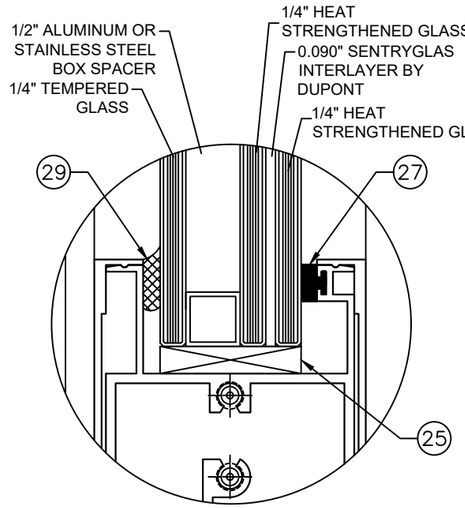
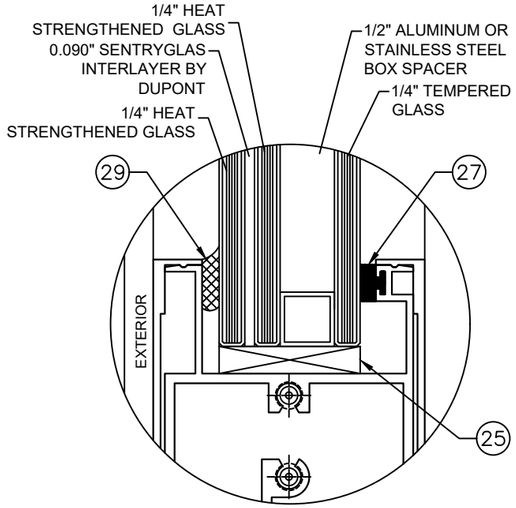
CONTINENTAL GLASS SYSTEMS

2850 SERIES LIFT AND SLIDE GLASS DOOR (LMI)



GLASS TYPE "G2"

1 5/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE



GLASS TYPE "G2A"

1 5/16" INSULATED LAMINATED GLASS
LAMINATED ON EXTERIOR SIDE

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94

- DOOR IS RATED FOR LARGE MISSILE IMPACT.
  IMPACT SHUTTERS ARE NOT REQUIRED FOR ELEVATIONS ANY HEIGHT ABOVE GRADE.

- DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION RESISTANCE.

- 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 FLORIDA BUILDING CODE.

- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS, LLC., SHALL BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE MAIN BUILDING STRUCTURE.

- ULTIMATE LOAD OBTAINED FROM ASCE 7-10, MULTIPLIED 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.

-SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

-TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 5/16" DIA. ULTRACON BY 'ELCO' OR 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE (MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI).
1-3/4" MIN. EMBED IN CONCRETE
INTO WOOD STRUCTURE (WOOD MIN. SPECIFIC GRAVITY = 0.55)
1-1/2" MIN. EMBEDMENT IN WOOD

TYPE 'B' -- 5/16" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.)
INTO METAL STRUCTURES
MIN. THREE THREADS PENETRATION BEYOND METAL WALL.
STEEL: 18 GA. MIN. (F'y=33 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.(5/16" ANCHORS)
INTO METAL STRUCTURE = 3/4" MIN.

ANCHOR REQUIREMENTS
1. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
2. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4. ANCHORS SHALL BE AS LISTED, AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS

NOTE:
GLASS COMPLIES WITH ASTM E1300-16 (3 SEC. GUSTS).

Soumel Loriga

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.

Manufacturer:

CGS
CONTINENTAL GLASS SYSTEMS LLC.
325 West 74 Place Hialeah, Fl 33014
Phone 305.231.1101
Toll Free 1.877.221.1101

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SLM ENGINEERS
REVIEWED FOR STRUCTURAL COMPLIANCE ONLY BY:

SOUMEL LORIGA LICENSE No. 77736 STATE OF FLORIDA PROFESSIONAL ENGINEER

Soumel Loriga, P.E.
PE Lic No.: 77736
Cert. of Authorization: 30891

FLORIDA NUMBER:
FL# 17175

SERIES:
2850 SERIES L.M.I.

