7	48.7	-	-	-	-	-	-	
120.0	51.6	51.6	-	-	-	-	-	-	-	-	
126.0	44.5	44.5	-	-	-	-	-	-	-	-	
132.0	38.7	38.7	-	-	-	-	-	-	-	-	
138.0	33.8	33.8	-	-	-	-	-	-	-	-	
144.0	29.7	29.7	-	-	-	-	-	-	-	-	

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Chart #1

Maximum Design pressure (psf)											
Panel Height (in)	Single Panel Width (in)										
	24.0		30.0		36.0		42.0		44.0		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
78.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	
84.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-	
90.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-	
96.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-	-	-	
102.0	60.0	80.0	60.0	78.3	-	-	-	-	-	-	
108.0	60.0	80.0	60.0	65.7	-	-	-	-	-	-	
114.0	60.0	68.9	55.7	55.7	-	-	-	-	-	-	
120.0	59.0	59.0	-	-	-	-	-	-	-	-	
126.0	50.9	50.9	-	-	-	-	-	-	-	-	
132.0	44.2	44.2	-	-	-	-	-	-	-	-	
138.0	38.6	38.6	-	-	-	-	-	-	-	-	
144.0	34.0	34.0	-	-	-	-	-	-	-	-	

Chart #2

Maximum Design pressure (psf)											
Panel Height (in)	Single Panel Width (in)										
	24.0		30.0		36.0		42.0		44.0		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
84.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-	
90.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-	
96.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-	
102.0	80.0	80.0	78.3	78.3	-	-	-	-	-	-	
108.0	80.0	80.0	65.7	65.7	-	-	-	-	-	-	
114.0	68.9	68.9	55.7	55.7	-	-	-	-	-	-	
120.0	59.0	59.0	-	-	-	-	-	-	-	-	
126.0	50.9	50.9	-	-	-	-	-	-	-	-	
132.0	44.2	44.2	-	-	-	-	-	-	-	-	
138.0	38.6	38.6	-	-	-	-	-	-	-	-	
144.0	34.0	34.0	-	-	-	-	-	-	-	-	

THERMA-TRU CORPORATION

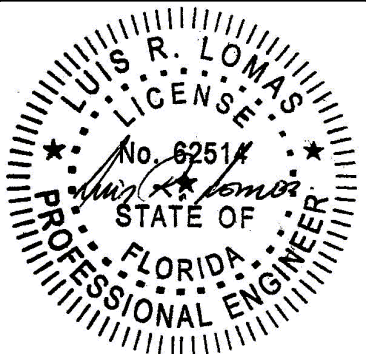
1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
ANCHORING LAYOUT AND DESIGN PRESSURE CHARTS

DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 4 OF 16

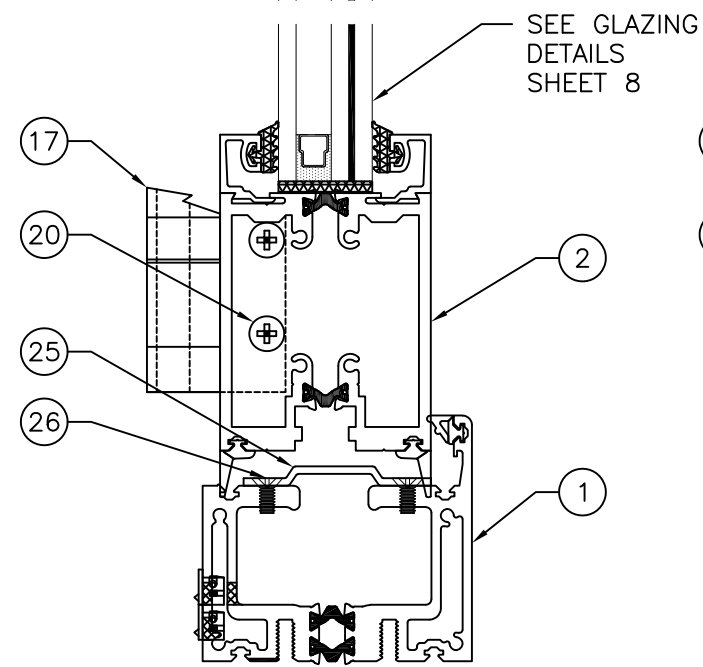
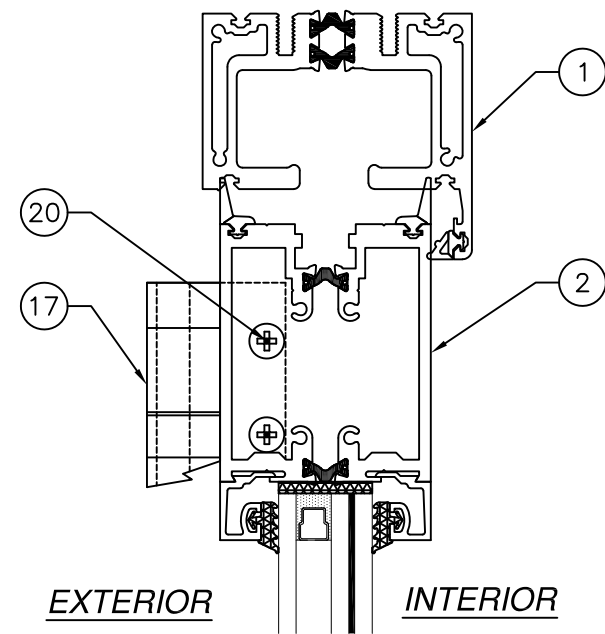
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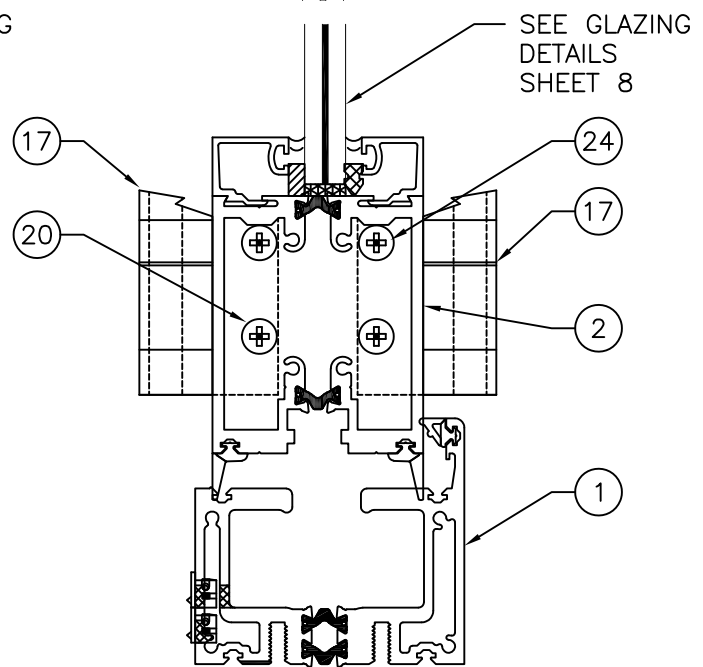
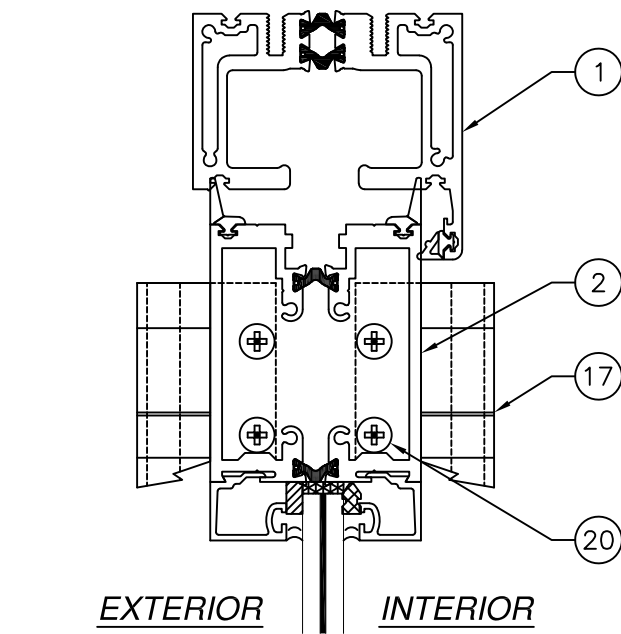


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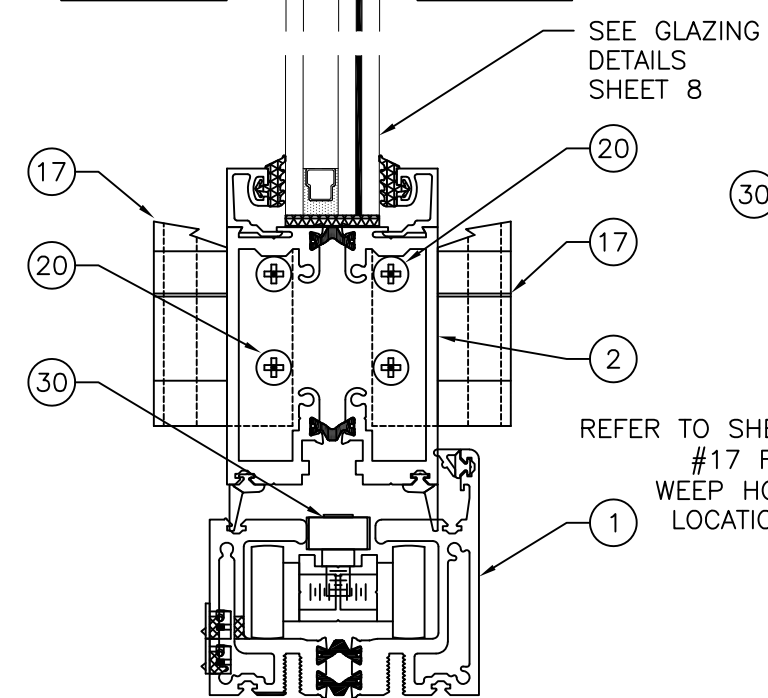
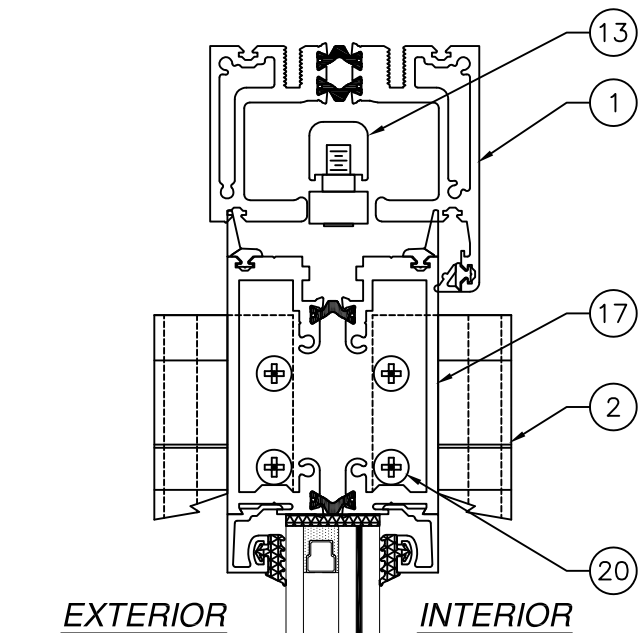
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FOR INSTALLATION DETAILS REFER TO SHEETS 13 -15



