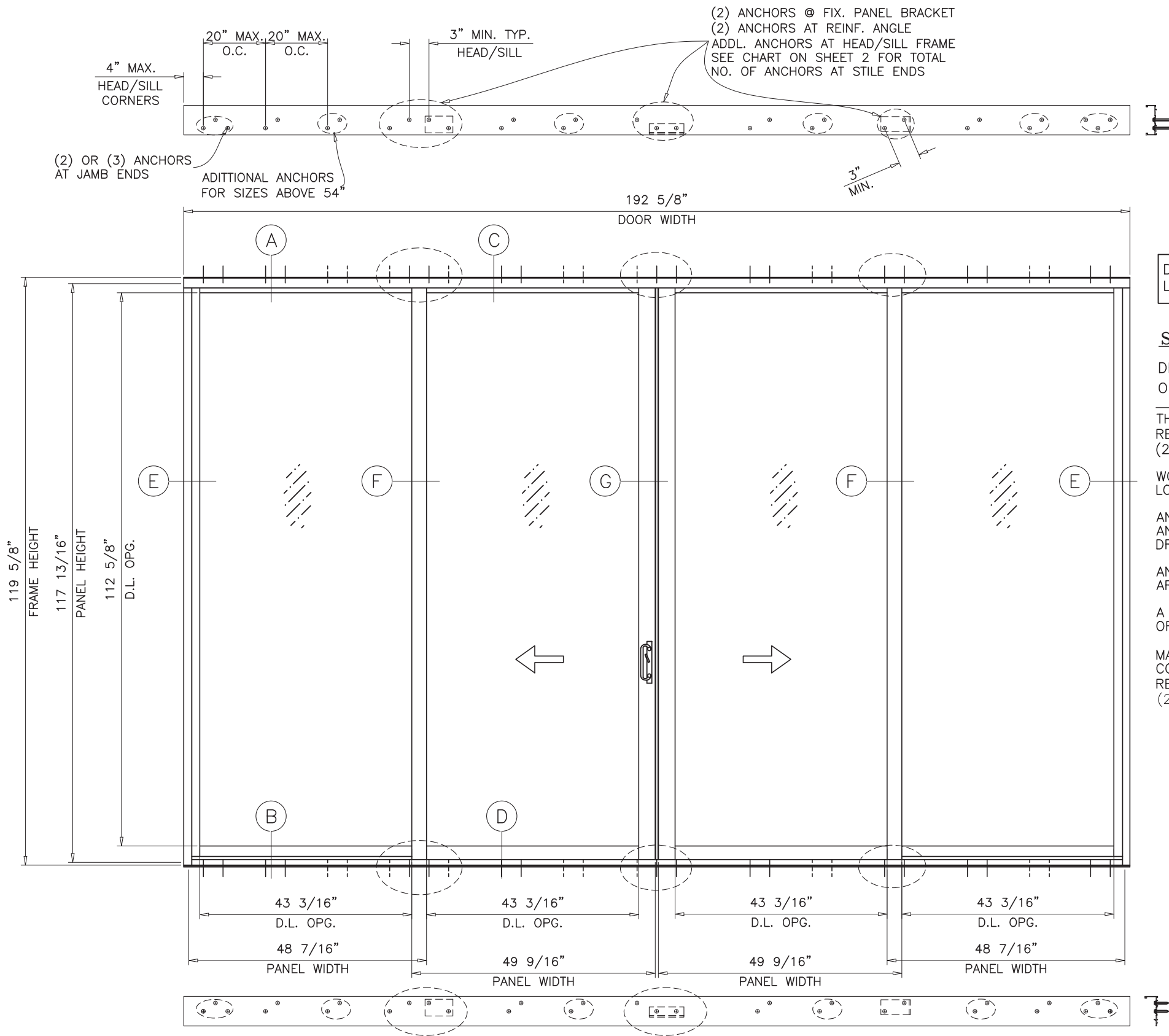




TYPICAL ELEVATION
TESTED UNIT

LAMINATED GLASS
LARGE MISSILE IMPACT

UNANCHORED JAMBS COMPLY WITH DEFLECTION
OF L/180 AND ALLOWABLE STRESS LIMITATION

DOORS GLAZED WITH LAMINATED GLASS RATED FOR
LARGE MISSILE IMPACT AND REQUIRE NO SHUTTERS.

SERIES-6001 ALUMINUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART SHOWN
ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 7TH EDITION FBC (2020)/ 8TH EDITION FBC
(2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER
LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS,
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL
DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS
ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN
OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 7TH EDITION FBC (2020)/ 8TH EDITION FBC
(2023).

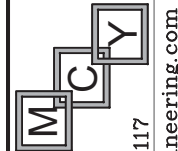
LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



August 11th, 2023

REVISIONS	
NO.	DATE DESCRIPTION
R3	08.11.23 FBC 2023



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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NRAP SERIES 6001 SLIDING GLASS DOOR (L.M.I.)

NR ARCHITECTURAL PRODUCTS INC.

