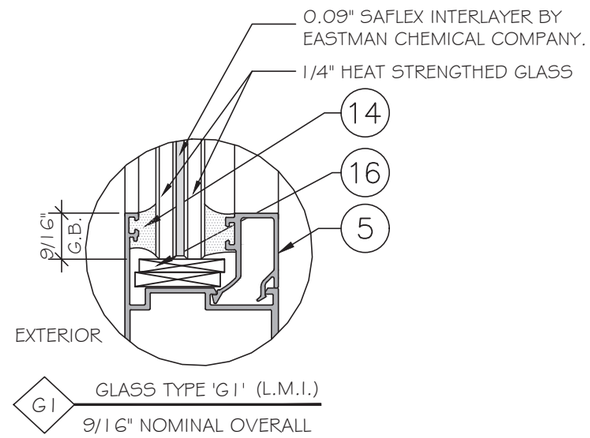
SHANGHAI YY WINDOW CO, LTD
SERIES YY 100 ALUMINUM CASEMENT WINDOW SYSTEM
LARGE MISSILE IMPACT



G1 — GLASS TYPE 'G1' (L.M.I.)
9/16" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

- WINDOWS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. IMPACT SHUTTERS ARE NOT REQUIRED.

- SYSTEM TESTED FOR LEVEL "D" IMPACT.

- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.

- 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.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.

- METAL STRUCTURES NOT SHANGHAI YY WINDOW CO, LTD BUILDING MATERIAL TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.

STEP 2: SEE SHEET 02 AND 03 FOR TYPICAL WINDOW ELEVATION AND DESIGN LOAD.

STEP 3: SEE SHEET 05 FOR ANCHOR OPTIONS. SEE SHEET 02 & 03 FOR ANCHOR LAYOUT.

STEP4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THROUGH STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER

C / 7 — C: SECTION NUMBER; 7: SHEET NUMBER

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.

FLORIDA APPROVAL:
FL 46811

YIPING WANG, P.E.
FLORIDA REGISTRATION
NO. #55983
C.A. No. 28077
STATE OF FLORIDA
PROFESSIONAL ENGINEER
June 12, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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MIRAMAR, FL 33027 P: 305-271-0117
www.MCYEngineering.com mcy@mcyengineering.com

YY 100 ALUMINUM CASEMENT WINDOW - LMI

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Rev. No.	Date	Drawn By	Description
1	06.11.2024	James	NEW APPROVAL

Drawn Date: 06.11.2024
Drawn By: James

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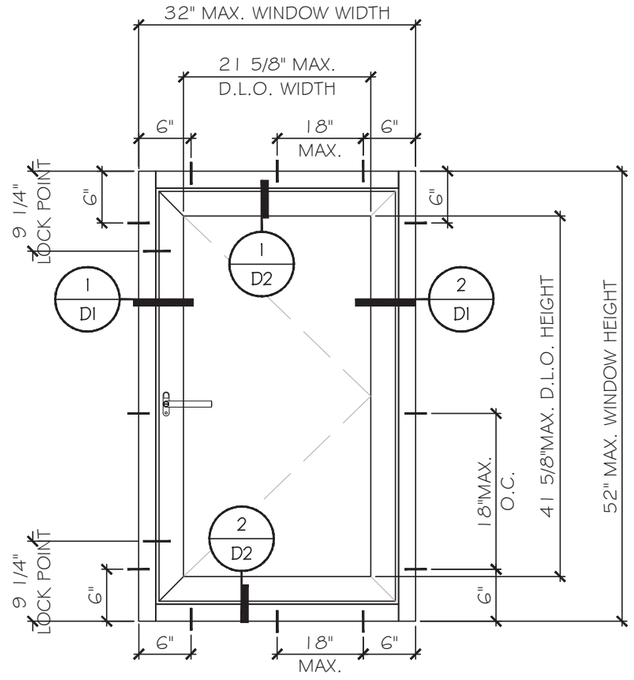
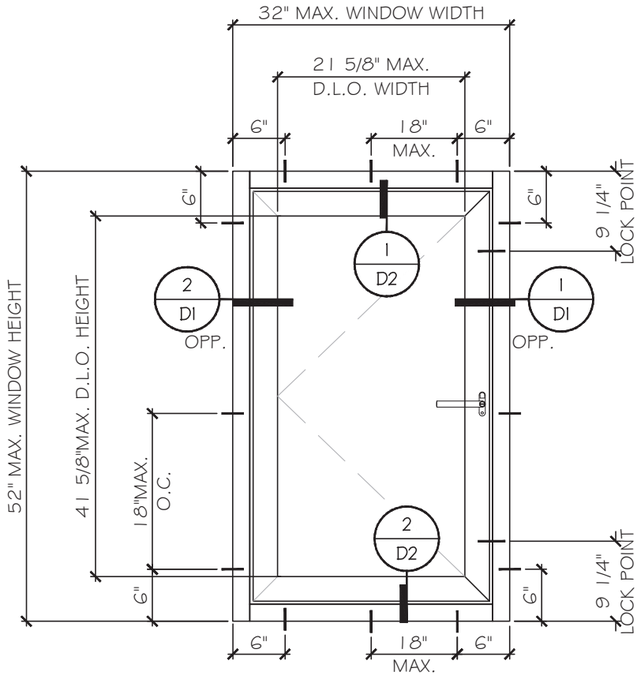
AD24-17