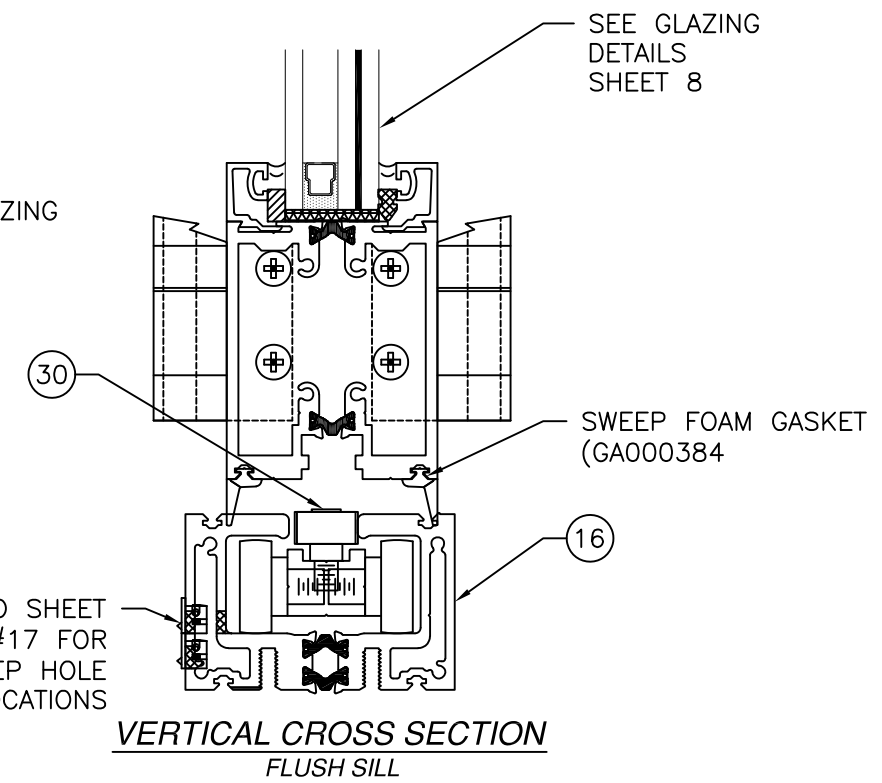
A
5
VERTICAL CROSS SECTION



B
5
VERTICAL CROSS SECTION



C
5
VERTICAL CROSS SECTION
BOTTOM LOAD



VERTICAL CROSS SECTION
FLUSH SILL

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VERTICAL CROSS SECTIONS

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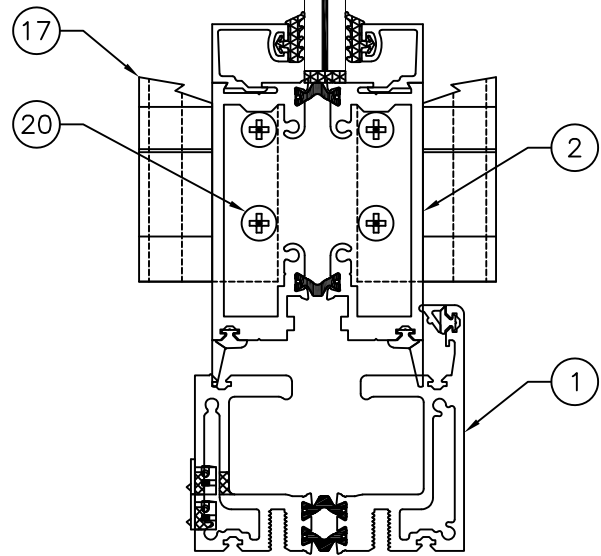
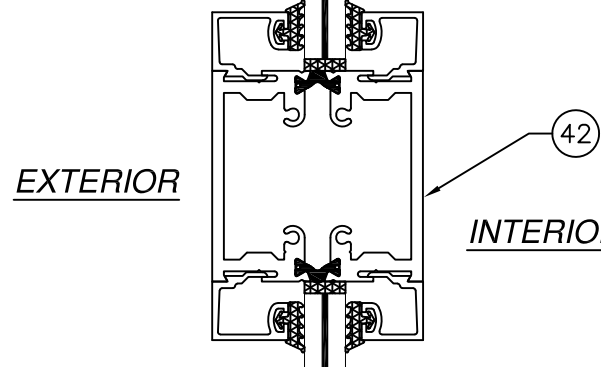
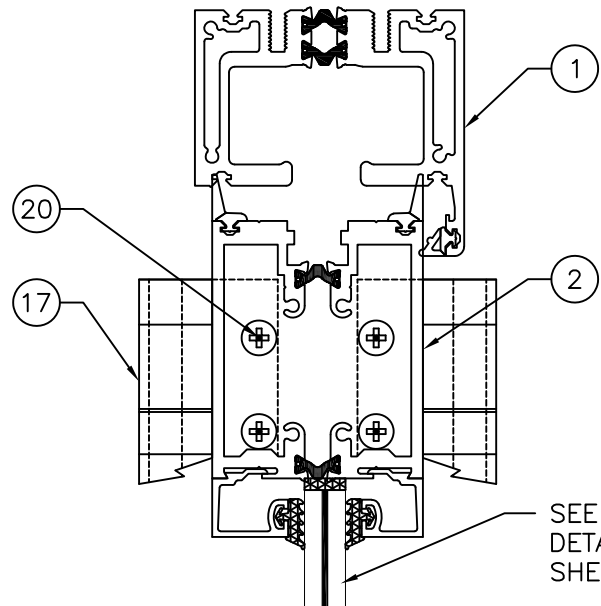
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No. 62514
STATE OF FLORIDA

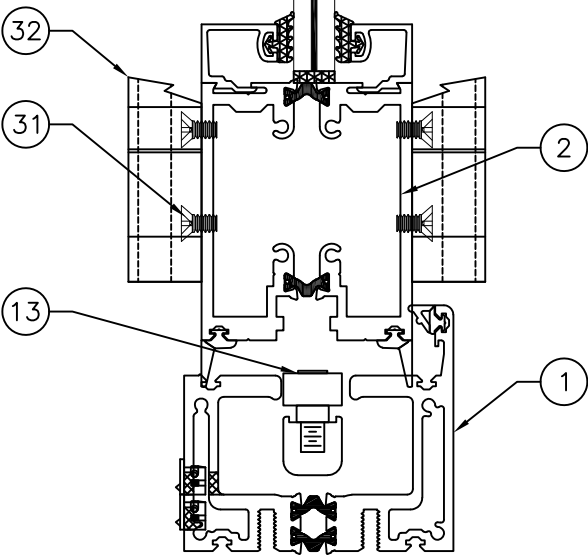
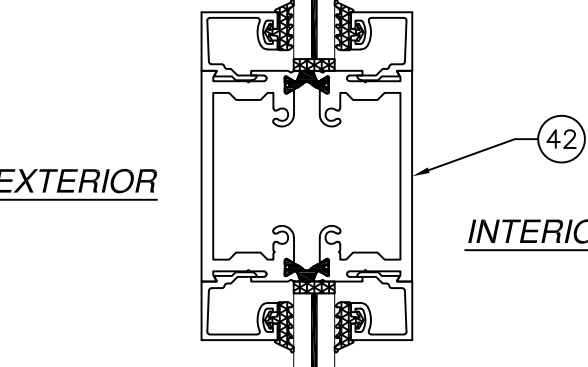
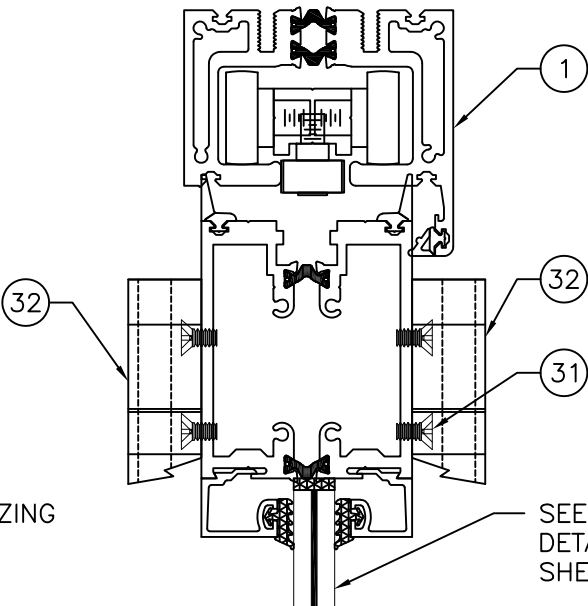
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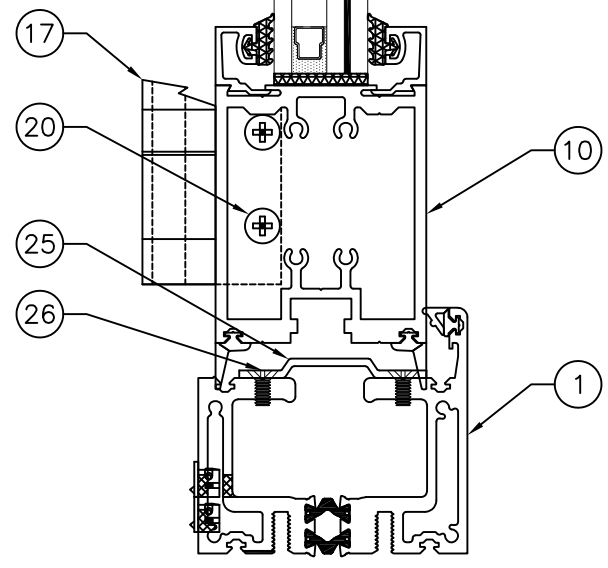
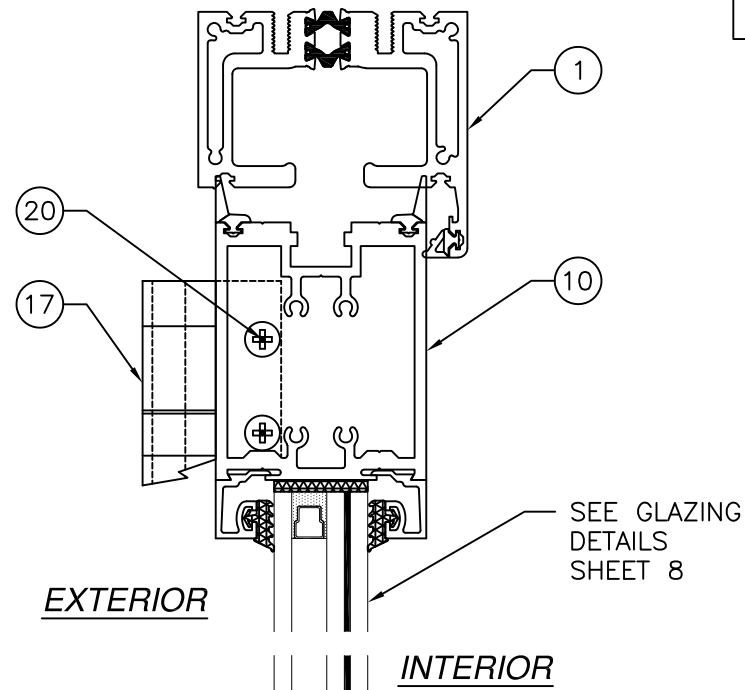
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E
6
VERTICAL CROSS SECTION