4348 WESTROADS DRIVE

WEST PALM BEACH, FL 33407

P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL
FL #21434.1

DATE	08.11.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	16-085

DRAWING NO.
AD16-38

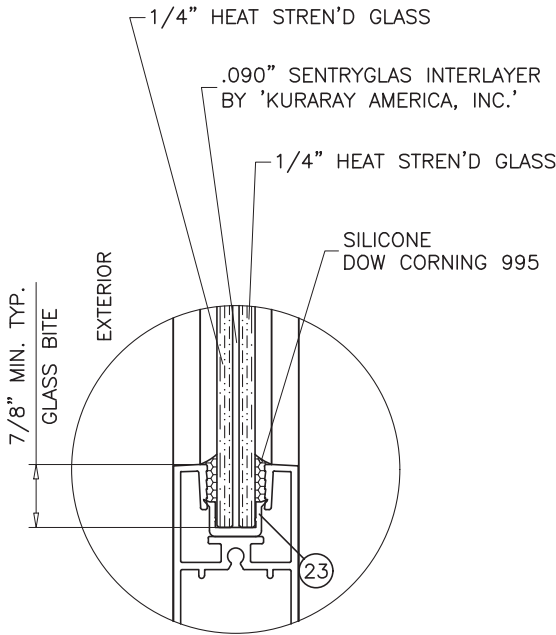
SHEET 1 of 7

DESIGN LOAD CAPACITY – PSF									
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'	
		4 ANCHORS	5 ANCHORS	6 ANCHORS	2 ANCHORS	3 ANCHORS	4 ANCHORS	2 ANCHORS	3 ANCHORS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	80	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42		100.0	100.0	100.0	97.2	100.0	100.0	100.0	100.0
48		100.0	100.0	100.0	89.6	100.0	100.0	100.0	100.0
54		100.0	100.0	100.0	84.1	100.0	100.0	100.0	100.0
60		100.0	100.0	100.0	80.3	100.0	100.0	100.0	100.0
36	84	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42		100.0	100.0	100.0	91.0	100.0	100.0	100.0	100.0
48		100.0	100.0	100.0	83.6	100.0	100.0	100.0	100.0
54		100.0	100.0	100.0	78.2	100.0	100.0	100.0	100.0
60		96.4	100.0	100.0	74.3	100.0	100.0	100.0	100.0
36	90	100.0	100.0	100.0	92.9	100.0	100.0	100.0	100.0
42		100.0	100.0	100.0	83.1	100.0	100.0	100.0	100.0
48		98.5	100.0	100.0	76.0	100.0	100.0	100.0	100.0
54		91.8	100.0	100.0	70.8	100.0	100.0	100.0	100.0
60		86.7	100.0	100.0	66.9	100.0	100.0	98.4	100.0
36	96	100.0	100.0	100.0	85.7	100.0	100.0	100.0	100.0
42		99.1	100.0	100.0	76.4	100.0	100.0	100.0	100.0
48		90.3	100.0	100.0	69.7	100.0	100.0	100.0	100.0
54		83.8	100.0	100.0	64.6	96.9	100.0	95.1	100.0
60		78.8	98.5	100.0	60.8	91.2	100.0	89.5	100.0
36	102	100.0	100.0	100.0	79.6	100.0	100.0	100.0	100.0
42		91.8	100.0	100.0	70.8	100.0	100.0	100.0	100.0
48		83.4	100.0	100.0	64.3	96.5	100.0	94.6	100.0
54		77.1	96.4	100.0	59.4	89.2	100.0	87.5	100.0
36	108	96.4	100.0	100.0	74.3	100.0	100.0	100.0	100.0
42		85.4	100.0	100.0	65.9	98.8	100.0	96.9	100.0
48		77.4	96.8	100.0	59.7	89.6	100.0	87.9	100.0
36	114	90.3	100.0	100.0	69.7	100.0	100.0	100.0	100.0
42		79.9	99.9	100.0	61.6	92.5	100.0	90.7	100.0
48		72.3	90.3	100.0	55.7	83.6	100.0	82.0	100.0
36	120	85.0	100.0	100.0	65.6	98.4	100.0	96.5	100.0
42		75.1	93.9	100.0	57.9	86.9	100.0	85.2	100.0
48		67.8	84.7	100.0	52.3	78.4	100.0	76.9	100.0

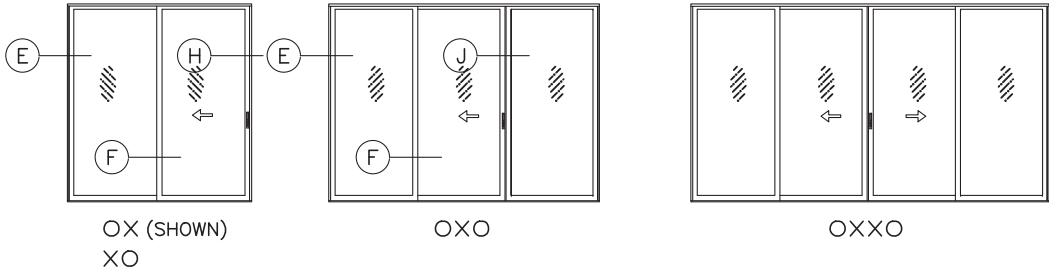
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS).

PANEL WIDTH NOMINAL = $\frac{\text{DOOR WIDTH}}{\text{NUMBER OF PANELS}}$

D.L. OPENING
D.L.O. HEIGHT = PANEL HEIGHT – 5.1875”
D.L.O. WIDTH FIX. PANEL = PANEL WIDTH – 5.250”
D.L.O. WIDTH MOV. PANEL = PANEL WIDTH – 6.375”



9/16” OVERALL LAMINATED GLASS
GLAZING DETAIL



APPROVED CONFIGURATIONS

YOUNG WANG
P.E.
FLORIDA REGISTRATION
NO. 55983
CAN 528677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

August 11th, 2023

REVISIONS

NO.	DATE	DESCRIPTION
R3	08.11.23	FEC 2023

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 Miramar Pkwy. STE. 301
Miramar, FL 33027
P: 305.271.0117
www.MCYEngineering.com
mcy@mcyengineering.com

NRAP SERIES 6001 SLIDING GLASS DOOR (L.M.I.)

