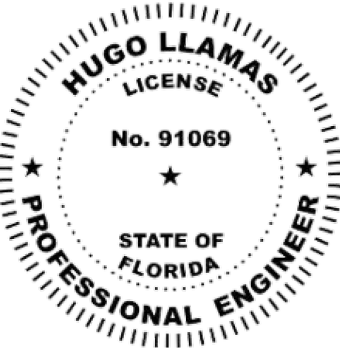


PRODUCT DEVELOPMENT

"SG 2100" - SLIDING GLASS DOOR

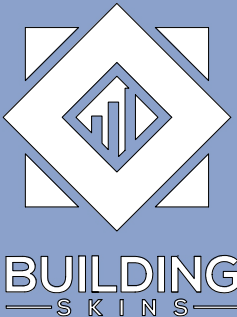
PRODUCT APPROVAL DRAWINGS



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08:55:10 -05'00'



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

SERIES "SG 2100"
ALUMINUM SLIDING
GLASS DOOR (L.M.I. & S.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.7

REVISIONS:

No.	DATE	DESCRIPTION

DATE:
AUGUST 25TH, 2025

DRAWN BY: LR & AO	SCALE:
SHEET No: 00 OF 13	SHEET NAME: COVER

SG2100 ALUMINUM SLIDING DOOR

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.) AND SMALL MISSILE IMPACT (S.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 E1 AND E2 CONTAINS THE MAXIMUM DESIGNED LOADS.
- B. ANCHORS SPACING ARE SHOWN IN SHEET E1 AND E2.
- 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

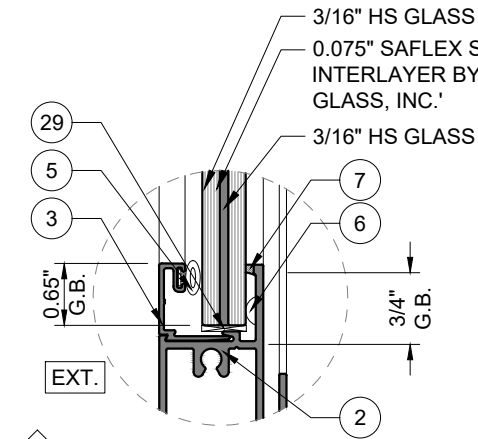
GLASS DESIGN LOADS:

- 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.

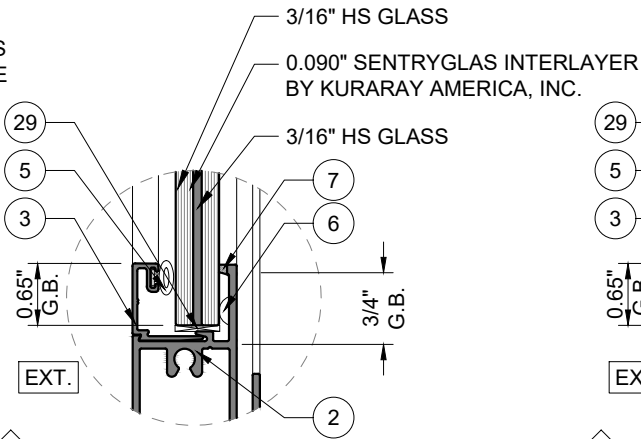
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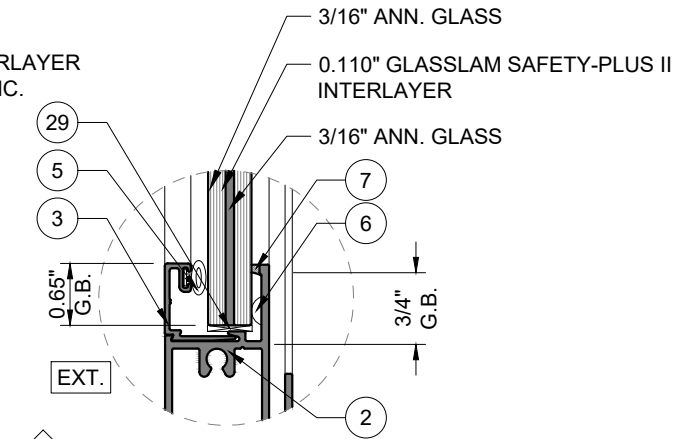
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by Hugo Llamas
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08:58:28 -05'00'



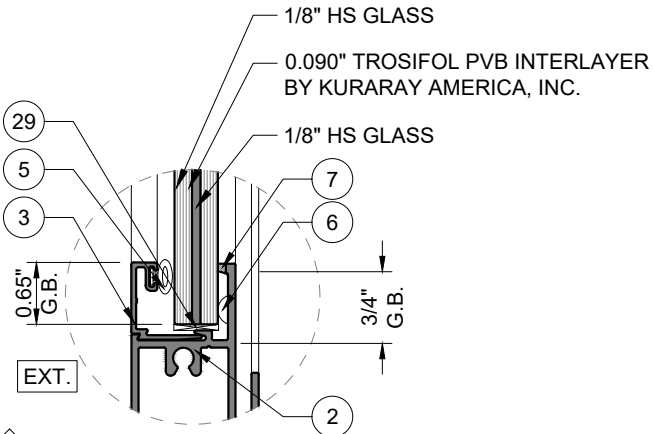
G1 GLASS TYPE 'G1'
7/16" NOMINAL OVERALL



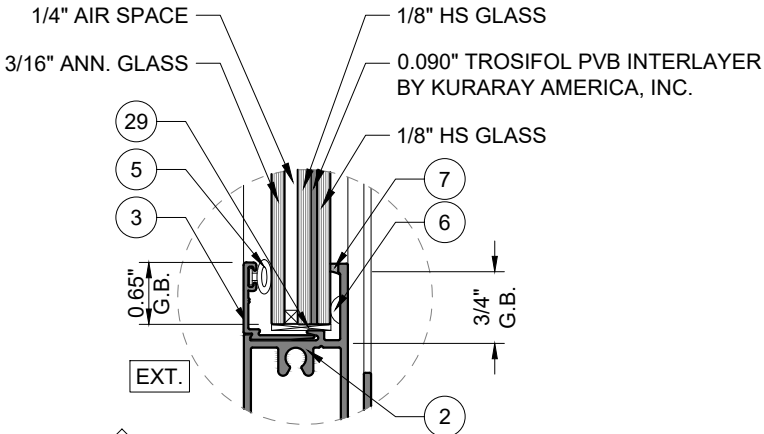
G2 GLASS TYPE 'G2'
7/16" NOMINAL OVERALL



G3 GLASS TYPE 'G3'
1/2" NOMINAL OVERALL



G4 GLASS TYPE 'G4'
5/16" NOMINAL OVERALL



G5 GLASS TYPE 'G5'
3/4" NOMINAL OVERALL

GLASS CONFIGURATION FOR
ALUMINUM SLIDING DOOR

NOTE:
STRUCTURAL SILICONE FOR GLASS
SHALL BE AS SPECIFIED OR
EQUIVALENT OR BETTER

NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(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 ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS

STEP 2: SEE SHEET E1 & E2 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION

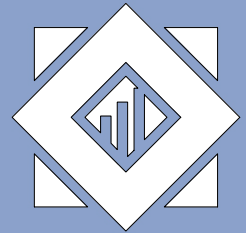
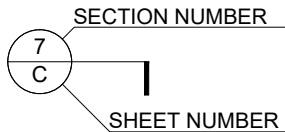
STEP 3: SEE SHEET E2 FOR ALLOWED WINDOW SIZE AND APPROVED DESIGN LOAD.

STEP 4: ANCHOR OPTION SEE SHEET D2. ANCHOR LAYOUT SEE SHEET E1 & E2.

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



BUILDING
SKINS

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DRAWINGS NUMBER:

25-0158P.7

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DATE:

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LR & AO

SCALE:

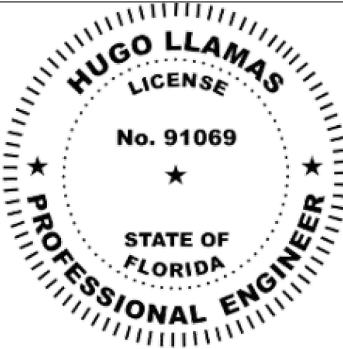
6" = 1'-0"

SHEET No:

SHEET NAME:

