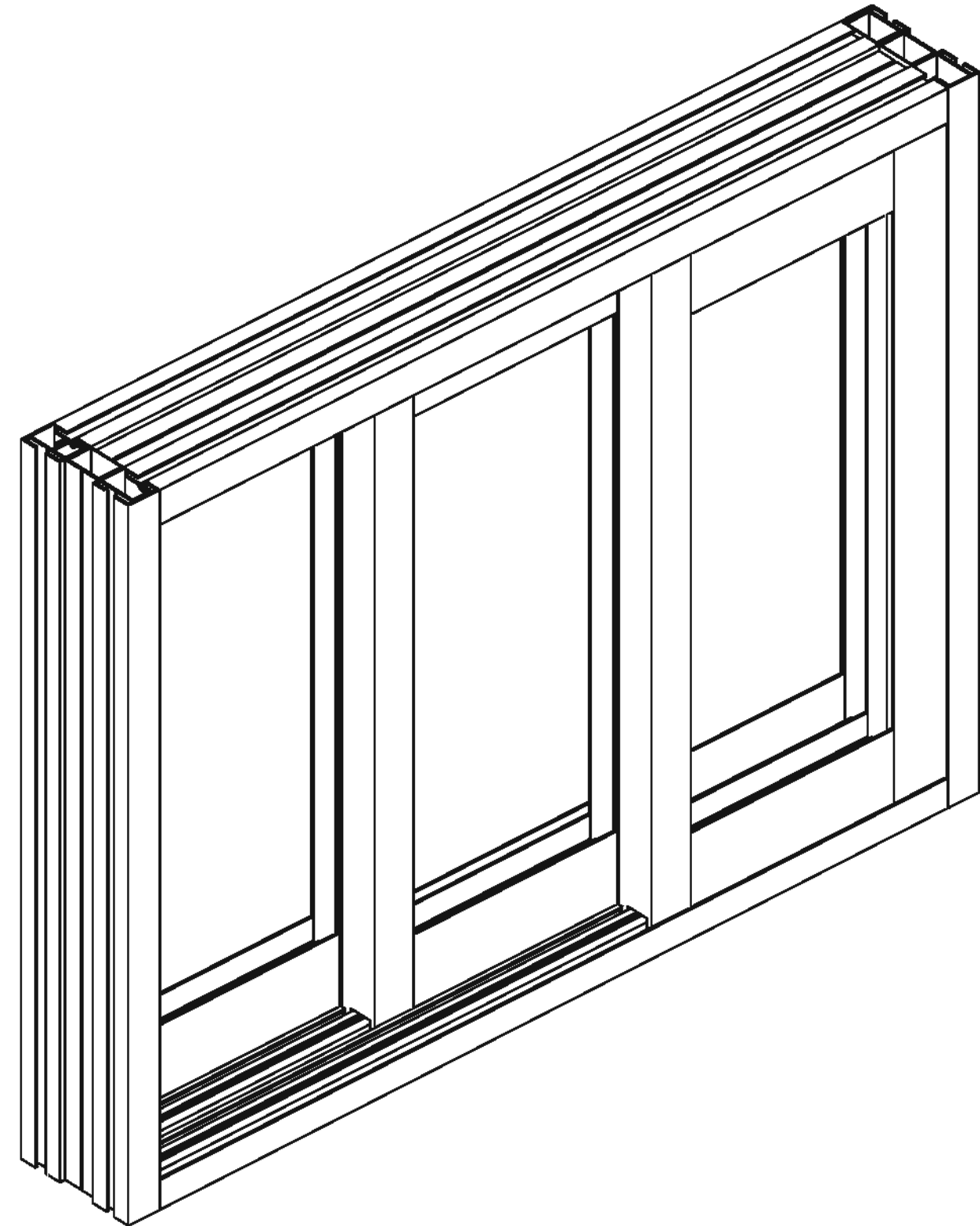


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UNITED GLASS SYSTEMS
7000 SERIES SLIDING GLASS DOOR & WINDOW SYSTEM
LARGE MISSILE IMPACT (LMI)
MISSILE LEVEL "D"



GENERAL NOTES:

1. THIS SYSTEM HAS BEEN TESTED AND EVALUATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) PER a. TAS 201 / 202 / 203
2. SITE-SPECIFIC REQUIRED DESIGN PRESSURES SHALL BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER FOR USE WITH THIS DOCUMENT PER CURRENT ADOPTED EDITION OF ASCE 7 AND WITH LOCAL CODE REQUIREMENTS.
3. FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd-1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
6. 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. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. 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.
8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBER FORM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
9. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
10. 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 & APPELATE 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.
11. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
12. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
13. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
14. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
15. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:
UNITED GLASS SYSTEMS
3500 SW 15TH STREET
DEERFIELD BEACH, FL 33442
APPROVED BY FLORIDA BUILDING COMMISSION

SHEET INDEX

# SHEET	DESCRIPTION
01	COVER SHEET
02-8	ELEVATIONS
09	ANCHORING SCHEDULE
10-16	DETAILS
17-23	EXTRUSIONS / PART LIST
23	TOTAL

VISIT [EALC.IO/2029346](https://ecalculator.com/2029346)

FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES



Frank Bennardo
2020.10.21
15:30:30 -04'00'

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885



FL# 24119.1

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UNITED GLASS SYSTEMS

3500 SW 15TH STREET
DEERFIELD BEACH, FL
Phn. (754) 227-5287

7000 SERIES ALUMINUM SLIDING GLASS DOOR & WINDOWS
FLORIDA STATE APPROVAL

REMARKS	DATE	CHKD	DATE	CHKD
INT ISSUE	08/13/20	JEM	08/13/20	JEM
2020 PBC UPDATE		JPC		JPC

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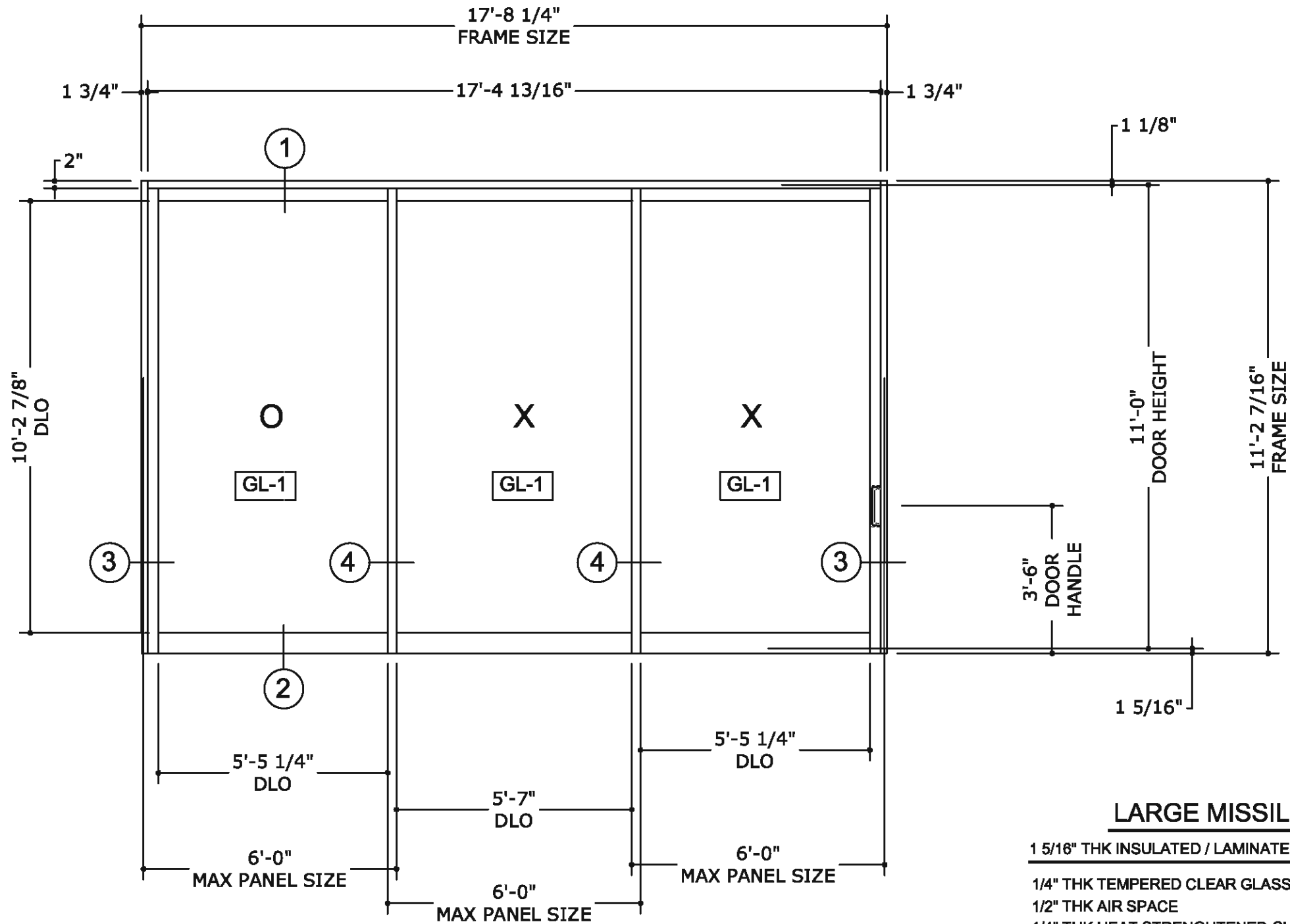
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ELEVATION - A
7000 SERIES SLIDING GLASS DOOR
1 5/16" THK INSULATED / LAMINATED GLASS

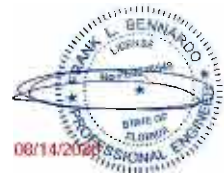
DESIGN PRESSURE: +100 -100 PSF
CYCLIC PRESSURE: +100 -100 PSF



LARGE MISSILE - GL-1
1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:
1/4" THK TEMPERED CLEAR GLASS
1/2" THK AIR SPACE
1/4" THK HEAT STRENGTHENED CLEAR GLASS
.090 THK SENTRY GLASS PLUS (SGP) BY KURARAY INC.
1/4" THK HEAT STRENGTHENED CLEAR GLASS

SMALL MISSILE - GL-2
1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:
1/4" THK TEMPERED CLEAR GLASS
1/2" THK AIR SPACE
1/4" THK HEAT STRENGTHENED CLEAR GLASS
.060 PVB INTERLAYER
1/4" THK HEAT STRENGTHENED CLEAR GLASS

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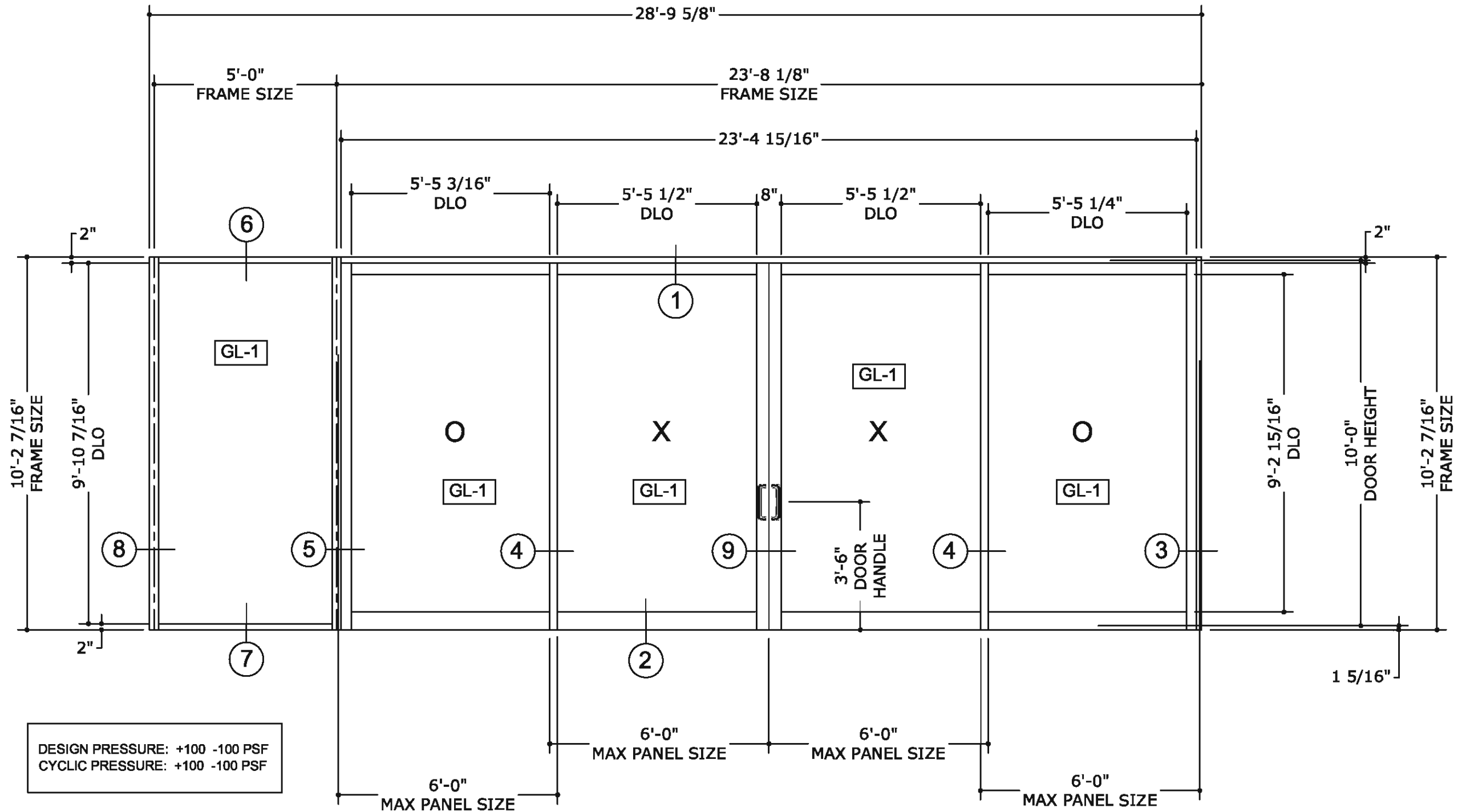
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ELEVATION - B
7000 SERIES SLIDING GLASS DOOR
1 5/16\"



LARGE MISSILE - GL-1

1 5/16\"

- 1/4\"
- 1/2\"
- 1/4\"
- .090
- 1/4\"

SMALL MISSILE - GL-2

1 5/16\"

- 1/4\"
- 1/2\"
- 1/4\"
- .060
- 1/4\"