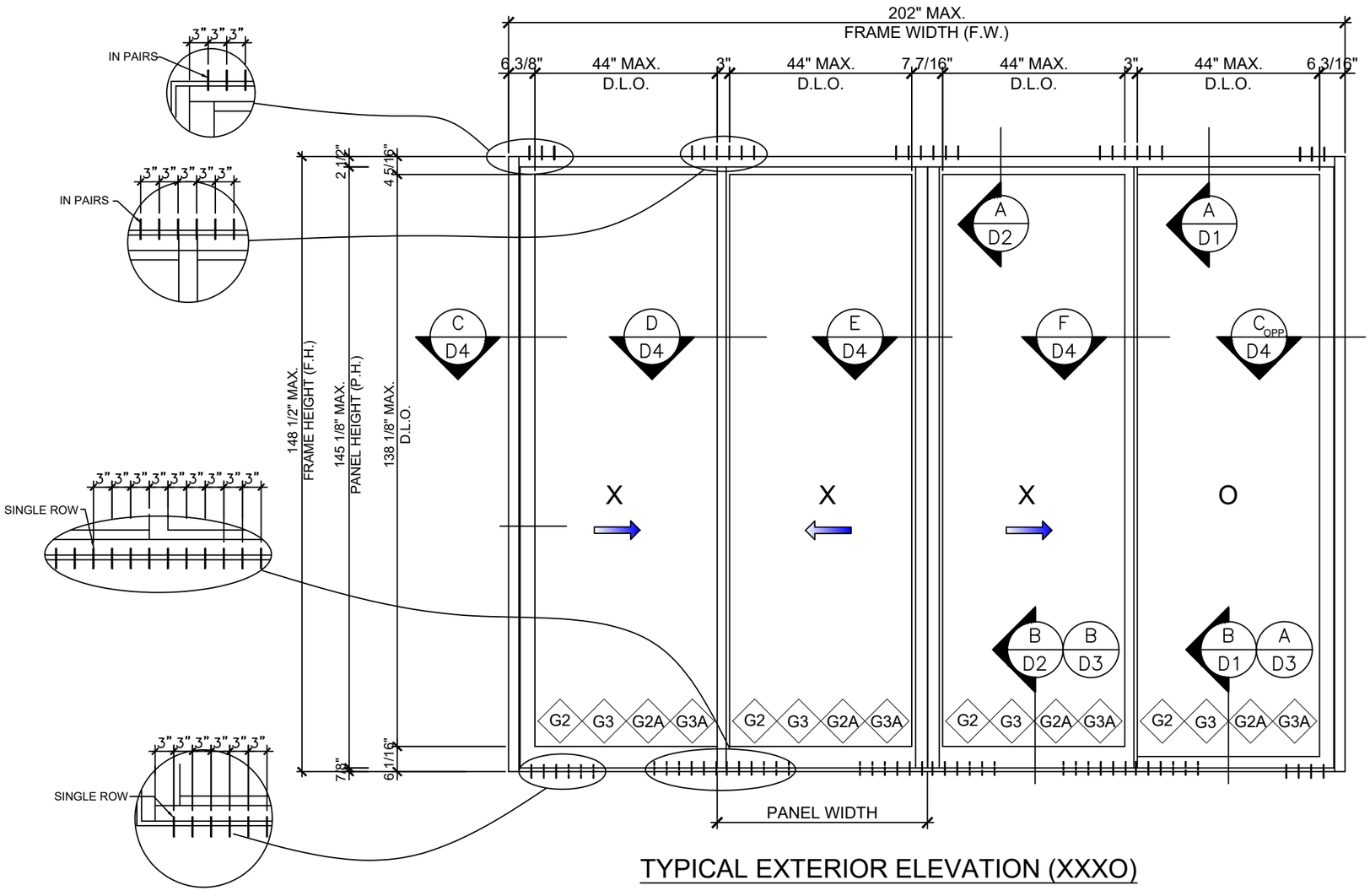
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Drawn Date	Scale
10-10-2020	AS NOTED

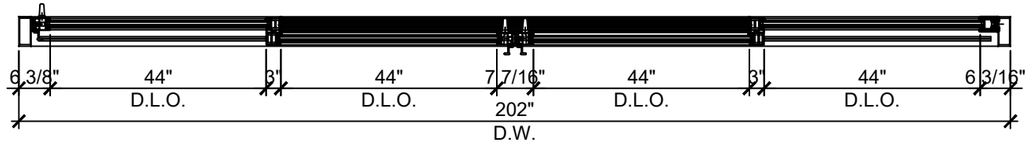
Project No.
FLORIDA APPROVAL 2020

Drawing Title
COVER

Sheet No.
SHEET: 1 OF:11



TYPICAL EXTERIOR ELEVATION (XXXO)