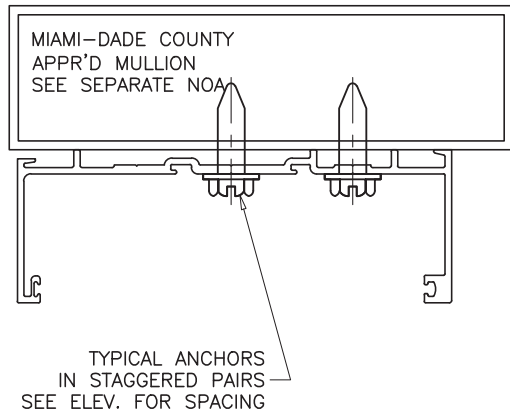
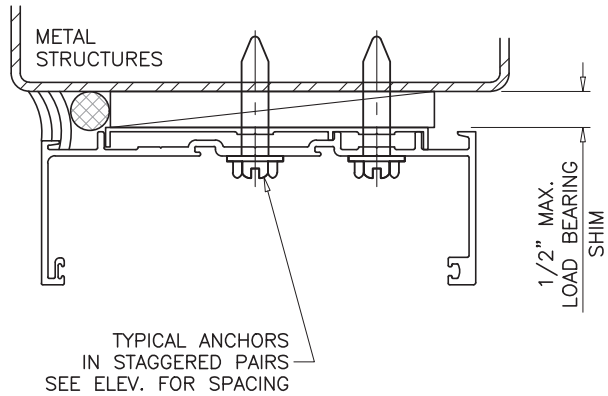
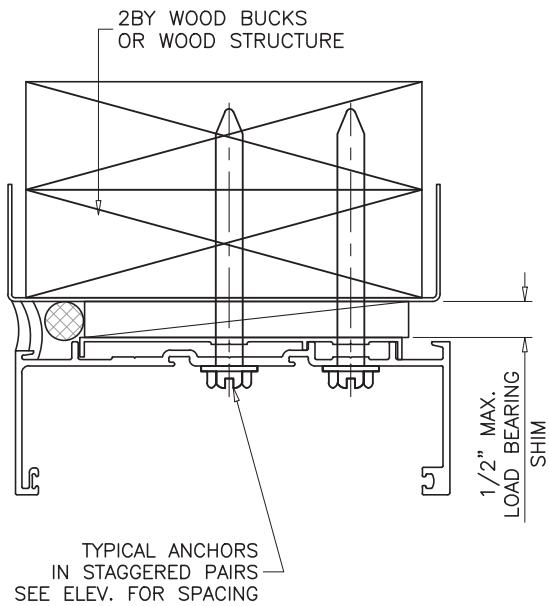
NR ARCHITECTURAL PRODUCTS INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL
FL #21434.1

DATE	08.11.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	16-085

DRAWING NO.
AD16-38

SHEET 2 of 7



WOOD BUCKS AND METAL STRUCTURES NOT BY N.R. WDW.
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

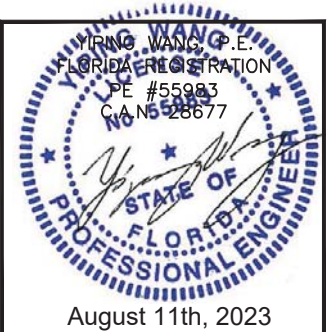
- TYPE 'A'**– 5/16" DIA. ULTRACON ($F_u = 177$ KSI, $F_y = 155$ KSI)
INTO WOOD (SG=0.55)
WITH 1–1/2" MIN. EMBED.
OR THRU 1X OR 2X WOOD BUCK INTO CONCRETE
WITH 1–1/4" MIN. EMBED.
- TYPE 'B'**– 3/8" DIA. POWERS WEDGE–BOLT ANCHOR ($F_u = 100$ KSI, $F_y = 65$ KSI)
INTO WOOD STRUCTURES (SG=0.55)
WITH 2–1/4" MIN. EMBED
3/8" DIA. POWERS WEDGE–BOLT ANCHOR ($F_u = 100$ KSI, $F_y = 65$ KSI)
INTO CONCRETE, $f_c' = 3000$ PSI
WITH 1–1/2" MIN. EMBED
5/16" DIA. ULTRACON ($F_u = 177$ KSI, $F_y = 155$ KSI)
INTO CONCRETE, $f_c' = 3000$ PSI
WITH 1–3/4" MIN. EMBED.
- TYPE 'C'**– 3/8" DIA. MACHINE BOLT GRADE 5 W/ WASHER & NUT ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO METAL STRUCTURES
STEEL : 12 GA. THK. MIN. ($F_y = 36$ KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063–T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
ANCHOR EDGE DISTANCES
INTO CONCRETE = 3" MIN.
INTO WOOD STRUCTURE = 1–1/2" MIN.
INTO METAL STRUCTURE = 1" MIN.

SEALANTS:

ALL FRAME CORNERS AND JOINTS SEALED WITH
DOW–795 OR TREMCO SPECTREM 2 SILICONE SEALANT.

WEEPHOLES:

- W1 = 1–1/2" X 1/2" WEEP SLOTS
(1) AT CENTER OF EACH PANEL
(1) AT EACH SIDE OF INTERLOCK
(1) AT ASTRAGAL STILE



REVISIONS	
NO.	DATE DESCRIPTION
R3	08.11.23 DEC 2023

MCY

ENGINEERING, INC.