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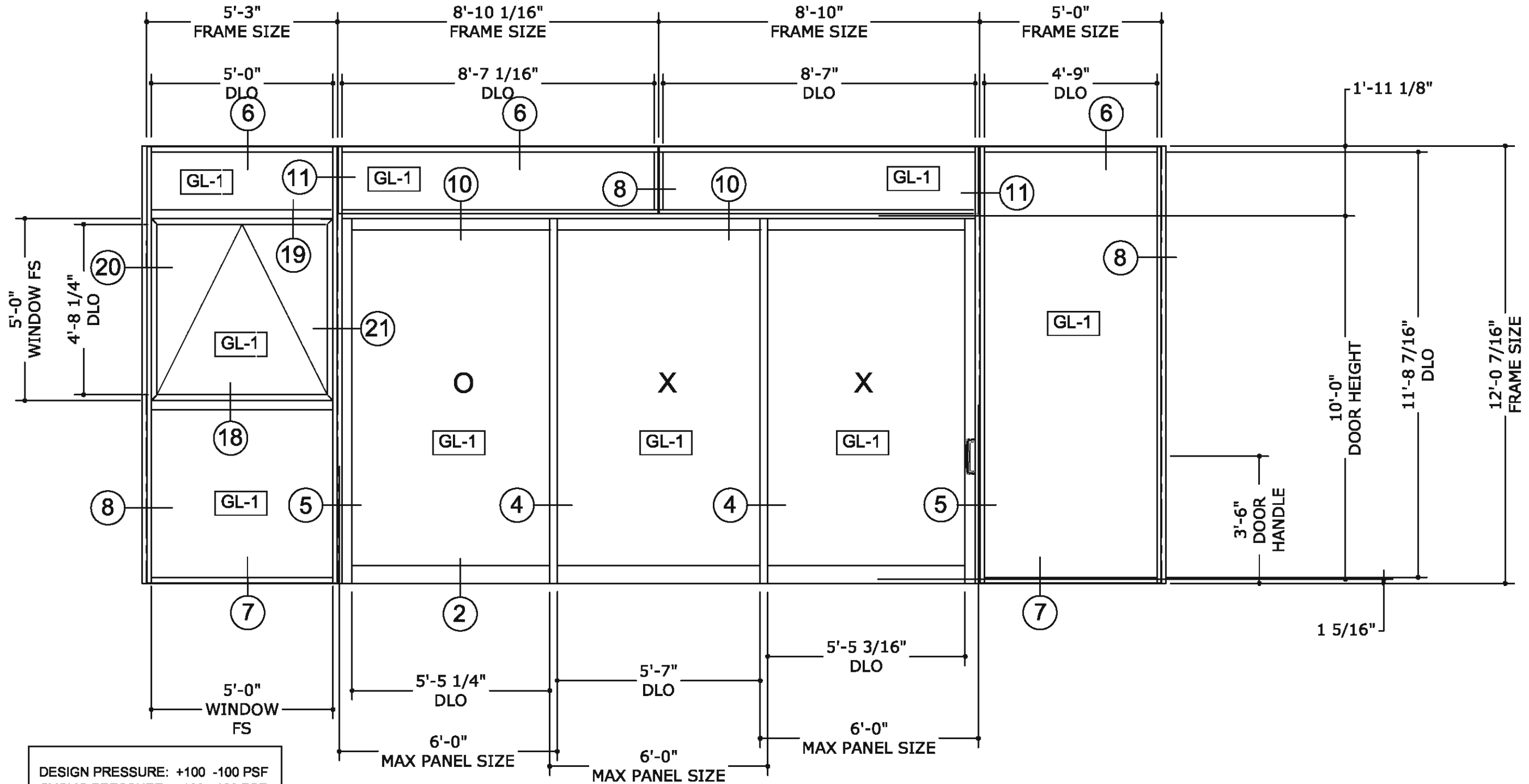
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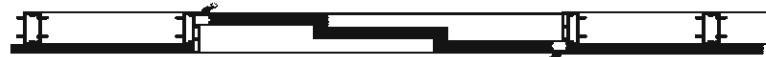
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ELEVATION - C

7000 SERIES SLIDING GLASS DOOR 1 5/16" THK INSULATED / LAMINATED GLASS



LARGE MISSILE - GL-1

1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:

- 1/4" THK TEMPERED CLEAR GLASS
- 1/2" THK AIR SPACE
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS
- .090 THK SENTRY GLASS PLUS (SGP) BY KURARAY INC.
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS

SMALL MISSILE - GL-2

1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:

- 1/4" THK TEMPERED CLEAR GLASS
- 1/2" THK AIR SPACE
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS
- .060 PVB INTERLAYER
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS

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7000 SERIES ALUMINUM SLIDING GLASS DOOR & WINDOWS
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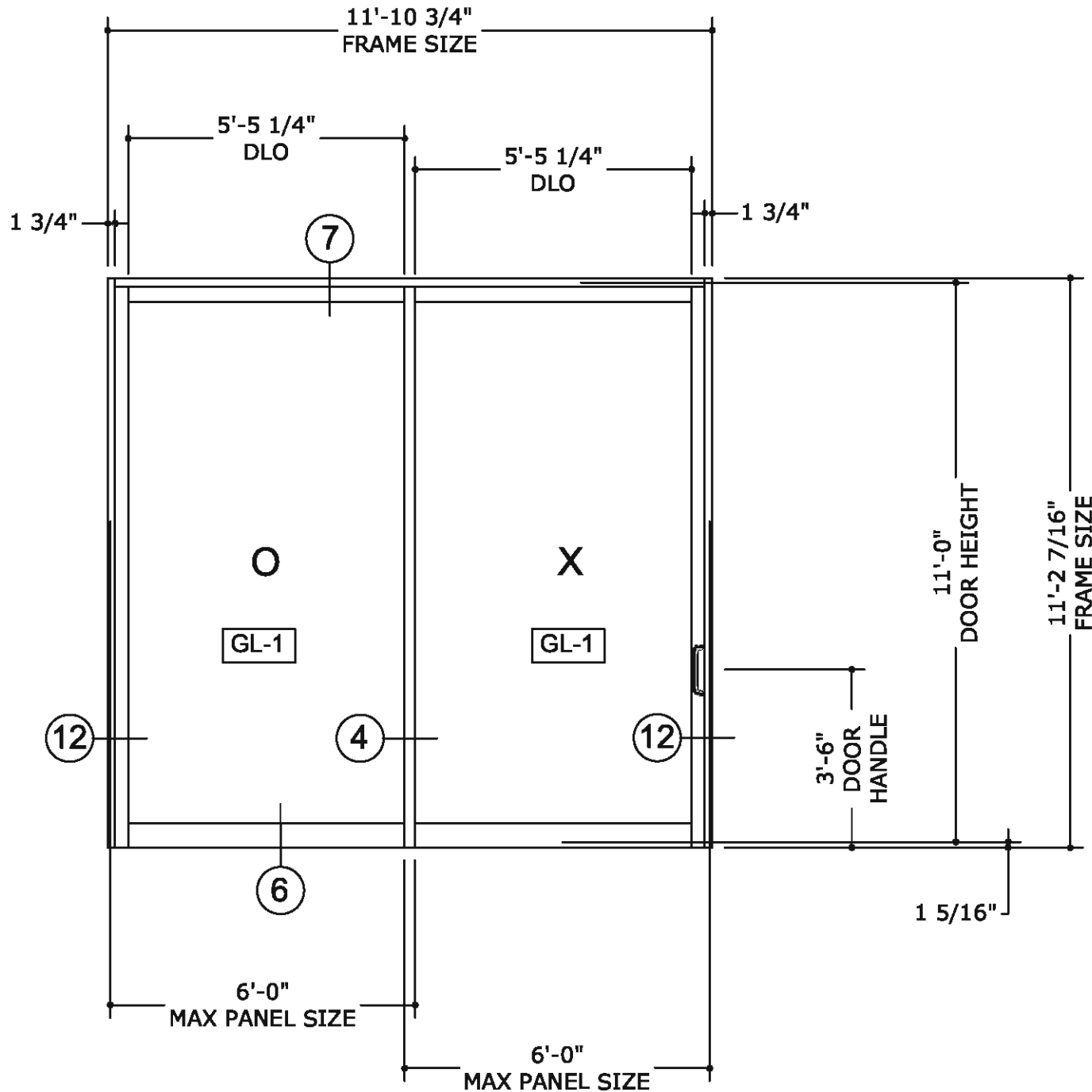
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ELEVATION - D
7000 SERIES SLIDING GLASS DOOR
1 5/16" THK INSULATED / LAMINATED GLASS

DESIGN PRESSURE: +100 -100 PSF
CYCLIC PRESSURE: +100 -100 PSF



LARGE MISSILE - GL-1

1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:

- 1/4" THK TEMPERED CLEAR GLASS
- 1/2" THK AIR SPACE
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS
- .090 THK SENTRY GLASS PLUS (SGP) BY KURARAY INC.
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS

SMALL MISSILE - GL-2

1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:

- 1/4" THK TEMPERED CLEAR GLASS
- 1/2" THK AIR SPACE
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS
- .060 PVB INTERLAYER
- 1/4" THK HEAT STRENGTHENED CLEAR GLASS

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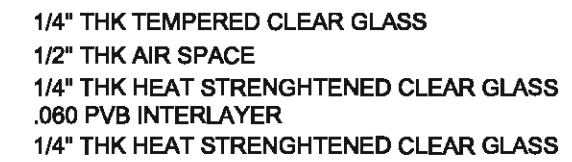
7000 SERIES ALUMINUM SLIDING GLASS DOOR & WINDOWS
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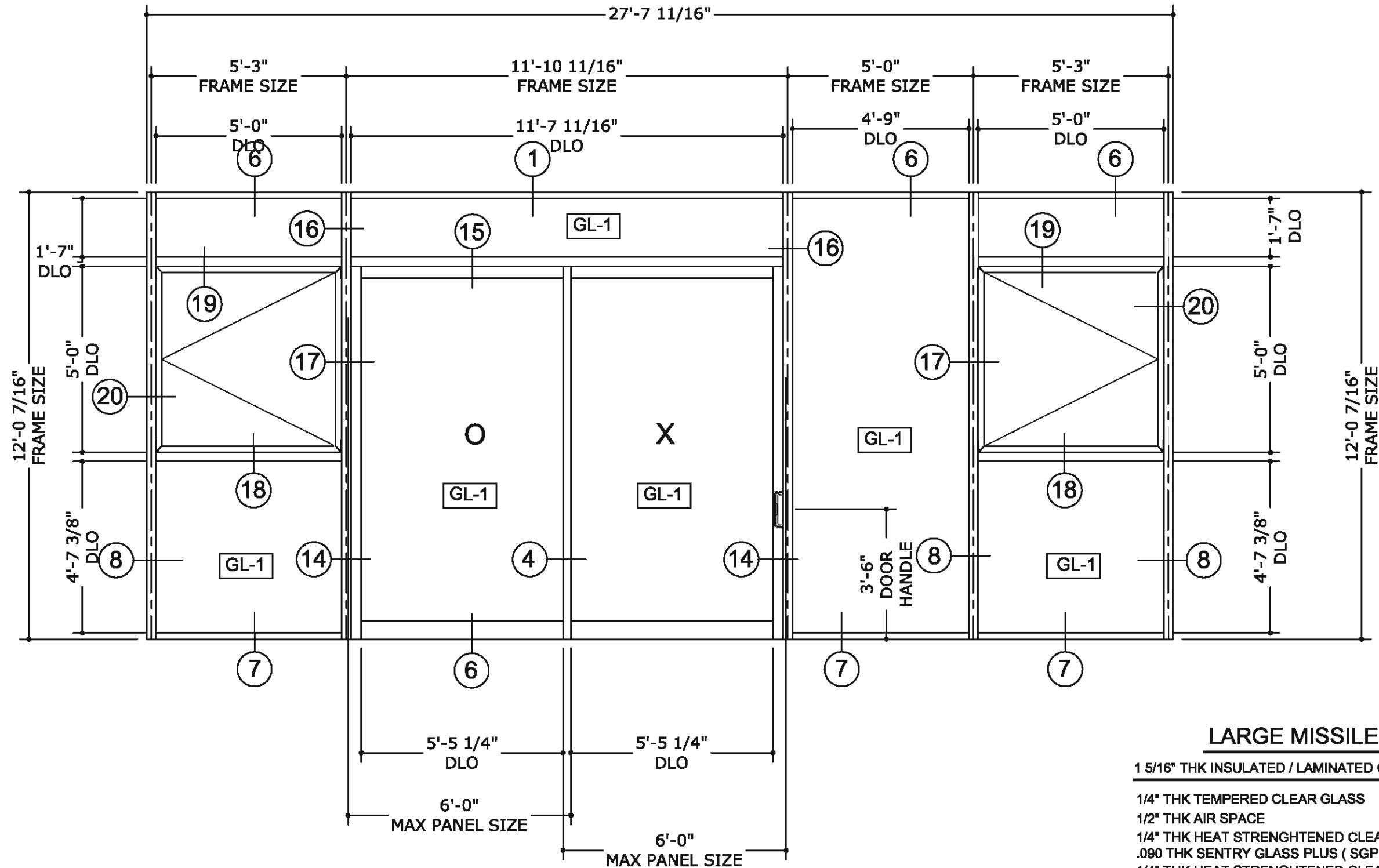
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ELEVATION - F

7000 SERIES SLIDING GLASS DOOR
1 5/16" THK INSULATED / LAMINATED GLASS

DESIGN PRESSURE: +100 -100 PSF
CYCLIC PRESSURE: +100 -100 PSF



LARGE MISSILE - GL-1

1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:

1/4" THK TEMPERED CLEAR GLASS
1/2" THK AIR SPACE
1/4" THK HEAT STRENGTHENED CLEAR GLASS
.090 THK SENTRY GLASS PLUS (SGP) BY KURARAY INC.
1/4" THK HEAT STRENGTHENED CLEAR GLASS

SMALL MISSILE - GL-2

1 5/16" THK INSULATED / LAMINATED GLASS CONSISTING OF:

1/4" THK TEMPERED CLEAR GLASS
1/2" THK AIR SPACE
1/4" THK HEAT STRENGTHENED CLEAR GLASS
.060 PVB INTERLAYER
1/4" THK HEAT STRENGTHENED CLEAR GLASS

