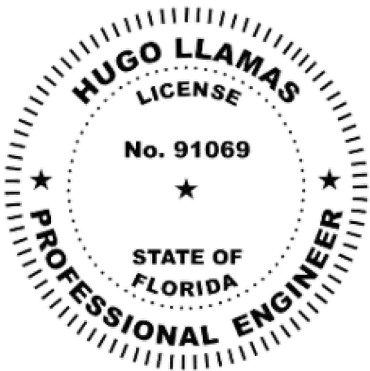


PRODUCT DEVELOPMENT

"CS 2100" - ALUMINUM CASEMENT WINDOW

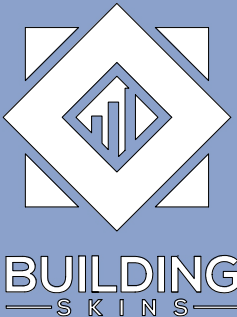
PRODUCT APPROVAL DRAWINGS



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Llamas

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Hugo Llamas
Date: 2026.02.18
14:03:11 -05'00'



14 NE 1ST AVE. STE 815,
MIAMI, FL 33132
PH. (786) 553-2225

SERIES "CS 2100"
ALUMINUM CASEMENT
WINDOW (L.M.I.)

EMC WINDOWS AND
DOORS, LLC.
3695 NW 74TH STREET
MIAMI, FL 33147
TEL. (305) 283-6280
EMCWINDOWSDOORS@GMAIL.COM

DRAWINGS NUMBER:
25-0158P.1

REVISIONS:

No.	DATE	DESCRIPTION

DATE:
AUGUST 25TH, 2025

DRAWN BY: LR & AO	SCALE:
SHEET No: 00 OF 09	SHEET NAME: COVER

CS2100 ALUMINUM CASEMENT WINDOW

GENERAL NOTES:

- A. THE PRODUCT SHOWN HEREIN IS DESIGNED AND TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE 8TH EDITION 2023 (FBC 2023), INCLUDING HVHZ (HIGH VELOCITY HURRICANE ZONE)
- B. ADEQUACY OF THE EXISTING STRUCTURAL SUBSTRATE (METAL, CONCRETE, MASONRY, WOOD, ETC) NEEDS TO BE ABLE TO WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- C. WOODBUCKS EITHER 1BY OR 2BY (OPTIONAL) NEED TO BE DESIGNED AND SPECIFIED BY THE ARCHITECT OF RECORD OR THE ENGINEER OF RECORD AND NEED TO BE ABLE TO WITHSTAND ALL THE TRANSFERRED LOADS FROM THE GLAZING PRODUCT CORRECTLY.
- D. ALL ANCHORS NEED TO BE CORROSION RESISTANT, SEE PRODUCT APPROVAL FOR SPECIFIED ANCHORS REQUIRED.
- E. ALL DESIGN LOADS SHOWN IN APPROVAL ARE BASED ON ASD (ALLOWABLE STRESS DESIGN), TO GET ULTIMATE LOADS ASD LOADS NEED TO BE MULTIPLIED BY A FACTOR MULTIPLIER OF 1.6
- F. FINAL PRODUCT NEED TO HAVE LABEL.
- G. THESE GLAZING PRODUCTS ARE RATED FOR LARGE MISSILE IMPACT (L.M.I.)
- H. ALL SITE SPECIFIC CONDITIONS IN ANY PROJECT NEEDS TO BE PROCURED BY A LICENSED REGISTERED ENGINEERED OR ARCHITECT.
- I. WHEN USING THIS PRODUCT, SHUTTERS ARE NOT NECESSARY.
- J. SHIMS THAT ARE USED WITH THIS SYSTEM NEED TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- K. THIS PRODUCT APPROVAL COMPLIES WITH ALL WATER INFILTRATION REQUIREMENTS FOR IMPACT AND HVHZ SYSTEMS
- L. MANUFACTURER NEEDS TO SHOW PRODUCT LABEL IN ALL MANUFACTURED SYSTEMS.

MAXIMUM DESIGN LOADS:

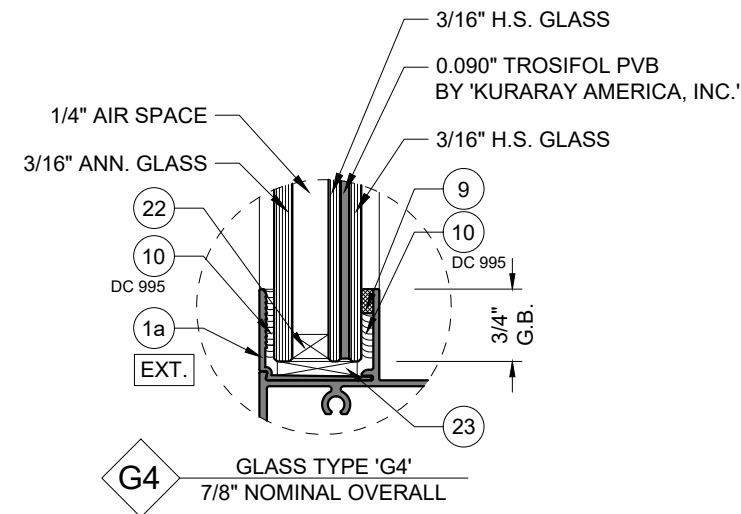
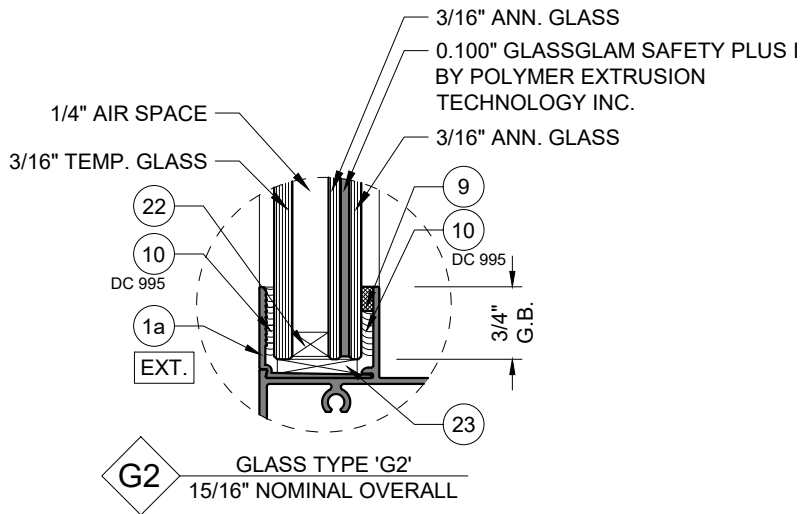
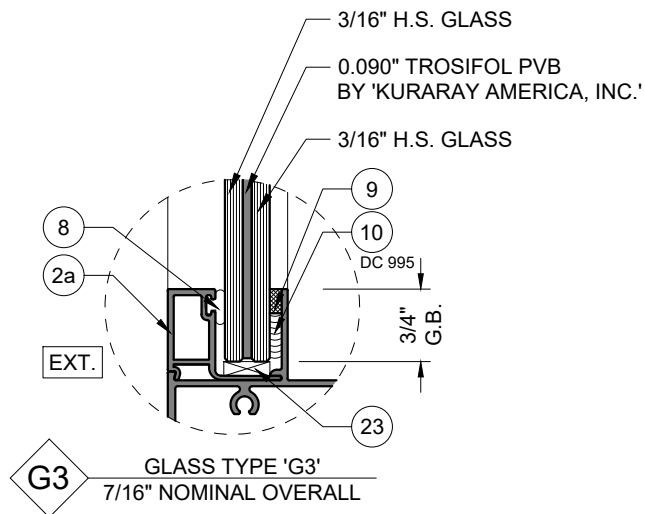
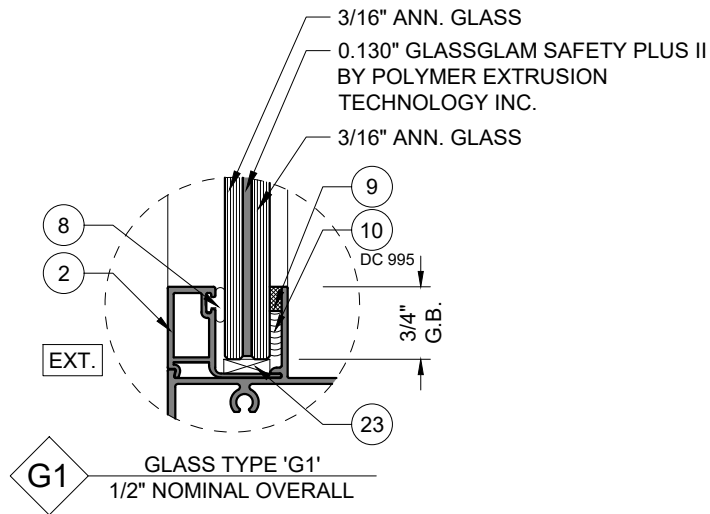
- A. SHEET E2 CONTAINS THE MAXIMUM DESIGNED LOADS.
- B. ANCHORS SPACING ARE SHOWN IN SHEET E1.
- C. ANCHOR TYPES ARE SHOWN ON SHEET D2. THIS SHEET SHOWS THE EDGE DISTANCE, EMBEDMENT, TYPE OF ANCHOR, AND ALL REQUIREMENTS ANCHORES NEED TO COMPLY WITH THESE SPECIFICATIONS