F
6
VERTICAL CROSS SECTION
TOP LOAD



A
6
VERTICAL CROSS SECTION
NON-THERMAL PANEL

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VERTICAL CROSS SECTIONS

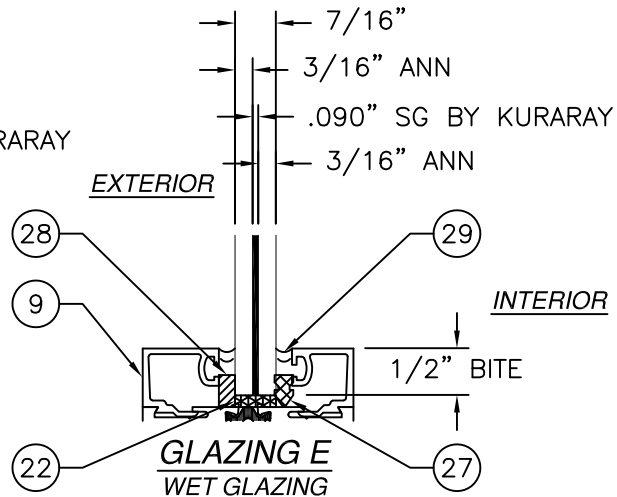
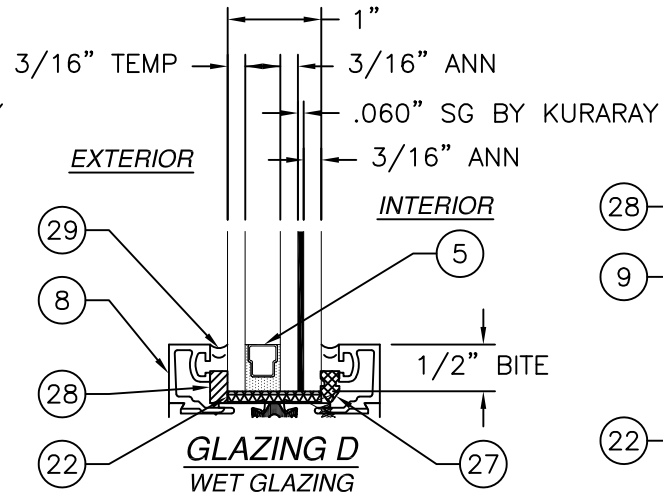
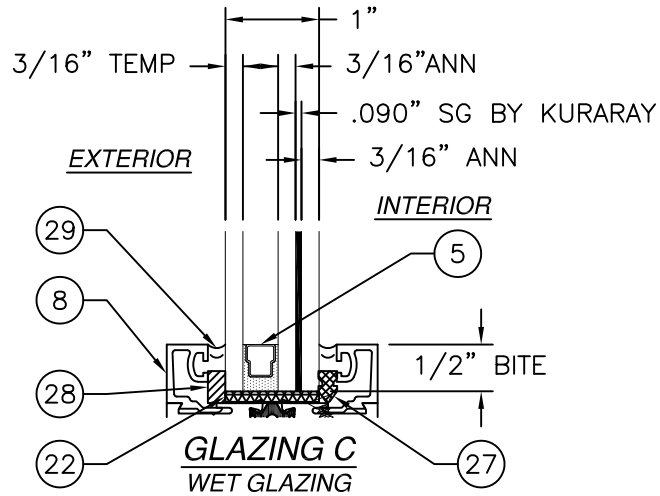
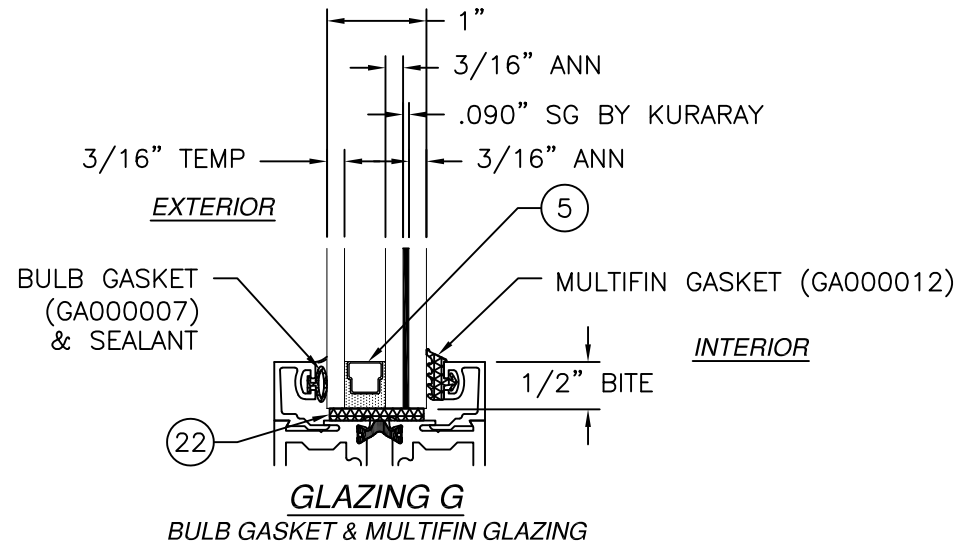
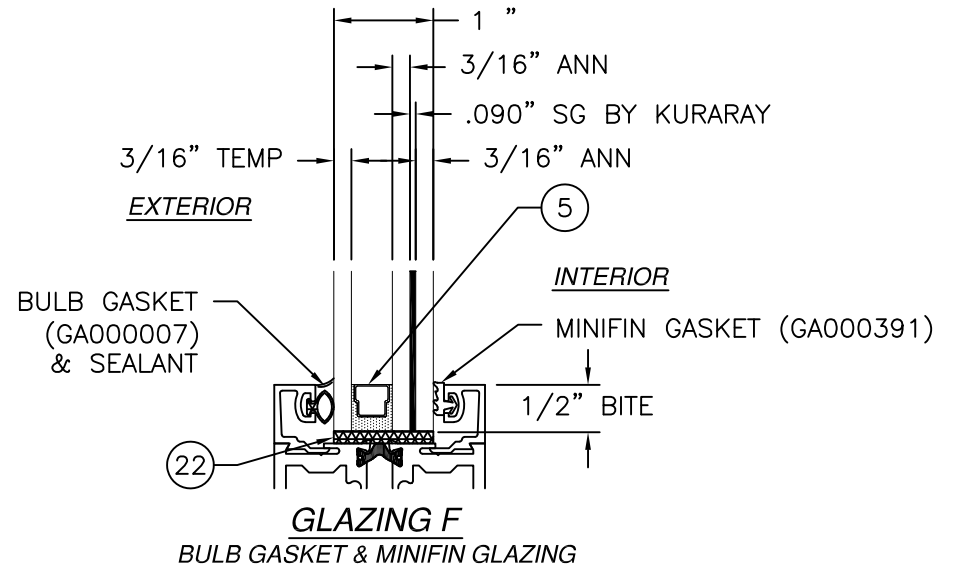
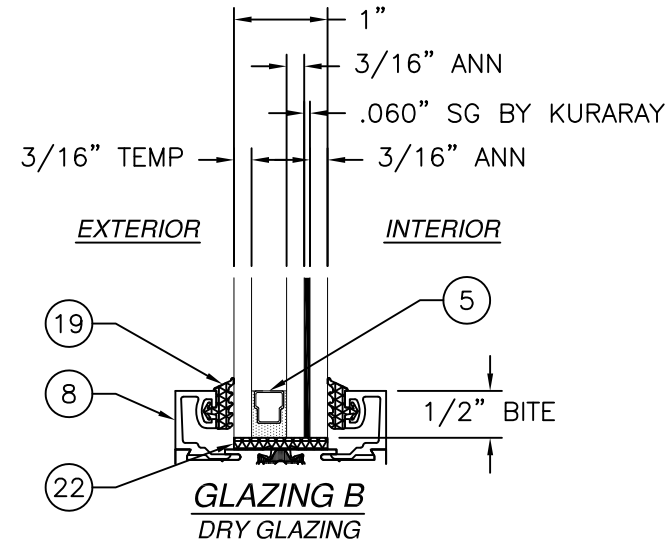
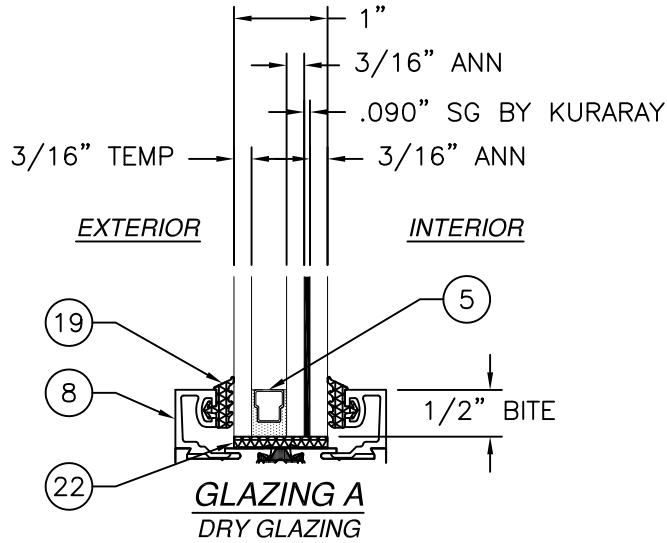
DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 6 OF 16