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7000 SERIES ALUMINUM SLIDING GLASS DOOR & WINDOWS
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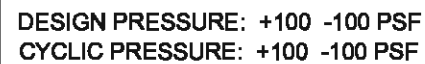
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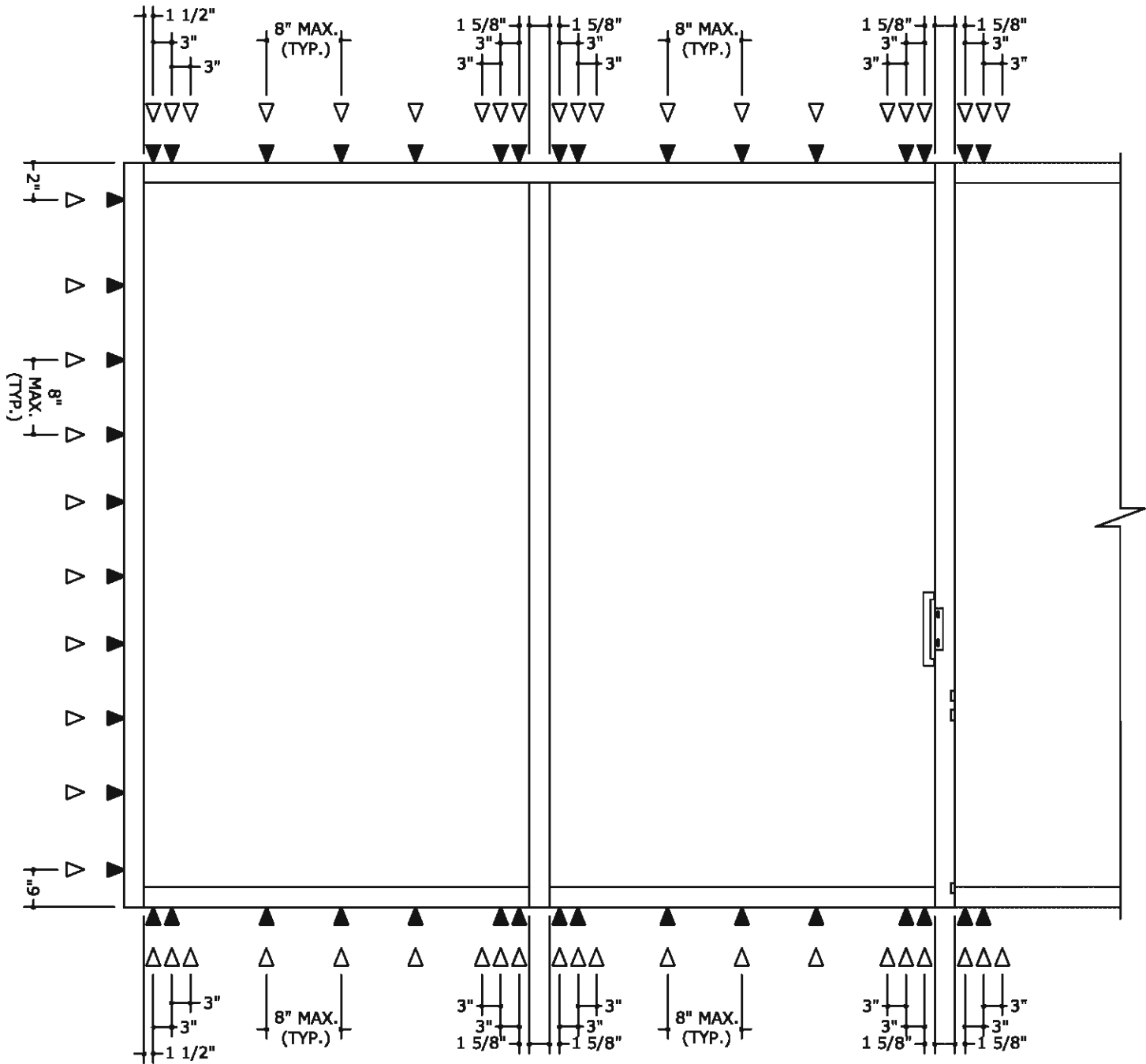
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1/4" THK TEMPERED CLEAR GLASS
1/2" THK AIR SPACE
1/4" THK HEAT STRENGTHENED CLEAR GLASS
.060 PVB INTERLAYER
1/4" THK HEAT STRENGTHENED CLEAR GLASS

ANCHOR SCHEDULE



TYPICAL ANCHOR SPACING
TOP & BOTTOM OF FRAME

TYPICAL ANCHOR TYPES:

- TYPE A** - $\frac{5}{16}$ " DEWALT ULTRAICON OR EQUAL, 1 $\frac{1}{2}$ " MIN ENGAGEMENT INTO SOUTHERN YELLOW PINE #2 WOOD (SG=0.55 MIN.) WITH 1-1/4" MIN EDGE DISTANCE
- TYPE B** - $\frac{5}{16}$ " DEWALT ULTRAICON OR EQUAL, 2" EFFECTIVE EMBEDMENT INTO 3000 PSI CONCRETE MIN. WITH 2 $\frac{1}{2}$ " EDGE DISTANCE
- TYPE C** - $\frac{5}{16}$ " -24 DEWALT DRILLFLEX OR EQUAL, ENGAGING 5 PITCHES PASSED THE THREAD PLANE INTO $\frac{1}{8}$ " ALUMINUM (6063-T5 MIN) OR $\frac{1}{8}$ " STEEL (A36 MIN), $\frac{3}{4}$ " MIN EDGE DISTANCE