GLASS DESIGN LOADS:

- A. ALL GLASS CAPACITIES ON THIS APPROVAL ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)
- B. ALL GLASS SHOWN ON THIS APPROVAL HAS BEEN TESTED FOR LMI AND HVHZ REQUIREMENTS.
- C. ALL SETTING BLOCKS FOR THE GLASS TO BE LOCATED AT 25% OF THE SPAN WIDTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24
- D. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24
- E. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC.

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GLASS CONFIGURATION FOR ALUMINUM CASEMENT WINDOW

NOTE:
STRUCTURAL SILICONE FOR GLASS SHALL BE DOWSIL 995 BACK SILICONE OR EQUIVALENT OR BETTER

NOTE:
GLASS COMPLIES WITH ASTM EI300-09 (3 SEC. GUSTS)

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 E1 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION

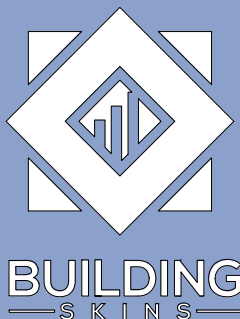
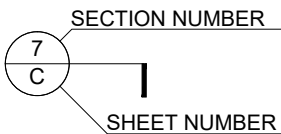
STEP 3: SEE SHEET E2 FOR ALLOWED WINDOW SIZE AND APPROVED DESIGN LOAD. FOR WINDOW MULL TOGETHER WITH 2"x4"x1/8" ALUM. MULLION, DESIGN LOAD FOR WINDOW GOVERNS

STEP 4: ANCHOR OPTION SEE SHEET D2. ANCHOR LAYOUT SEE SHEET E1

STEP 5: THE LOWEST VALUE RESULTING FROM STEP 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU 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



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DRAWINGS NUMBER:

25-0158P.1

REVISIONS:

No.	DATE	DESCRIPTION

DATE:

AUGUST 25TH, 2025

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LR & AO

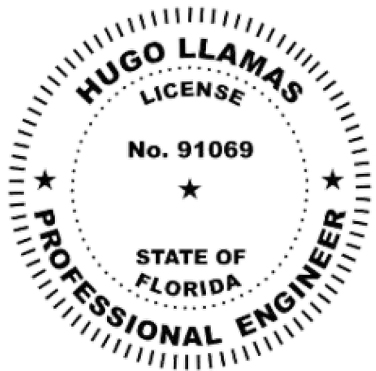
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SHEET NAME:

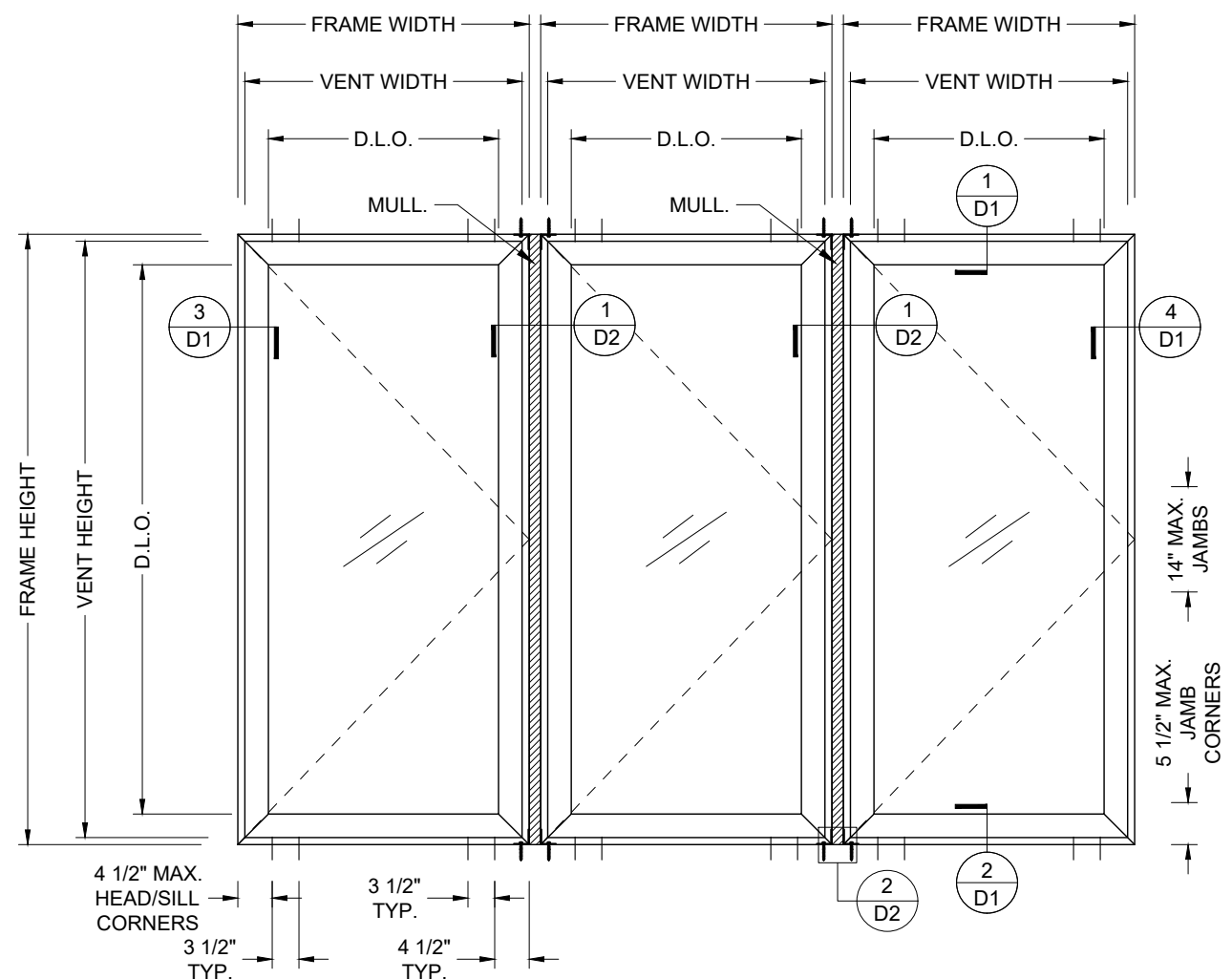
01 OF 09

G1

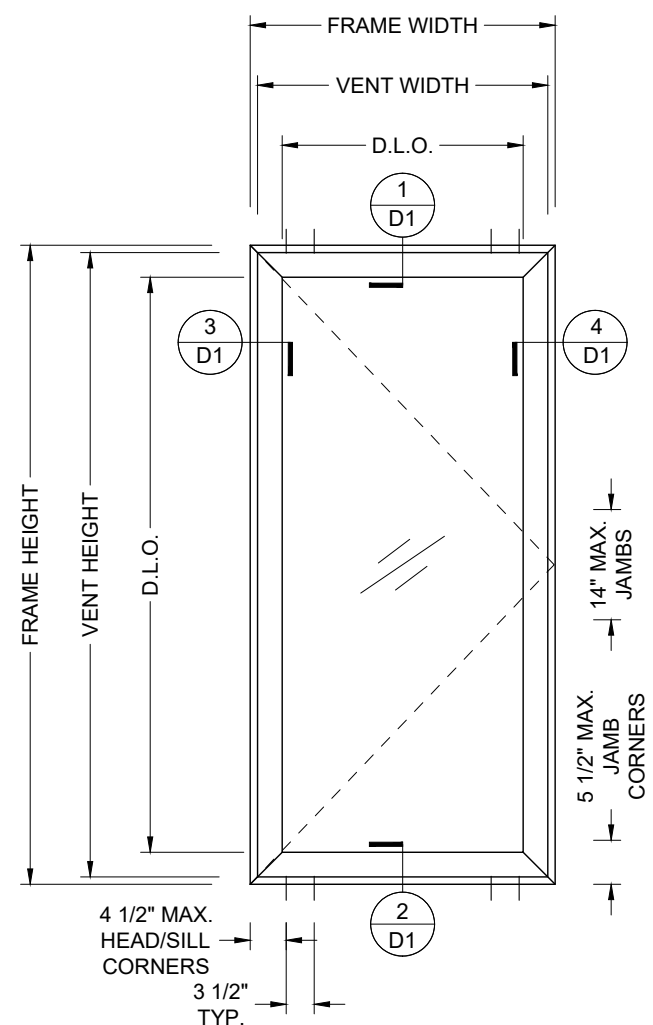


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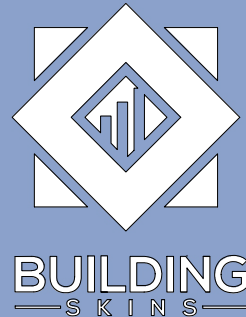
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TYPICAL EXTERIOR ELEVATIONS
SEE DIMENSIONS ON CHART #1



TYPICAL EXTERIOR ELEVATIONS
SEE DIMENSIONS ON CHART #1



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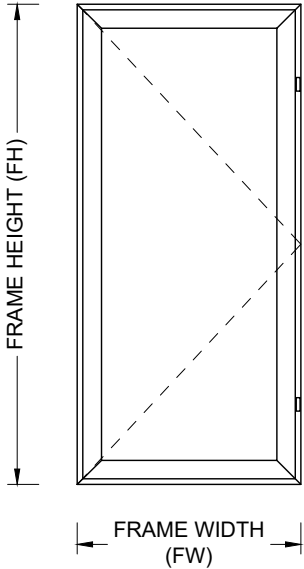
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AUGUST 25TH, 2025

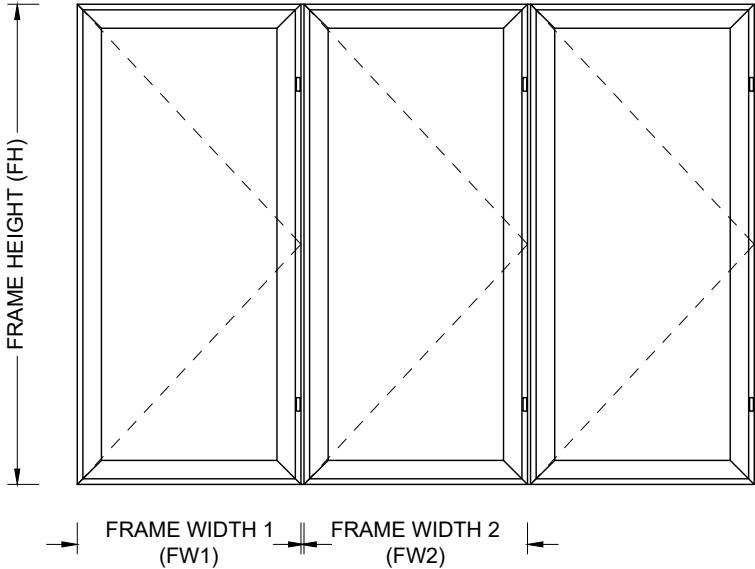
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SHEET No: 02 OF 09	SHEET NAME: E1
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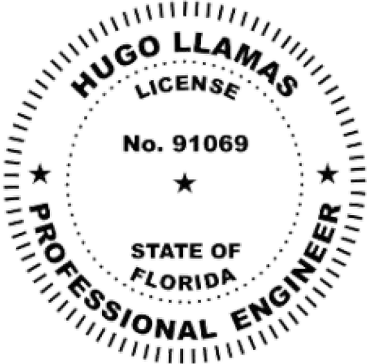
CHART #1					
WINDOW ALLOW DESIGN LOAD (PSF)					
NOM. DIMENSION		GLASS OPTION			
BUCK HEIGHT	BUCK WIDTH	"G1"	"G2"	"G3"	"G4"
H (in)	W (in)	(+/-) psf	(+/-) psf	(+/-) psf	(+/-) psf
48	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	36	80.0	70.0	80.0	80.0
	42	80.0	70.0	80.0	80.0
	48	80.0	70.0	80.0	80.0
54	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	36	80.0	70.0	80.0	80.0
	42	80.0	70.0	80.0	80.0
	48	80.0	70.0	80.0	80.0
60	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	36	80.0	70.0	80.0	80.0
	42	80.0	70.0	80.0	80.0
	48	80.0	70.0	80.0	80.0
	60	52.7	52.7	67.7	67.7
66	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	36	80.0	70.0	80.0	80.0
	42	80.0	70.0	80.0	80.0
72	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	36	80.0	70.0	80.0	80.0
78	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	36	80.0	70.0	80.0	80.0
79-7/8"	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	38-1/8"	-	-	80.0	80.0
84	24	80.0	70.0	80.0	80.0
	30	80.0	70.0	80.0	80.0
	30 1/8	80.0	70.0	80.0	80.0
	38	-	-	69.0	69.0
90	24	80.0	70.0	80.0	80.0
	30	65.3	65.3	76.1	76.1
96	24	65.9	65.9	78.3	78.3
	30	53.5	53.5	62.7	62.7