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 05/19/2026

Luis R. Lomas P.E.
FL No.: 62514

BILL OF MATERIALS			
ITEM NO.:	PART NUMBER	DESCRIPTION	MATERIAL
1	EA012997	DUAL WHEEL HEAD/SILL ASSY	ALUMINUM 6063-T5
2	S45004	REGULAR THERMAL FRAME	ALUMINUM 6063-T5
3	S54168	FRAME CAP	ALUMINUM 6063-T5
4	H07559	FRAME LUG	ALUMINUM 6063-T5
5	TLP250	SPACER SYSTEM BY CARDINAL SPACER SYSTEM BY VITRO	STAINLESS STEEL ALUMINUM
6	47086	HANDLE LOW PROFILE	ALUMINUM 6063-T5
7	45995	HANDLE RECESSED/FLUSH	ALUMINUM 6063-T5
8	34713	GLASS STOP 1"	ALUMINUM 6063-T5
9	34714	GLASS STOP 9/16"	ALUMINUM 6063-T5
10	12862	NON-THERMAL FRAME	ALUMINUM 6063-T5
11	H11722	HINGE EXTENSION HEAVY	ALUMINUM 6063-T5
12	S50311	TROLLEY BODY	ALUMINUM 6063-T5
13	S34717	IDLER BODY	ALUMINUM 6063-T5
14	H07606	HINGE	ALUMINUM 6063-T5
15	S34841	HINGE COVER	ALUMINUM 6063-T5
16	12497/13486	FLUSH SILL	ALUMINUM 6063-T5
17	H10684	HINGE SEMI CONCEALED	ALUMINUM 6063-T5
18	S47543	FRAME NARROW THERMAL	ALUMINUM 6063-T5
19	GA000012	MULTIFIN GASKET	EPDM 70 SHORE A
20	FA000447	#10-32 X 5/8" FH SS SCREW	
21	549375	REGULAR RAIL INSERT	ALUMINUM 6063-T5
22	CN001129	1/8" SETTING BLOCK	
23		2 POINT LOCK	
24		3 POINT LOCK	
25	S59568	TROLLEY COVER	ALUMINUM 6063-T5
26	FA001037	#8-32 X 1/4" CS MS	
27	GA000017	ARROW SHIM	
28		1/8" HARD SHIM	
29		SILPRUF	
30		TROLLEY ASSY BOTTOM LOAD	ALUMINUM 6063-T5
31		#10-32 X 3/8" FH SMS	
32		SURFACE MOUNT HINGE	ALUMINUM 6063-T5
33	FA000512	#12 X 1" FH SLEF DRILLING SCREW	
34	GA000352	GASKET GEN 3	
35		2 POINT LOCK	
36	FA000448	#10-32 X 1" CS MS	
37	52262	SLIDE-IN DOOR STOP	ALUMINUM 6063-T5
38	GA000022-00-02	BULB GASKET	
39	40921	DOOR ADAPTER	ALUMINUM 6063-T5
40		FLUSH BOLT	
41	GA000384	FOAM SWEEP GASKET	
42	44793	MULLION	ALUMINUM 6063-T5



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.

THERMA-TRU CORPORATION

1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
GLAZING DETAILS

DRAWN:
R.L.

DWG NO.
08-03863

REV
A

SCALE
NTS

DATE
11/02/22

SHEET
7 OF 16

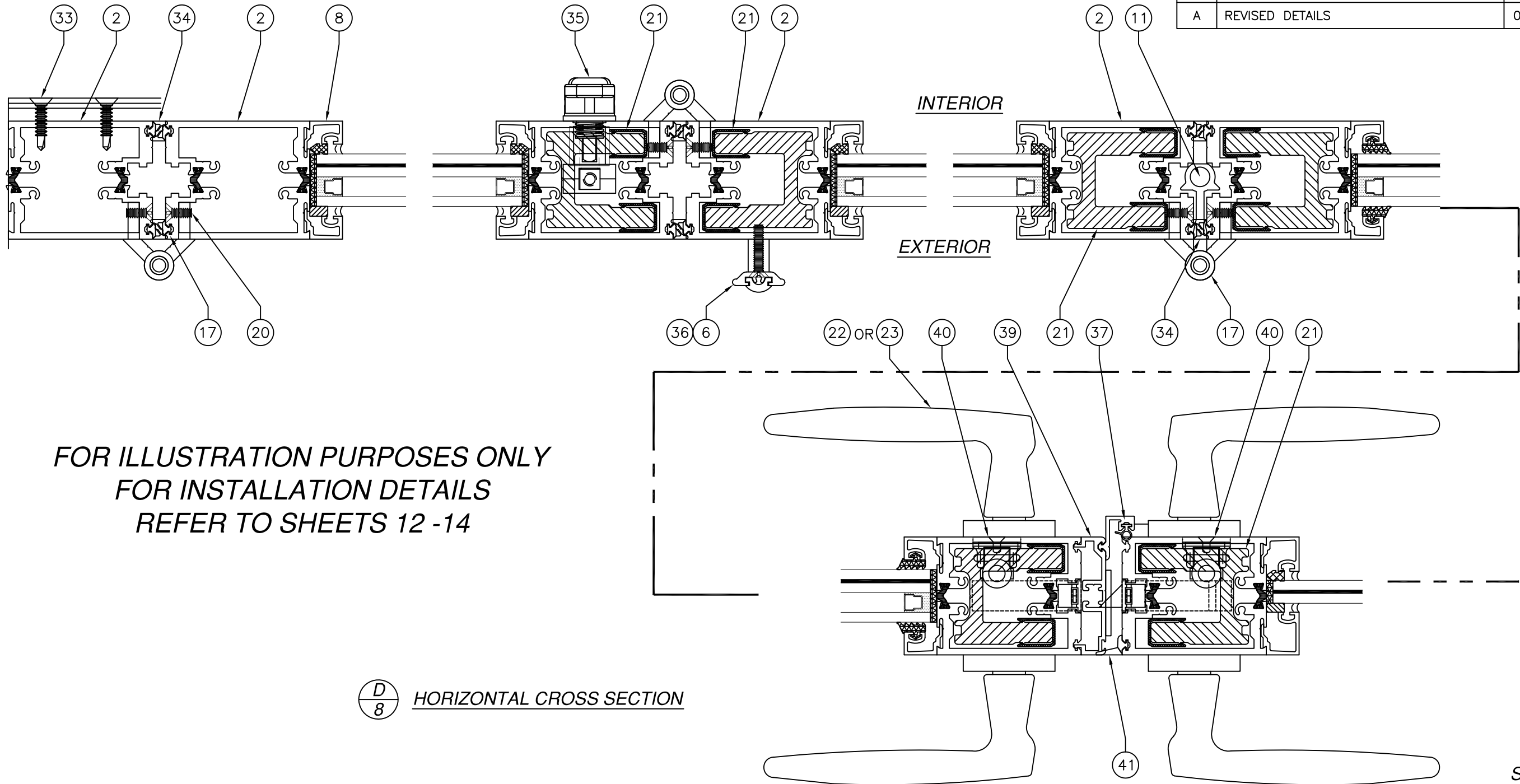
L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrllomaspe.com

SIGNED: 05/19/2026

LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.



FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS
REFER TO SHEETS 12 -14

CONTINUED
IN SHEET 9

$\frac{D}{8}$ HORIZONTAL CROSS SECTION

SIGNED: 05/19/2026

THERMA-TRU CORPORATION

1750 INDIAN WOOD CIRCLE

MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD

ALUMINUM REINFORCED - IMPACT - HVHZ

HORIZONTAL CROSS SECTIONS

DRAWN: R.L.

DWG NO. 08-03863

REV A

SCALE NTS

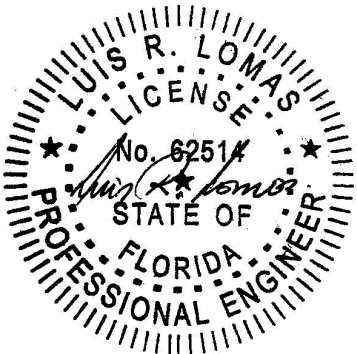
DATE 11/02/22

SHEET 8 OF 16

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

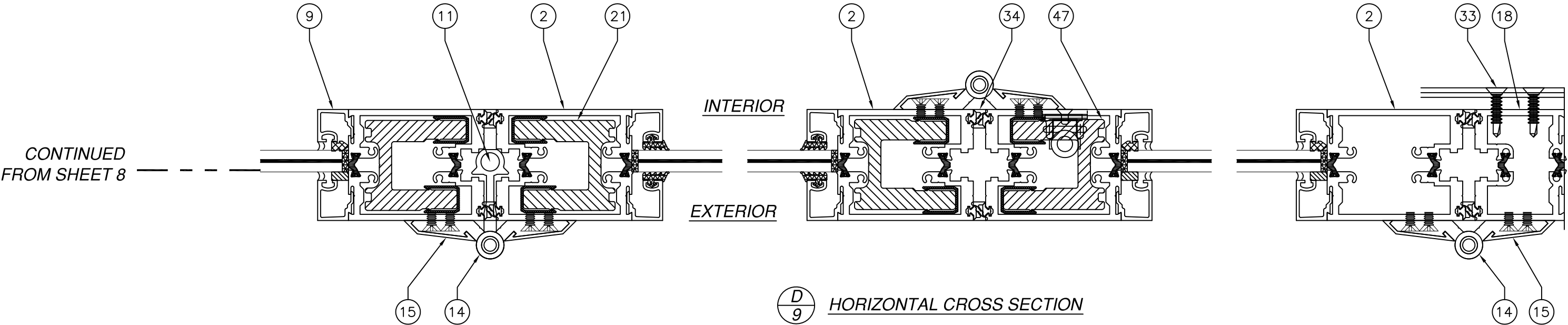
434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
FL No.: 62514

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 12 -14

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.