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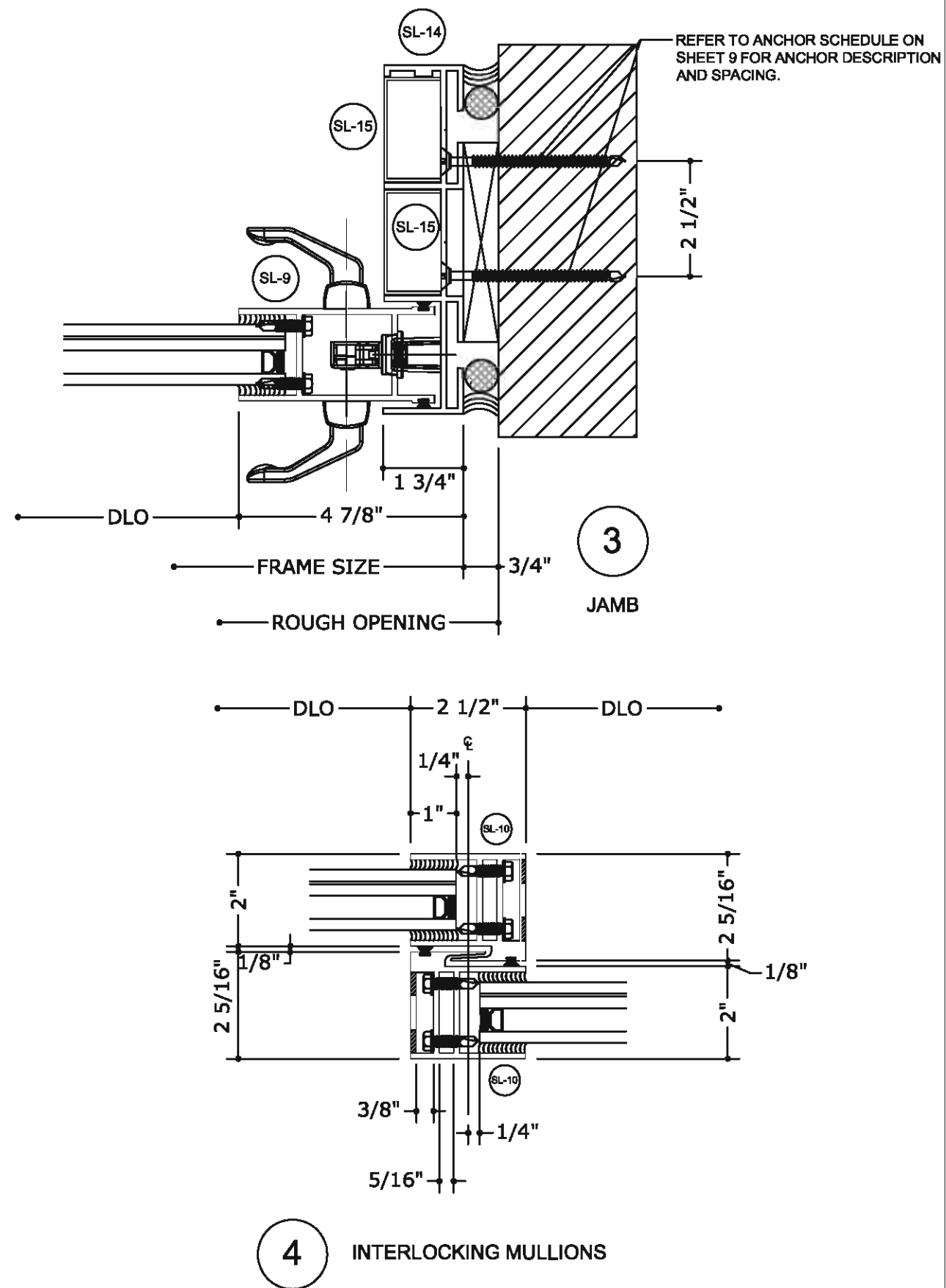
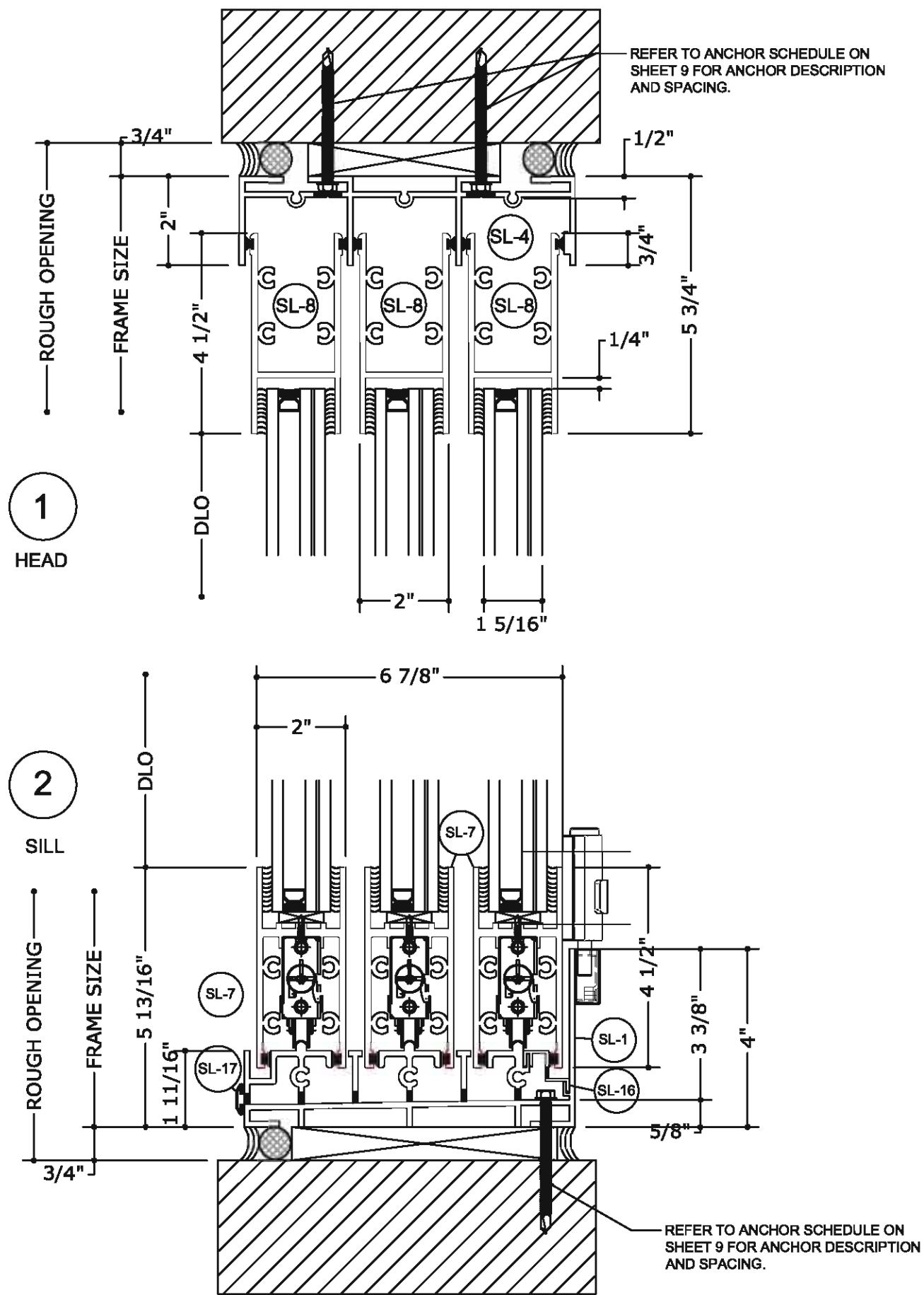
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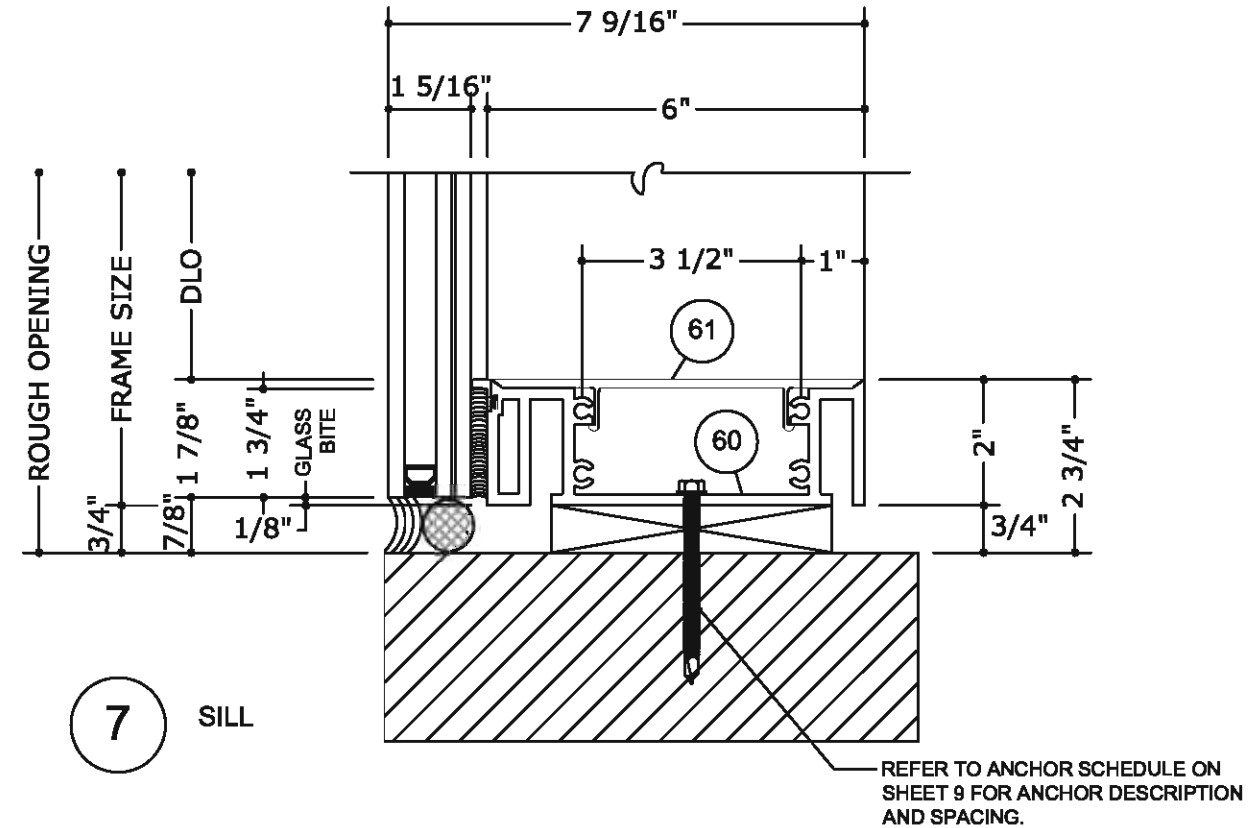
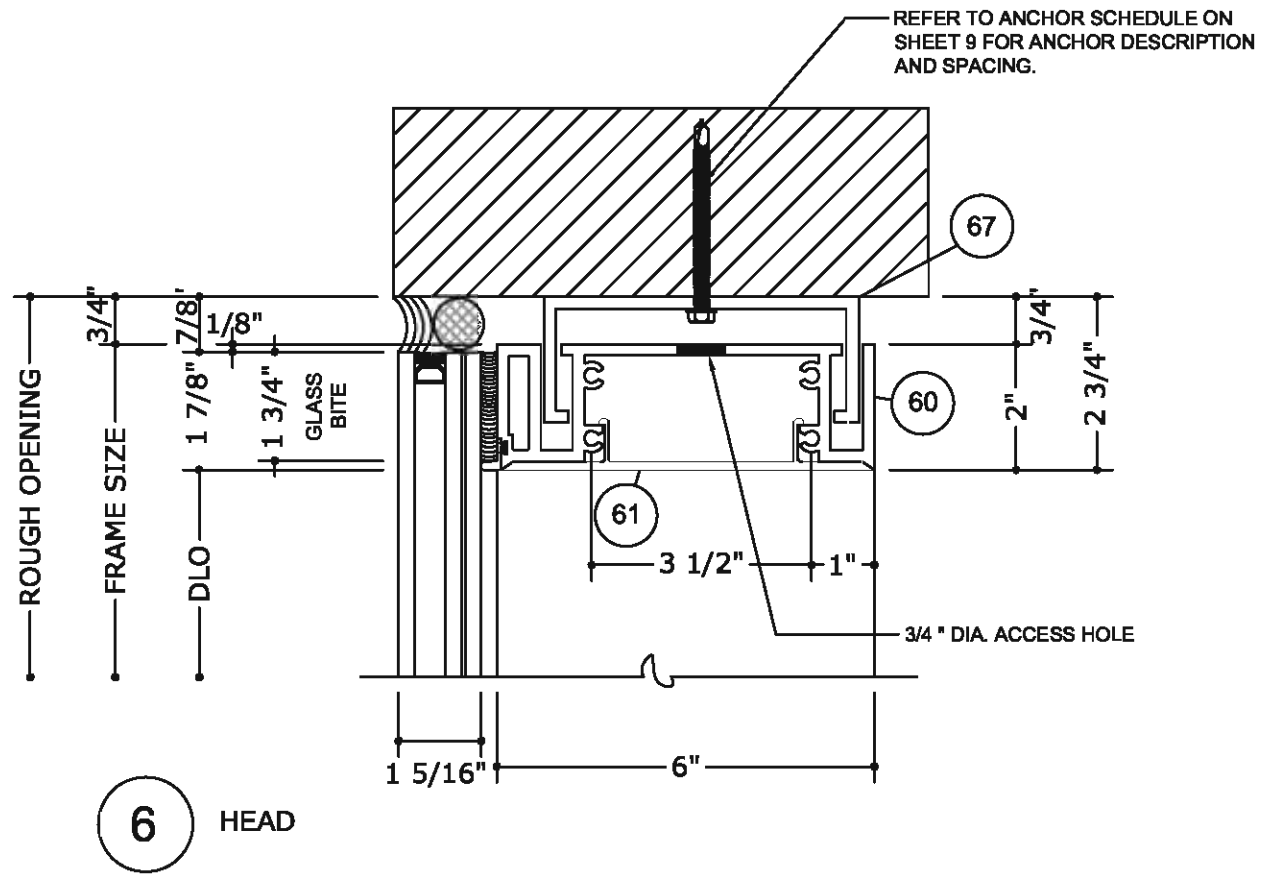
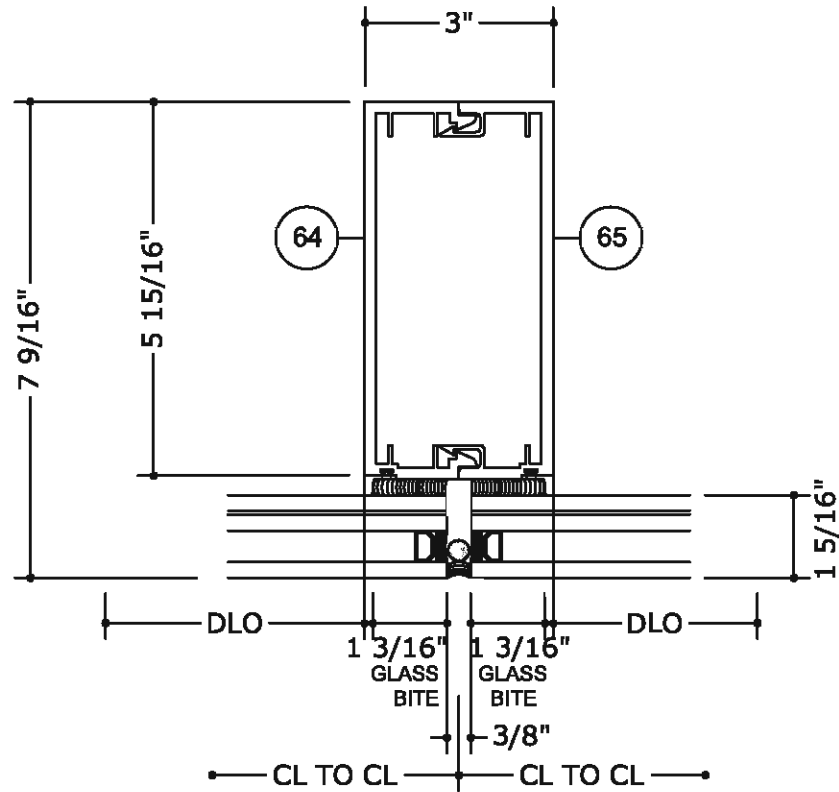
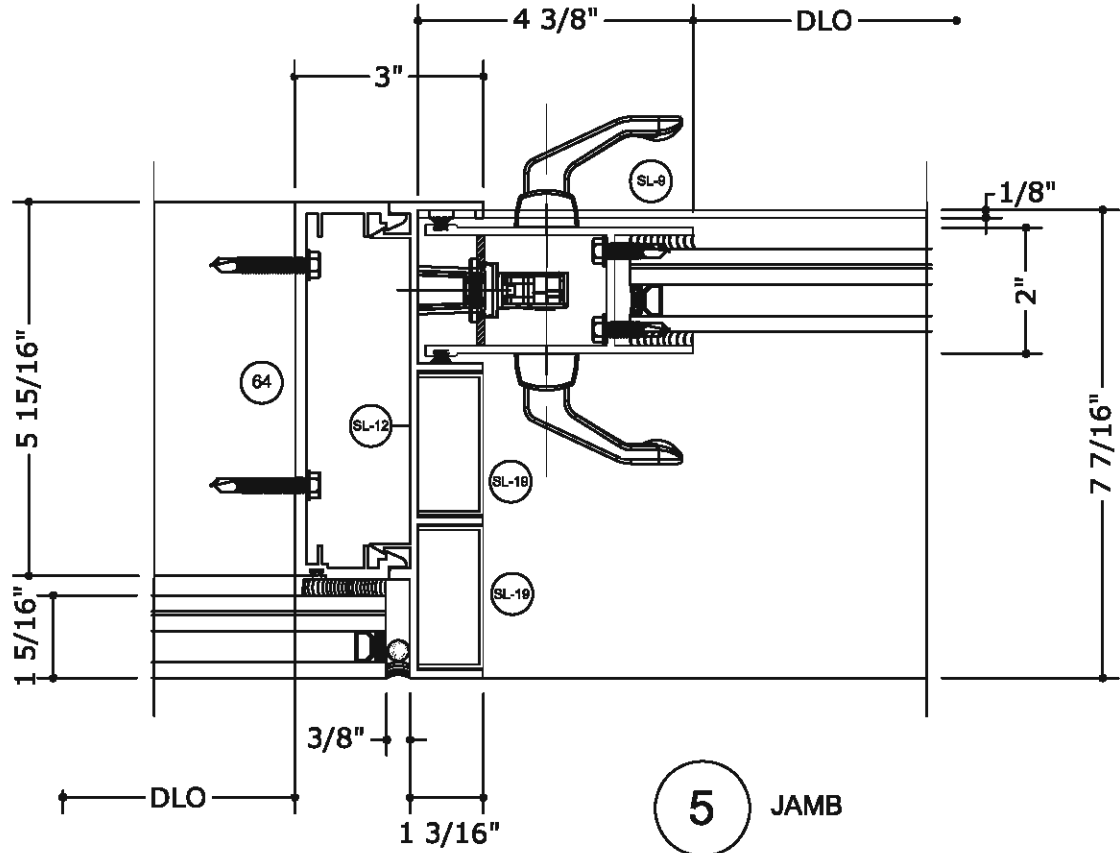
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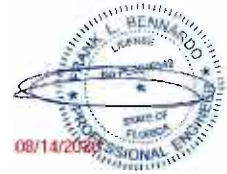
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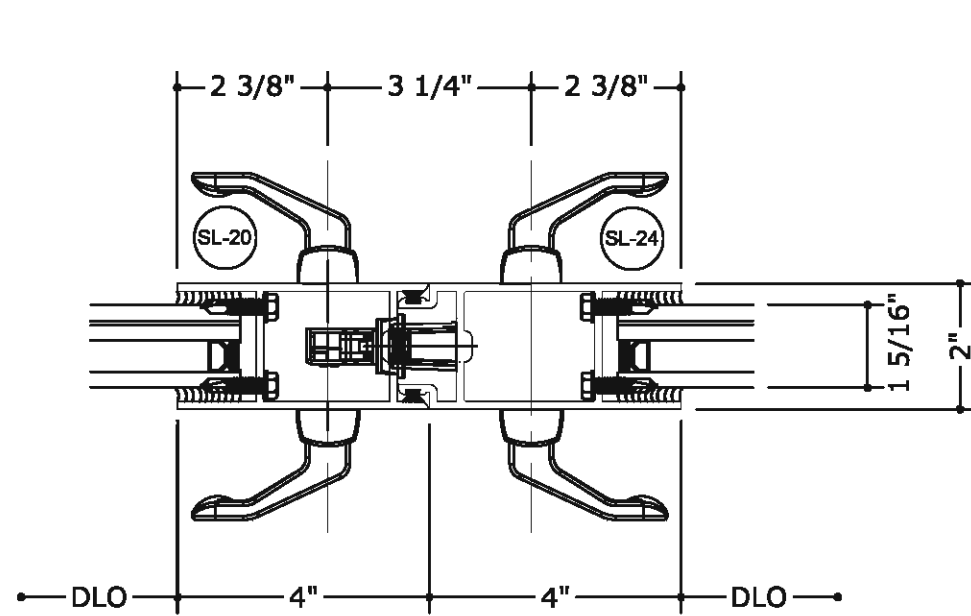
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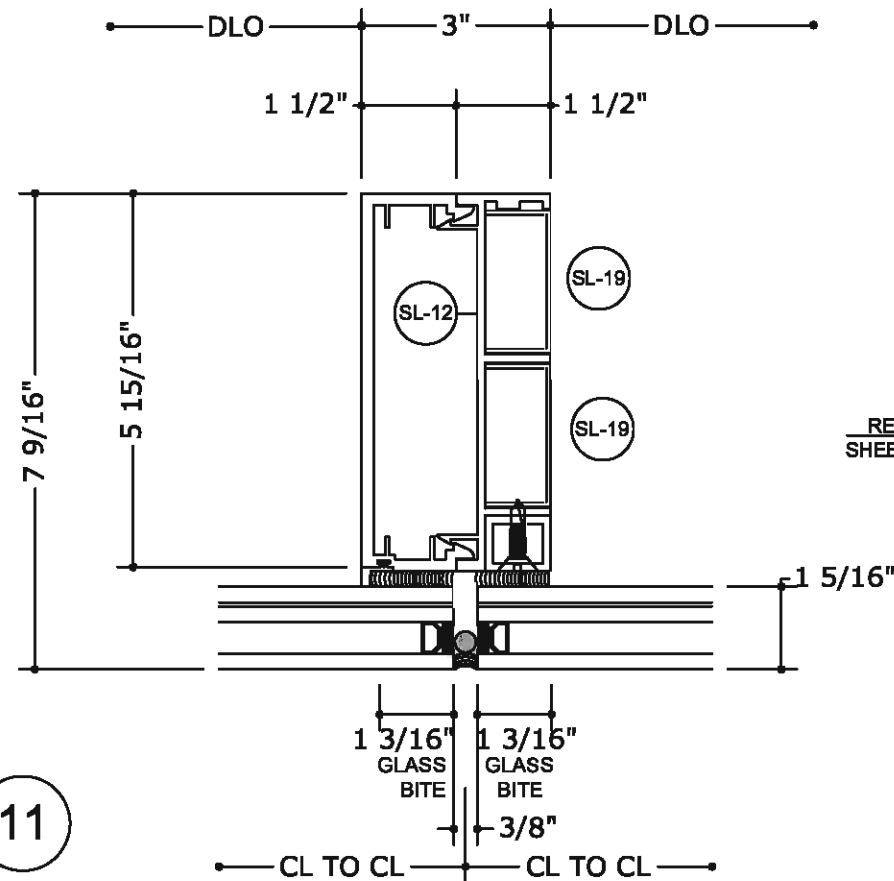
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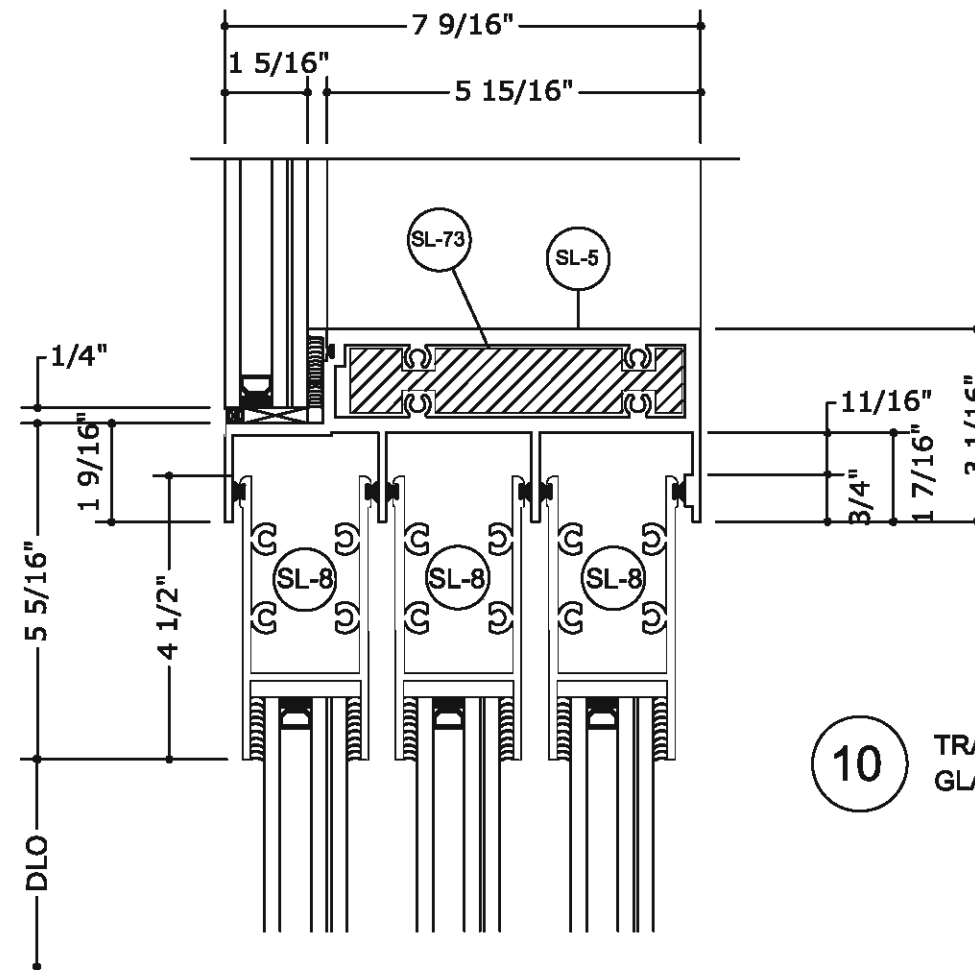
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INTERLOCKING SLIDING GLASS DOOR