SEE CHART ON SHEET 4 FOR MAXIMUM DESIGN LOADS AND ANCHOR REQUIREMENTS

SEE SHEET 3 FOR ADDITIONAL QUALIFIED CONFIGURATIONS

DAYLITE OPENINGS DIMENSIONS:

INTERLOCK-ASTRAGAL = PANEL WIDTH - 6.592"
LOCK STILE-INTERLOCK = PANEL WIDTH - 6.592"

DAYLITE OPENING HEIGHT: PANEL HEIGHT - 7.015"

PANEL HEIGHT = FRAME HEIGHT - 3.375"

Manufacturer:

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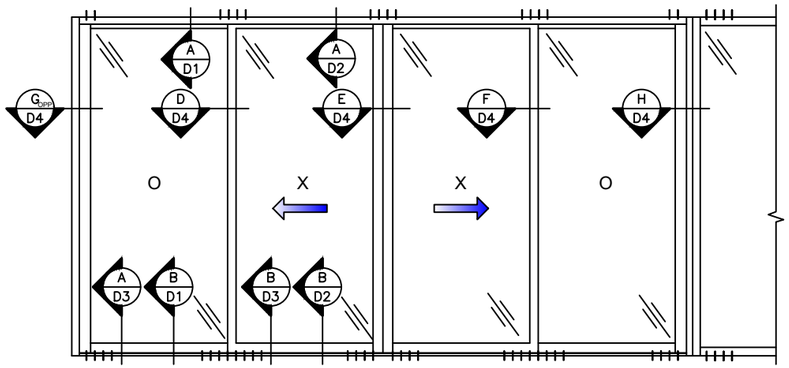
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Drawing Title
ELEVATIONS

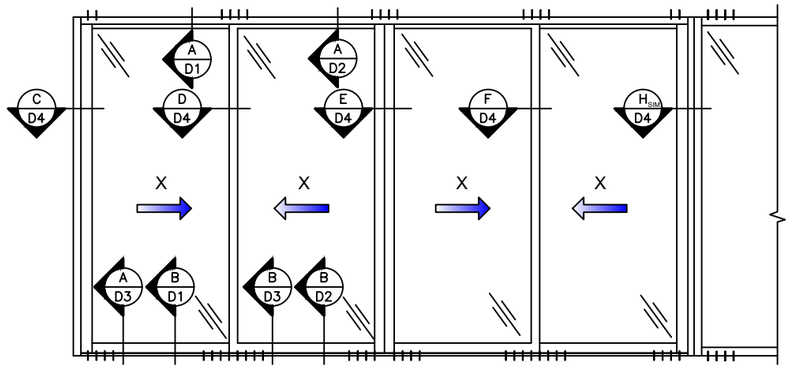
Sheet No.
SHEET: 2 OF:11

TYPICAL SGD OPTIONAL CONFIGURATIONS

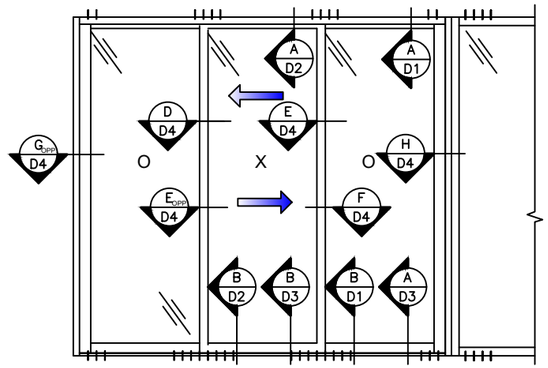
ALL SGD TYPES CAN BE USED WITH OR WITHOUT WINDOW WALL CGS WW3900 SYSTEM AT EITHER SIDE OF SGD. WINDOW WALL IS UNDER SEPARATE APPROVAL.