01 OF 13

G1

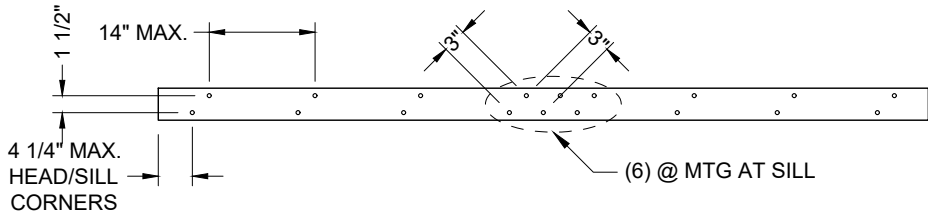
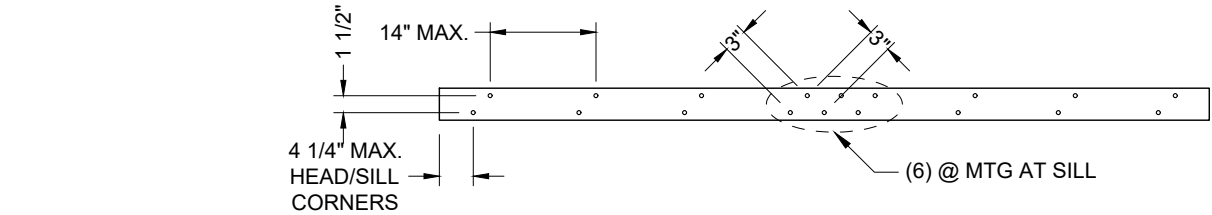
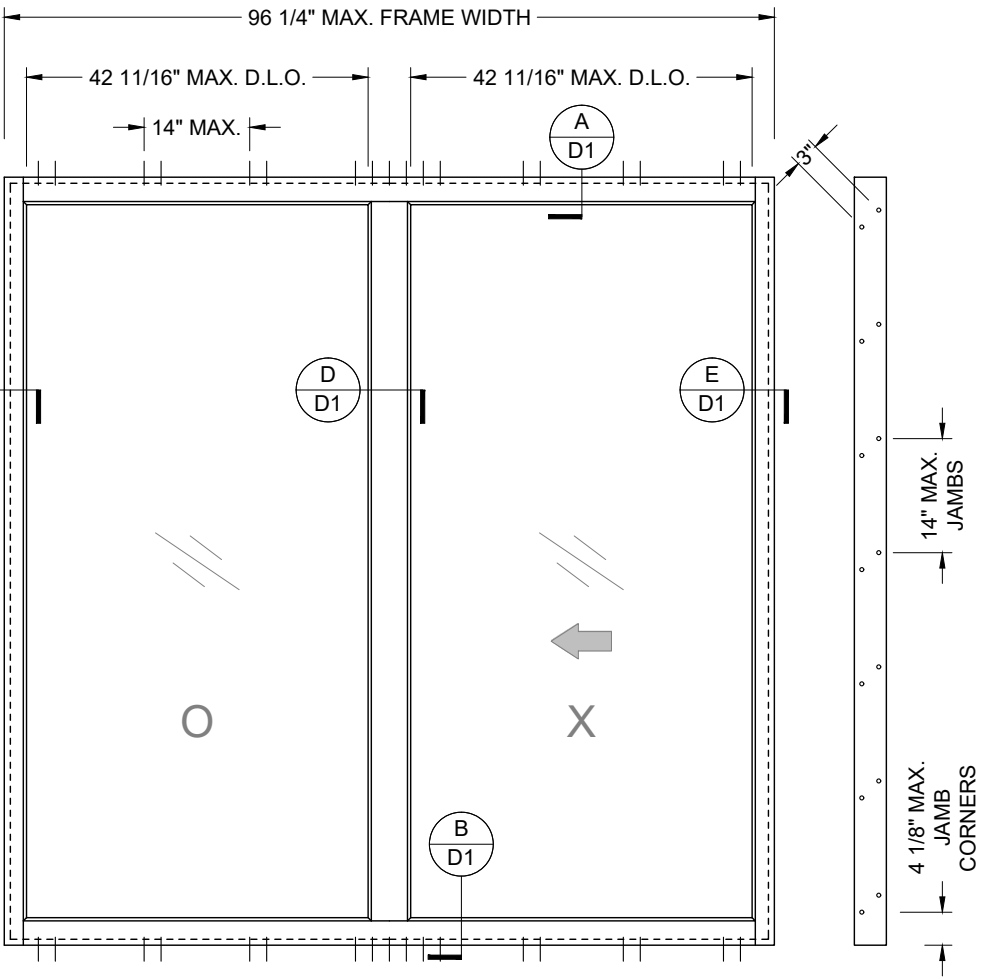
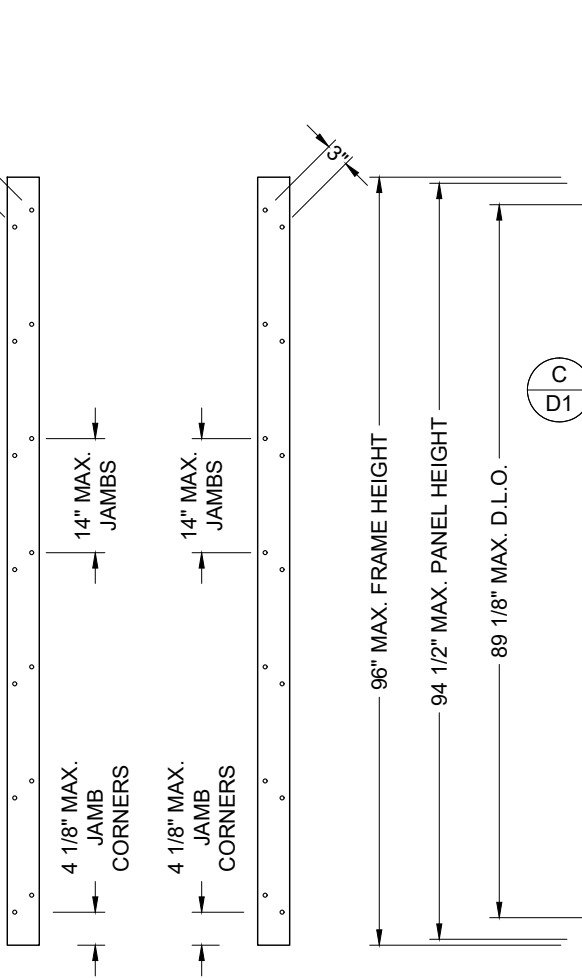
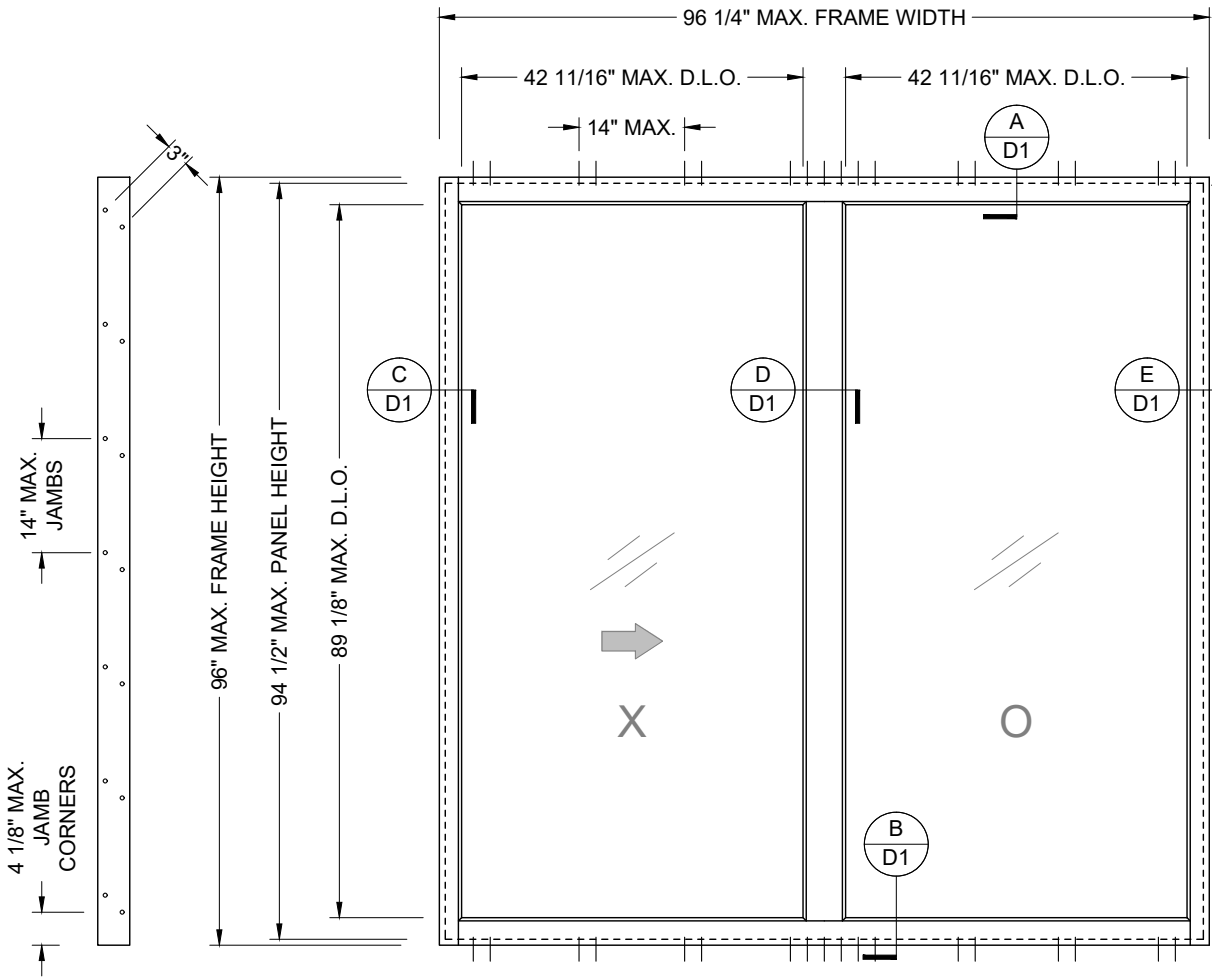
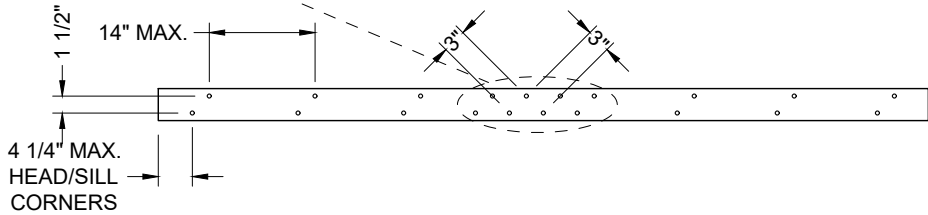
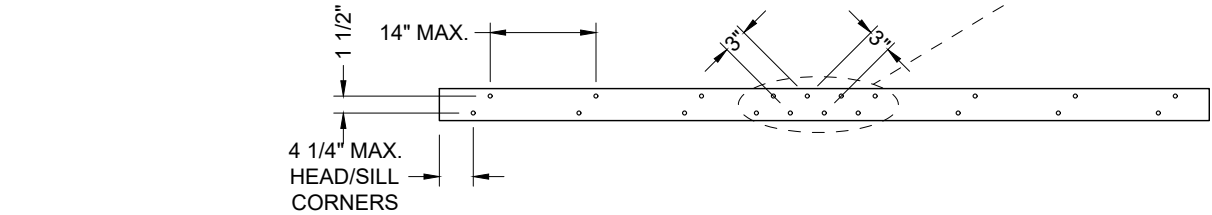