11

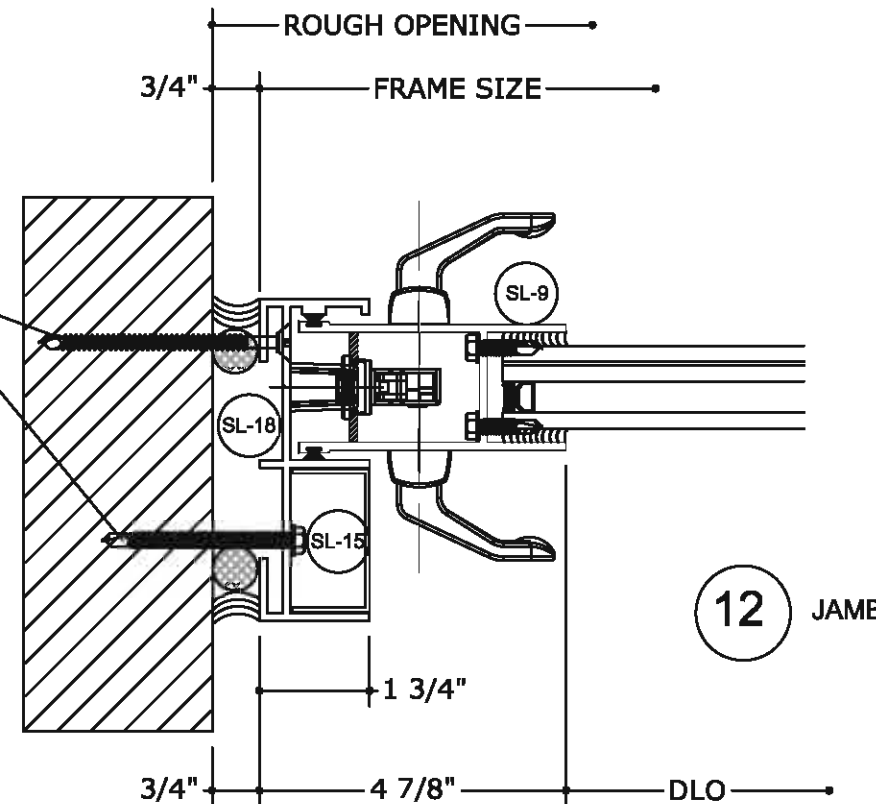
VERTICAL MULLION
@ TRANSOM



10

TRANSOM SLIDING
GLASS DOOR HEAD

REFER TO ANCHOR SCHEDULE ON
SHEET 9 FOR ANCHOR DESCRIPTION
AND SPACING.



12

JAMB

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FL#24119.1

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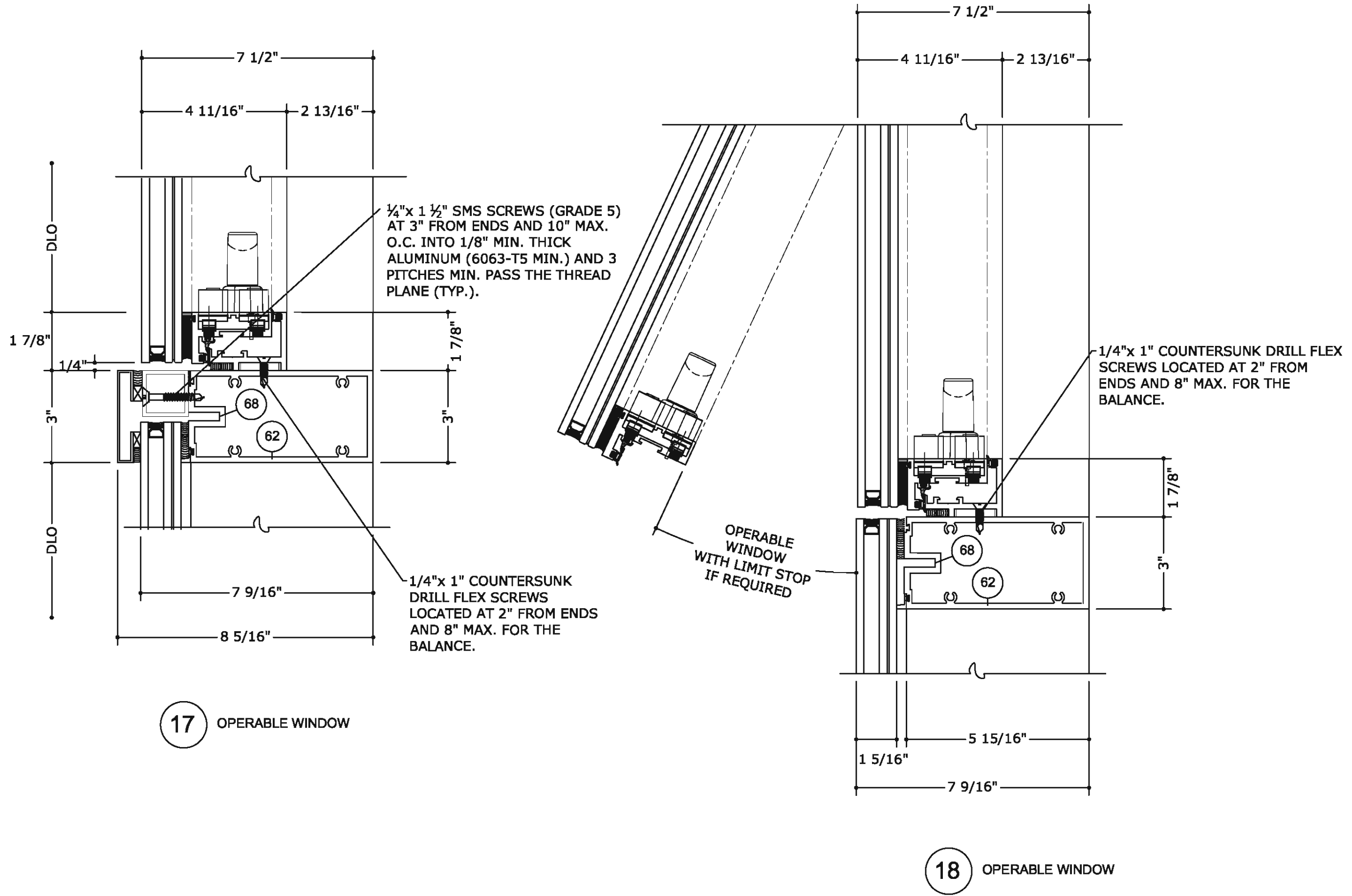
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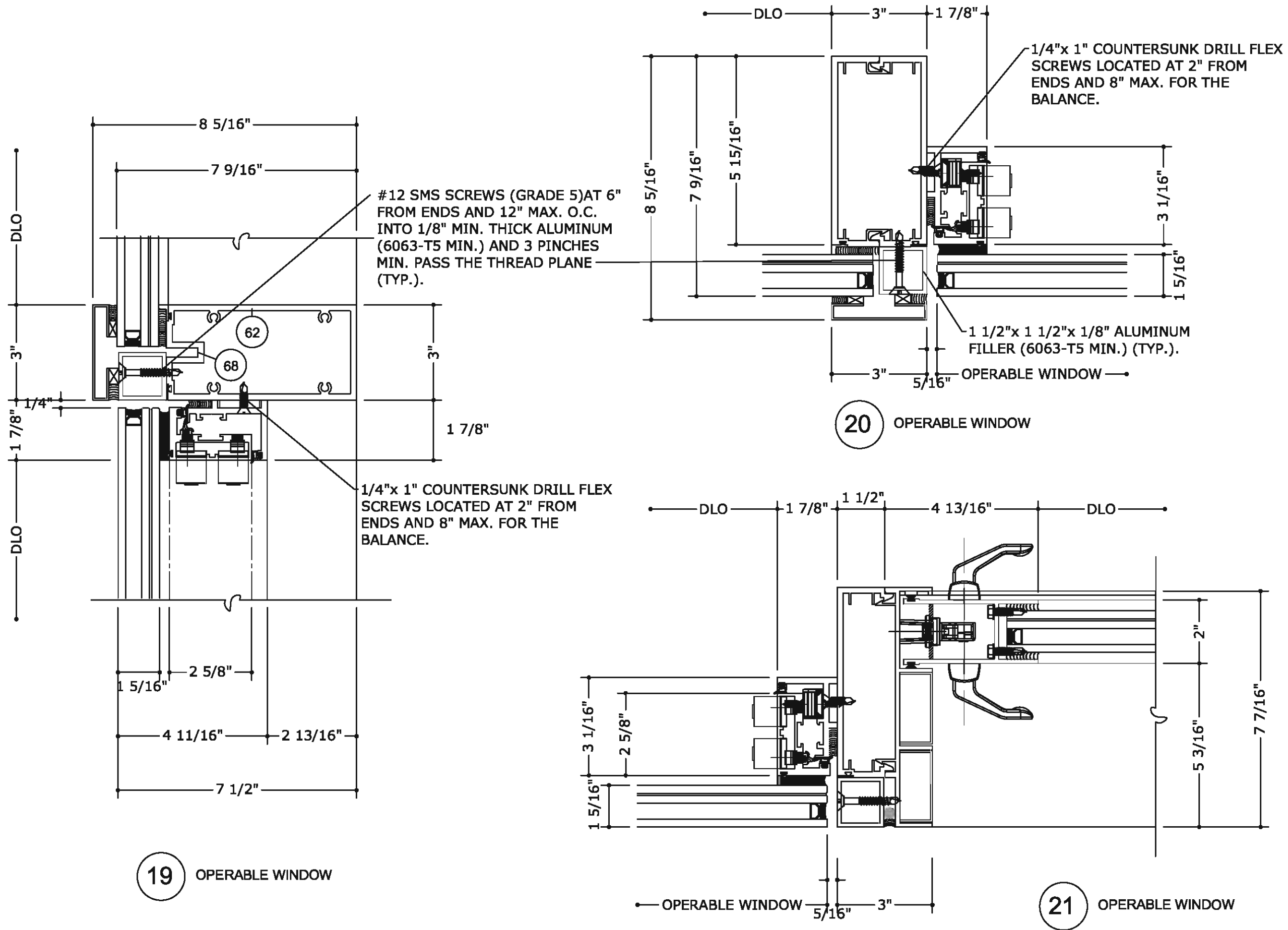
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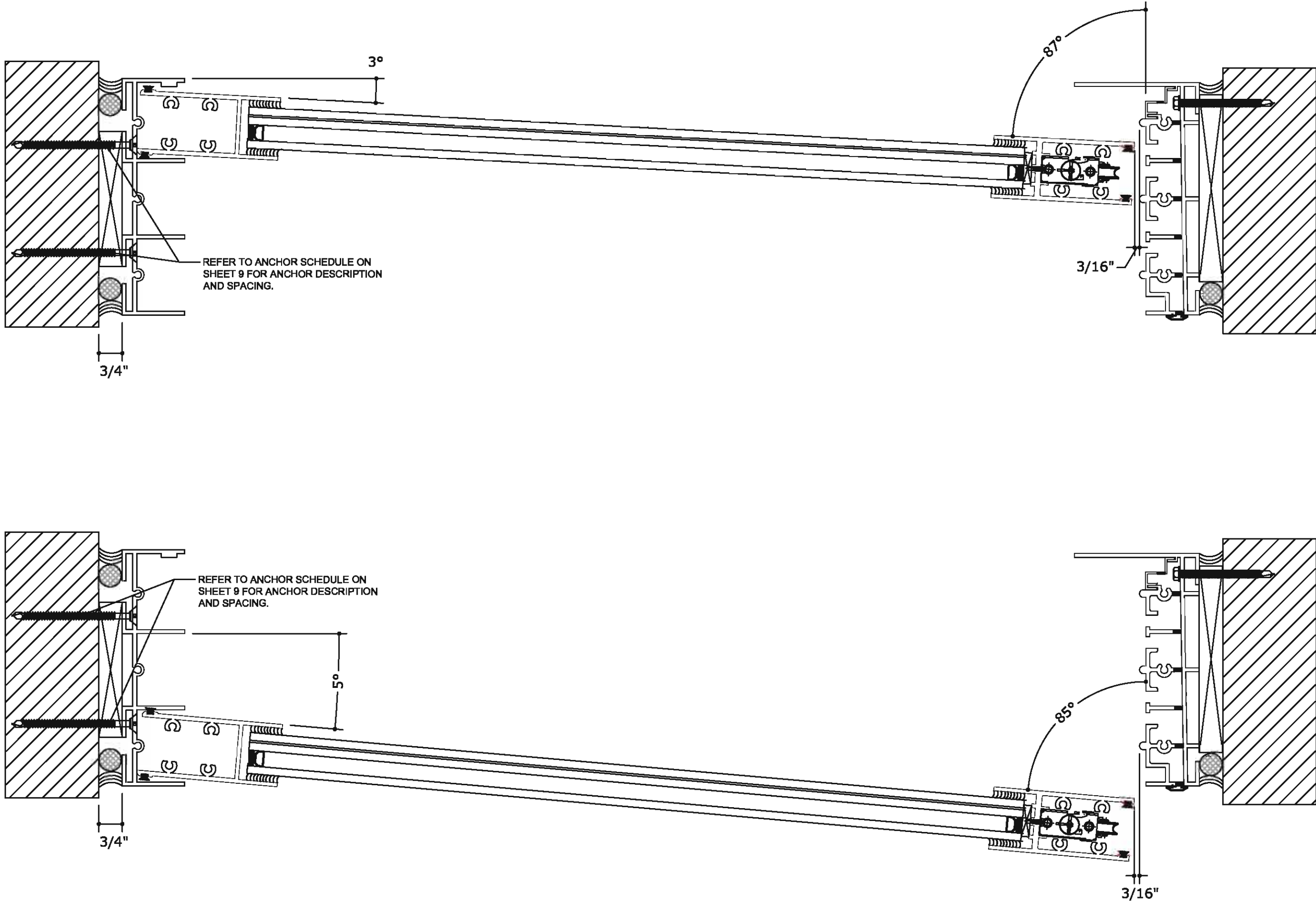
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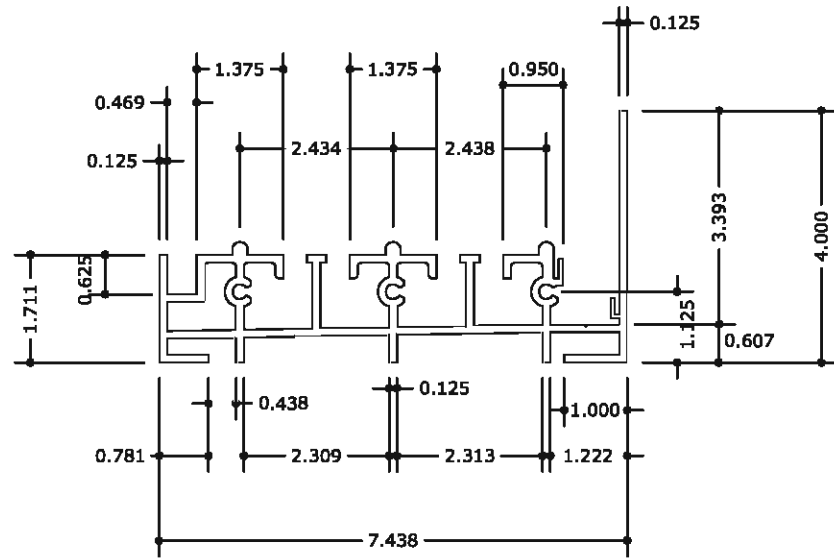
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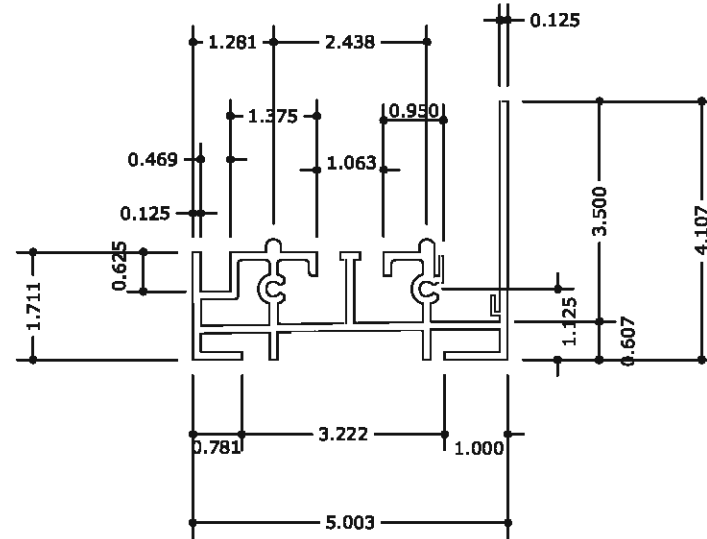
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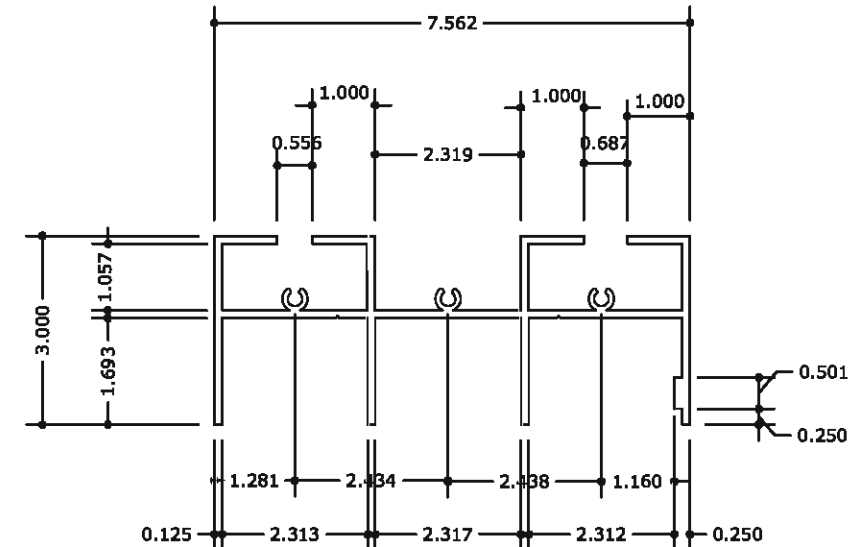
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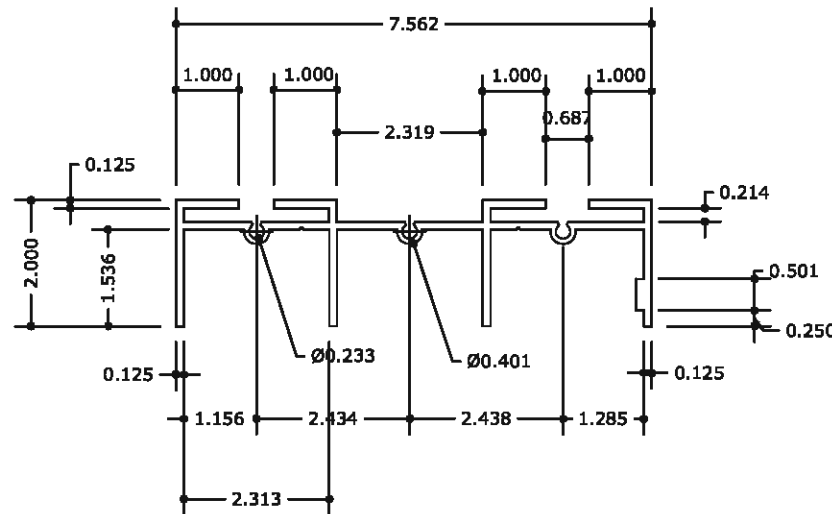
SL-1 SLIDING GLASS DOOR SILL