SINGLE UNIT WINDOW
W = FW - 1"
H = FH - 1"



WIDTH AT FRAME MULLION
W = (FW1 OR FW2) - 1"
H = FH - 1"
MULLION MEET CHART 1 REQUIREMENT



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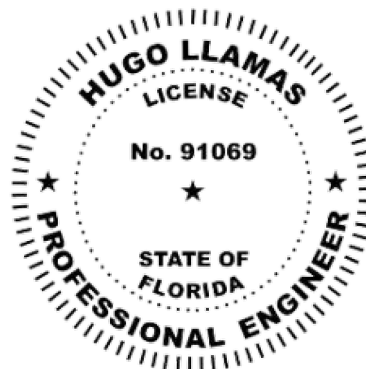
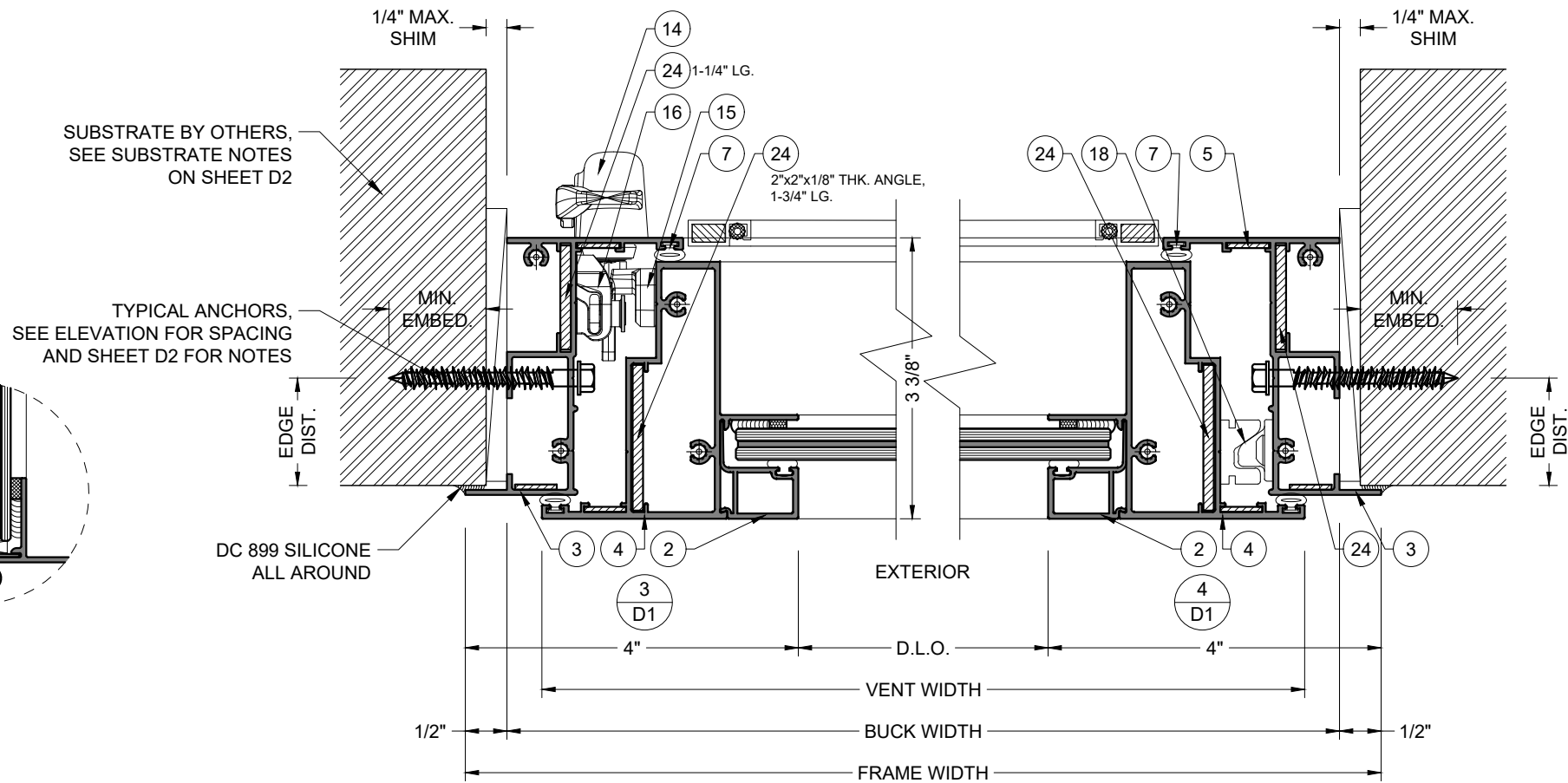
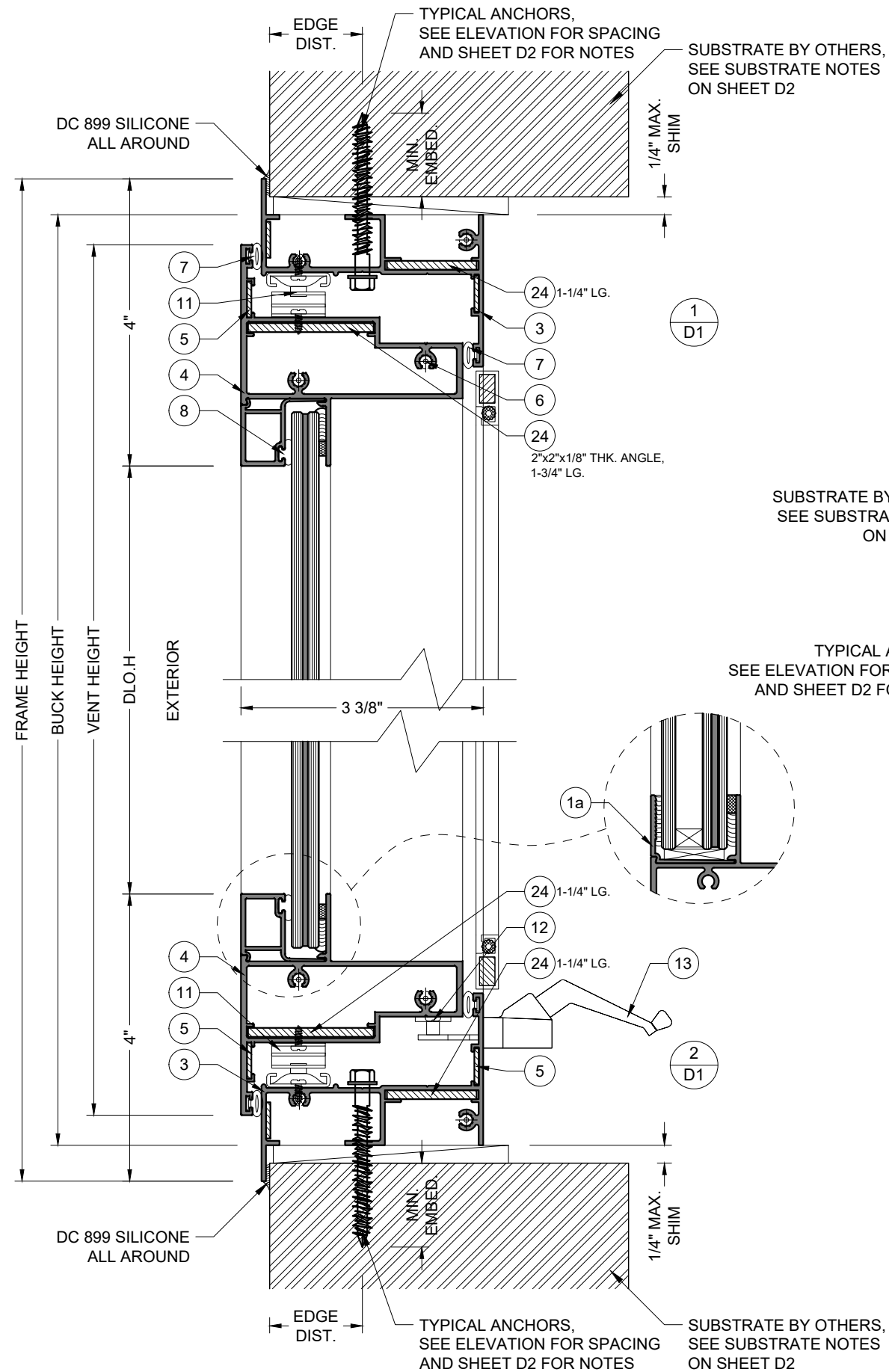
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AUGUST 25TH, 2025