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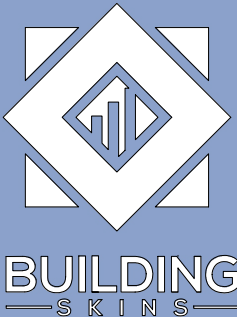
HEAD ANCHOR CHART - 2 TRACK		
ANCHOR	MAX.	NO. OF ANCHOR
TYPE	SHIM	REQ. @ INTERLOCK
A	1/2"	8
B & C	3/8"	6
B & C	1/2"	8



DESIGN LOAD
FOR SIZES SHOWN ABOVE OR SMALLER
AS PERMITTED BY FBC
GLASS G1 & G2: +80.0 PSF / -100.0 PSF
GLASS G4 & G5: +65.0 PSF / -65.0 PSF

TYPICAL ELEVATION (XO)

TYPICAL ELEVATION (OX)



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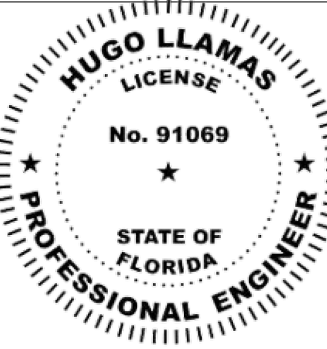
SCALE:
1/2" = 1'-0"

SHEET No:

SHEET NAME:

02 OF 13

E1

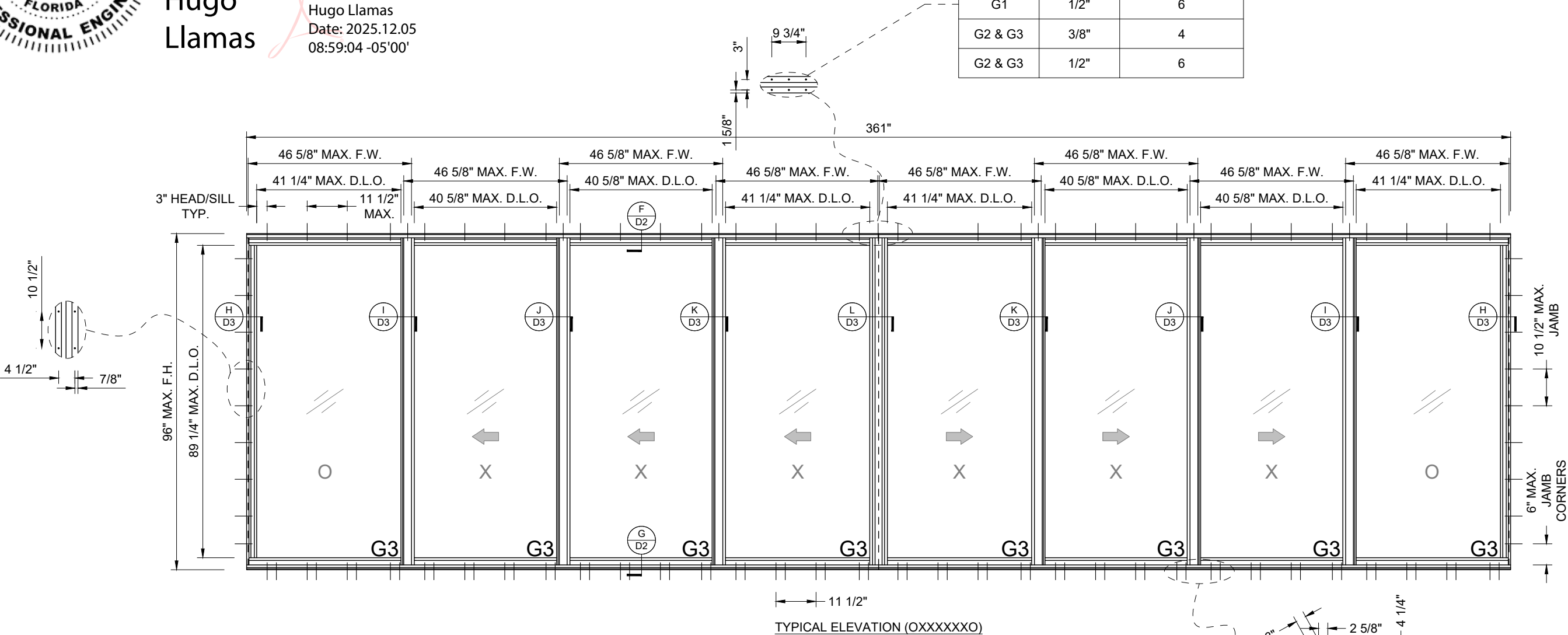


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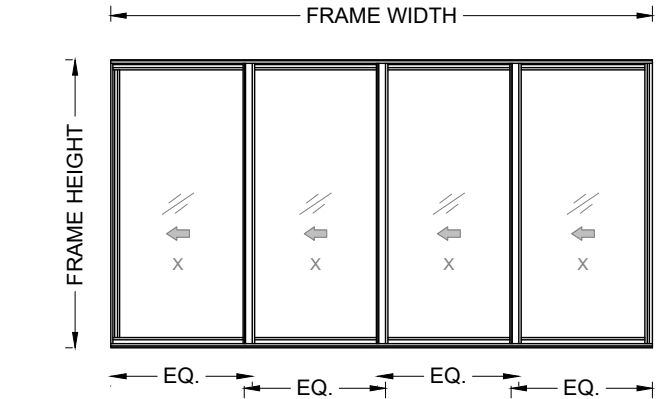
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Date: 2025.12.05 08:59:04 -05'00'

HEAD ANCHOR CHART - 4 TRACK		
ANCHOR	MAX.	NO. OF ANCHOR
TYPE	SHIM	REQ. @ INTERLOCK
G1	1/2"	6
G2 & G3	3/8"	4
G2 & G3	1/2"	6



4 TRACK SGD DESIGN LOAD CAPACITIES		
AVE. PANEL WIDTH	DOOR FRAME HEIGHT	GLASS "C"
(in)	(in)	(+/-) PSF
36	90	65
42		65
48		65
36	96	65
42		65
45-1/8"		65
30	102	65
36		65
42		58.3
30	108	65
36		56
39		52.1



NOTES:
CONFIGURATIONS FOR 4 PANELS SHOWN, QUALIFY FOR 8 PANEL CONDITIONS.

AVE. PANEL WIDTH = FRAME WIDTH / NO. OF PANEL

THIS APPROVAL ALSO QUALIFIES THE 3-TRACK SYSTEM, PROVIDED THAT THE MAXIMUM PANEL SIZE AND MAXIMUM FRAME HEIGHT ARE MET.



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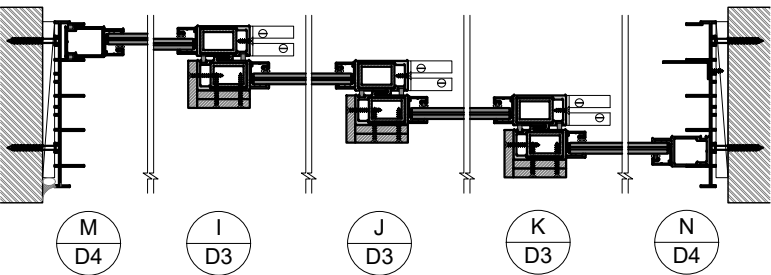
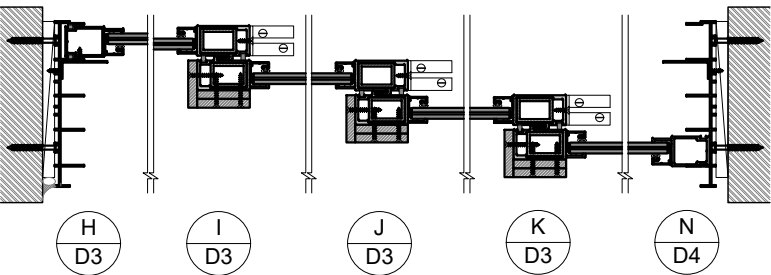
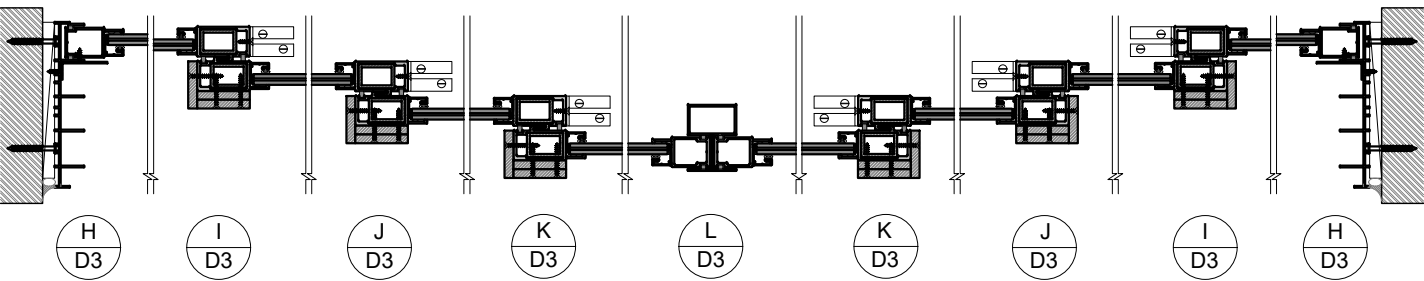
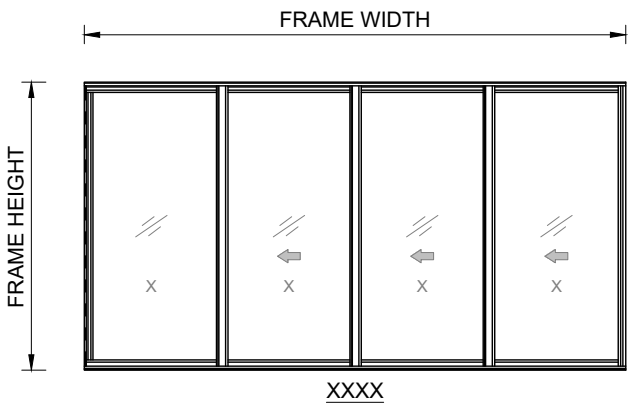
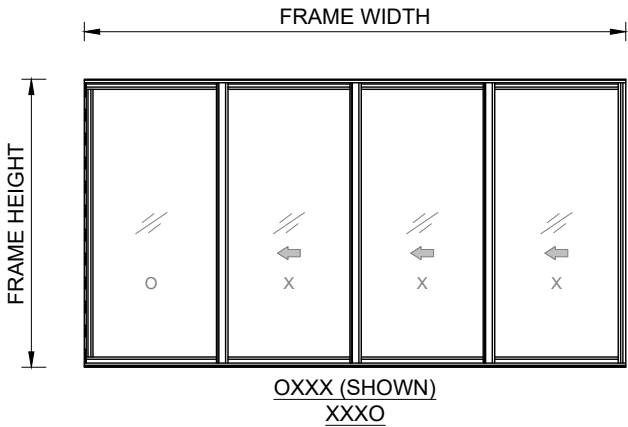
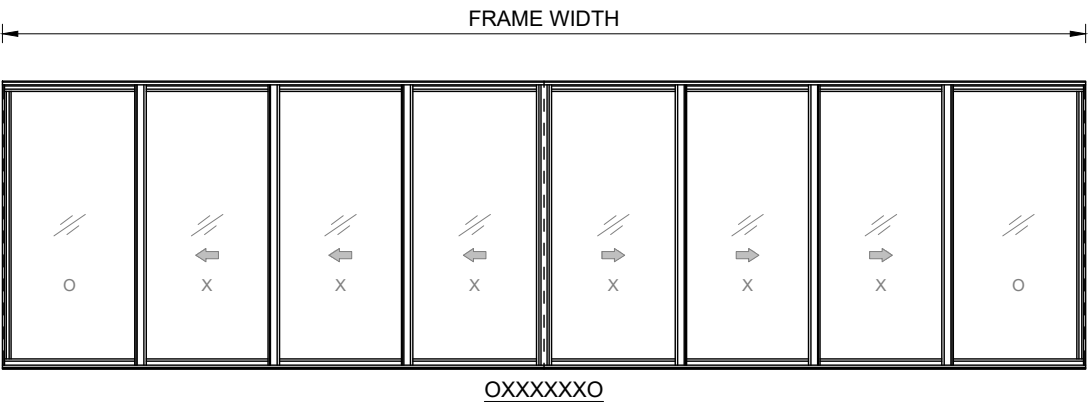
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No.	DATE	DESCRIPTION