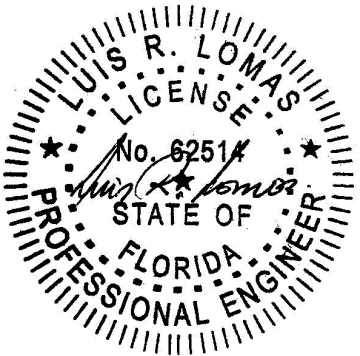
SIGNED: 05/19/2026

THERMA-TRU CORPORATION
1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
HORIZONTAL CROSS SECTIONS

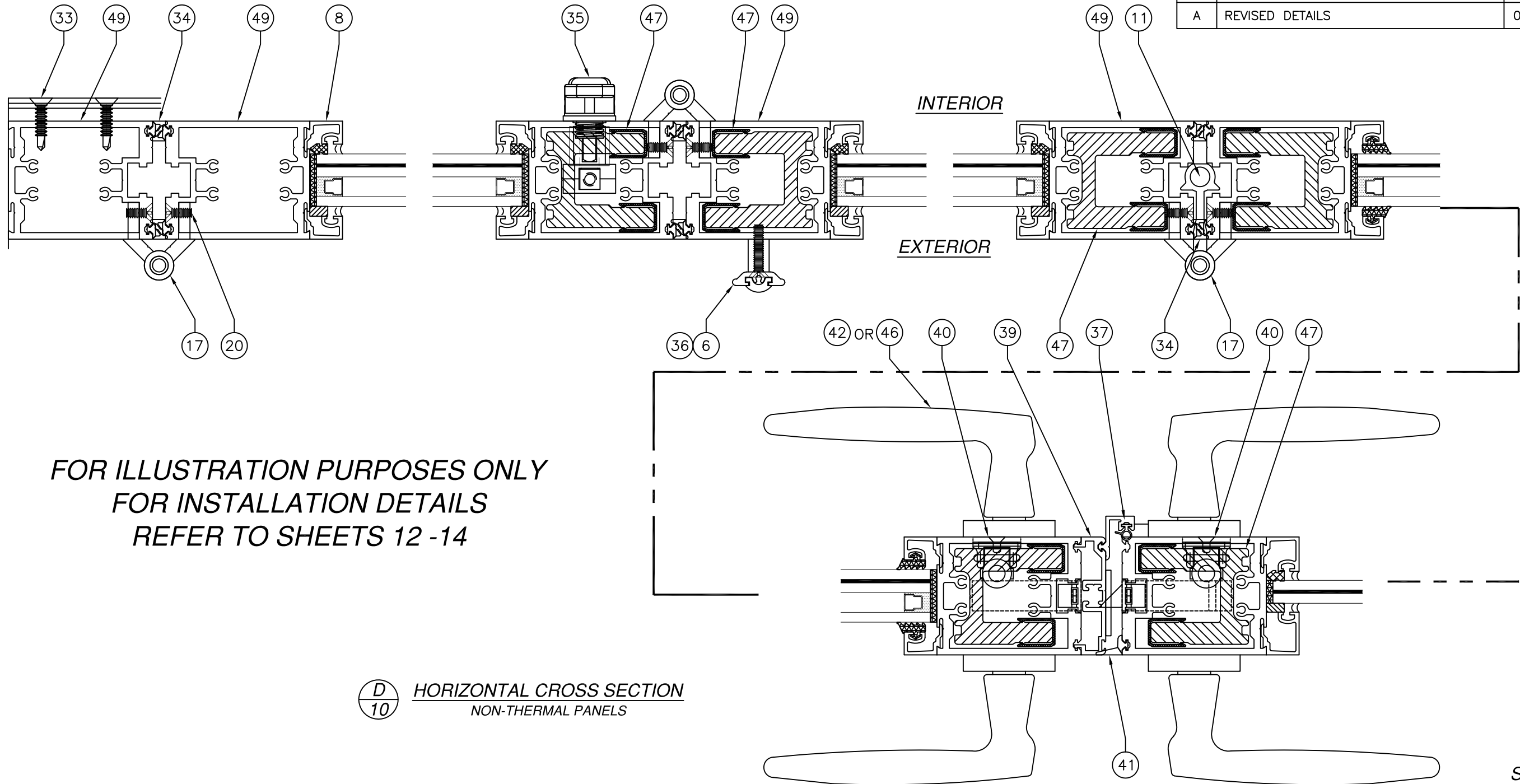
DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 9 OF 16

L. ROBERTO LOMAS P.E.
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Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.



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FOR INSTALLATION DETAILS
REFER TO SHEETS 12 -14

CONTINUED
IN SHEET 11

D
10 HORIZONTAL CROSS SECTION
NON-THERMAL PANELS

SIGNED: 05/19/2026

THERMA-TRU CORPORATION
1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
HORIZONTAL CROSS SECTIONS

DRAWN:
R.L.

DWG NO.
08-03863

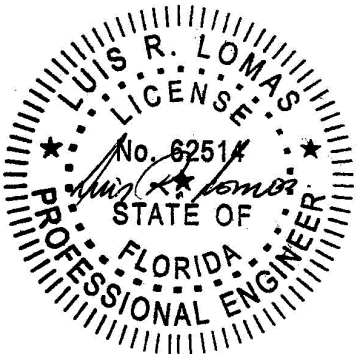
REV
A

SCALE
NTS

DATE
11/02/22

SHEET
10 OF 16

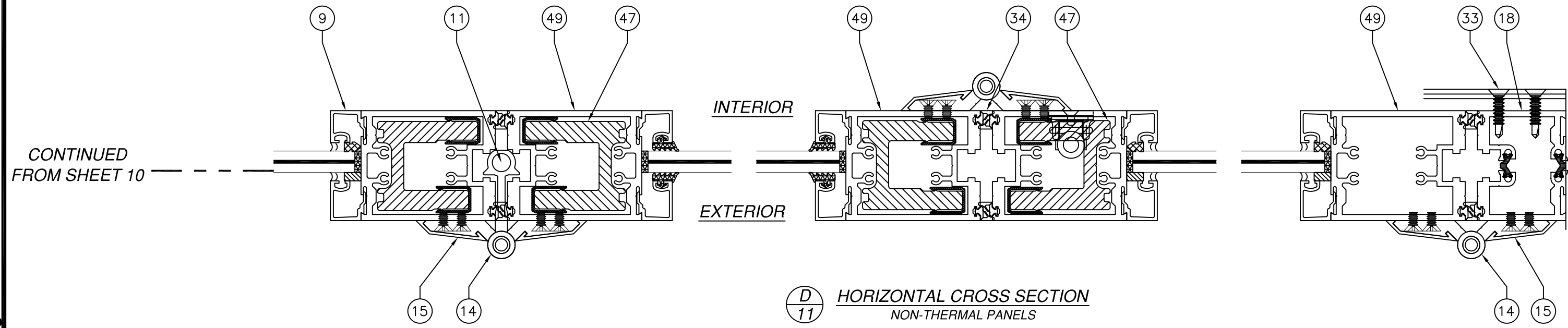
L. ROBERTO LOMAS P.E.
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FL No.: 62514

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 12 -14

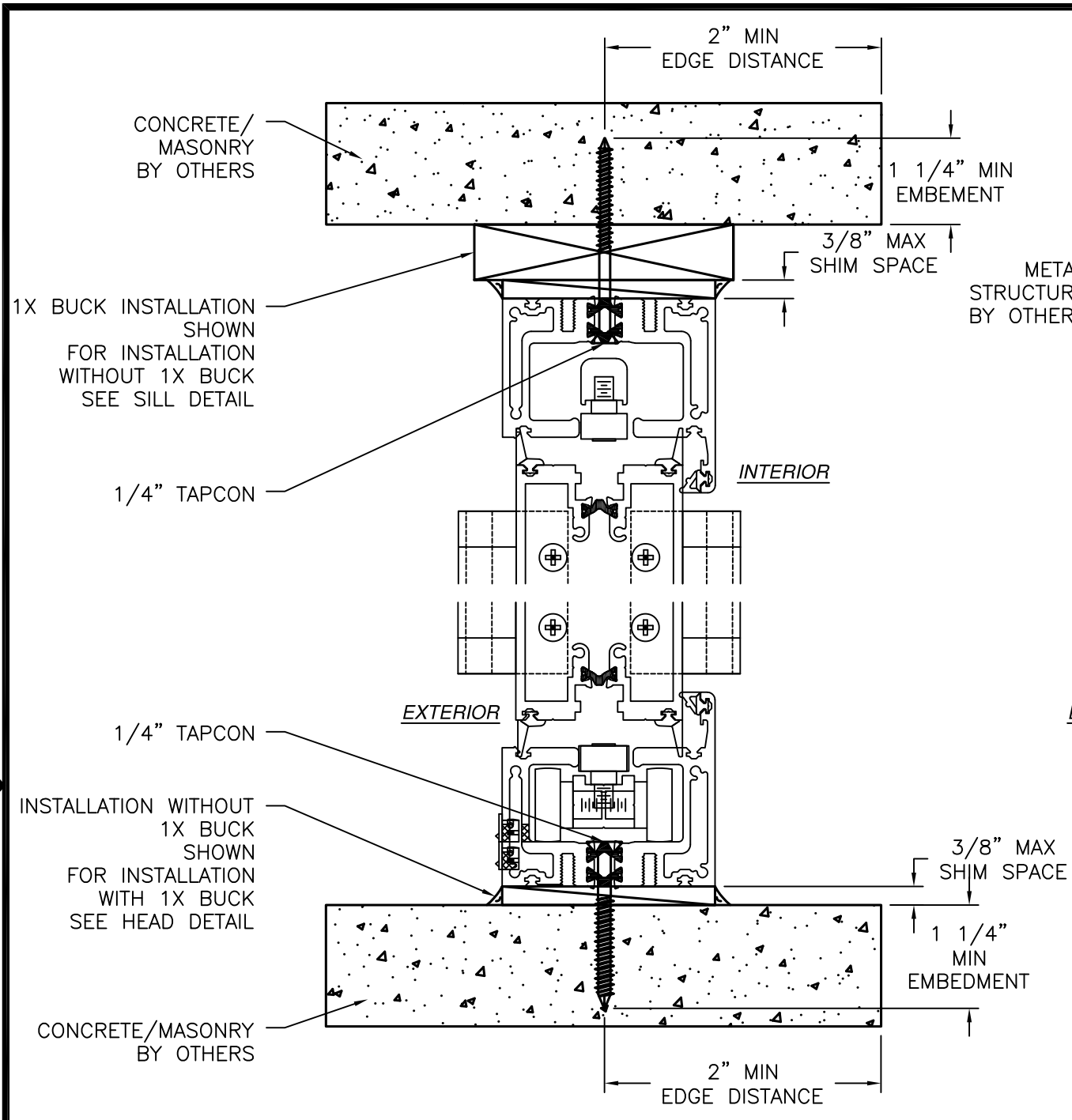
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.