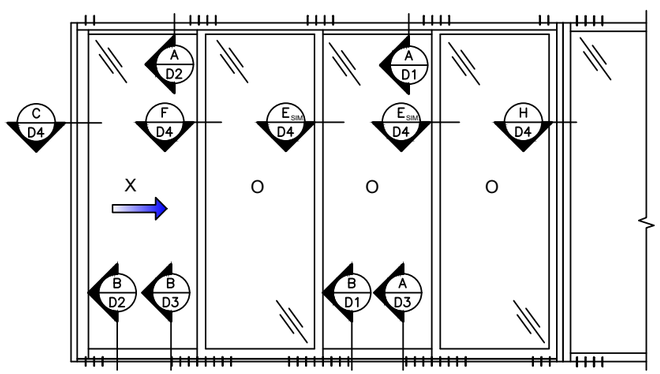
(4) PANELS SGD OXXO



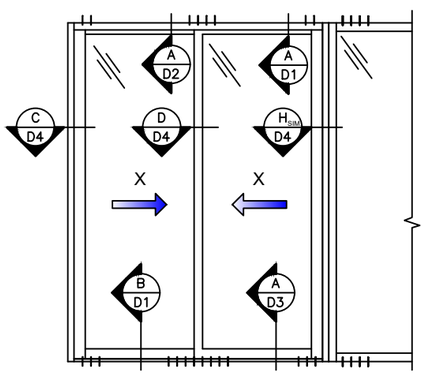
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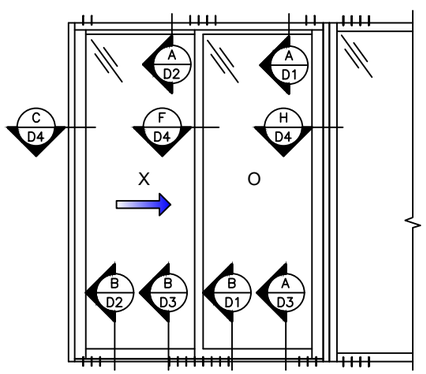
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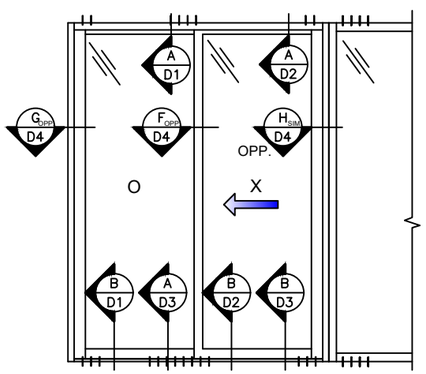
(3) PANELS SGD XOO



(2) PANELS SGD XX



(2) PANELS SGD XO



(2) PANELS SGD OX

Manufacturer:

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Soumel Loriga

Soumel Loriga, P.E.
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Cert. of Authorization: 30891

FLORIDA NUMBER:

FL# 17175

SERIES:

2850 SERIES
L.M.I.

Description:

SGD SYSTEM

Drawn Date	Scale
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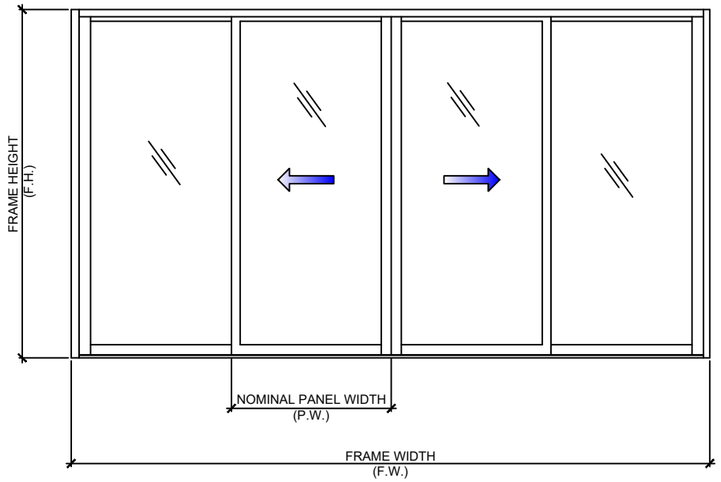
Project No.
FLORIDA APPROVAL 2020