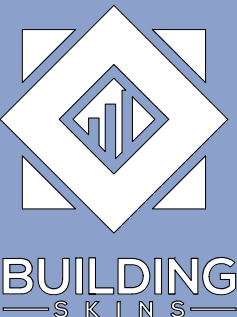
DATE: AUGUST 25TH, 2025

DRAWN BY: LR & AO	SCALE: 3/8" = 1'-0"
SHEET No: 03 OF 13	SHEET NAME: E2

APPROVED CONFIGURATIONS (4 TRACK)



- NOTES:**
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE SHEET G1 FOR APPROVED GLASS INFORMATION.
 3. SEE SHEET E2 FOR APPROVED SIZE AND DESIGN LOAD.
 4. SEE SHEET D2 FOR ANCHOR TYPES, NUMBER OF ANCHORS REQUIRED SEE SHEET E1



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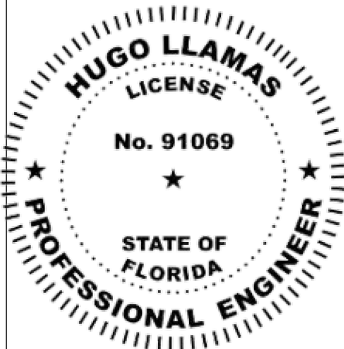
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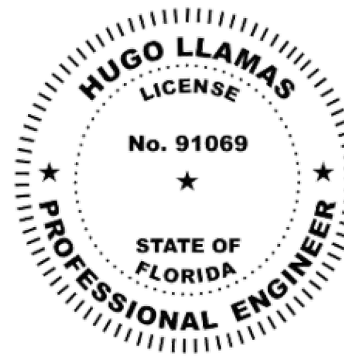
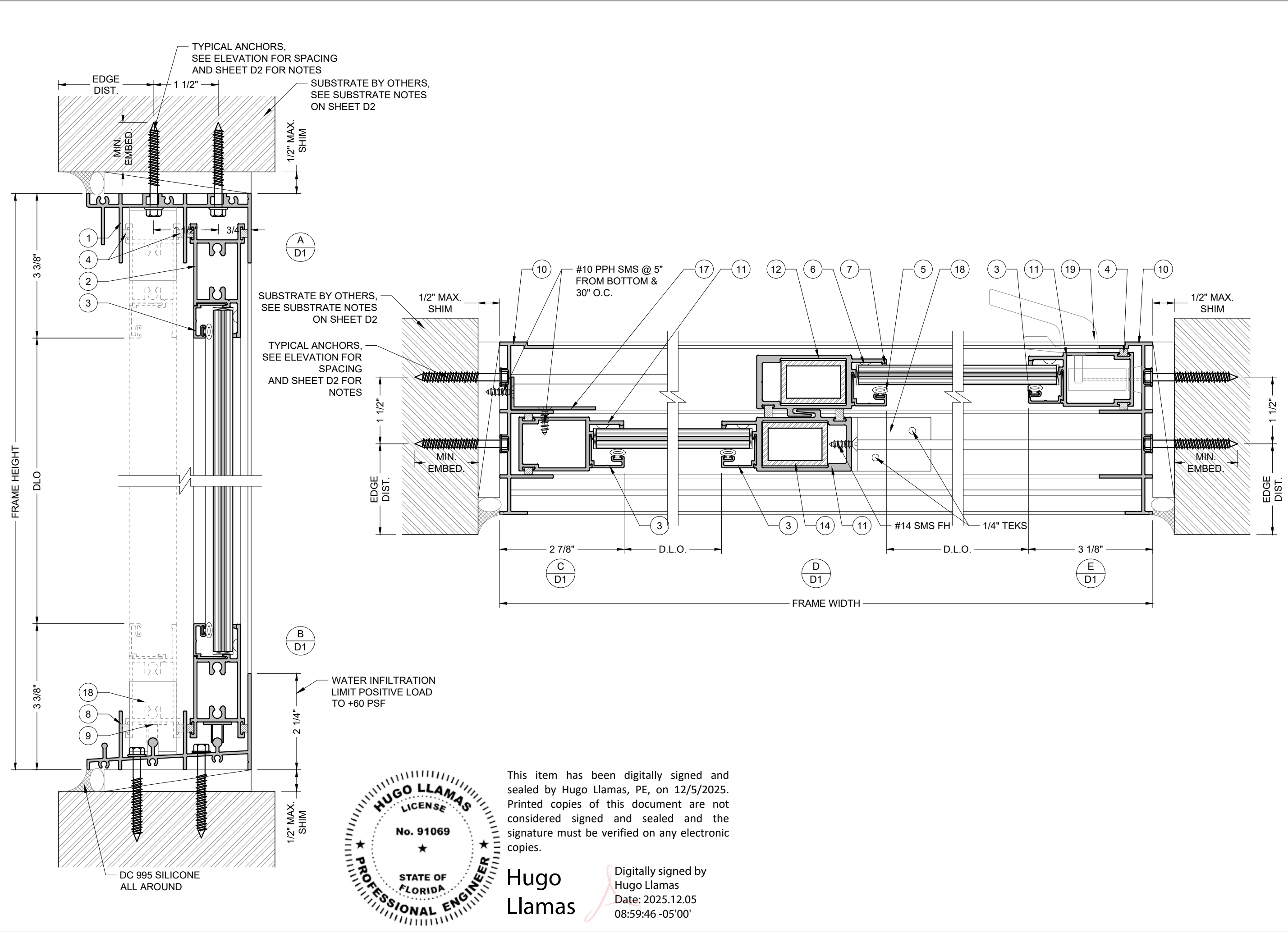
SHEET No:
04 OF 13

SHEET NAME:
E3

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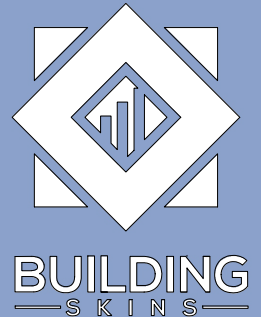