C1

Sheet No.
1 OF 10



TYPICAL EXTERIOR ELEVATIONS



TYPICAL EXTERIOR ELEVATIONS

DESIGN LOAD
NOTE: FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+ 65 PSF
- 65 PSF

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E1

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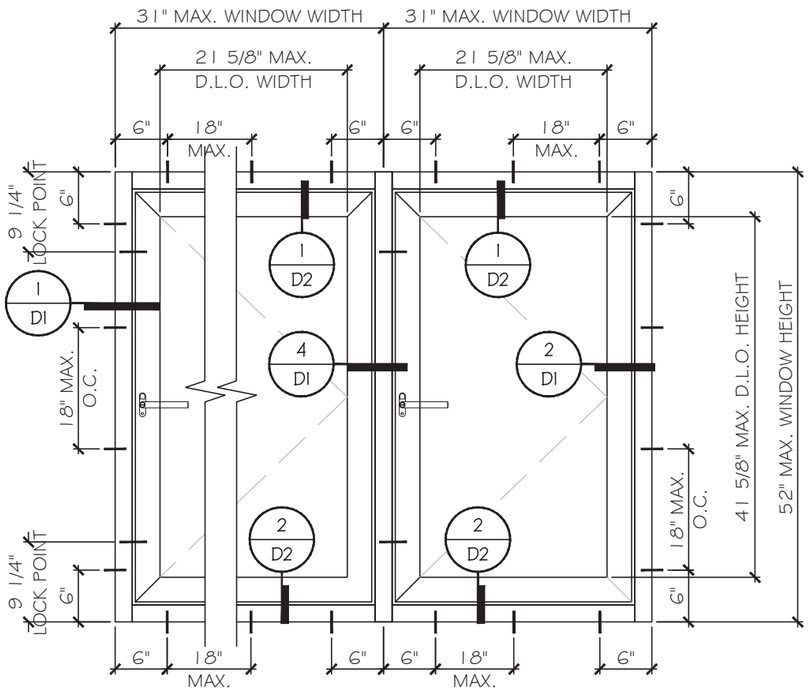
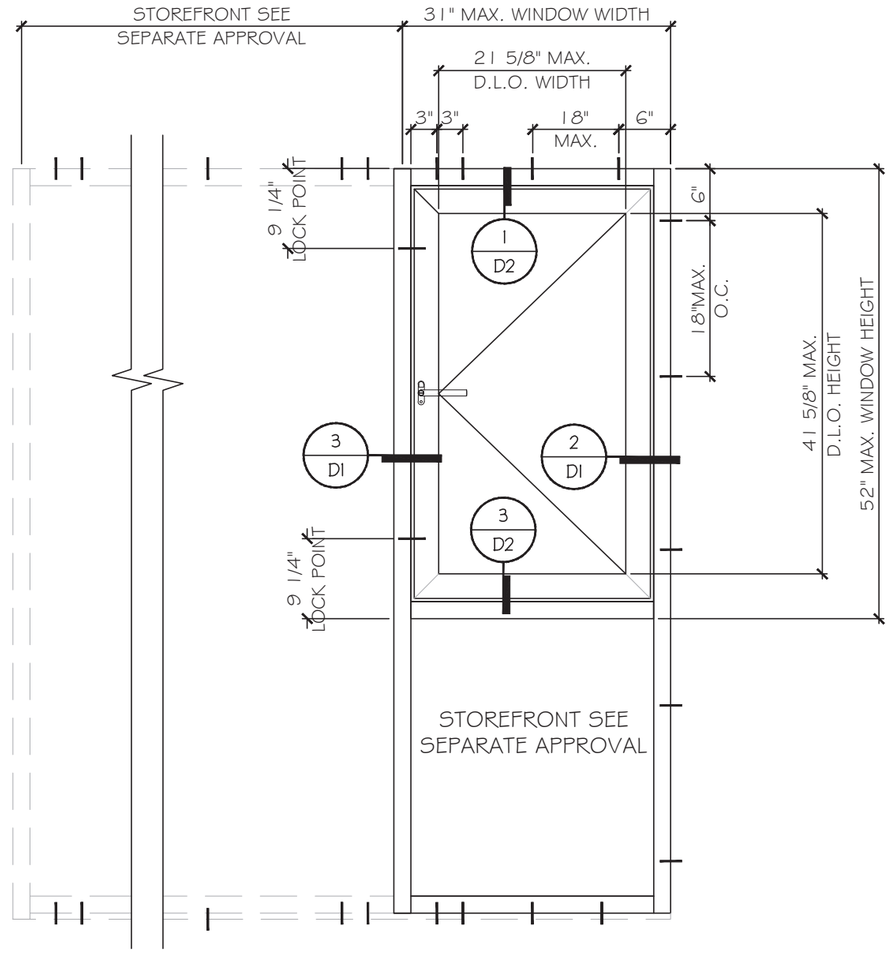
2 OF 10