SIGNED: 05/19/2026

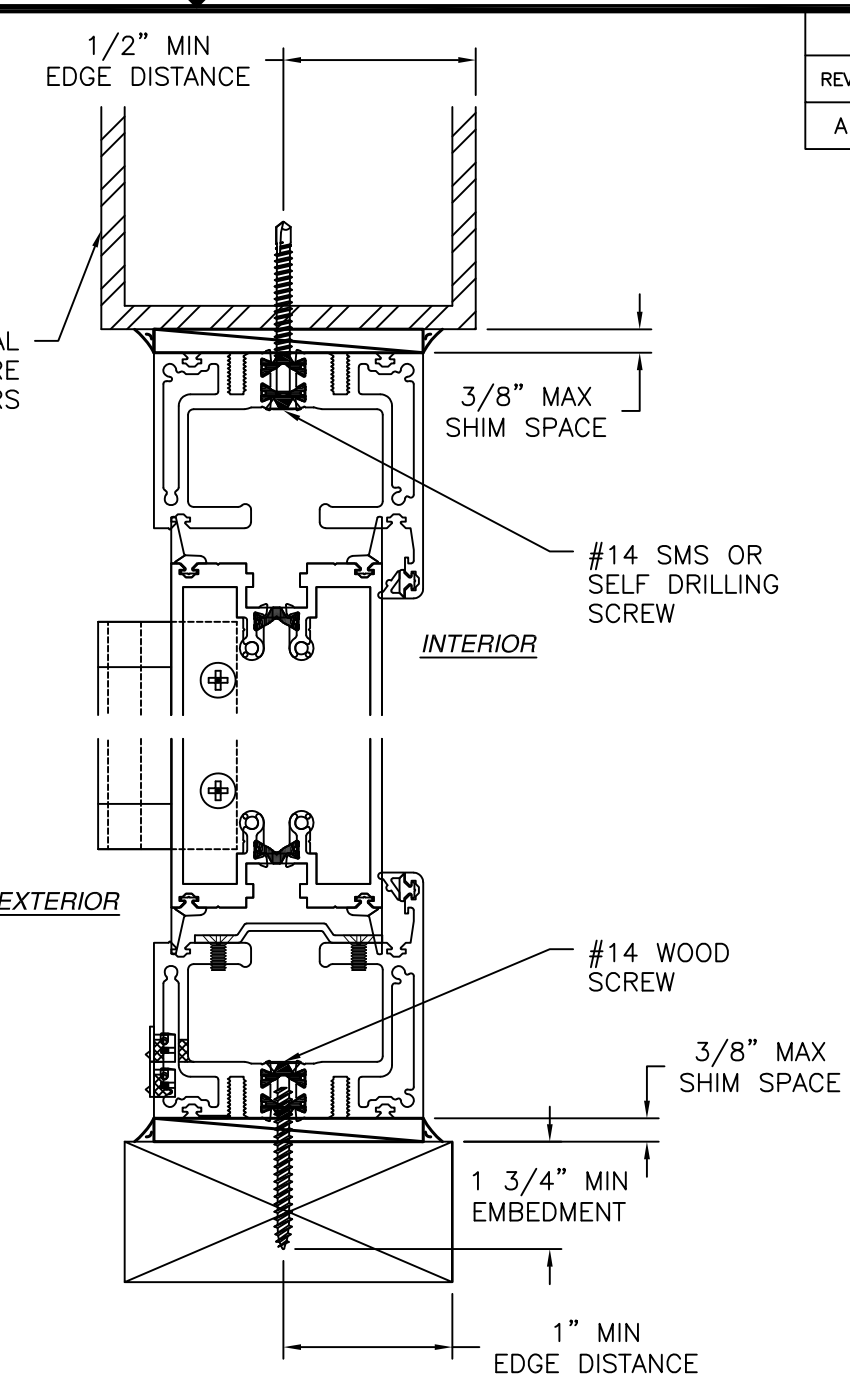
THERMA-TRU CORPORATION 1750 INDIAN WOOD CIRCLE MAUMEE, OH 43537		
SERIES V-2 FGW 3X8 PANEL OUTFOLD ALUMINUM REINFORCED - IMPACT - HVHZ HORIZONTAL CROSS SECTIONS		
DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 11 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
STANDARD SILL SHOWN FLUSH SILL SIMILAR

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



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK
OR METAL STRUCTURE INSTALLATION
STANDARD SILL SHOWN FLUSH SILL SIMILAR

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.

THERMA-TRU CORPORATION
1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

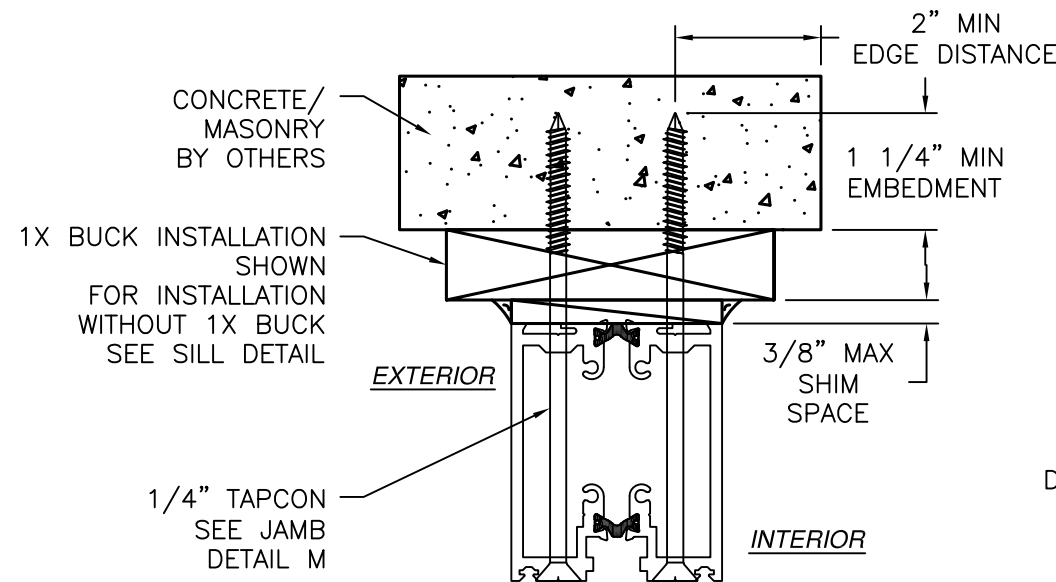
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ALUMINUM REINFORCED - IMPACT - HVHZ
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 12 OF 16

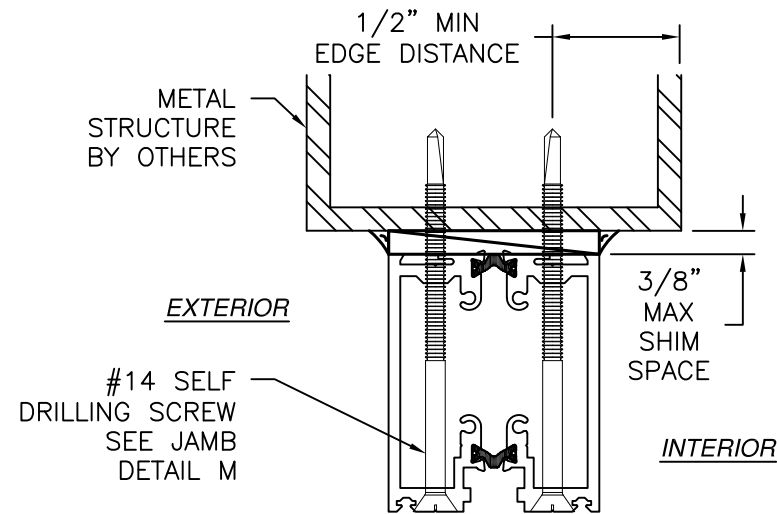
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 05/19/2026

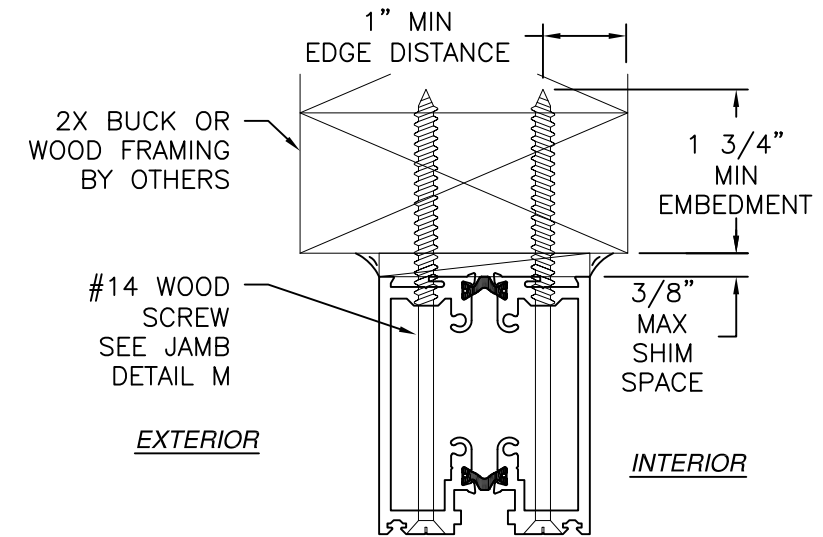
Luis R. Lomas P.E.
FL No.: 62514



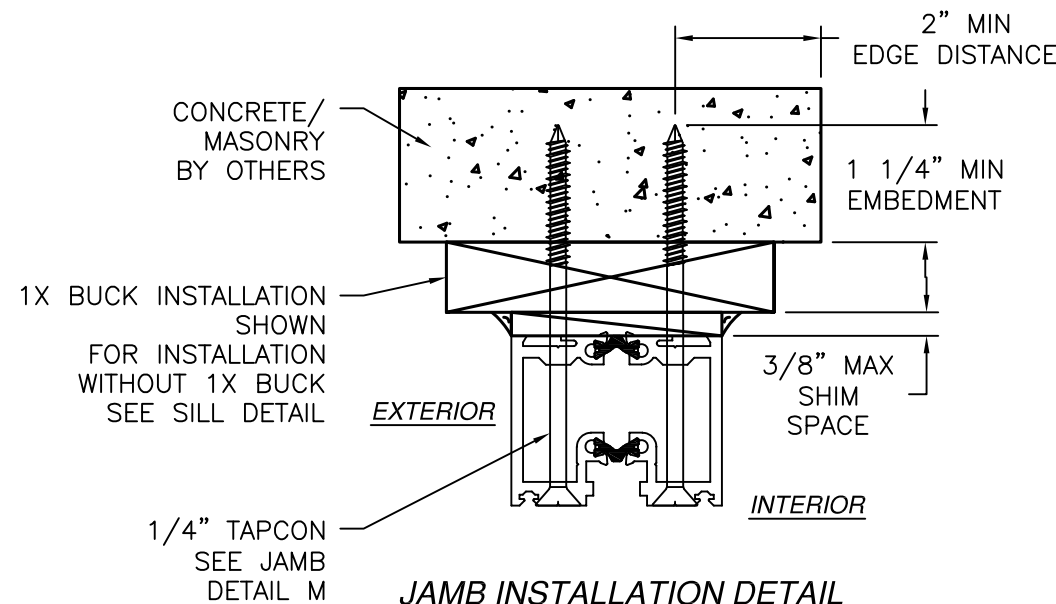
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CONCRETE/MASONRY
S45004 NO REINFORCEMENT