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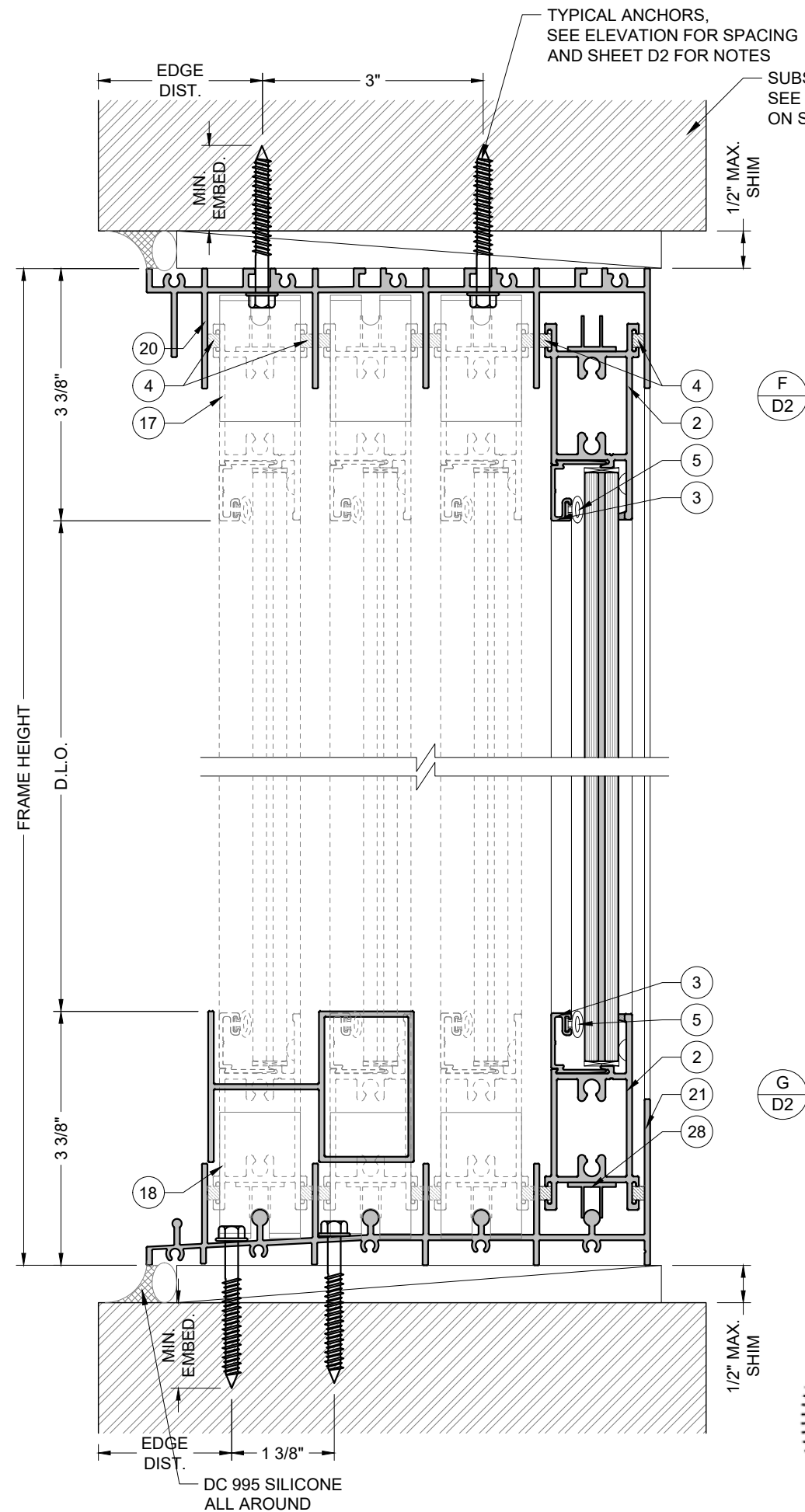
DRAWINGS NUMBER:
25-0158P.7

REVISIONS:

No.	DATE	DESCRIPTION

DATE:
AUGUST 25TH, 2025

DRAWN BY: LR & AO	SCALE: 6" = 1'-0"
SHEET No: 05 OF 13	SHEET NAME: D1



TYPICAL ANCHORS:

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

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

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

DIRECTLY INTO CONCRETE OR MASONRY
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)

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 = 3050 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f_m = 2000 PSI MIN.

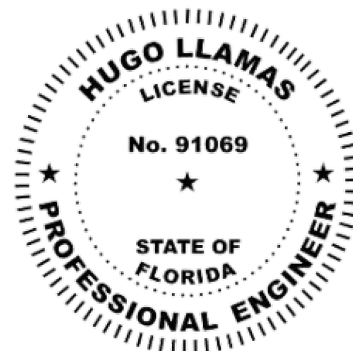
SUBSTRATE NOTES:

- A. SUBSTRATE IS BY ENGINEER OF RECORD (E.O.R.) OR ARCHITECT OF RECORD (A.O.R.)
- B. THIS GLAZING SYSTEM IS APPROVED TO BE ANCHORED TO:
- B.1. CONCRETE
 - B.2. CONCRETE TROUGH 1BY OR 2BY WOOD BUCK
 - B.3. HOLLOW OR GROUT FILLED BLOCKS
 - B.4. METAL (STEEL / ALUMINUM)
 - B.5. WOOD STRUCTURE
 - B.6. MIAMI-DADE COUNTY APPROVED MULLION

SEALANTS:

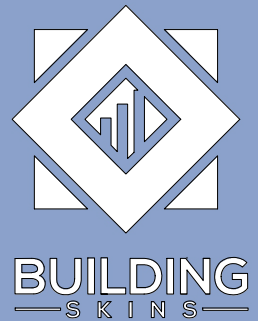
ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS TO BE SEALED WITH DOW CORNING 899 SILICONE BUILDING SEALANT

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Hugo Llamas
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09:00:31 -05'00'



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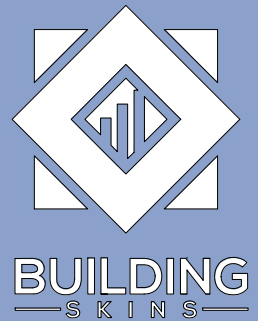
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REVISIONS:

No.	DATE	DESCRIPTION

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DRAWN BY: LR & AO	SCALE: 6" = 1'-0"
SHEET No: 06 OF 13	SHEET NAME: D2



14 NE 1ST AVE. STE 815,
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25-0158P.7

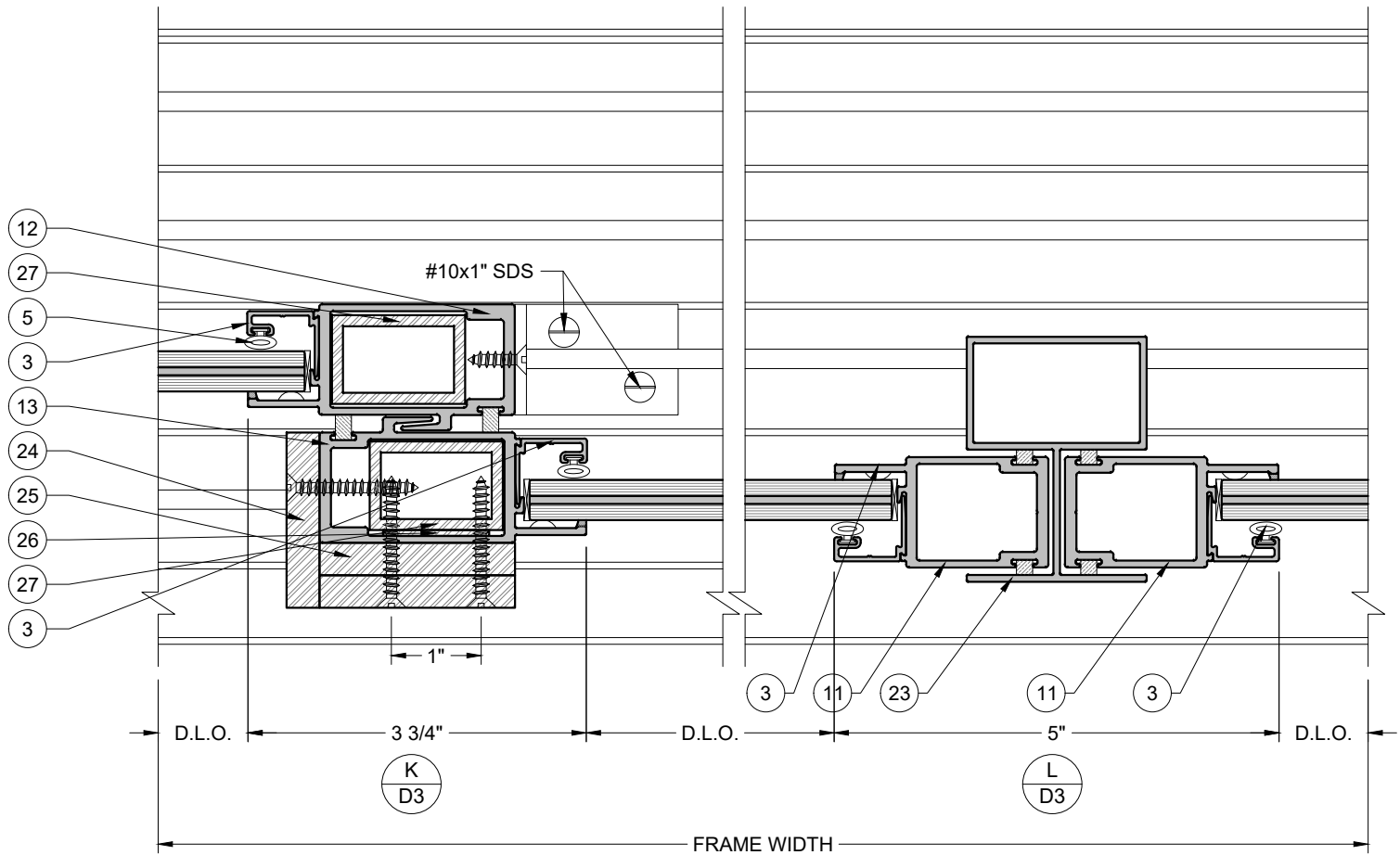
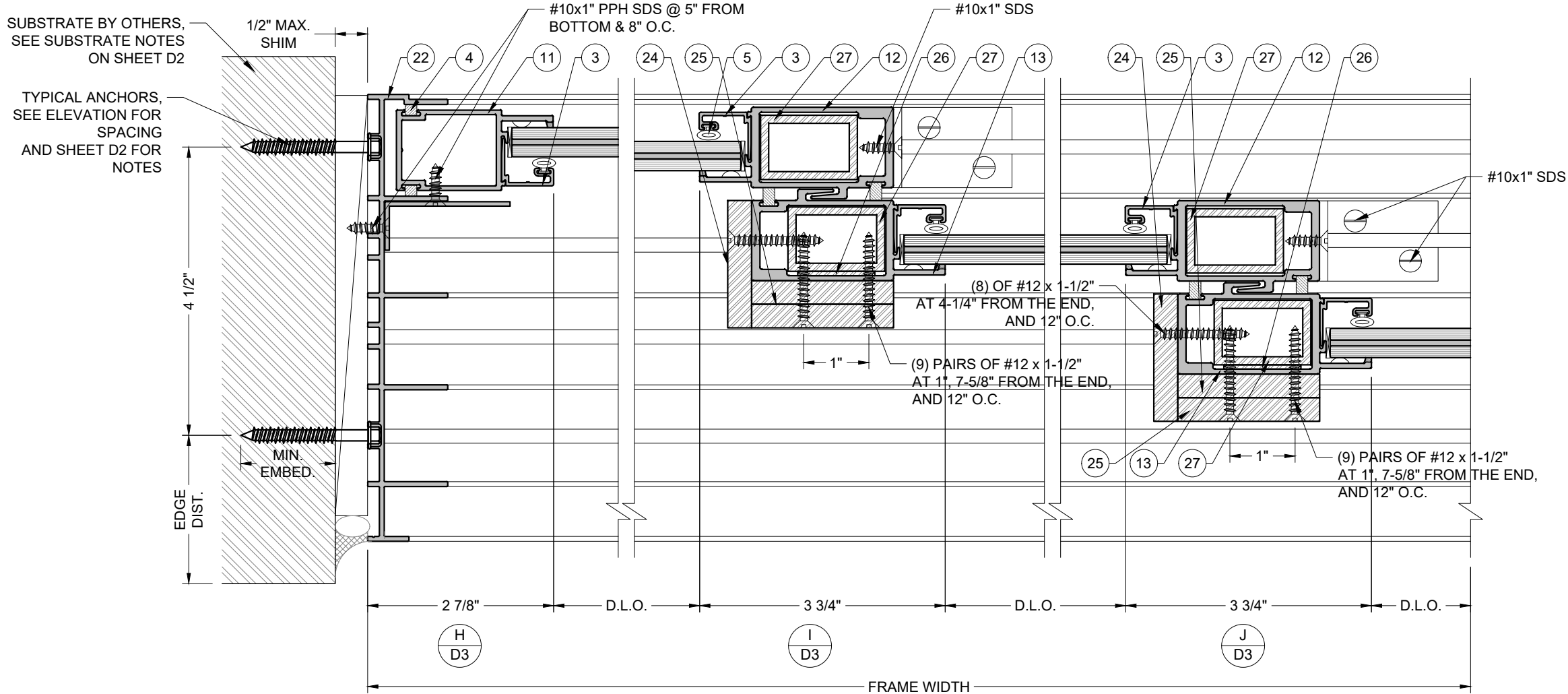
REVISIONS:

No.	DATE	DESCRIPTION

DATE: AUGUST 25TH, 2025

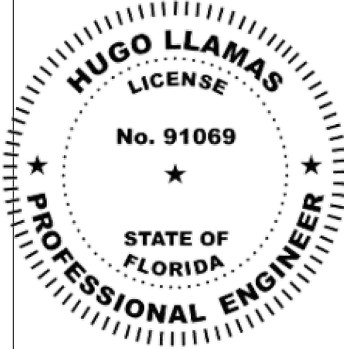
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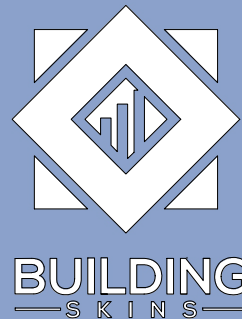
SHEET No: 07 OF 13 SHEET NAME: D3



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SERIES "SG 2100"
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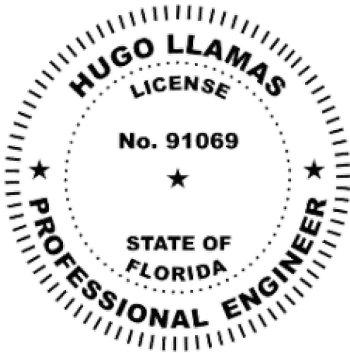
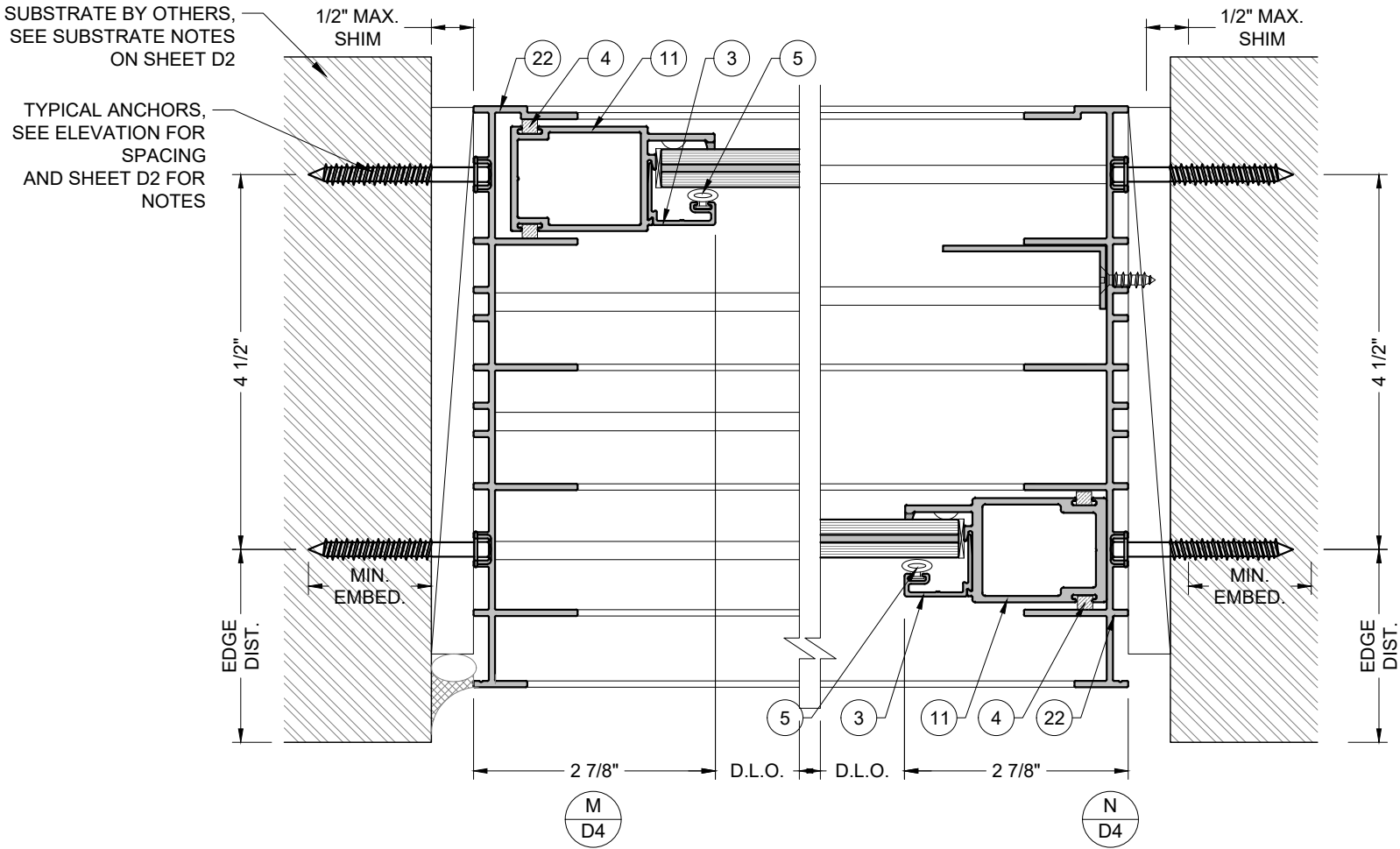
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SHEET No:

SHEET NAME:

08 OF 13

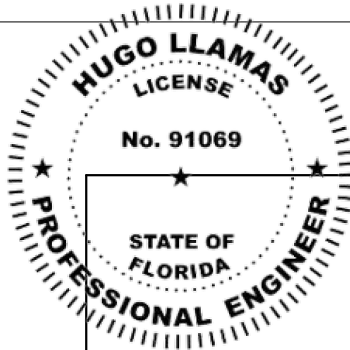
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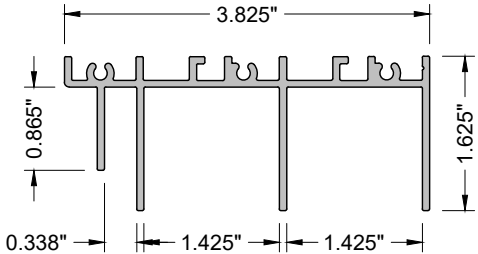


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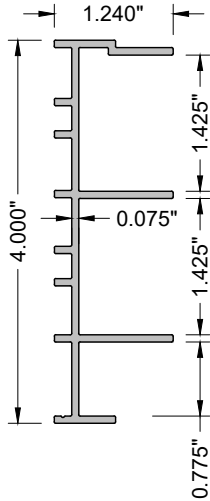
Hugo Llamas

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Date: 2025.12.05 09:02:04 -05'00'

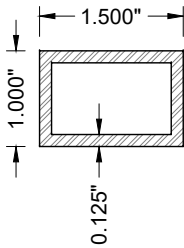
EXTRUSIONS



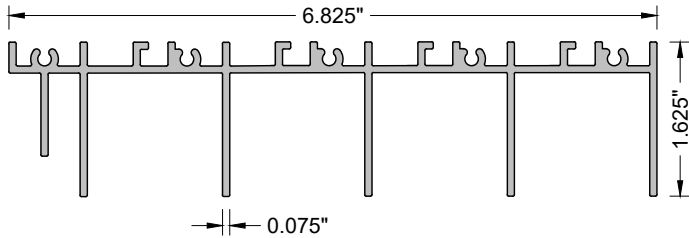
1 FRAME HEAD
6063-T5



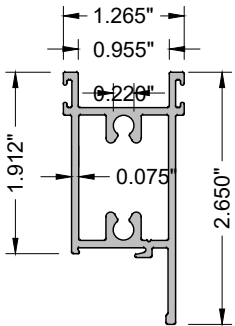
10 FRAME JAMB
6063-T5



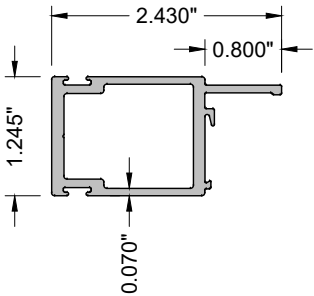
14 REINFORCEMENT TUBE
STEEL



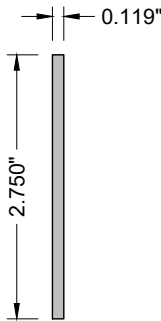
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STEEL