TYPICAL EXTERIOR ELEVATIONS



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E2

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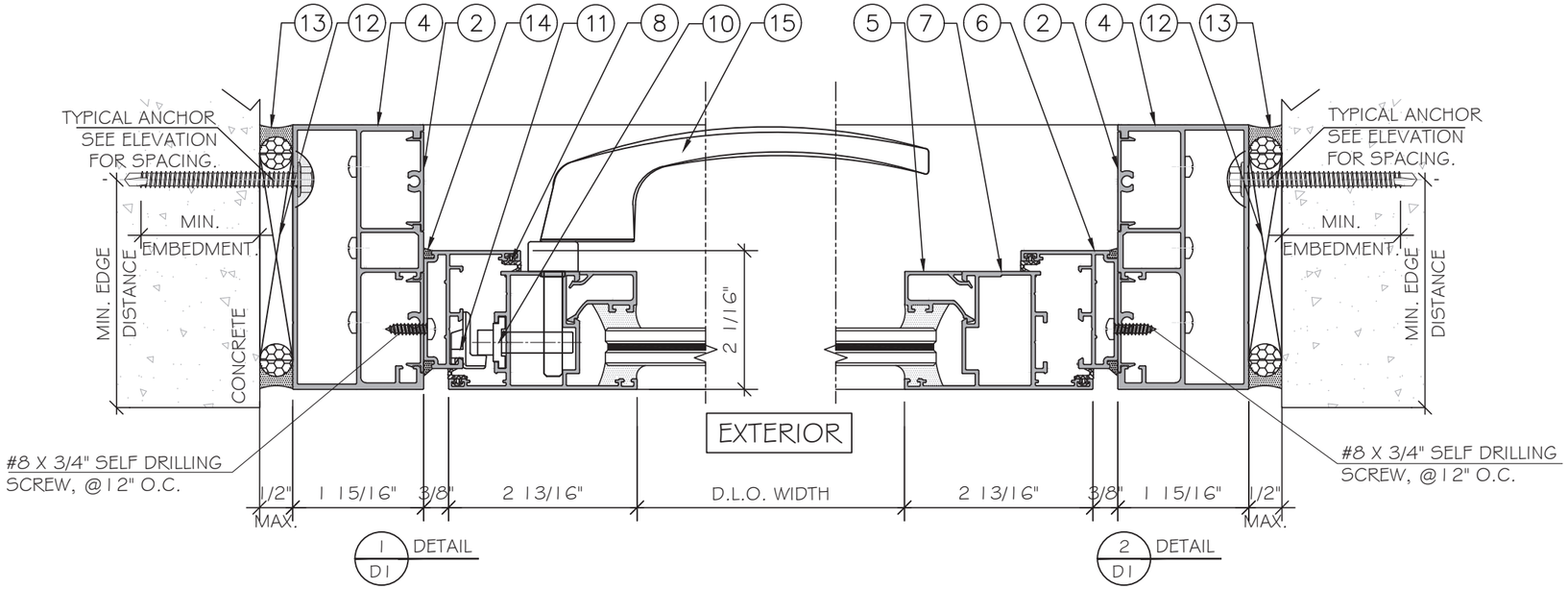
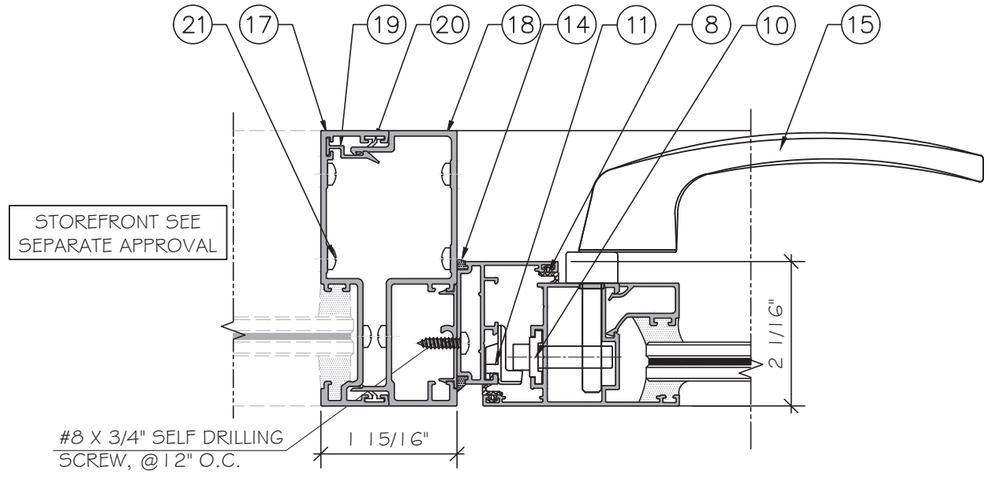
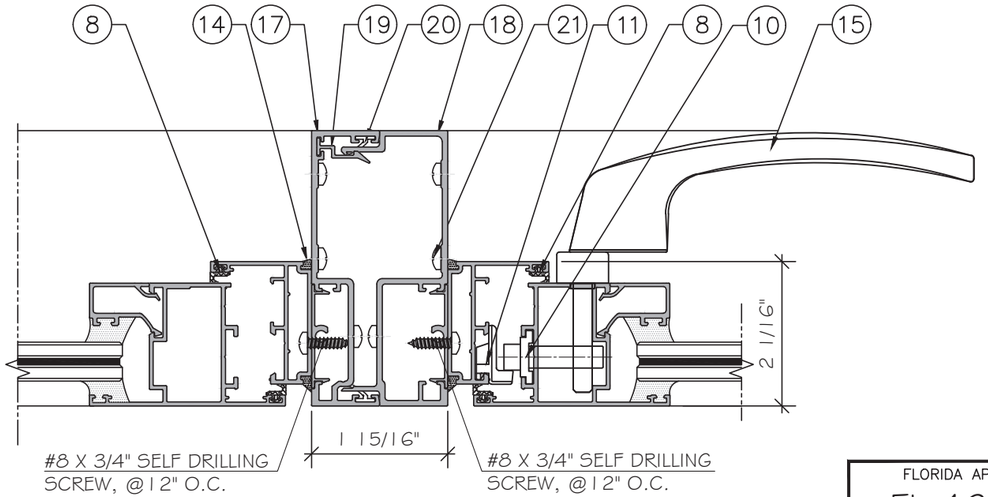
3 OF 10