GLAZING CONSULTANTS

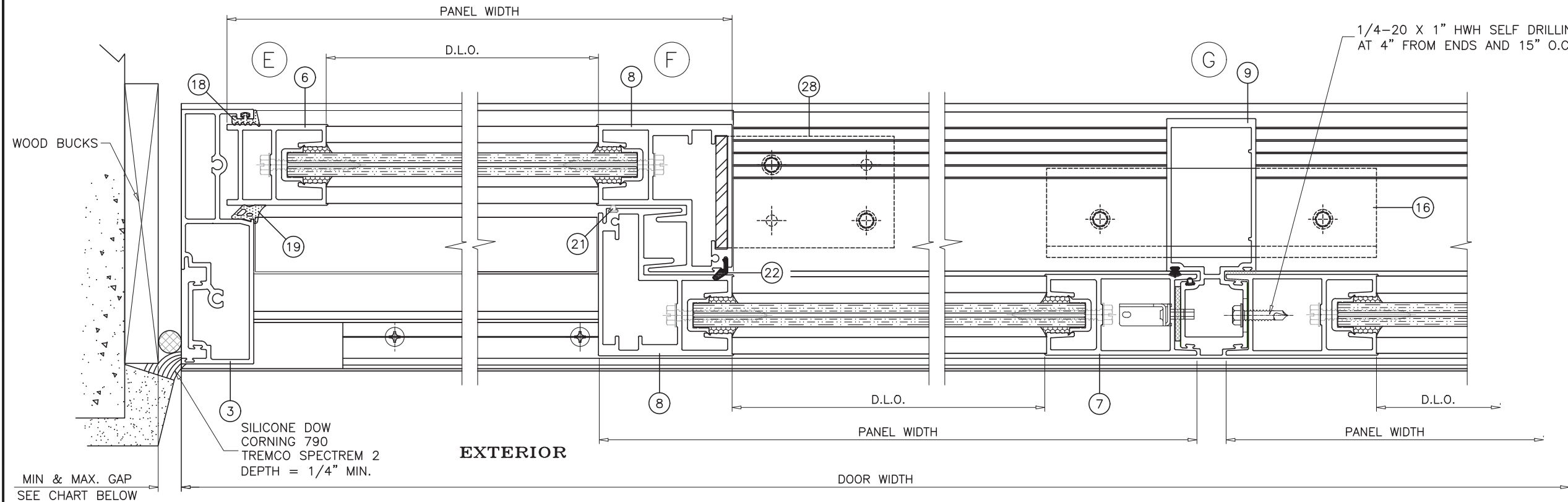
12781 Miramar Pkwy. STE. 301
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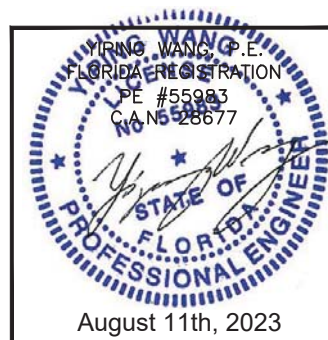
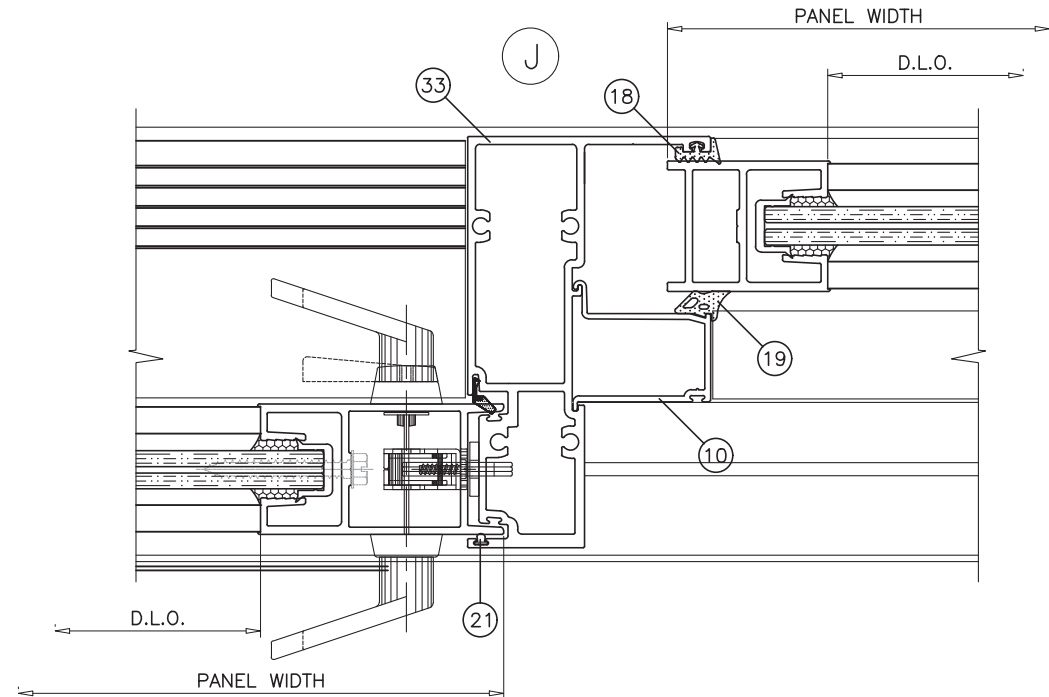
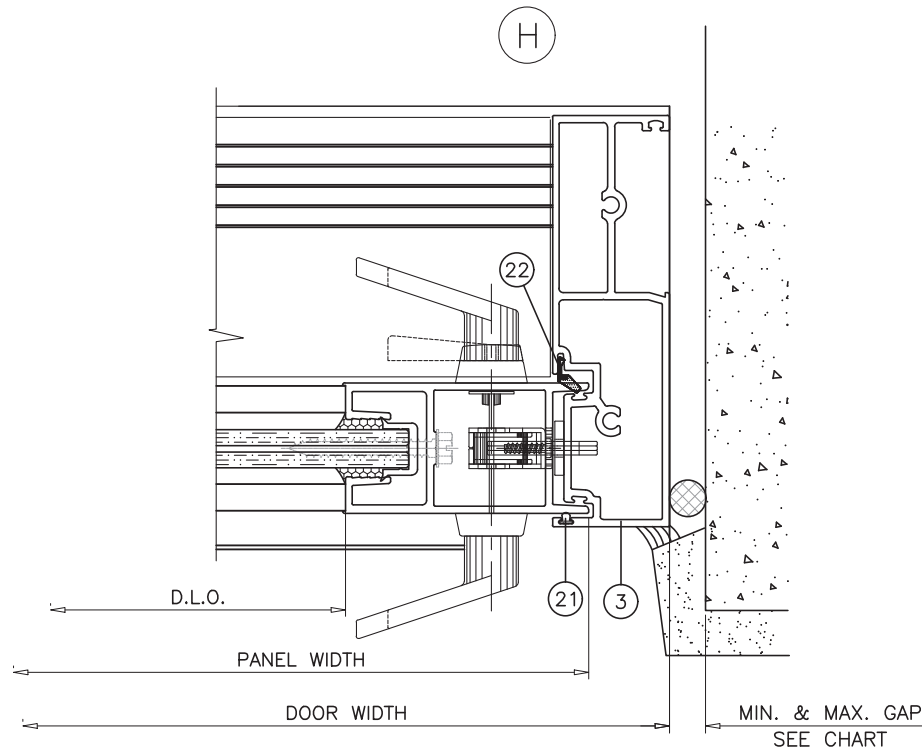
NRAP SERIES 6001 SLIDING GLASS DOOR (L.M.I.)