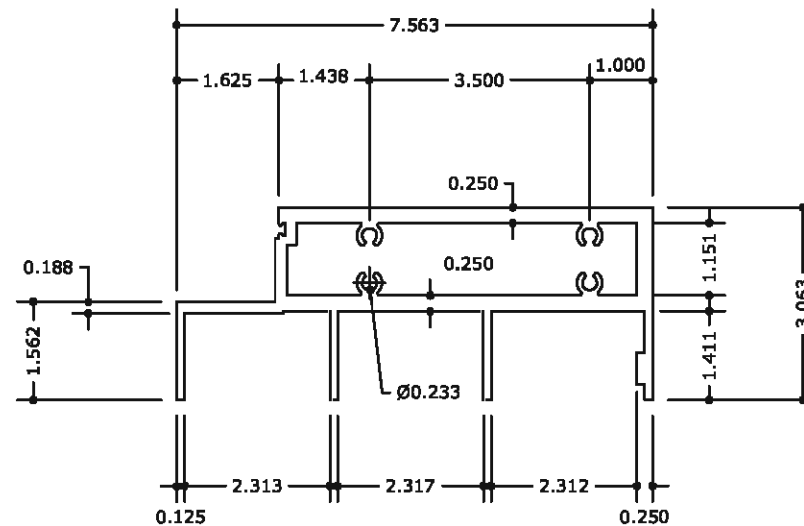
SL-2 SLIDING GLASS DOOR HEAD



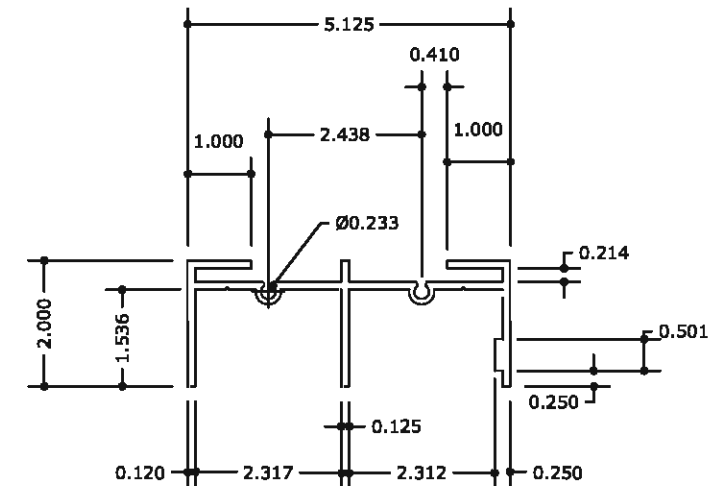
SL-3 SLIDING GLASS DOOR HEAD



SL-4 SLIDING GLASS DOOR HEAD



SL-5 SLIDING GLASS DOOR HEAD



SL-6 SLIDING GLASS DOOR HEAD

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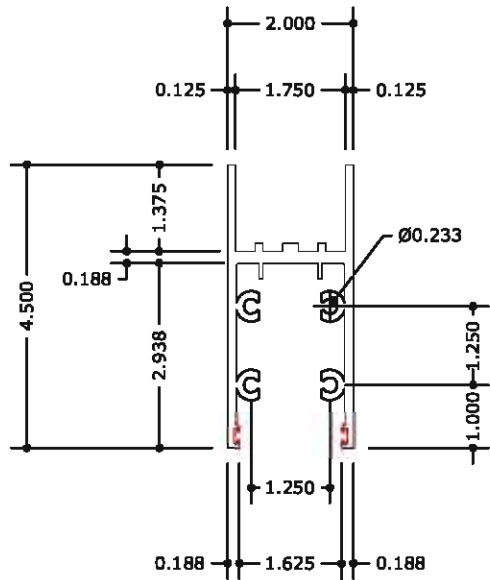
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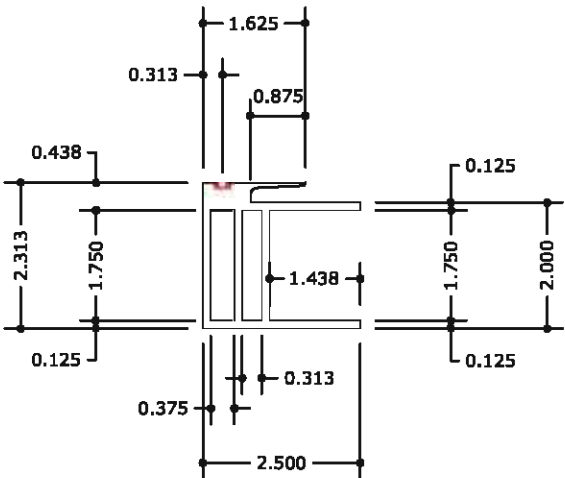
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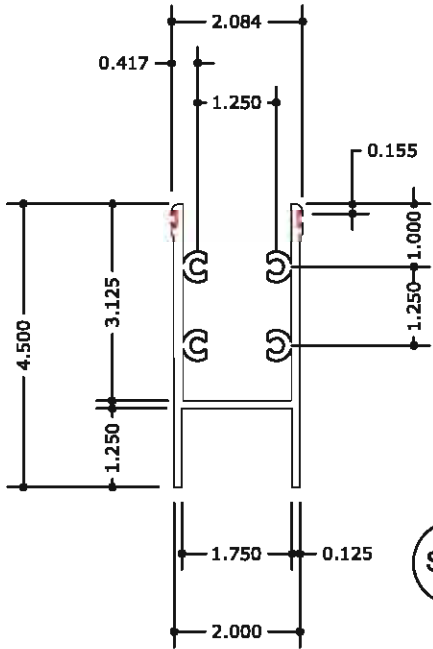
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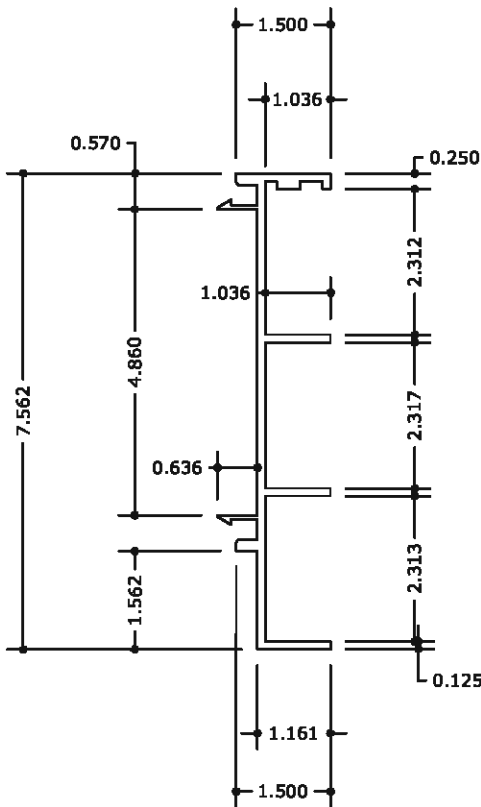
SL-7 DOOR BOTTOM RAIL