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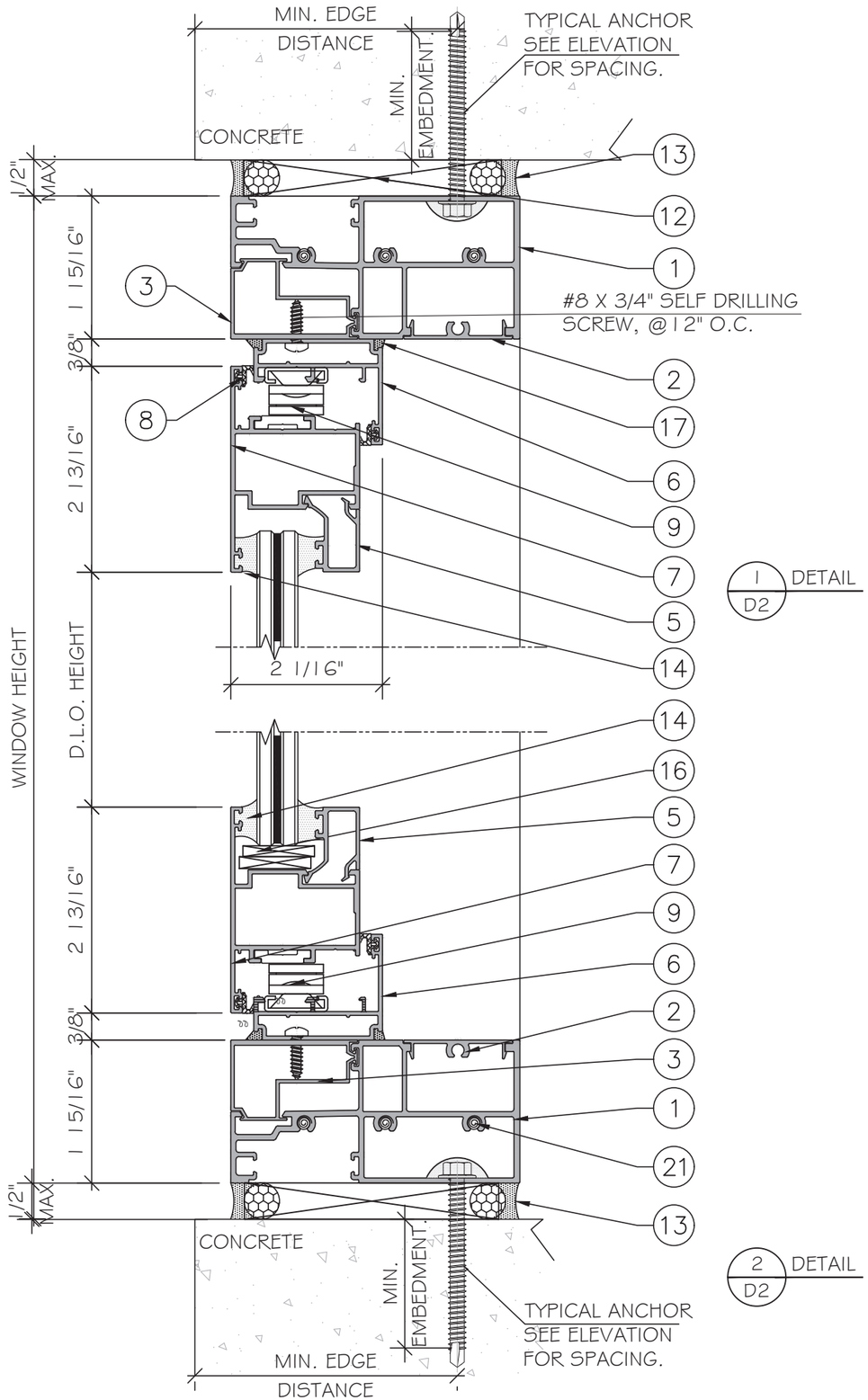
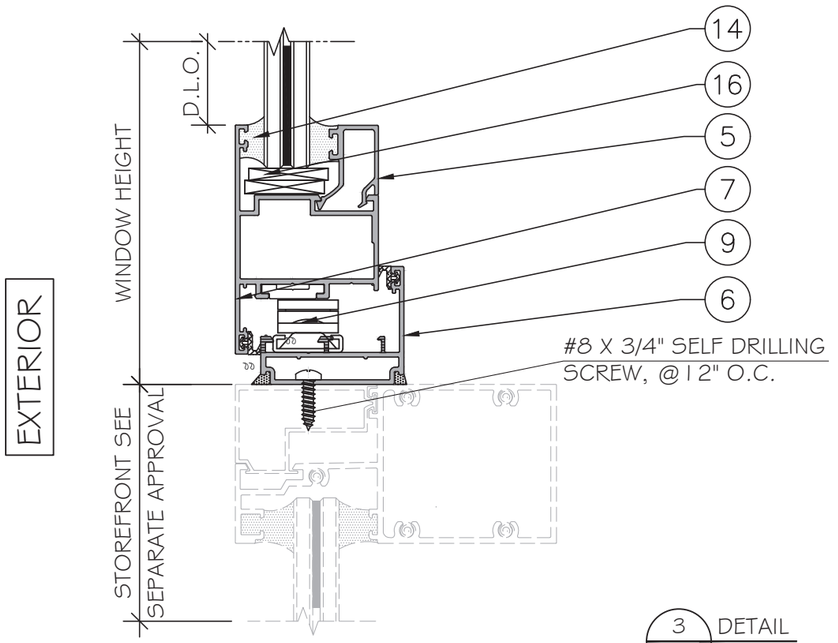