NR ARCHITECTURAL PRODUCTS INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL FL #21434.1	
DATE	08.11.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	16–085
DRAWING NO. AD16–38	
SHEET 4 of 7	



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
114"	3/8"	1/2"
119 5/8"	1/2"	3/4"



NO.	DATE	DESCRIPTION
R3	08.11.23	FEC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

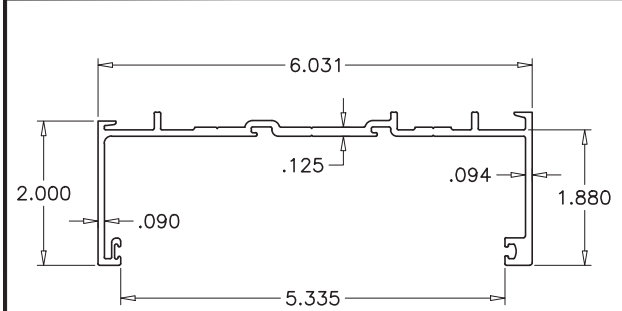
MCY

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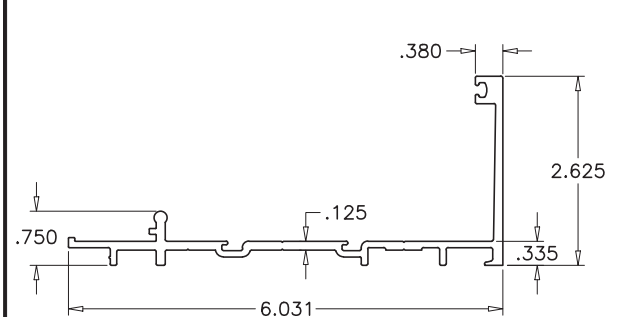
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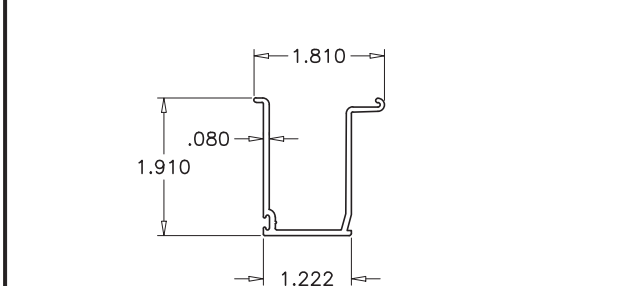
FLORIDA APPROVAL FL #21434.1	
DATE	08.11.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	16-085
DRAWING NO. AD16-38	
SHEET 5 of 7	