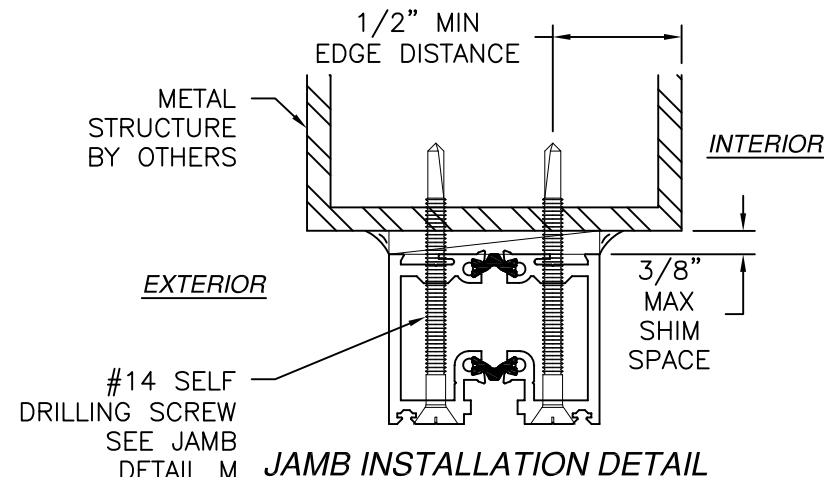
JAMB INSTALLATION DETAIL
METAL STRUCTURE
S45004 NO REINFORCEMENT



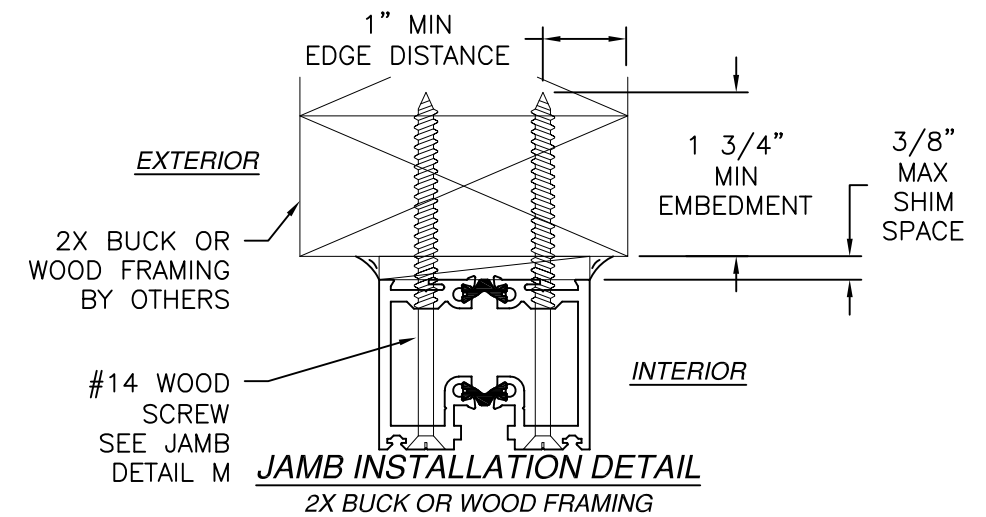
JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING
S45004 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
S47543 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
METAL STRUCTURE
S47543 NO REINFORCEMENT



JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING
S47543 NO REINFORCEMENT

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

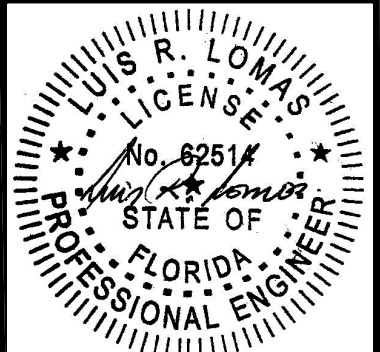
THERMA-TRU CORPORATION
1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 13 OF 16

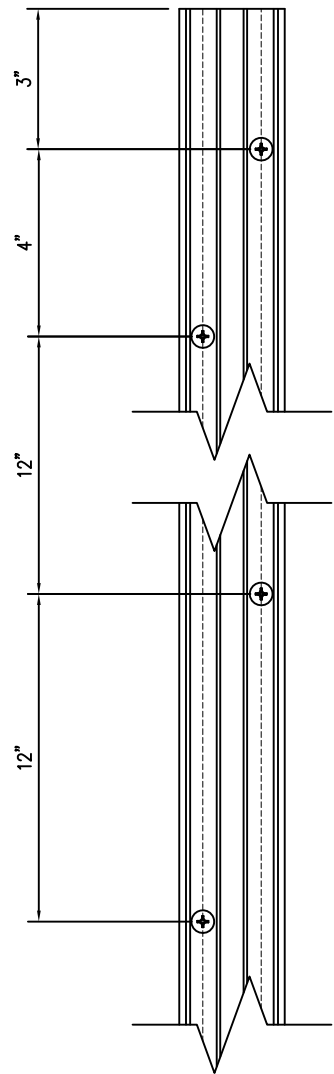
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 05/19/2026

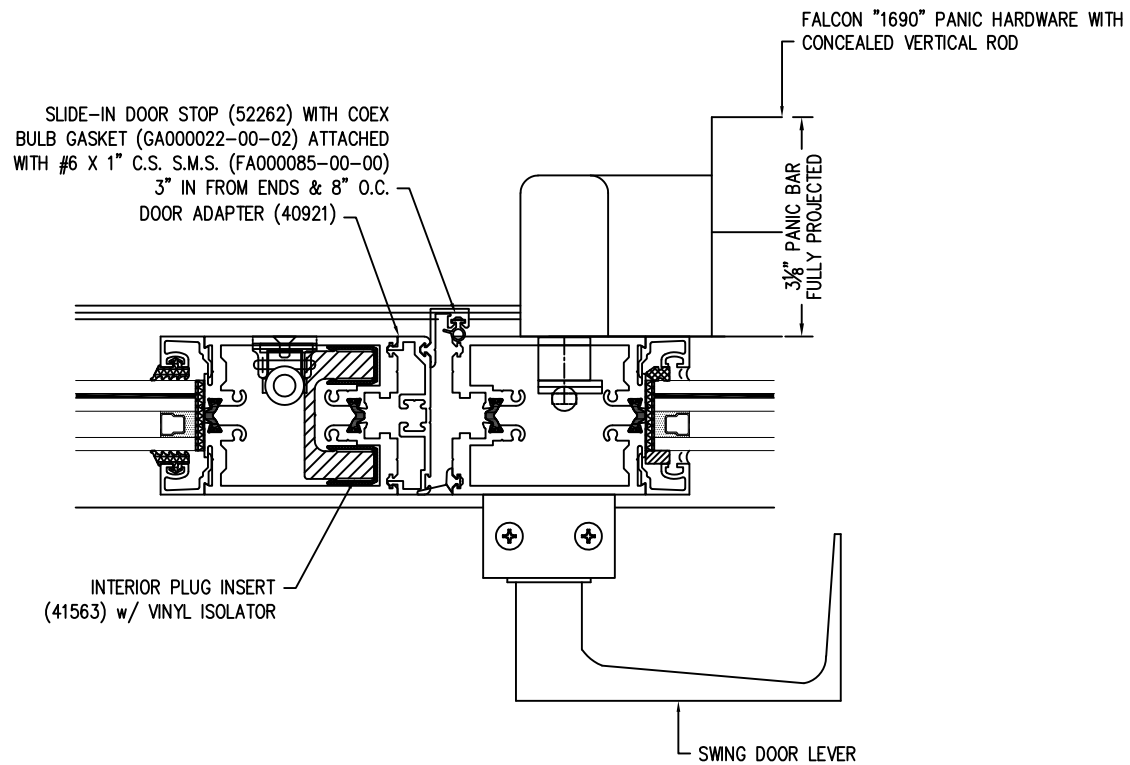


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.