1 / D2 DETAIL



3 / D2 DETAIL

2 / D2 DETAIL

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TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ JAMBS/ SILL)
1 3/4" MIN. EMBED INTO CONC. BLOCKS (JAMB ONLY)

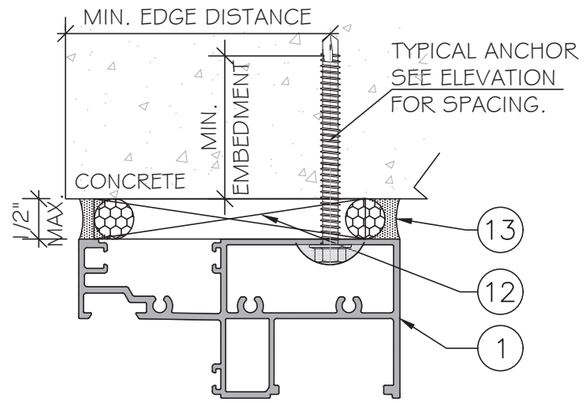
TYPE "B": 1/4" TEKS/SELF DRILLING SCREW(GRADE 5) (Fu=120 KSI, Fy=92 KSI)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE

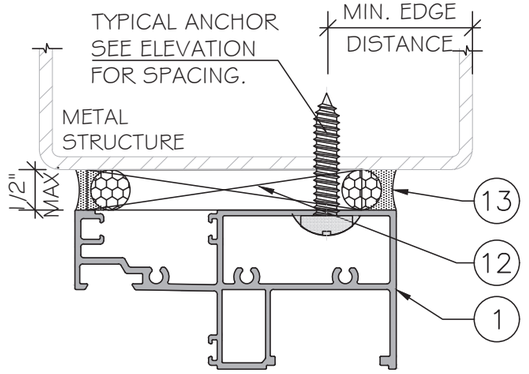
STEEL: 12 GA. MIN. (Fy=36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED)

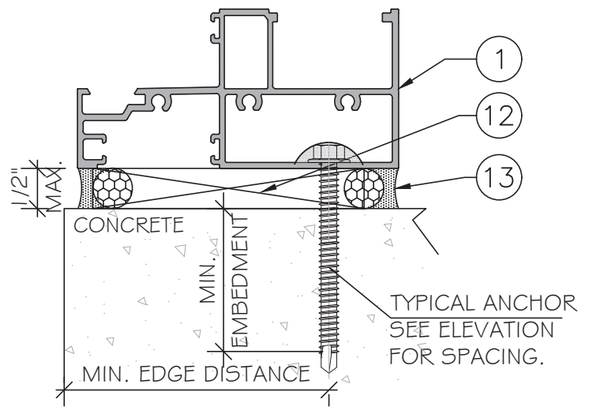
TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE = 2 1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

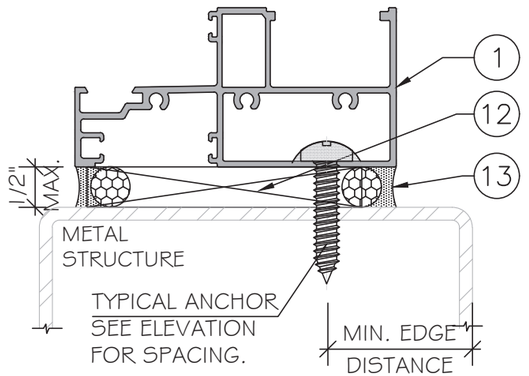
CONCRETE f'c = 3000 psi MIN.
C-90 HOLLOW/FILLED BLOCK f'm = 2000 psi MIN.
NORMAL STRENGTH CMU(AT JAMB ONLY)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 983.
FRAME CORNERS SEALED WITH DOW CORNING 999 OR EQUAL COMPATIBLE









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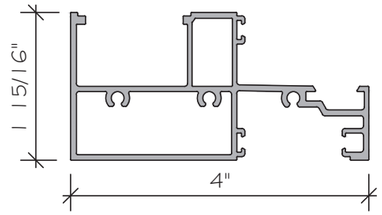
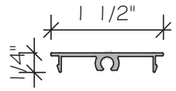