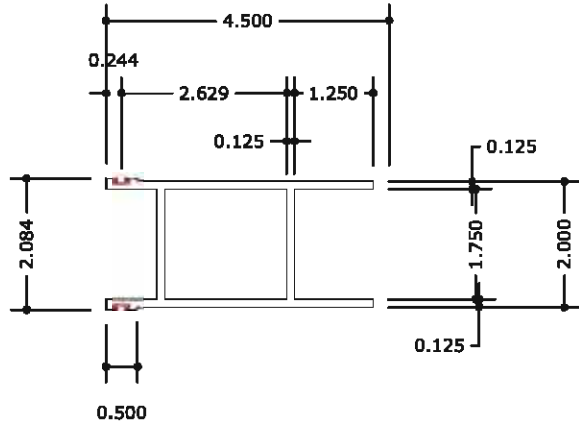
SL-10 DOOR INTERMEDIATE MULLION



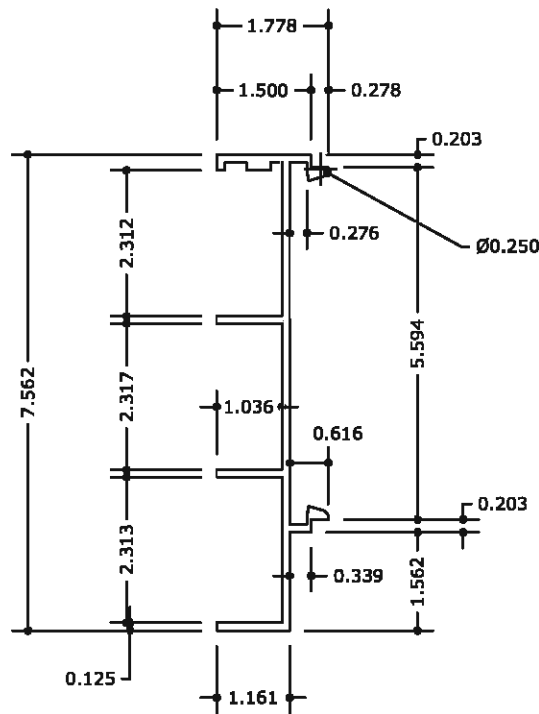
SL-8 DOOR TOP RAIL



SL-12 DOOR FRAME JAMB



SL-9 DOOR JAMB



SL-13 DOOR FRAME JAMB

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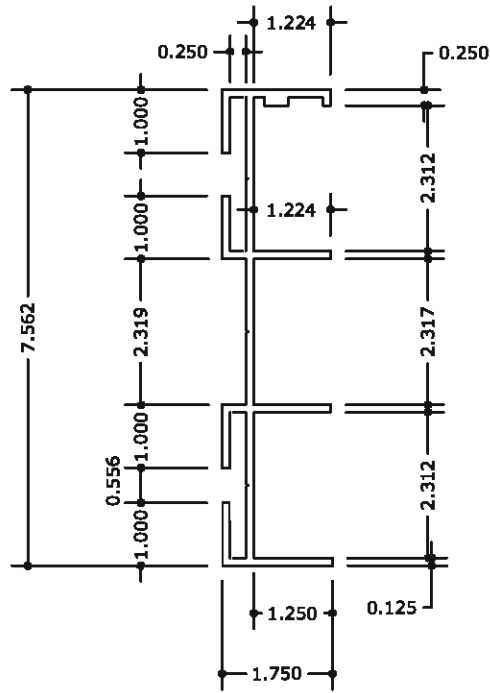
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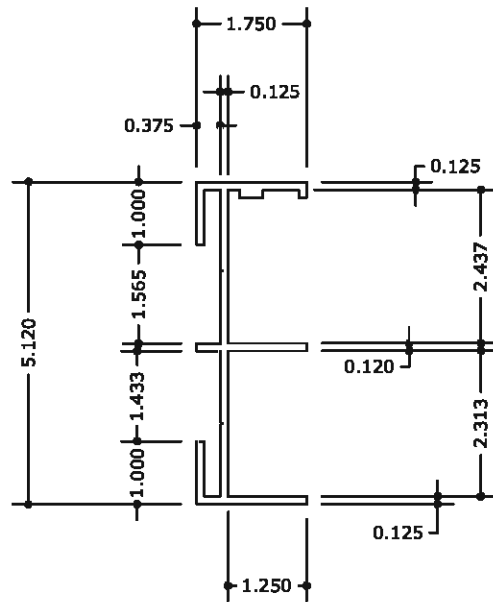
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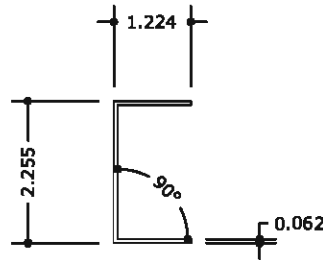
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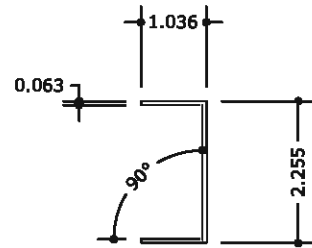
SL-14 DOOR FRAME JAMB



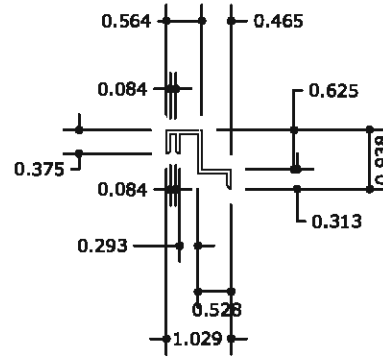
SL-18 JAMB



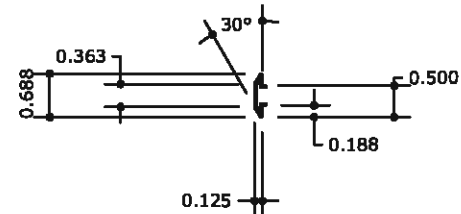
SL-15 DOOR JAMB FILLER



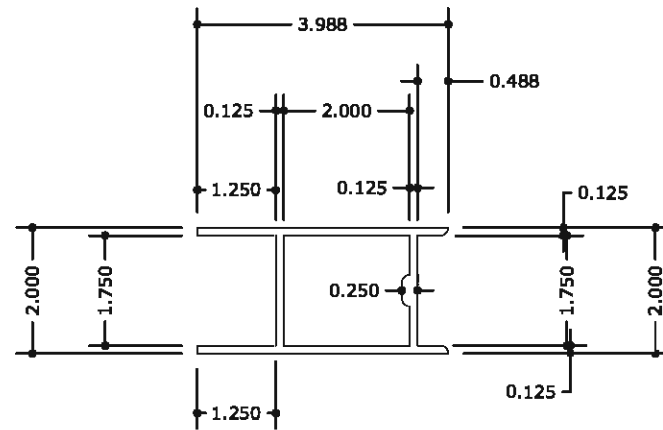
SL-19 DOOR JAMB FILLER



SL-16 SILL TRACK FILLER



SL-17 SILL TRACK WATER DIVERTER



SL-20 DOOR JAMB

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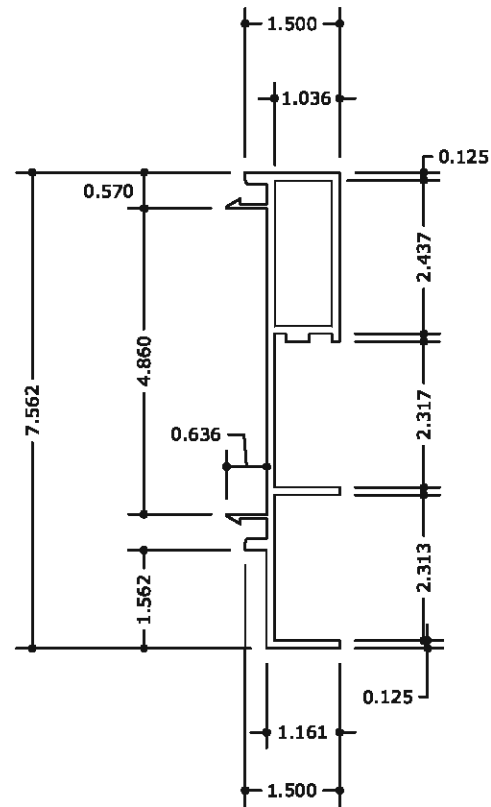
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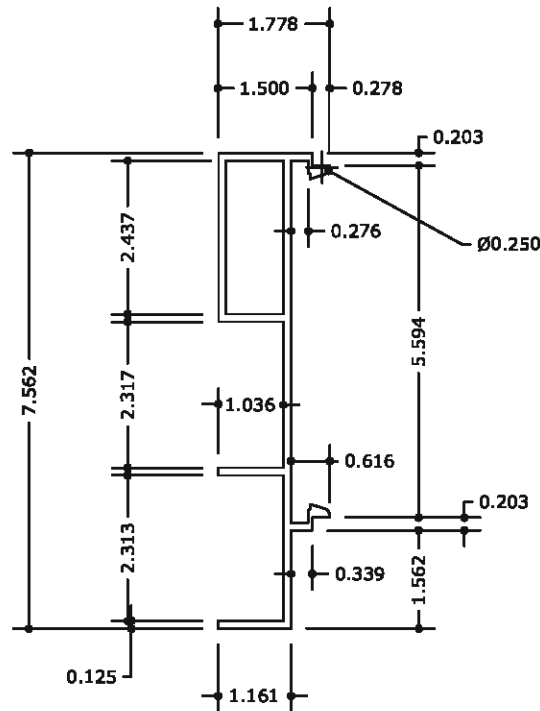
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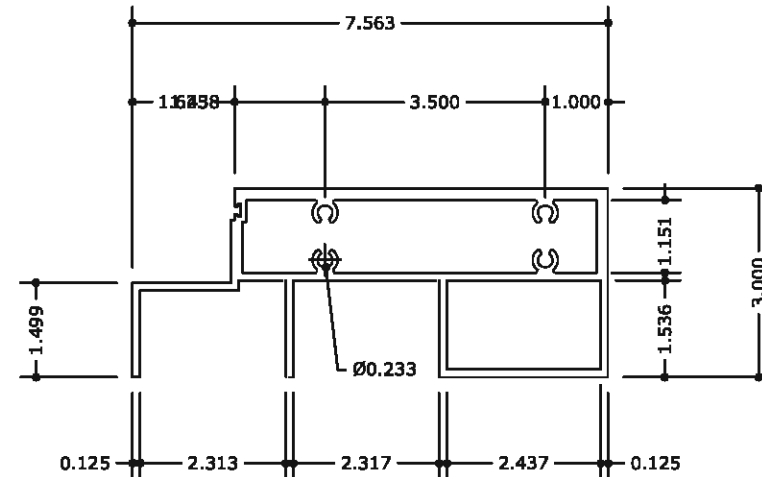
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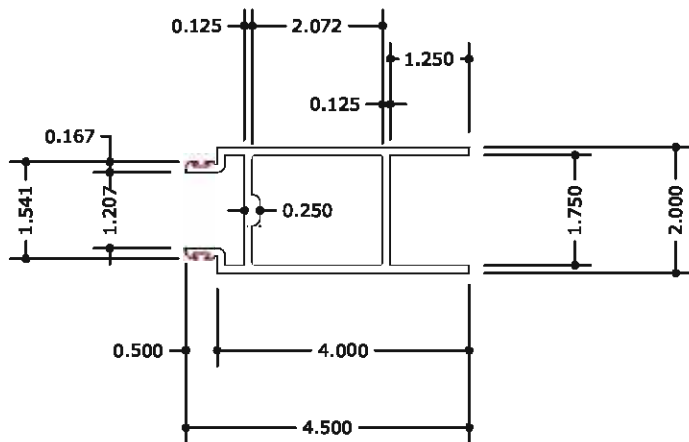
SL-21 DOOR FRAME JAMB