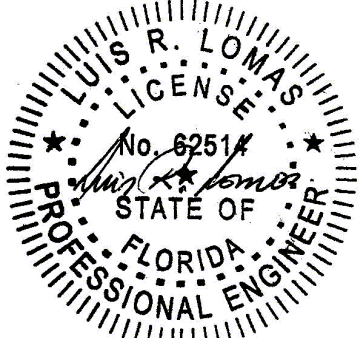
JAMB INSTALLATION DETAIL L



PANIC BAR DETAILS

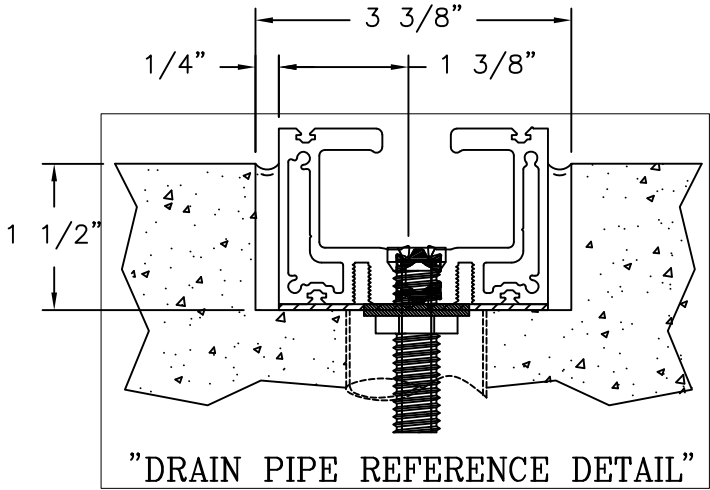
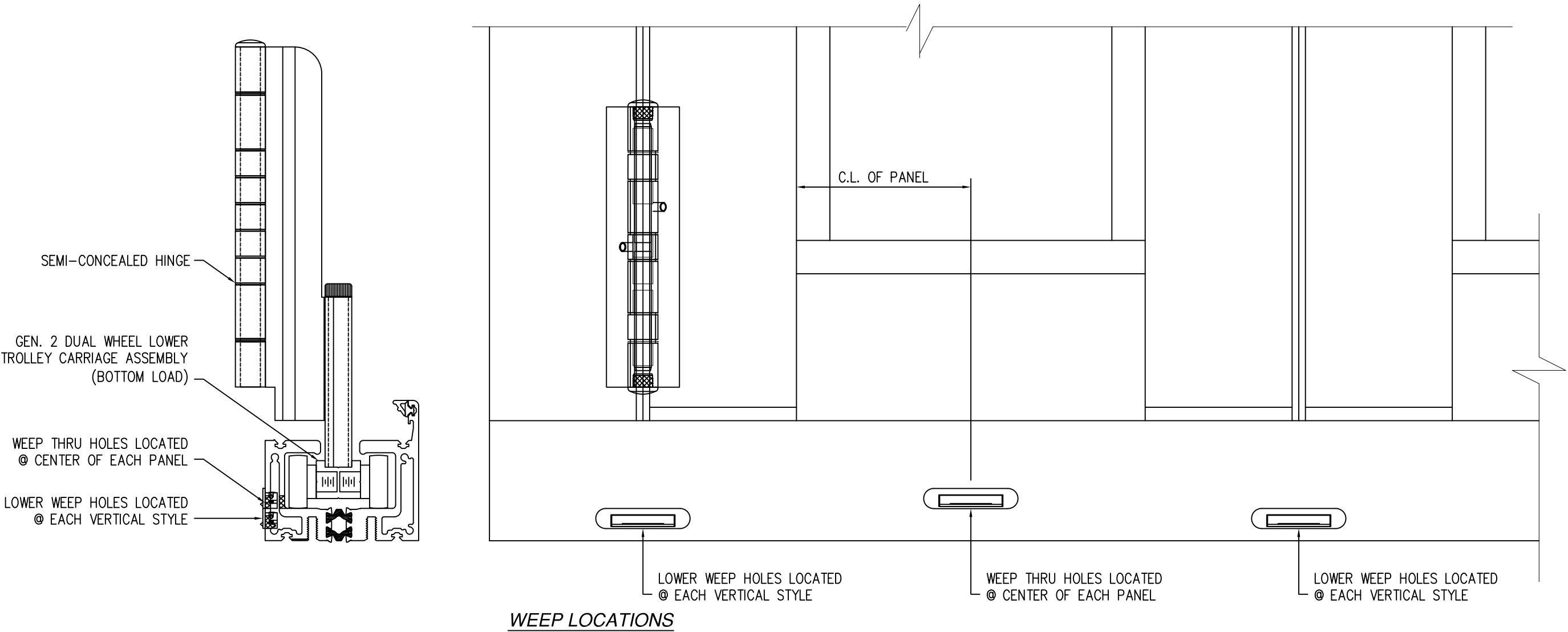
SIGNED: 05/19/2026

THERMA-TRU CORPORATION 1750 INDIAN WOOD CIRCLE MAUMEE, OH 43537		
SERIES V-2 FGW 3X8 PANEL OUTFOLD ALUMINUM REINFORCED - IMPACT - HVHZ INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-03863	REV A
SCALE NTS	DATE 11/02/22	SHEET 14 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.



THERMA-TRU CORPORATION

1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD

ALUMINUM REINFORCED - IMPACT - HVHZ

WEEP LOCATIONS

DRAWN: R.L.

DWG NO. 08-03863

REV A

SCALE NTS

DATE 11/02/22

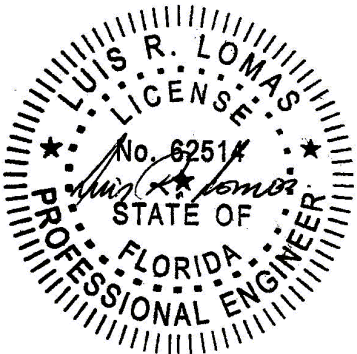
SHEET 15 OF 16

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

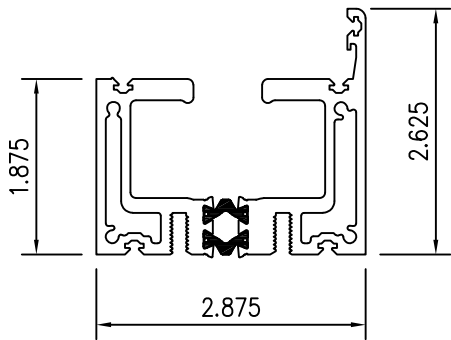
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 05/19/2026

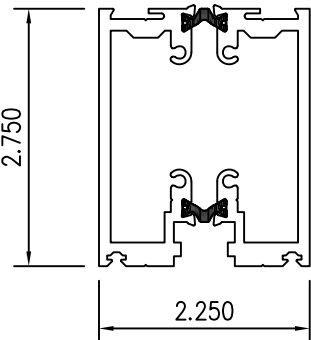


Luis R. Lomas P.E.
FL No.: 62514

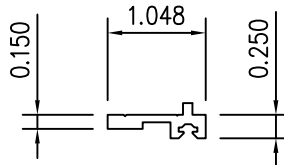
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED DETAILS	05/16/26	R.L.



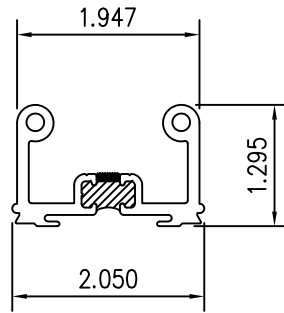
1 DUAL WHEEL
HEAD / SILL



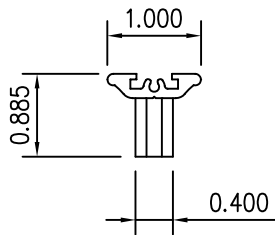
2 REGULAR
FRAME



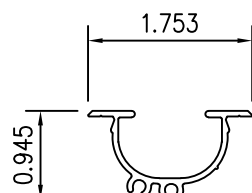
3 FRAME
CAP



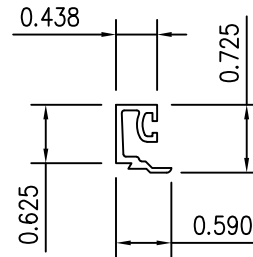
4 FRAME
LUG



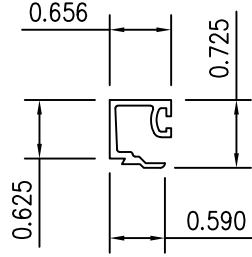
6 LOW-PROFILE
HANDLE



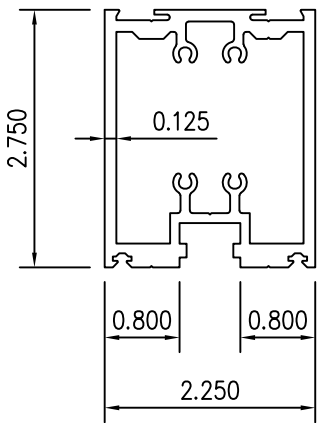
7 RECESSED / FLUSH
HANDLE



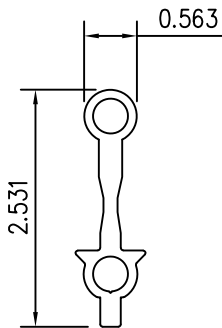
8 1" GLASS
STOP



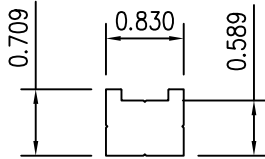
9 9/16" GLASS
STOP



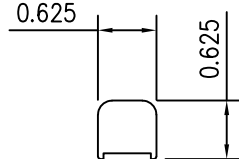
10 FRAME
NON-THERMAL



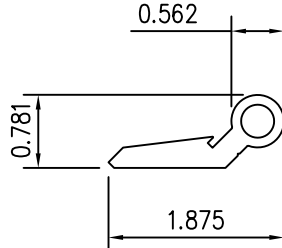
11 HEAVY
HINGE



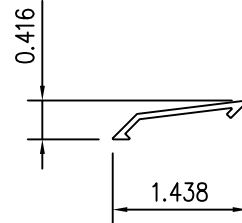
12 TROLLEY
BODY



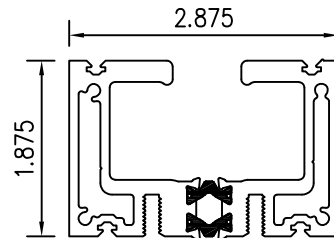
13 IDLER
BODY



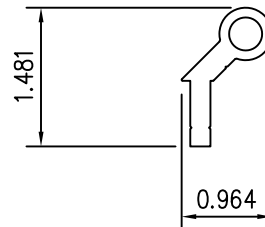
14 5 1/4"
HINGE



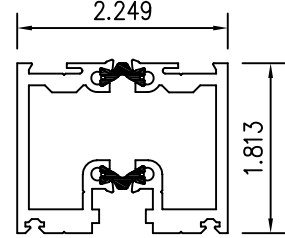
15 5 1/4"
HINGE COVER



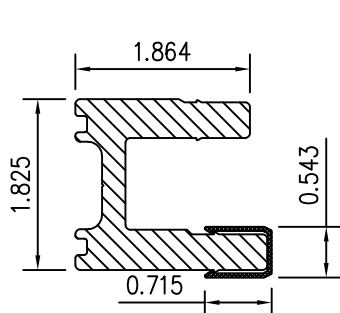
16 FLUSH SILL



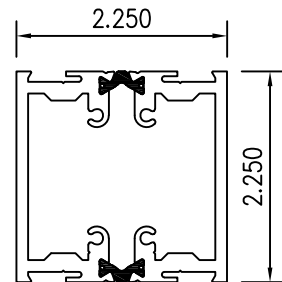
17 5 1/4" SEMI-
CONCEALED HINGE



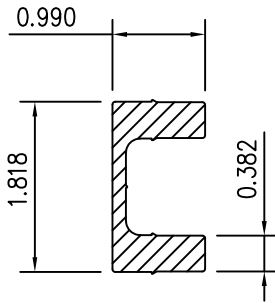
18 FRAME
NARROW



21 REGULAR
RAIL INSERT



42 MULLION
FRAME



PANIC BAR
ALUMINUM INSERT

THERMA-TRU CORPORATION

1750 INDIAN WOOD CIRCLE
MAUMEE, OH 43537

SERIES V-2 FGW 3X8 PANEL OUTFOLD
ALUMINUM REINFORCED - IMPACT - HVHZ
COMPONENTS

DRAWN: R.L.

DWG NO. 08-03863

REV A

SCALE NTS

DATE 11/02/22

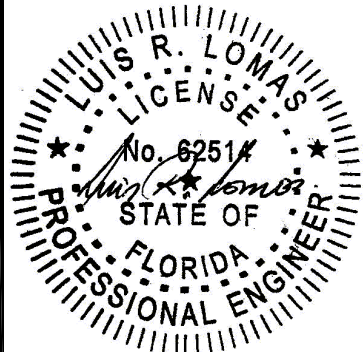
SHEET 16 OF 16

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

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SIGNED: 05/19/2026



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