1 ALUM.TRANSOM

YY100-74 6063-T5

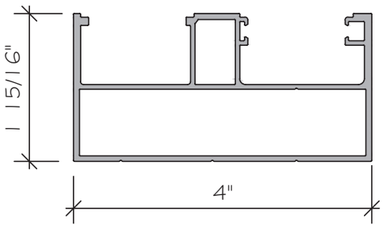


2 ALUM COVER PLATE

YY86-21 6063-T5

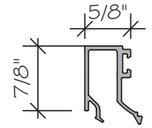
3 ALUM.SUPPORTING PROFILES

YY100-36 6063-T5



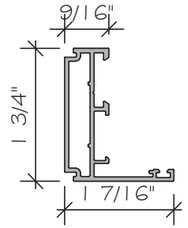
4 ALUM. JAMB

YY100-73 6063-T5



5 ALUM. SASH BEAD

YY150-46 6063-T5



6 ALUM.AWING FRAME

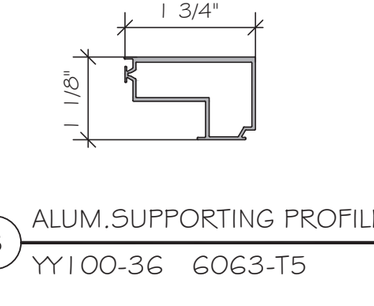
YY100-9 6063-T5

6a ALUM. JIONT ANGLE.

HP504B04 6063-T5

7 ALUM.SASH.

YY86-5 6063-T5

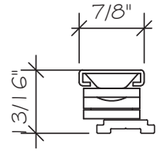


7a ALUM.JIONT ANGLE.

JM0017 6063-T5

8 EPDM GASKET

EPDM



9 FRICTION HINGE

STAINLESS STEEL

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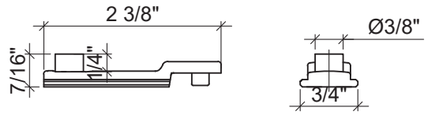
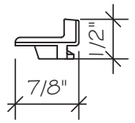
7 OF 10



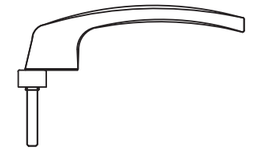
10 TRANSFER BAR&LOCK POINTS

N39



11 LOCKS

ZA1-6A



15 HANDLE

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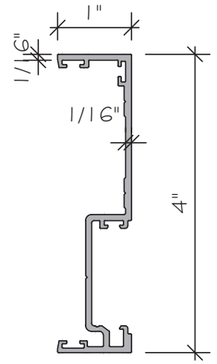
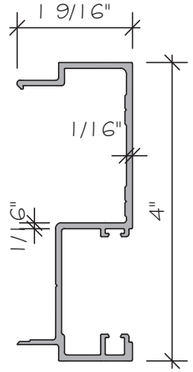


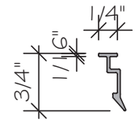
17 ALUM.FEMALE COLUMN.

YY100-3 6063-T6



18 ALUM.MALE COLUMN.

YY100-2 6063-T6



19 ALUM.SNAP.

YY100-15 6063-T5

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www.MCYEngineering.com mcy@mcyengineering.com

YY 100 ALUMINUM CASEMENT WINDOW - LMI

SHANGHAI YY WINDOWS CO., LTD.
HAIYING ROAD, BINHAI INDUSTRIAL AREA
QIDONG, NANTONG, JIANGSU 201300,China
EMAIL: info@yyconstruction.com
P. +61 481 978 888

Rev. No.	Date	Drawn By	Description
1	06.11.2024	James	NEW APPROVAL

Drawn Date 06.11.2024

Drawn By James

DRAWING NO.