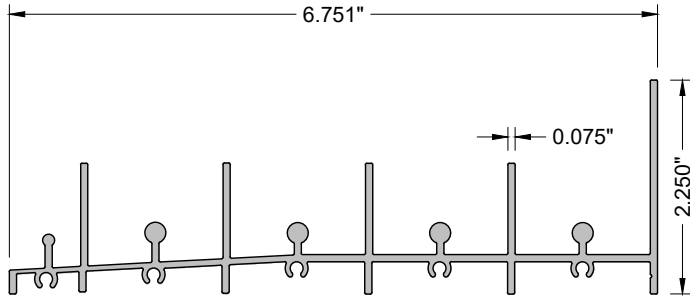
2 PANEL TOP/BOTTOM
6063-T6



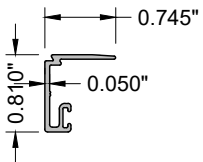
11 PANEL JAMB
6063-T6



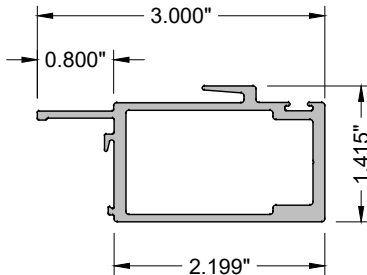
14 WATER BAR
6063-T5



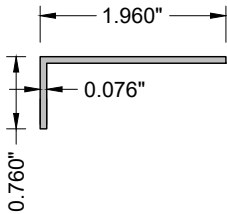
21 SILL (4 TRACK)
6063-T5



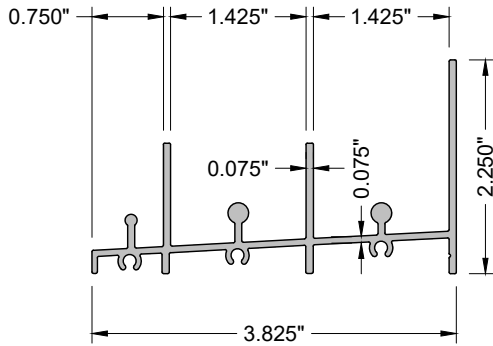
3 GLAZING STOP
6063-T5



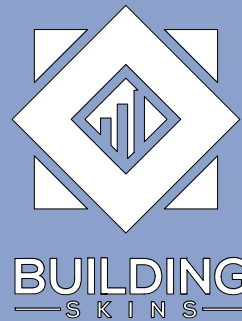
12 PANEL INTERLOCK
6063-T6



17 SHEAR ANGLE 1
6063-T5



8 SILL (4 TRACK)
6063-T5



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DRAWINGS NUMBER:

25-0158P.7

REVISIONS:

No.	DATE	DESCRIPTION

DATE:

AUGUST 25TH, 2025

DRAWN BY:

LR & AO

SCALE:

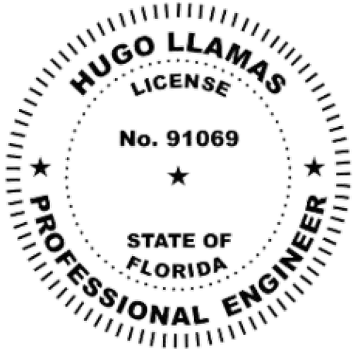
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SHEET No:

09 OF 13

SHEET NAME:

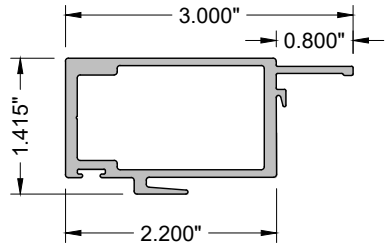
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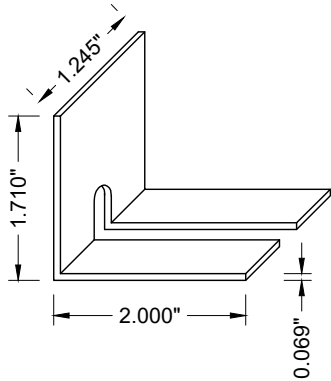
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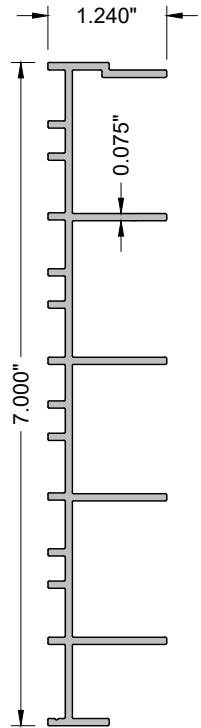
EXTRUSIONS



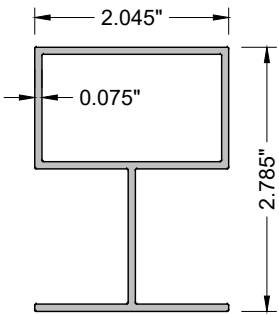
13 PANEL INTERLOCK INVERTED
6063-T6



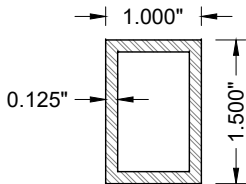
18 SHEAR ANGLE 2
6063-T5



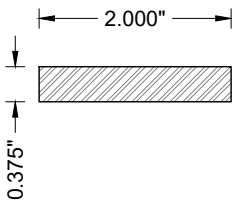
22 JAMB (4 TRACK)
6063-T5



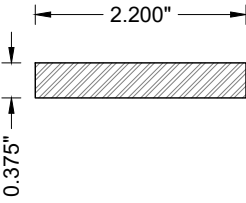
23 ASTRAGAL
6063-T6



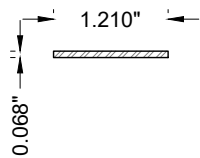
27 ALUM. REINF. TUBE
6063-T5



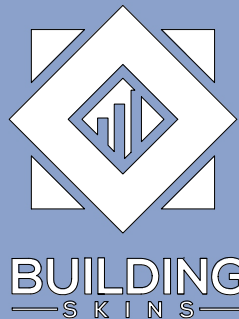
24 FLAT BAR
6061-T6511



25 FLAT BAR
6061-T6511



26 FLAT BAR
6063-T5



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DRAWINGS NUMBER:

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LR & AO

SCALE:

6" = 1'-0"

SHEET No:

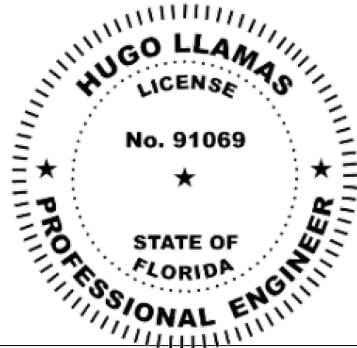
10 OF 13

SHEET NAME:

P2

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUFACTURER / REMARKS
1	SW-43124	ALUM FRAME HEAD	ALUM. 6063- T5	EMC WINDOWS AND DOORS,LLC.
2	SW-43127	ALUM.PANEL TOP & BOTTOM RAIL	ALUM. 6063- T6	EMC WINDOWS AND DOORS,LLC.
3	SW-43128	ALUM. GLAZING STOP	ALUM. 6063-T6	EMC WINDOWS AND DOORS,LLC.
4	ULTRAPILE	WOOL PILE	WOOL	ULTRAFAB
5	E201	BULB VINYL	VINYL	ULTRAFAB
6	-	SPACER BUTTON	RUBBER	ULTRAFAB
7	DOW 899	STRUCTURAL SILICONE	SILICONE	DOW CORNING 899
8	SW-43125	ALUM. FRAME SILL TRACK	ALUM- 6063-T5	EMC WINDOWS AND DOORS,LLC.
9	39.1000	ROLLER ASSEMBLY	STEEL	TRUTH
10	SW-43123	ALUM. FRAME JAMB	ALUM.6063-T5	EMC WINDOWS AND DOORS,LLC.
11	SW-43126	ALUM. PANEL JAMB	ALUM-6063-T6	EMC WINDOWS AND DOORS,LLC.
12	SW-43130	ALUM . PANEL INTERLOCK	ALUM.6063-T6	EMC WINDOWS AND DOORS,LLC.
13	SW-43129	ALUM. PANEL INTERLOCK INVERTED	ALUM.6063-T6	EMC WINDOWS AND DOORS,LLC.
14	1X1-1/2X1/8"	STEEL TUBE REINFORCEMENT	HRB66	-
15	119X2.750	WATER BAR	ALUM.6063-T5	EMC WINDOWS AND DOORS,LLC.
16	SM 5504	JOINT SEALER	SEAM SEALER	SCHNEE MORE HEAD SEAM SEALER
17	2.000 X 750	SHEAR ANGLE 1 AT FIXED OANEL JAMB 30" O.C.	ALUM.6063-T6	EMC WINDOWS AND DOORS, LLC.
18	2.000 X 1.750	SHEAR ANGLE 2	ALUM.6063-T5	TRUTH
19	2992	PANEL HOOK LOCK AND HANDLE	METAL	EMC WINDOWS AND DOORS,LLC. WITH #10X5/8" PPH SMS
20	-	HEAD (4 TRACK)	ALUM.6063-T5	EMC WINDOWS AND DOORS, LLC.
21	-	SILL (4 TRACK)	ALUM.6063-T5	EMC WINDOWS AND DOORS, LLC.
22	-	JAMB (4 TRACK)	ALUM.6063-T5	EMC WINDOWS AND DOORS, LLC.
23	-	ASTRAGAL	ALUM.6063-T6	EMC WINDOWS AND DOORS, LLC.
24	-	FLAT BAR 3/8" X 2"	ALUM.6061-T6511	-
25	-	FLAT BAR 3/8" X 2.20"	ALUM.6061-T6511	-
26	-	FLAT BAR 0.65" X 1.21"	ALUM.6063-T5	
27	-	1" X 1 1/2 "x 1/8" ALUM. REIN. TUBE	ALUM.6063-T5	-
28	-	ROLLER ASSEMBLY	STEEL	-
29	-	SETTING BLOCKS, DUROMETER 70+-5	EPDM	-