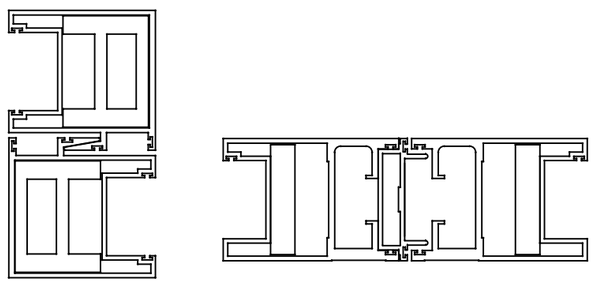
Drawing Title
ELEVATIONS

Sheet No.
SHEET:3 OF:11

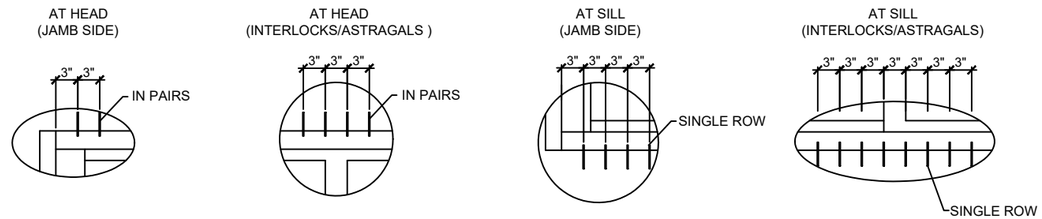
DESIGN LOADS DUE TO ANCHOR CAPACITY							
ANCHOR TYPE		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'		
NOMINAL DIMENSIONS		A8	A10	A12	B8	B10	B12
MAX. P.W.	F.H.	(+)/(-)	(+)/(-)	(+)/(-)	(+)/(-)	(+)/(-)	(+)/(-)
(IN)	(IN)	(PSF)	(PSF)	(PSF)	(PSF)	(PSF)	(PSF)
50.5	148	117.1	146.3	162.0	119.1	148.9	162.0

NOTE: NOMINAL PANEL WIDTH (P.W.) = SGD FRAME WIDTH / NUMBER OF PANELS



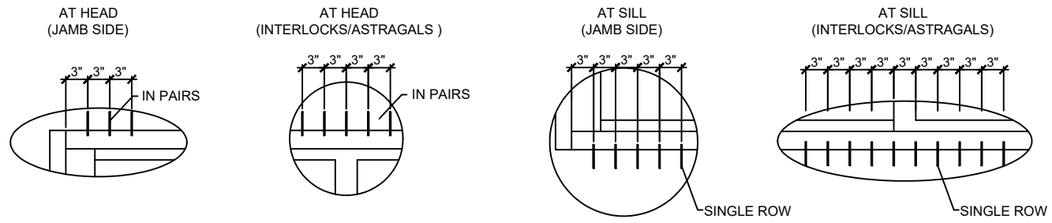


INTERLOCK & BUTT STILE CONFIGURATIONS



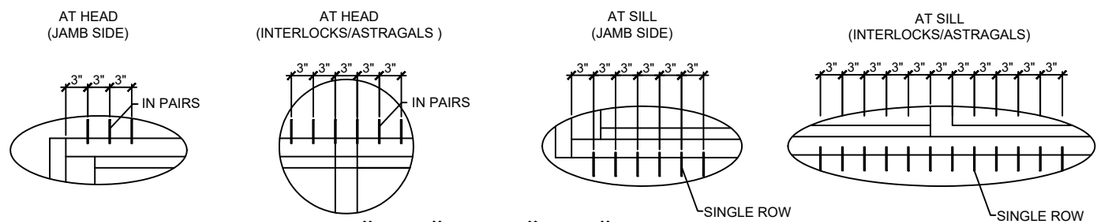
"A8" OR "B8"

"A8" - (8) ANCHORS TYPE 'A' AT INTERLOCKS/ASTRAGALS AT HEAD AND SILL
"A8" - (4) ANCHORS TYPE 'A' AT SIDE OF JAMB AT HEAD AND (4) AT SIDE OF JAMB AT SILL
"B8" - (8) ANCHORS TYPE 'B' AT INTERLOCKS/ASTRAGALS AT HEAD AND SILL
"B8" - (4) ANCHORS TYPE 'B' AT SIDE OF JAMB AT HEAD AND (4) AT SIDE OF JAMB AT SILL



"A10" OR "B10"

"A10" - (10) ANCHORS TYPE 'A' AT INTERLOCKS/ASTRAGALS AT HEAD AND SILL
"A10" - (6) ANCHORS TYPE 'A' AT SIDE OF JAMB AT HEAD AND (5) AT SIDE OF JAMB AT SILL
"B10" - (10) ANCHORS TYPE 'B' AT INTERLOCKS/ASTRAGALS AT HEAD AND SILL
"B10" - (6) ANCHORS TYPE 'B' AT SIDE OF JAMB AT HEAD AND (5) AT SIDE OF JAMB AT SILL



"A12" OR "B12"

"A12" - (12) ANCHORS TYPE 'A' AT INTERLOCKS/ASTRAGALS AT HEAD AND SILL
"A12" - (6) ANCHORS TYPE 'A' AT SIDE OF JAMB AT HEAD AND (6) AT SIDE OF JAMB AT SILL
"B12" - (12) ANCHORS TYPE 'B' AT INTERLOCKS/ASTRAGALS AT HEAD AND SILL
"B12" - (6) ANCHORS TYPE 'B' AT SIDE OF JAMB AT HEAD AND (6) AT SIDE OF JAMB AT SILL

Manufacturer:
CGS
CONTINENTAL GLASS SYSTEMS LLC.
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Soumel Loriga

Soumel Loriga, P.E.
PE Lic No.: 77736
Cert. of Authorization: 30891

FLORIDA NUMBER:
FL# 17175

SERIES:
2850 SERIES
L.M.I.