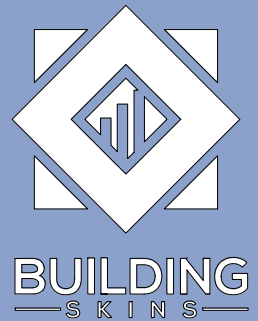
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SHEET No: 03 OF 09	SHEET NAME: E2



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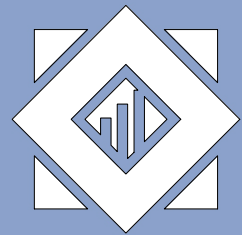
REVISIONS:

No.	DATE	DESCRIPTION

DATE: AUGUST 25TH, 2025

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SHEET No: 04 OF 09 SHEET NAME: D1



BUILDING
SKINS

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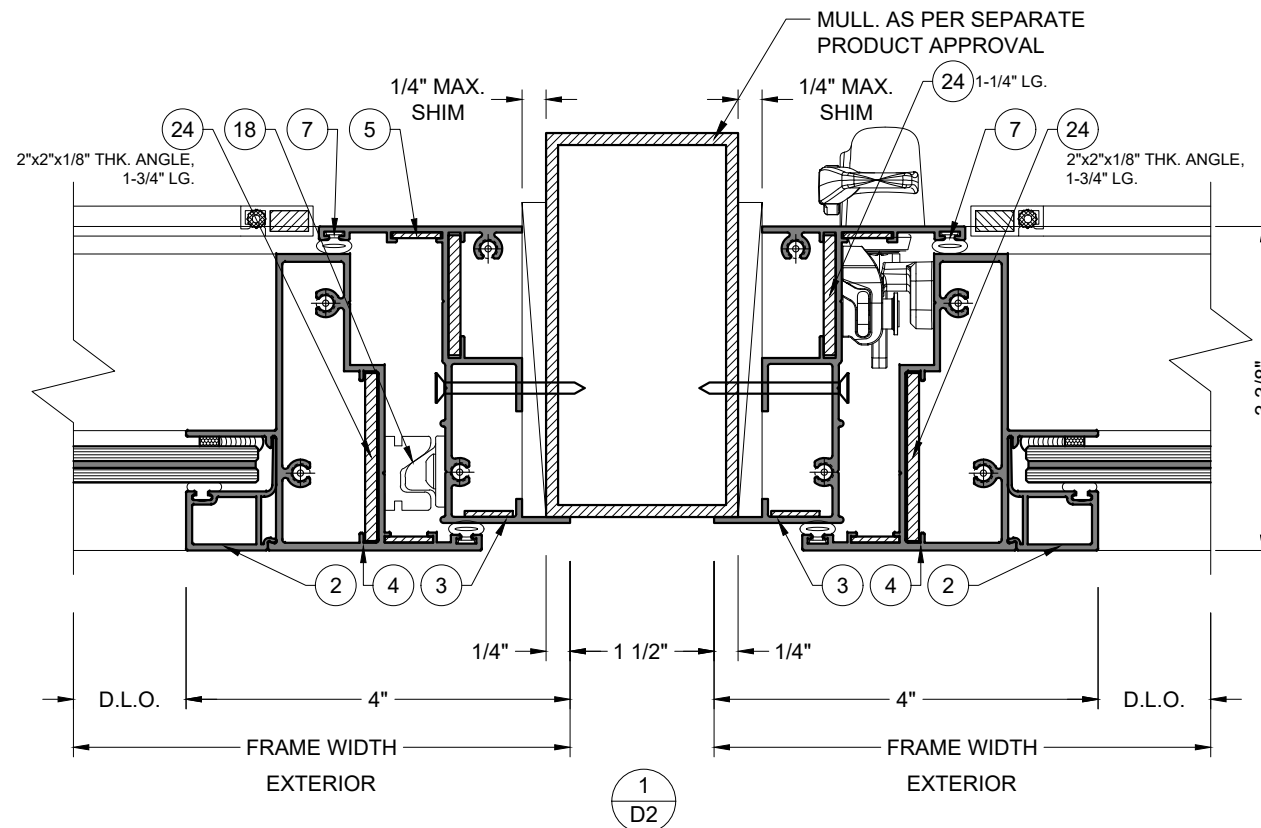
SCALE:
6"=1'-0"

SHEET No:

05 OF 09

SHEET NAME:

D2



TYPICAL ANCHORS:

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

INTO WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY BUCKS INTO CONC. OR MASONRY
1-3/4" MIN. EMBED (HEAD/SILL/JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO HOLLOW BLOCK (JAMBS ONLY)
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS ONLY)

#14 DIA. SMS (Fu=74 KSI, Fy= 57 KSI)
OR 1/4" TEKS-SELF DRILLING SCREW (Fu=120 KSI, Fy= 92 KSI)

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
STEEL: 12 GA. MIN. (Fy=36KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
INTO FLORIDA APPROVED ALUMINUM MULLIONS
ALUMINUM: 1/8" THK. MIN.

CRITICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f_c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f_m = 2000 PSI MIN.