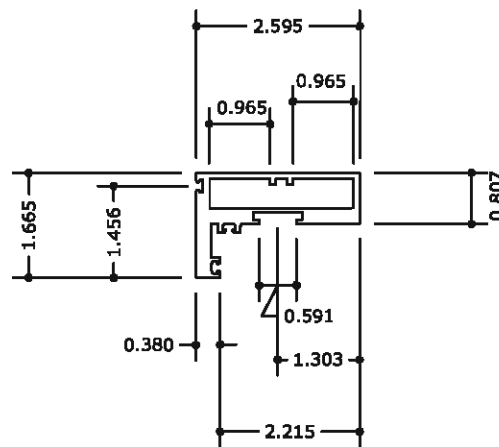
SL-22 DOOR FRAME JAMB



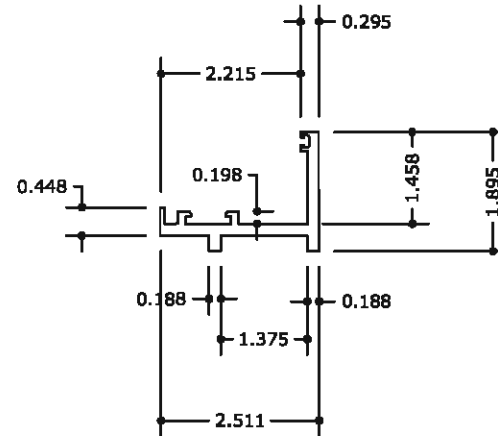
SL-23 SLIDING GLASS DOOR HEAD



SL-24 SLIDING GLASS DOOR INTERLOCK



SL-25 OPERABLE WINDOW



SL-26 OPERABLE WINDOW

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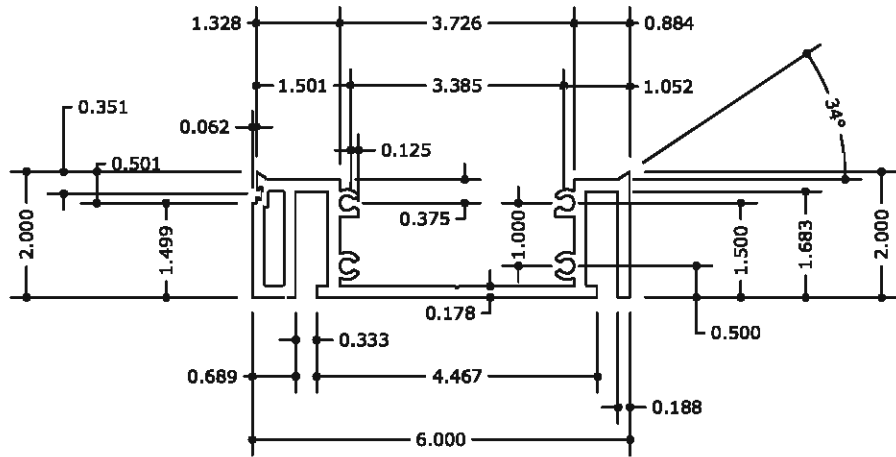
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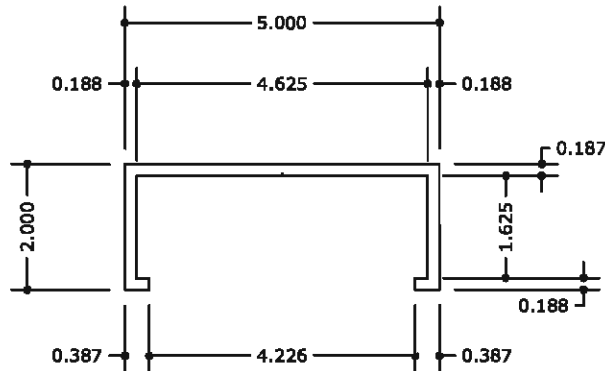
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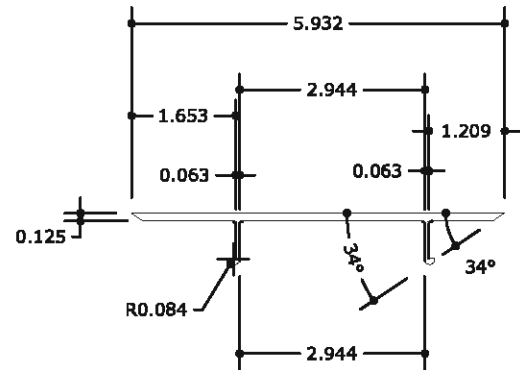
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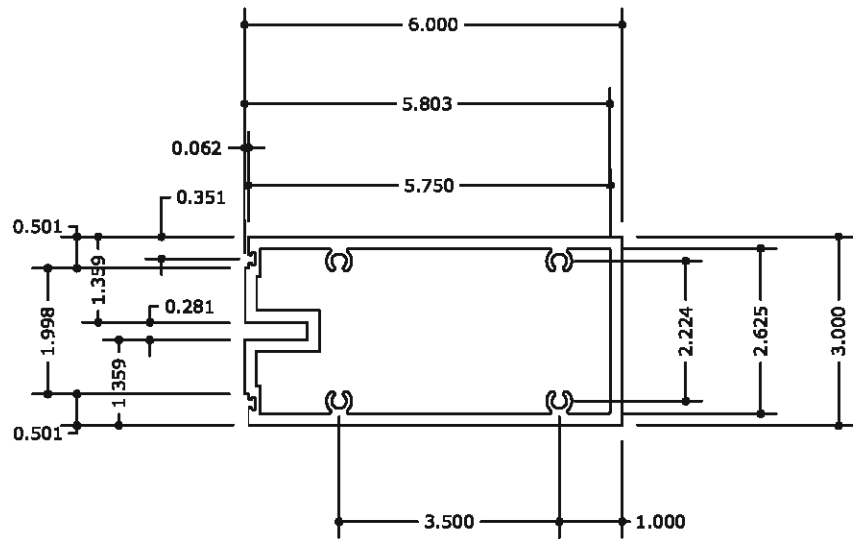
60 HEAD & SILL HORIZONTAL



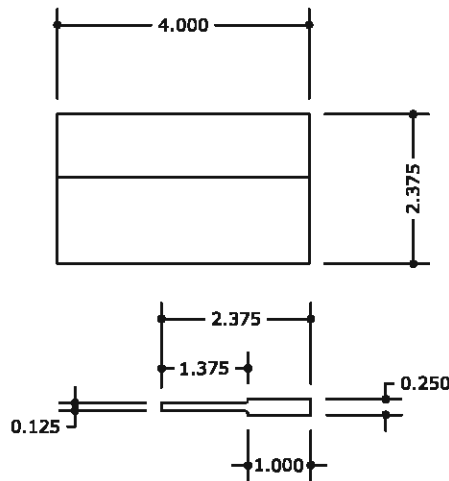
67 SUB-BUCK



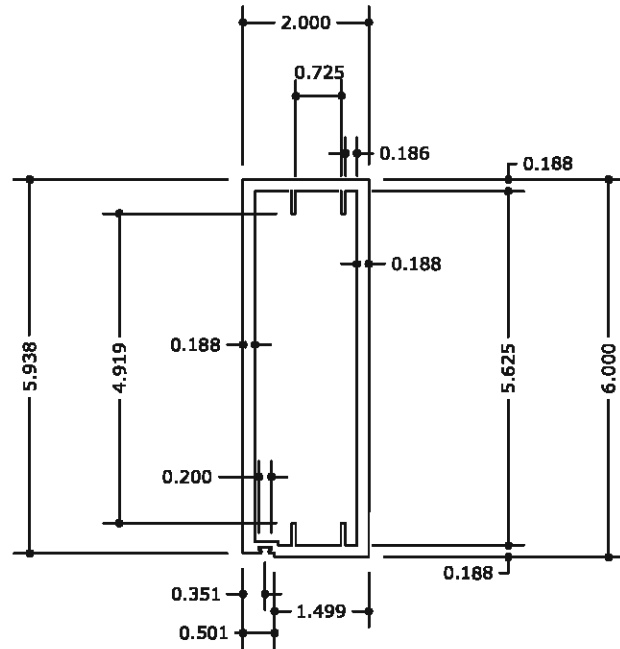
61 INTERIOR TRIM



62 HORIZONTAL MULLION



68 GLASS SUPPORT PLATE



63 VERTICAL JAMB MULLION

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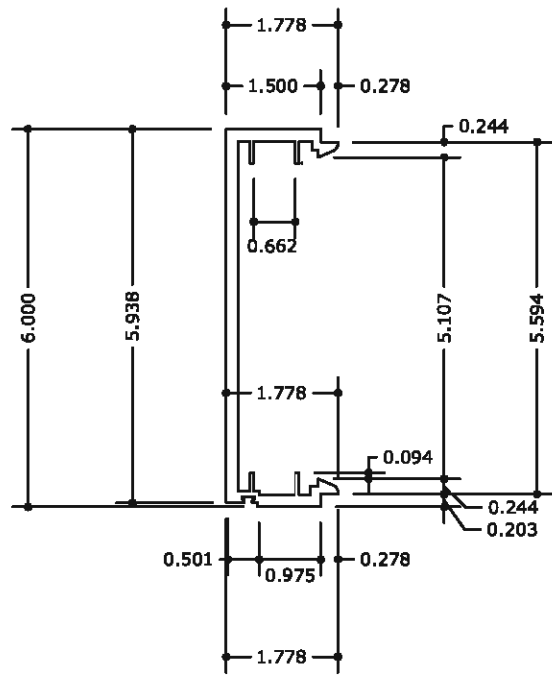
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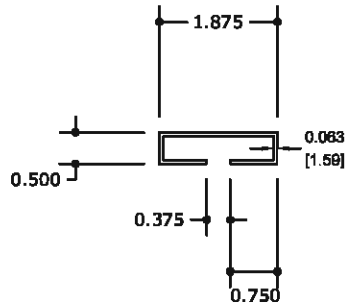
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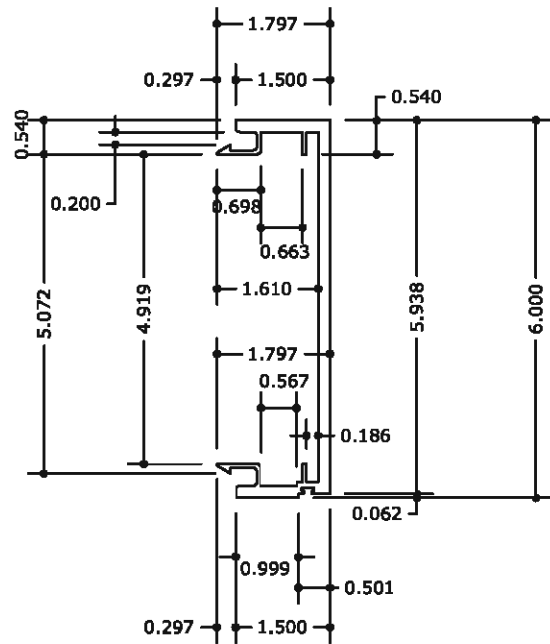
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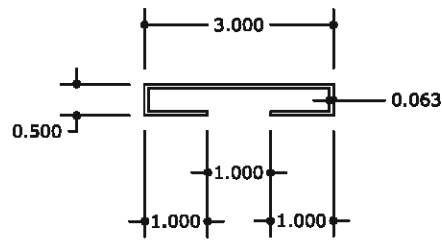
64 VERTICAL MULLION



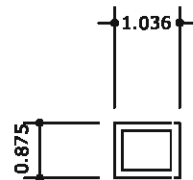
69 EXTERIOR CAP



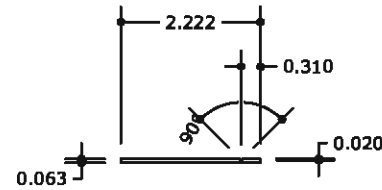
65 VERTICAL MULLION



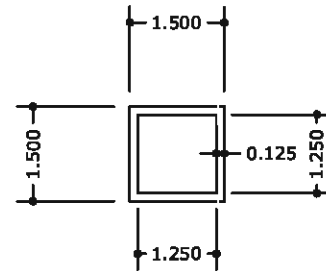
70 EXTERIOR CAP



73 ALUM TUBE

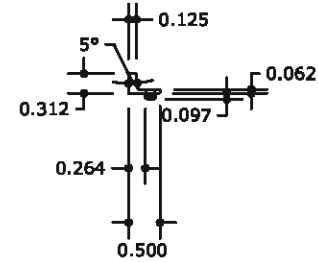


73 GLASS SUPPORT

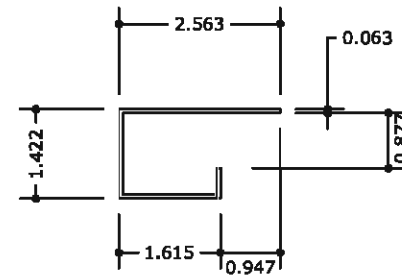


71 ALUM TUBE

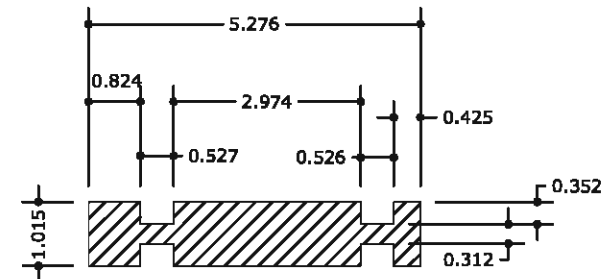
SL-73 ALUM REINFORCMENT



G-27 GASKET



72 EXTERIOR CAP



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UNITED GLASS SYSTEMS

3500 SW 15TH STREET
DEERFIELD BEACH, FL
Phn. (754) 227-5287

7000 SERIES ALUMINUM SLIDING GLASS DOOR & WINDOWS
FLORIDA STATE APPROVAL

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	08/13/20
2020 FCC UPDATE	JPC	AJP	08/13/20
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BILL OF MATERIALS				
PART No.	DESCRIPTION	MATERIAL	LOCATION	MANUFACTURER
SL-1	SLIDING GLASS DOOR SILL	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-2	SLIDING GLASS DOOR HEAD	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-3	SLIDING GLASS DOOR HEAD	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-4	SLIDING GLASS DOOR HEAD	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-5	SLIDING GLASS DOOR HEAD	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-6	SLIDING GLASS DOOR HEAD	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-7	DOOR BOTTOM RAIL	ALUM. AL. 6005-T6	DOOR PANEL	UNITED GLASS
SL-8	DOOR TOP RAIL	ALUM. AL. 6005-T6	DOOR PANEL	UNITED GLASS
SL-9	DOOR JAMB	ALUM. AL. 6005-T6	DOOR PANEL	UNITED GLASS
SL-10	DOOR INTERMEDIATE MULLION	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-11	ALUMINUM REINFORCEMENT	ALUM. AL. 6005-T6	DOOR PANEL	UNITED GLASS
SL-12	DOOR FRAME JAMB	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-13	DOOR FRAME JAMB	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-14	DOOR FRAME JAMB	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-15	DOOR JAMB FILLER	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-16	SILL TRACK FILLER	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-17	SILL TRACK WATER DIVERTER	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-18	JAMB	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-19	DOOR JAMB FILLER	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-20	DOOR JAMB	ALUM. AL. 6005-T6	DOOR PANEL	UNITED GLASS
SL-21	DOOR FRAME JAMB	ALUM. AL. 6005-T6	DOOR PANEL	UNITED GLASS
SL-22	DOOR FRAME JAMB	ALUM. AL. 6005-T6	DOOR PANEL ASSEMBLY	UNITED GLASS
SL-23	SLIDING GLASS DOOR HEAD	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
SL-24	SLIDING GLASS DOOR INTERLOCK	ALUM. AL. 6005-T6	DOOR PANEL	UNITED GLASS
SL-25	OPERABLE WINDOW	ALUM. AL. 6005-T6	WINDOW FRAME	UNITED GLASS
SL-26	OPERABLE WINDOW	ALUM. AL. 6005-T6	WINDOW FRAME	UNITED GLASS
60	HEAD & SILL HORIZONTAL	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
61	INTERIOR TRIM	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
62	HORIZONTAL MULLION	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
63	VERTICAL JAMB MULLION	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
64	VERTICAL MULLION	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
65	VERTICAL MULLION	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
67	SUB-BUCK	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
68	GLASS SUPPORT PLATE	ALUM. AL. 6005-T6	FRAME	UNITED GLASS
69	EXTERIOR CAP	ALUM. AL. 6005-T6	ASSEMBLY SCREWS	UNITED GLASS
70	EXTERIOR CAP	ALUM. AL. 6005-T6	TOP	UNITED GLASS
71	ALUMINUM TUBE	ALUM. AL. 6005-T6	BOTTOM	UNITED GLASS
72	EXTERIOR CAP	ALUM. AL. 6005-T6	BOTTOM	UNITED GLASS
73	GLASS SUPPORT	ALUM. AL. 6005-T6	BOTTOM	UNITED GLASS
G-20	GASKET	POLYPROPYLENE	BOTTOM	UNITED GLASS
-	3" ALUMINUM ANGLE	ALUM. AL. 6005-T6	BOTTOM	UNITED GLASS
-	3/16"x 1 1/2" SCREWS		ASSEMBLY SCREWS	DEWALT DRIL-FLEX

FRANK BENNARD, P.E.
PE# 0046549 CA# 9885



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