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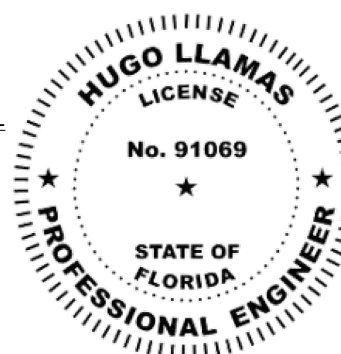
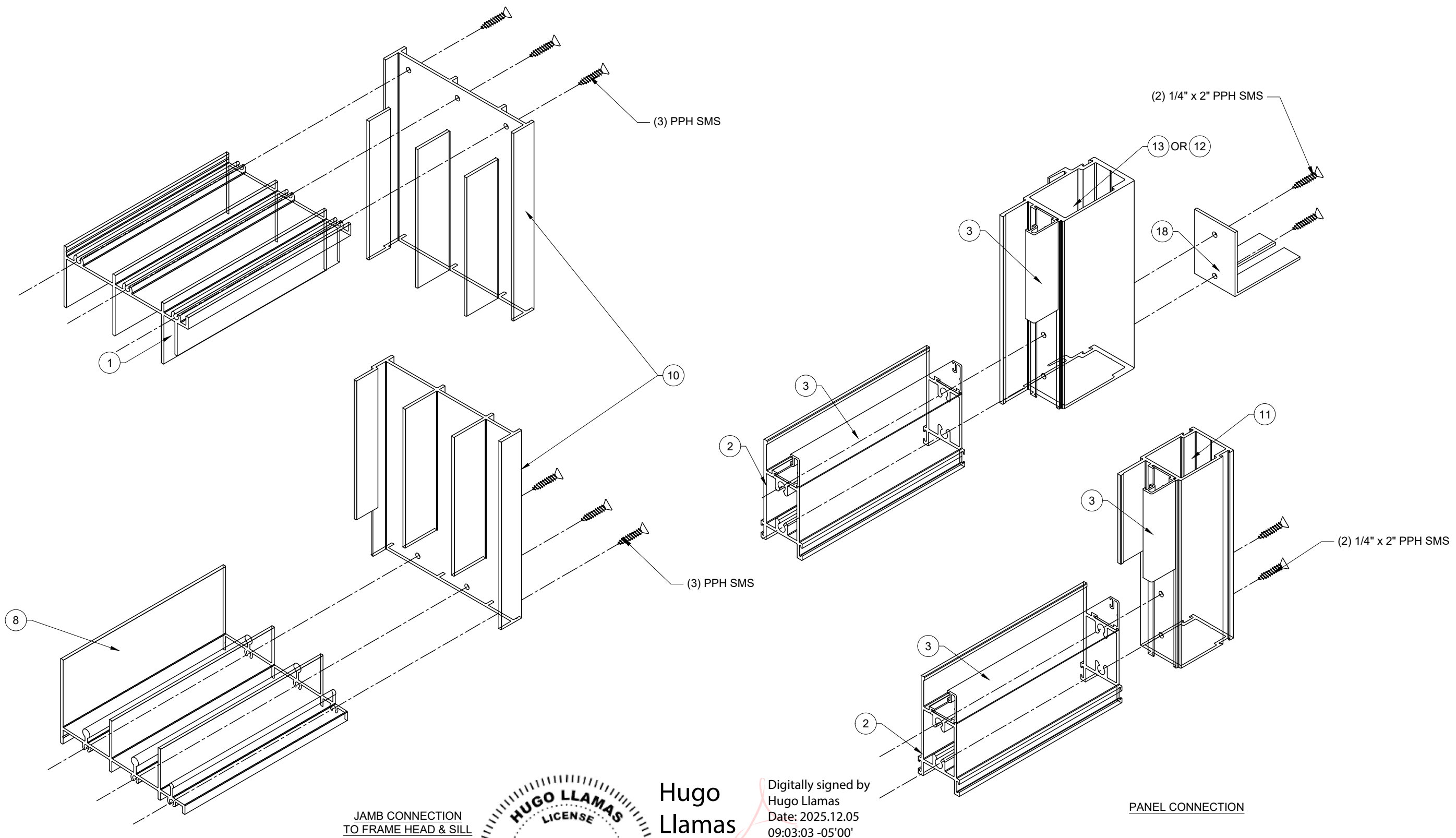
REVISIONS:

No.	DATE	DESCRIPTION

DATE: AUGUST 25TH, 2025

DRAWN BY: LR & AO	SCALE: NTS
SHEET No: 11 OF 13	SHEET NAME: P3

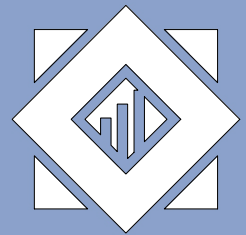
ISOMETRICS



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Llamas

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BUILDING —SKINS—

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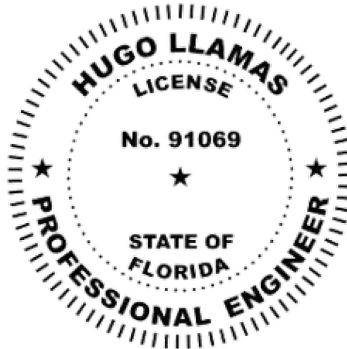
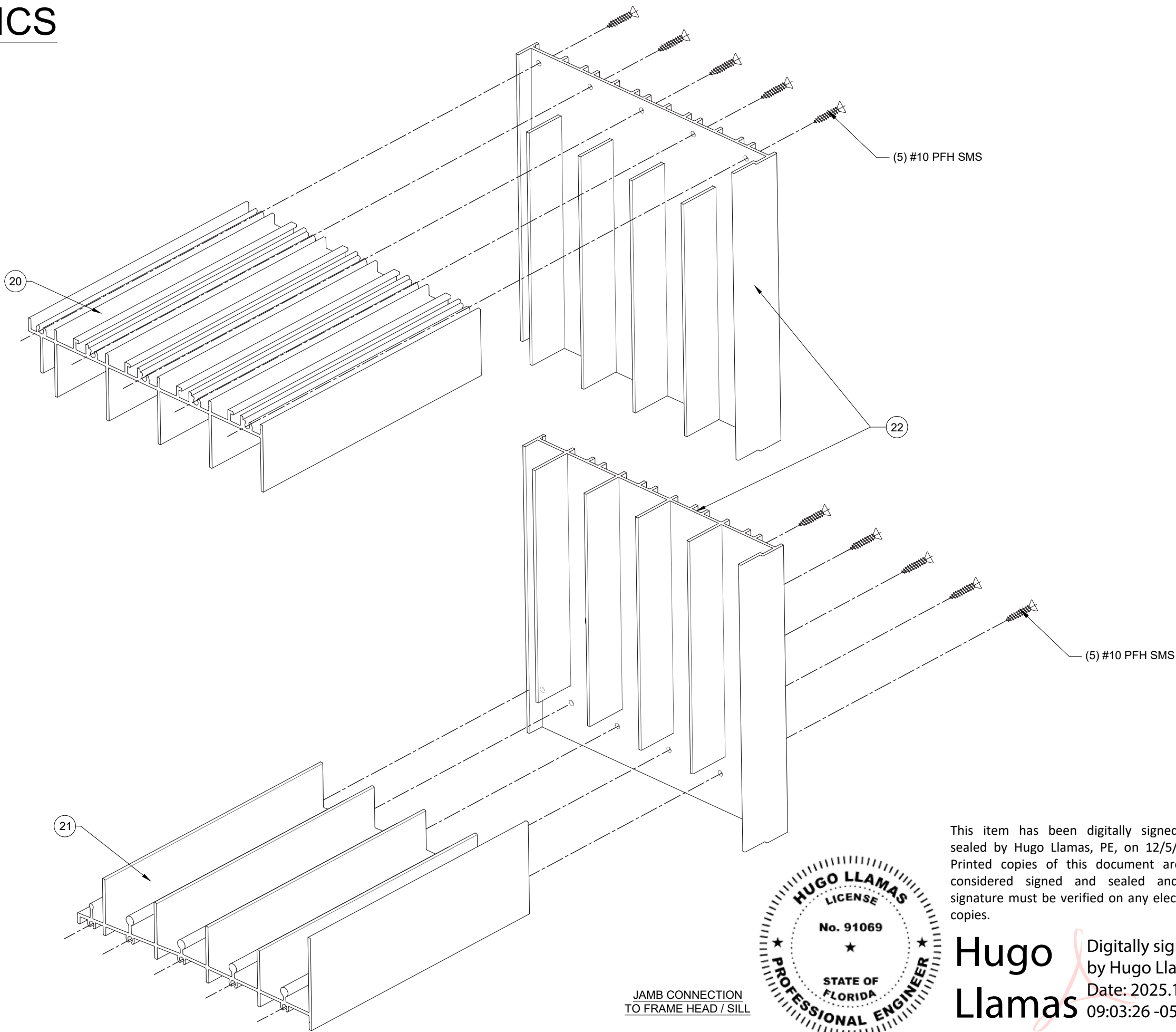
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SHEET No:	SHEET NAME:
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12 OF 13

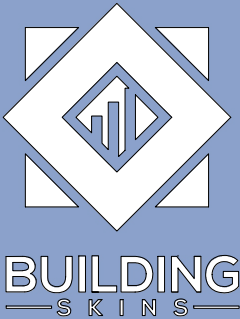
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ISOMETRICS



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SCALE:
NTS

SHEET No:

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13 OF 13

P4