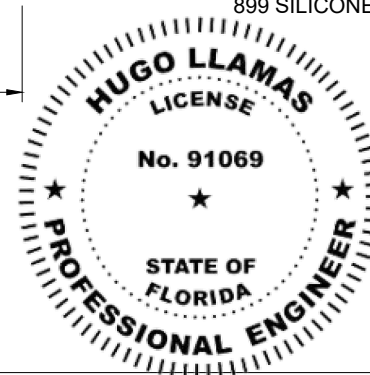
SUBSTRATE NOTES:

- SUBSTRATE IS BY ENGINEER OF RECORD (E.O.R.) OR ARCHITECT OF RECORD (A.O.R.)
- THIS GLAZING SYSTEM IS APPROVED TO BE ANCHORED TO:
 - CONCRETE
 - CONCRETE TROUGH 1BY OR 2BY WOOD BUCK
 - HOLLOW OR GROUT FILLED BLOCKS
 - METAL (STEEL / ALUMINUM)
 - WOOD STRUCTURE
 - MIAMI-DADE COUNTY APPROVED MULLION

SEALANTS:

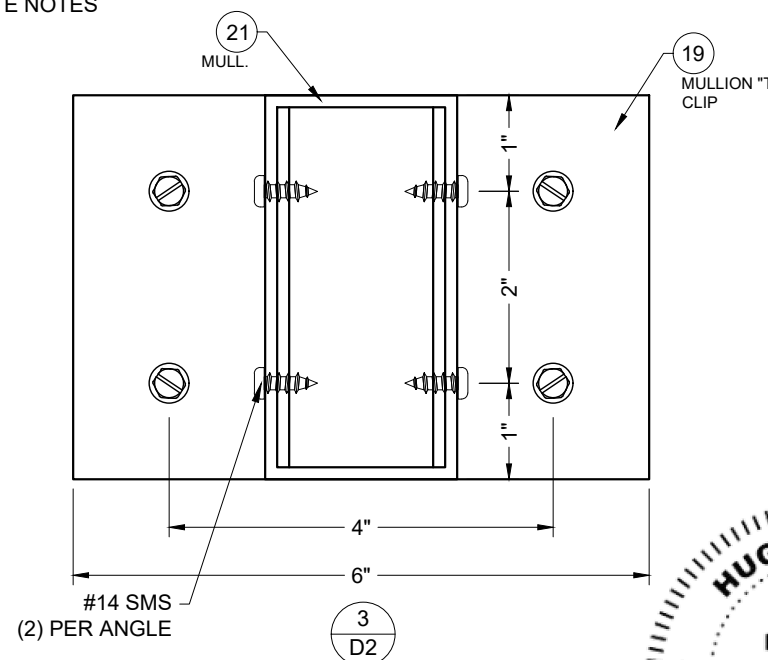
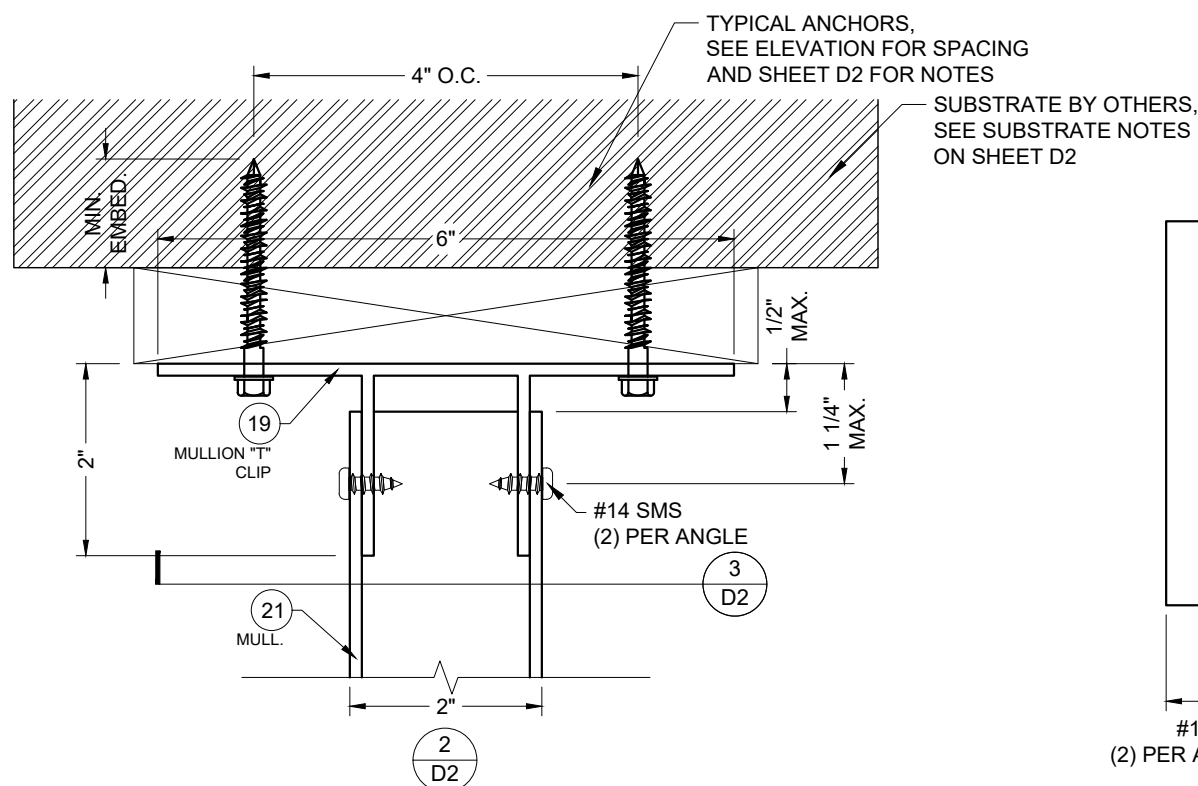
ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS TO BE SEALED WITH DOW CORNING 899 SILICONE BUILDING SEALANT

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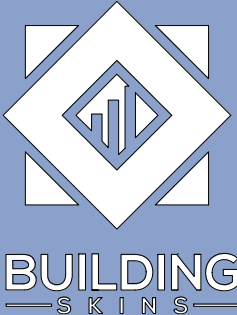
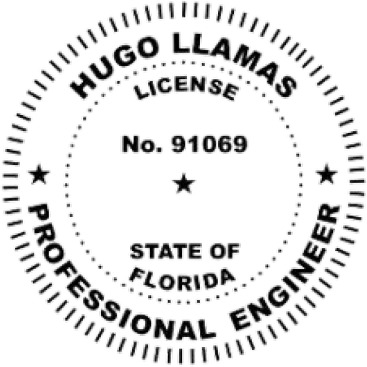
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Llamas