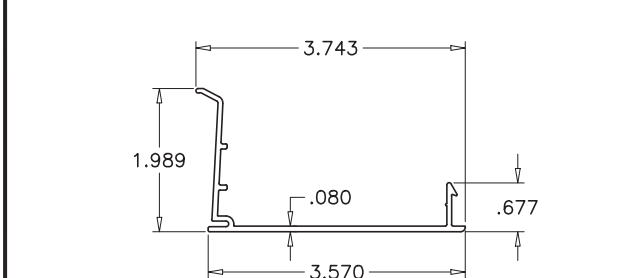
1 FRAME HEAD



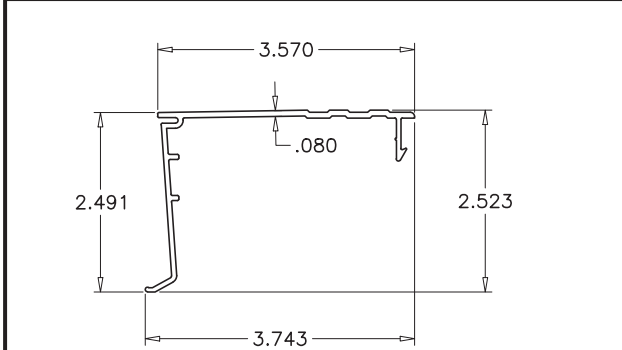
2 FRAME SILL



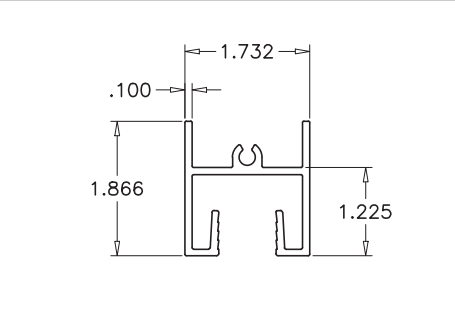
10 FIX. PANEL STOP



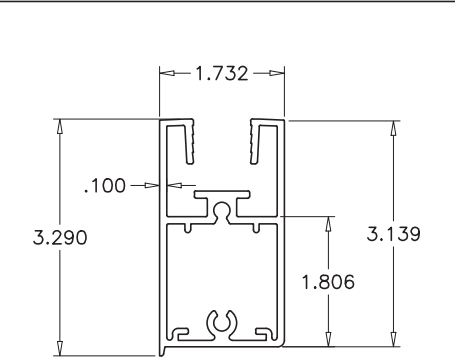
11 HEAD TRIM



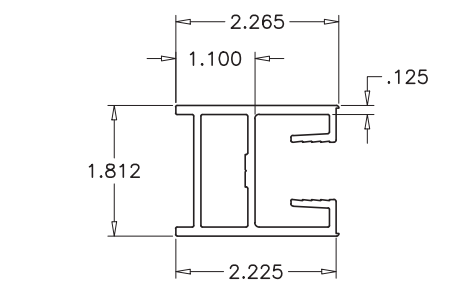
12 SILL THRESHOLD TRIM



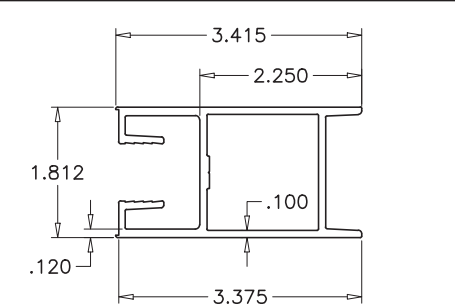
4 PANEL TOP RAIL



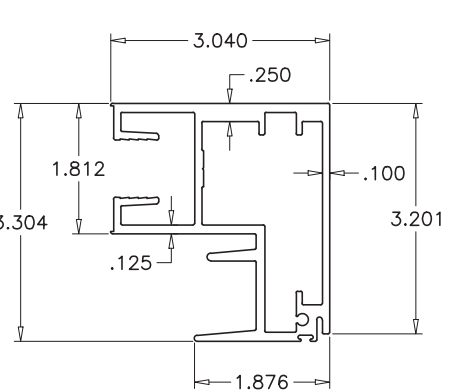
5 PANEL BOTTOM RAIL



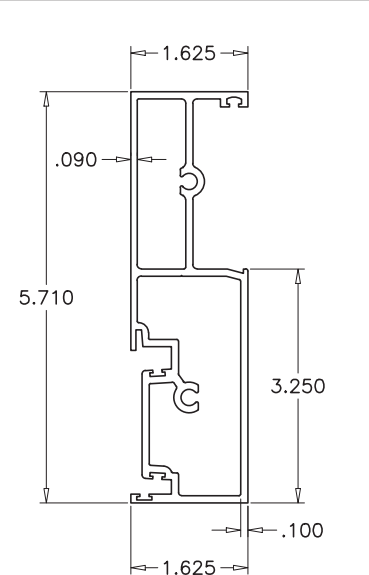
6 FIX. PANEL JAMB STILE



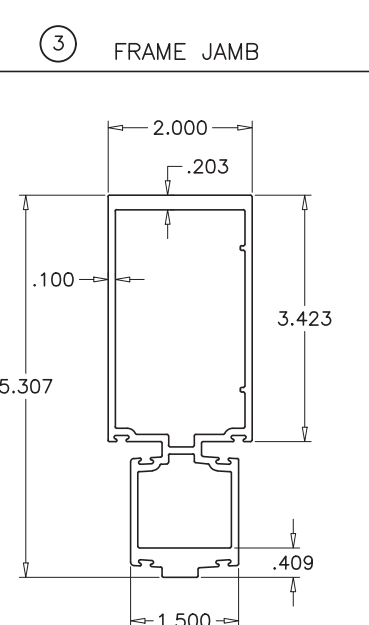
7 OPERATING PANEL JAMB STILE



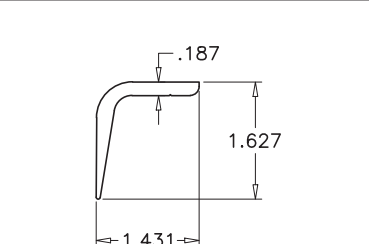
8 INTERLOCK STILE



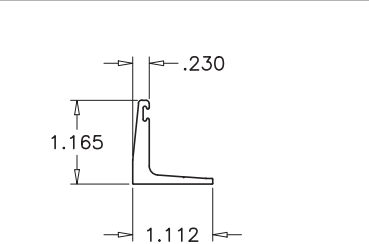
3 FRAME JAMB