AD24-17

PART

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BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF./REMARKS
1	YY100-74	TRANSOM	ALUM.6063-T5	YY WINDOWS
2	YY86-21	COVER PLATE	ALUM.6063-T5	YY WINDOWS
3	YY100-36	SUPPORTING PROFILES	ALUM.6063-T5	YY WINDOWS
4	YY100-73	JAMB	ALUM.6063-T5	YY WINDOWS
5	YY150-46	SASH BEAD	ALUM.6063-T5	YY WINDOWS
6	YY100-9	CONVERT FRAME	ALUM.6063-T5	YY WINDOWS
6a	HP504B04	JIONT ANGLE	ALUM.6063-T5	YY WINDOWS
7	YY86-5	SASH	ALUM.6063-T5	YY WINDOWS
7a	JM0017	JIONT ANGLE	ALUM.6063-T5	YY WINDOWS
8	--	EPDM GASKET	EPDM	Durometer 50±5 shore A
9	--	FRICTION HINGE	STAINLESS STEEL	KIN LONG
10	N39	TRANSFER BAR&LOCK POINTS	STAINLESS STEEL /ALUMINUM ALLOY	KIN LONG
11	ZA1-6A	LOCKS	STAINLESS STEEL	KIN LONG
12	--	PLASTIC SHIM	--	--
13	--	WEATHER SEALANT	DOWSIL 795 OR 790	DOW CORNING
14	--	STRUCTURAL SEALANT	DOWSIL 795	DOW CORNING
15	PZSW001	HANDLE	ALUMINUM ALLOY	KIN LONG
16	--	SETTING BLOCK	TPE	SHORE HARDNESS 65-80
17	YY100-3	ALUM.FEMALE COLUMN.	ALUM.6063-T6	YY WINDOWS
18	YY100-2	ALUM.MALE COLUMN.	ALUM.6063-T6	YY WINDOWS
19	YY100-15	ALUM.SNAP.	ALUM.6063-T5	YY WINDOWS
20	--	EPDM GASKET	EPDM	Durometer 50±5 shore A
21	--	DIA. 3/16"x1". ASSEMBLY SCREW	STAINLESS STEEL	--

FLORIDA APPROVAL:
FL 46811

YIMING WANG, P.E.
FLORIDA REGISTRATION
LIC. #55983
CA No. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
June 12, 2024

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GLAZING CONSULTANTS
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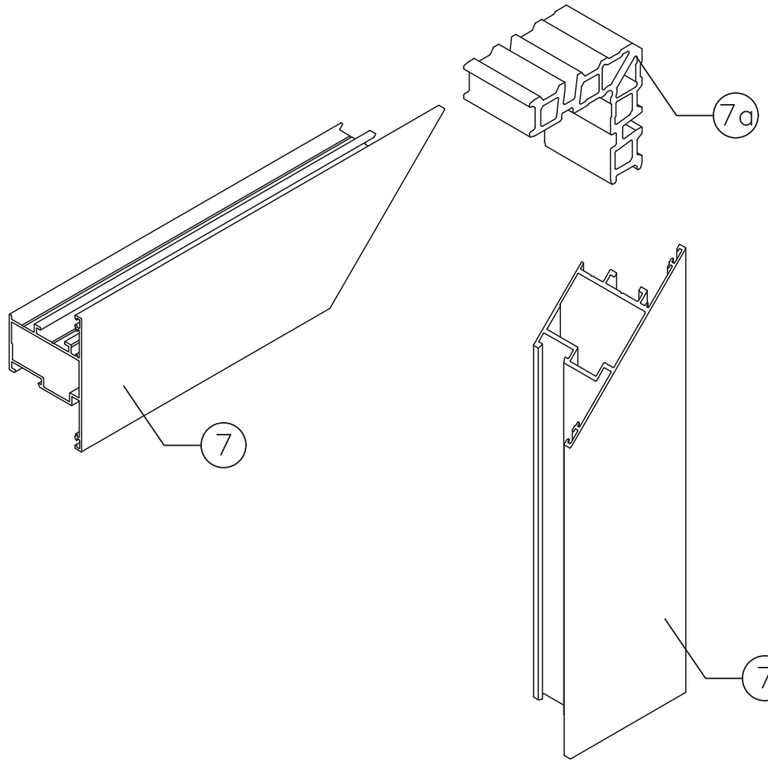
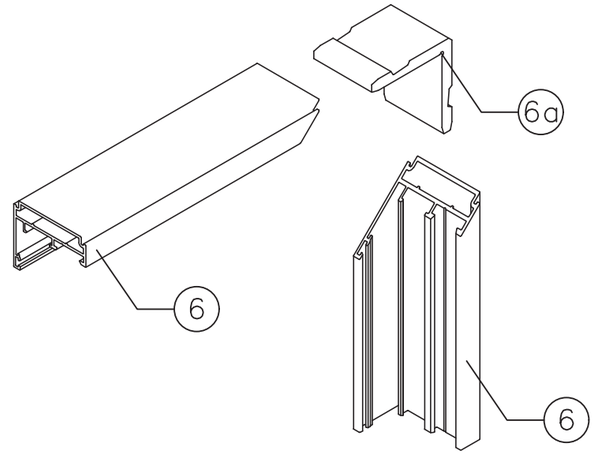


SASH CORNER ASSEMBLY



FRAME CORNER ASSEMBLY

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