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Hugo Llamas
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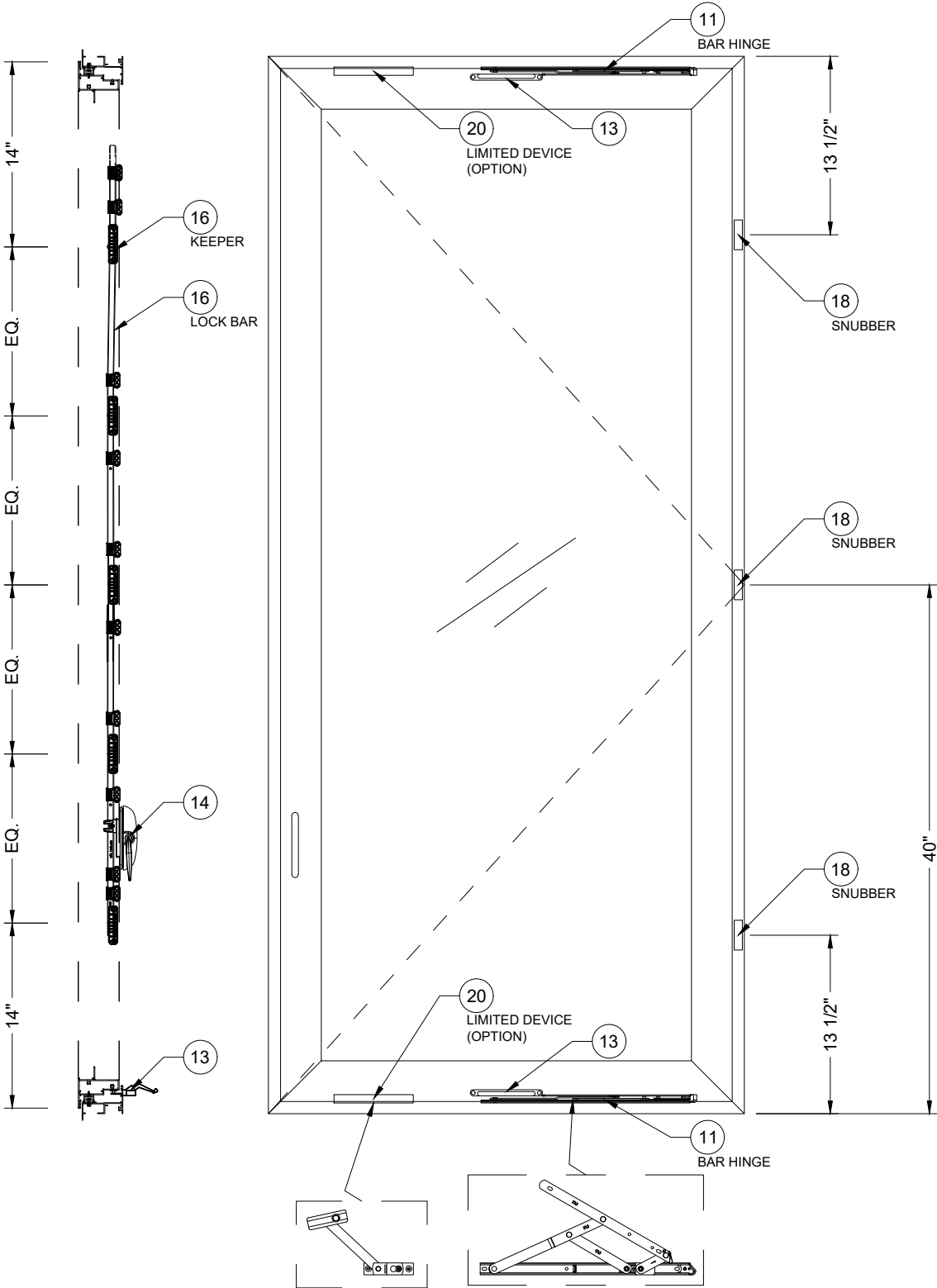
1"=1'-0"

SHEET No:

06 OF 09

SHEET NAME:

H1



KEEPERS:

(5) KEEPERS BY 'INTERLOCK-ASSA ABLOY' EACH ATTACHED W/
(2) #6x5/8" PFH SDS

SNUBBER:

(3) MATCHING PAIRS BY MONTICELLI AT FRAME AND THE
VENT @ 7-1/4", 37" & 71-1/2" FROM THE INSIDE OPENING OF THE FRAME
EACH ATTACHED W/ (2) #10x3/4" PFH SDS

LOCK:

MULTIPOINT LOCK SYSTEM BY 'INTERLOCK-ASSA ABLOY' AT FRAME JAMB
CLO2-0600 & CLO2-1020 LOCK + HANDLE WITH (2) #10x1/2" PFH
THREAD FORMING SCREW B
CLO2-2059 MULTIPOINT KEEPERS W/ (2) #6x5/8" PFH SDS
CLO2-002 MULTIPOINT LOCK BAR W/ (6) MUSHROOM HEADS @ 15", 32-5/8",
44", 48", 55" & 62 1/2" FROM BOTTOM OF THE OPENING, EACH
ATTACHED W/ (2) #10x1" PFH SMS

HINGE:

SPSH 16 - CASEMENT 4 BAR ST/ST HINGE BY 'SECURISTYLE' W/ (3) #10x1"
PFH SMS

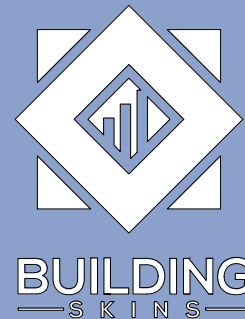
LIMITED DEVICE (OPTION):

LIMITED DEVICE-FRICTION ADJUSTERS BY 'CALDWELL'

OPERATOR:

23 SERIES SINGLE ARM OPERATOR BY 'TRUTH' W/
(8) #10x1/2" PFH THREAD FORMING SCREW TYPE B

EXTRUSIONS



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LR & AO

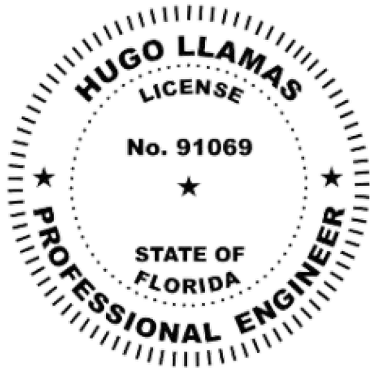
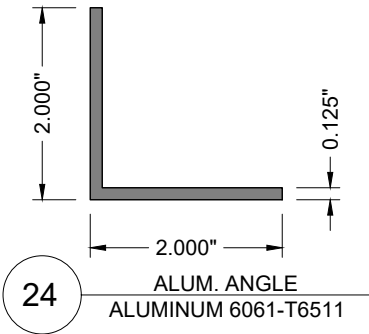
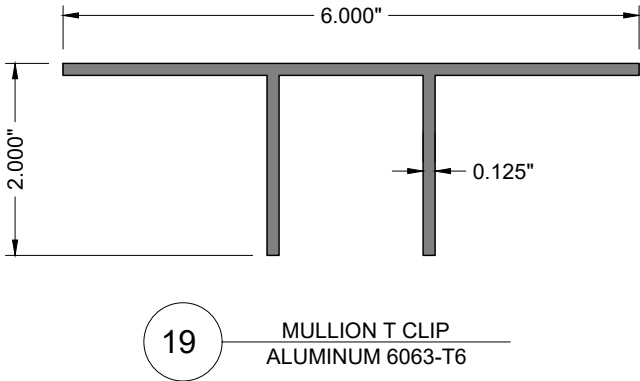
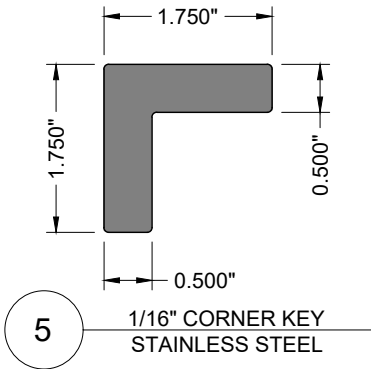
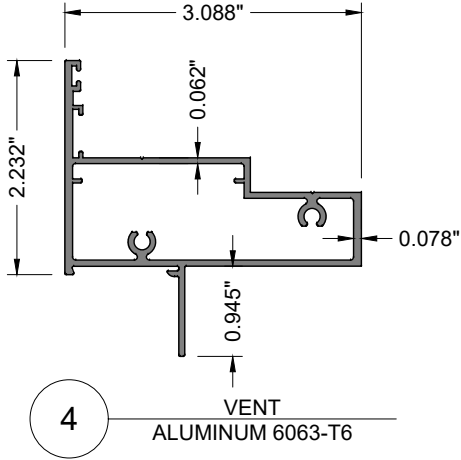
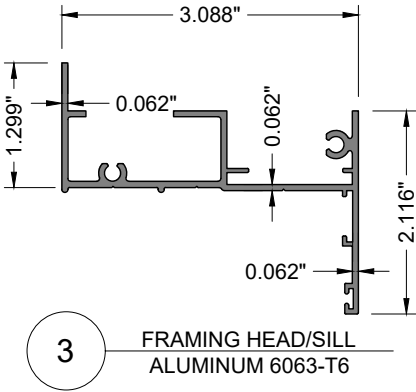
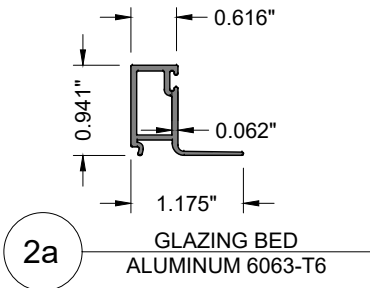
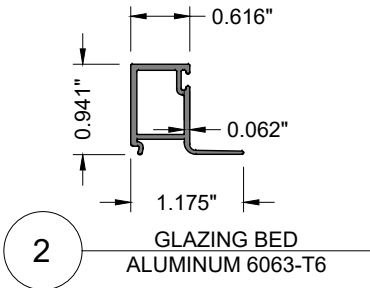
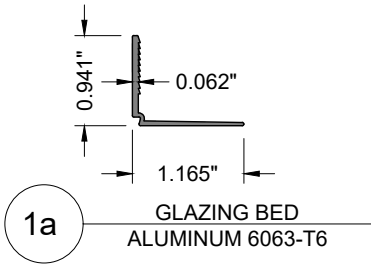
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SHEET No:

SHEET NAME:

07 OF 09

P1

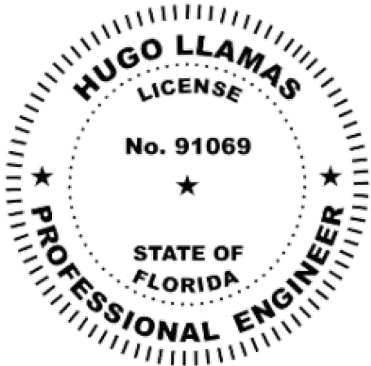


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Hugo Llamas
Digitally signed by Hugo Llamas
Date: 2026.02.18 14:06:01 -05'00'

BILL OF MATERIALS

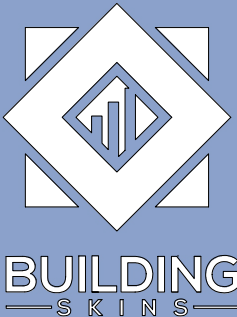
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1a	-	GLAZING BEAD FOR GLASS 'G2' & 'G4'	ALUM. 6063-T6	-
2	-	GLAZING BEAD FOR GLASS 'G1'	ALUM. 6063-T6	-
2a	-	GLAZING BEAD FOR GLASS 'G3'	ALUM. 6063-T6	-
3	-	FRAME HEAD/SILL	ALUM. 6063-T6	-
4	-	VENT	ALUM. 6063-T6	-
5	-	1/16" THK. CORNER KEY	STAINLESS STEEL	-
6	-	#10x1-1/4" SMS / FRAME AND VENT ASSEMBLY SCREWS	-	-
7	NO.3252B	BULB VINYL AIR SEAL GASKET (BLACK)	-	MELTPPOINT PLASTICS
8	E202	VOO2 1 VINYL BULB, GLAZING STOP	VINYL	FENESTRATIONGLASS PRODUCTS
9	W0019	1/8"x1/4" GLAZING TAPE, 2 SIDED	TAPE	FRANK LOWED
10	SEAL01-1	DOW 995 BACK SILICONE OR EQUIVALENT OR BETTER	SILICONE	-
11	-	4 BAR HINGE	STAINLESS STEEL	SECURISTYLE
12	-	CASEMENT OPERATOR TRACK	-	TRUTH HARDWARE
13	-	23 SERIES FACEMOUNT CASEMENT OPERATOR	-	TRUTH HARDWARE
14	CL0-0600 & CL02-1020	LOCK HANDLE ASSEMBLY	-	INTERLOCK - ASSA ABLOW
15	CL02-2059	(5) MULTIPOINT KEEPERS W/ (2) #6x5/8" FH SMS	-	INTERLOCK - ASSA ABLOW
16	CL02-002	MULTIPOINT LOCK BAR	-	INTERLOCK - ASSA ABLOW
17	-	#8x1/2" S.S. PH SMS.	STAINLESS STEEL	-
18	-	SNUBBER	MONTICELLI	-
19	-	6"x2"x4" LONG. MULLION L CLIP	ALUM. 6063-T6	-
20	-	LIMITED DEVICE-FRICTION ADJUSTERS (OPTION)	STAINLESS STEEL	CALDWELL
21	-	2"x4"x1/8" TUBE	HR STEEL	-
22	-	CRL GRAY EDGETECH SUPER SPACER - GLASS SPACER	SILICONE FOAM	C.R. LAURENCE CO., INC.
23	-	SETTING BLOCK, 70+/- 5 DUROMETER	EPDM	-
24	-	2"x2"x1/8" ALUM. ANGLE	ALUM. 6063-T6	-



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14 NE 1ST AVE. STE 815,
MIAMI, FL 33132
PH. (786) 553-2225

SERIES "CS 2100"
ALUMINUM CASEMENT
WINDOW (L.M.I.)

EMC WINDOWS AND
DOORS, LLC.
3695 NW 74TH STREET
MIAMI, FL 33147
TEL. (305) 283-6280
EMCWINDOWSDOORS@GMAIL.COM

DRAWINGS NUMBER:

25-0158P.1

REVISIONS:

No.	DATE	DESCRIPTION

DATE: AUGUST 25TH, 2025

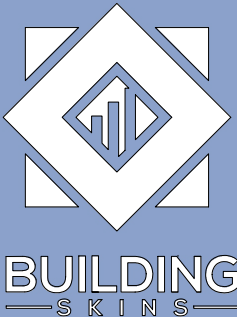
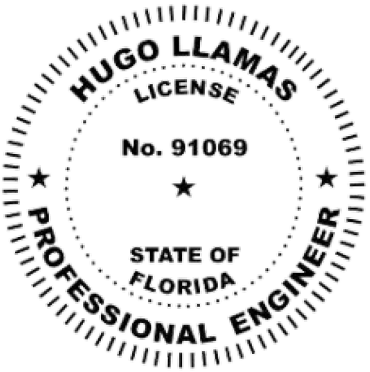
DRAWN BY: LR & AO	SCALE: NTS
SHEET No: 08 OF 09	SHEET NAME: P2

ISOMETRICS

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MIAMI, FL 33132
PH. (786) 553-2225

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DRAWINGS NUMBER:

25-0158P.1

REVISIONS:

No.	DATE	DESCRIPTION

DATE:

AUGUST 25TH, 2025

DRAWN BY:
LR & AO

SCALE:
NTS

SHEET No:

SHEET NAME:

09 OF 09

P3