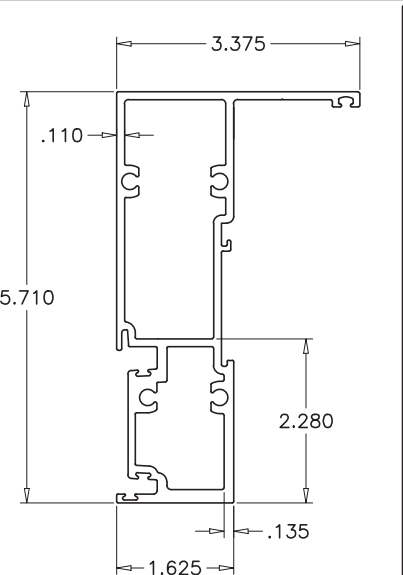
9 ASTRAGAL



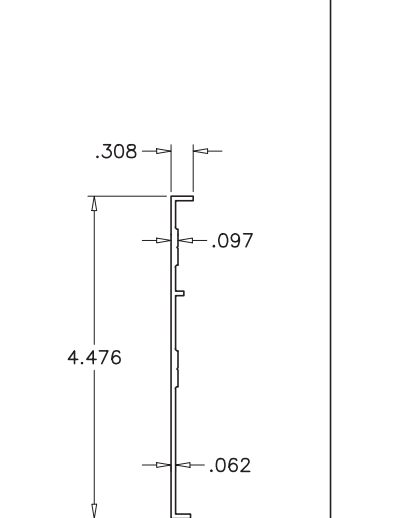
13 HEAD ANTI-BLOWOUT CLIP



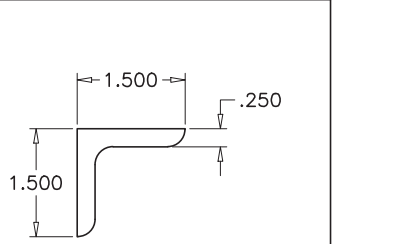
14 SILL ANTI-BLOWOUT CLIP



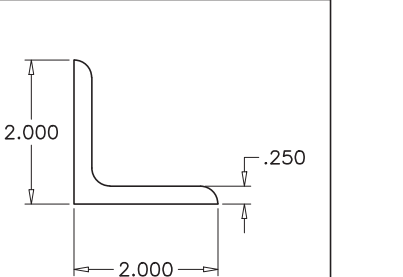
33 OXO LOCK STILE



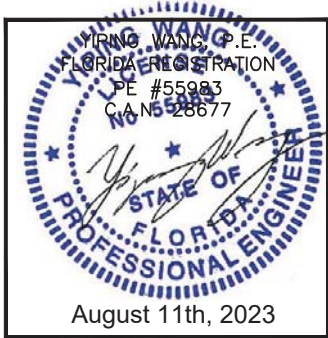
29 SHEAR CLIP



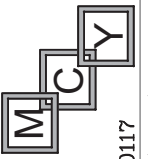
15 HEAD ANGLE



16 SILL ANGLE



REVISIONS	
NO.	DATE DESCRIPTION
R3	08.11.23 PEC 2023



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

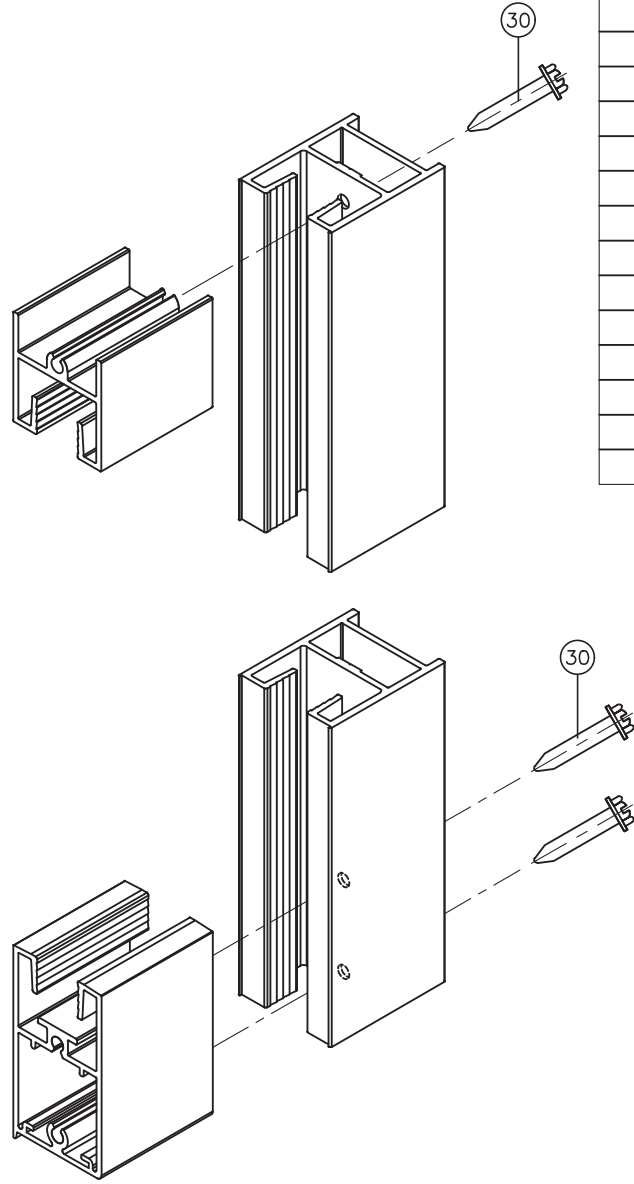
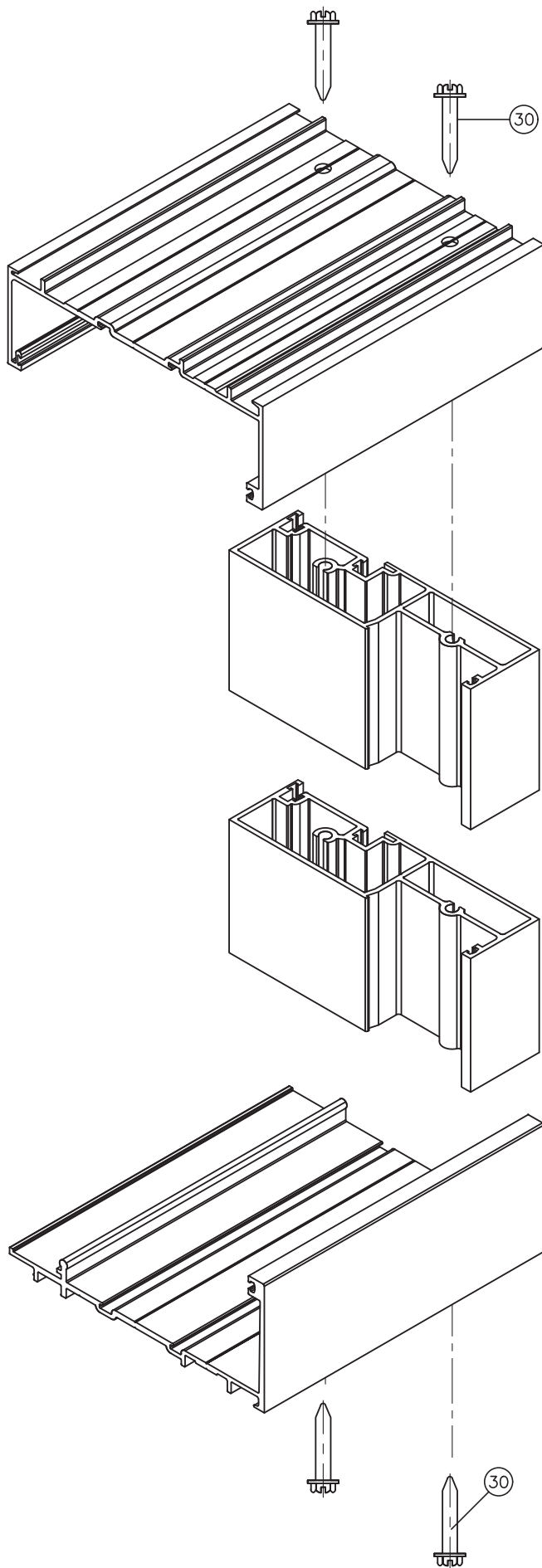
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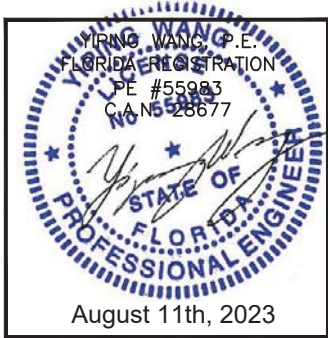
NRAP SERIES 6001 SLIDING GLASS DOOR (L.M.I.)

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4348 WESTROADS DRIVE
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FLORIDA APPROVAL FL #21434.1	
DATE	08.11.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	16-085
DRAWING NO. AD16-38	
SHEET 6 of 7	



ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SD-001	1	FRAME HEAD	6005-T5	-
2	SD-002	1	FRAME SILL	6005-T5	-
3	SD-003	1	FRAME JAMB	6005-T5	-
4	SD-006	2/ PANEL	TOP RAIL	6005-T5	-
5	SD-007	2/ PANEL	BOTTOM RAIL	6005-T5	-
6	SD-008	AS REQD.	FIX. PANEL JAMB STILE	6005-T5	-
7	SD-010	AS REQD.	OPERATING PANEL JAMB STILE	6005-T5	-
8	SD-009	AS REQD.	INTERLOCK STILE	6005-T5	-
9	SD-005	AS REQD.	ASTRAGAL STILE	6005-T5	-
10	SD-011	AS REQD.	FIX. PANEL STOP	6005-T5	-
11	SD-013	-	HEAD TRIM	6005-T5	-
12	SD-012	-	SILL THRESHOLD TRIM	6005-T5	-
13	SD-014	1	HEAD ANTI-BLOWOUT CLIP	6005-T5	AT MOV. PANELS ONLY
14	SD-015	1	SILL ANTI-BLOWOUT CLIP	6005-T5	LENGTH = FRAME WIDTH - 9"
15	NR-A1	-	HEAD REINF. ANGLE	STEEL	7-3/8" LONG
16	NR-A2	-	SILL REINF. ANGLE	STEEL	7-3/8" LONG
17	NR-A3	-	BACK UP PLATE	ALUM	1 X 4 X 1/4"
18	NR-G8	AS REQD.	PRESET GASKET	EPDM SPONGE	TR-15094E
19	NR-G9	AS REQD.	WEDGE GASKET	EPDM 70 DURO	TR-0436E
20	NR-G10	AS REQD.	FINPILE W'STRIPPING (.187W X .260H)	-	-
21	NR-G11	AS REQD.	BULB GASKET	VINYL	Q200T190 Q-LON
22	NR-G12	AS REQD.	FINGER GASKET	-	QEZD 250 Q-LON
23	NR-G14	AS REQD.	GLAZING GASKET (TRIMMED)	70 DURO	TR-15971W
24	NR-G15	AS REQD.	FIX. PANEL SETTING BLOCK	EPDM 80 DURO	4" LONG
25	NR-G16	AS REQD.	DOOR STOP	-	-
26	NR-A4	-	TRACK COVER	ST/ST	-
27	NR-A5	2/ MOV. PANEL	DUAL TANDEM ROLLER ASSEMBLY	ST/ST	DELTA
28	NR-A6	-	FIX. PANEL ANGLE BRACKET	ALUM	3 X 4 X 1/4" X 2-1/2" LONG
29	NR-A7	AS REQD.	SHEAR CLIP CONTINUOUS	6005-T5	-
30	NR-F4	AS REQD.	FRAME/PANEL ASSEMBLY SCREWS	-	1/4-20 X 1-1/2" HWH TC
31	NR-F5	-	HEAD ANTI-BLOWOUT CLIP FASTENERS	-	1/4-20 X 3/4" HWH MS
32	NR-F6	-	SILL ANTI-BLOWOUT CLIP FASTENERS	-	#12 X 1/4" X 1/2" PHP SMS
33	SD-004	AS REQD.	OXO PANEL LOCK STILE	6005-T5	-
34	-	AS REQD.	MULTI POINT LOCK	ST. STEEL	AMESBURY



REVISIONS

NO.	DATE	DESCRIPTION
R3	08.11.23	FEC 2023

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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NRAP SERIES 6001 SLIDING GLASS DOOR (L.M.I.)

NR ARCHITECTURAL PRODUCTS INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL
FL #21434.1

DATE	08.11.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	16-085

DRAWING NO.
AD16-38

SHEET 7 of 7