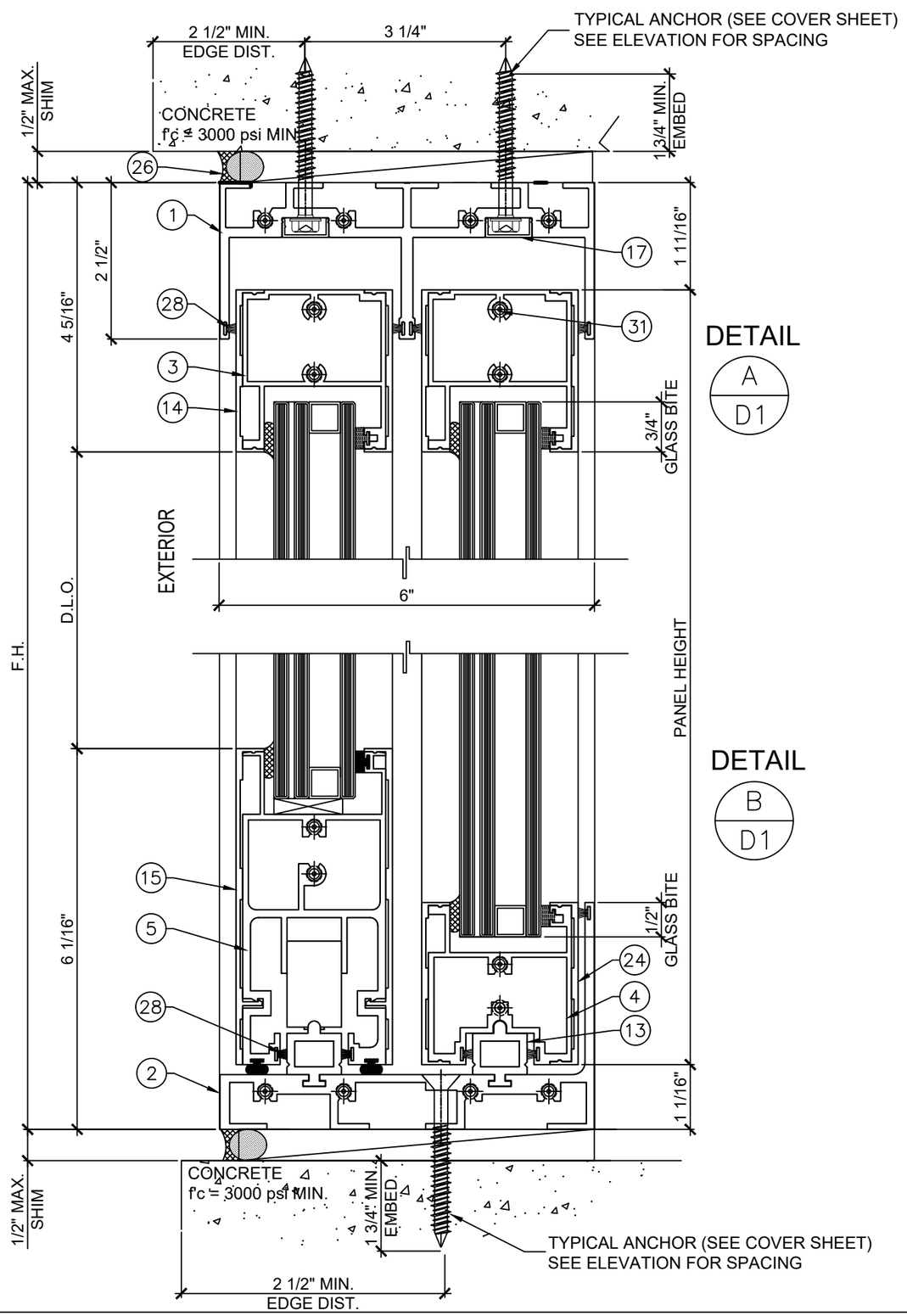
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Drawn Date	Scale
10-10-2020	AS NOTED

Project No.
FLORIDA APPROVAL 2020

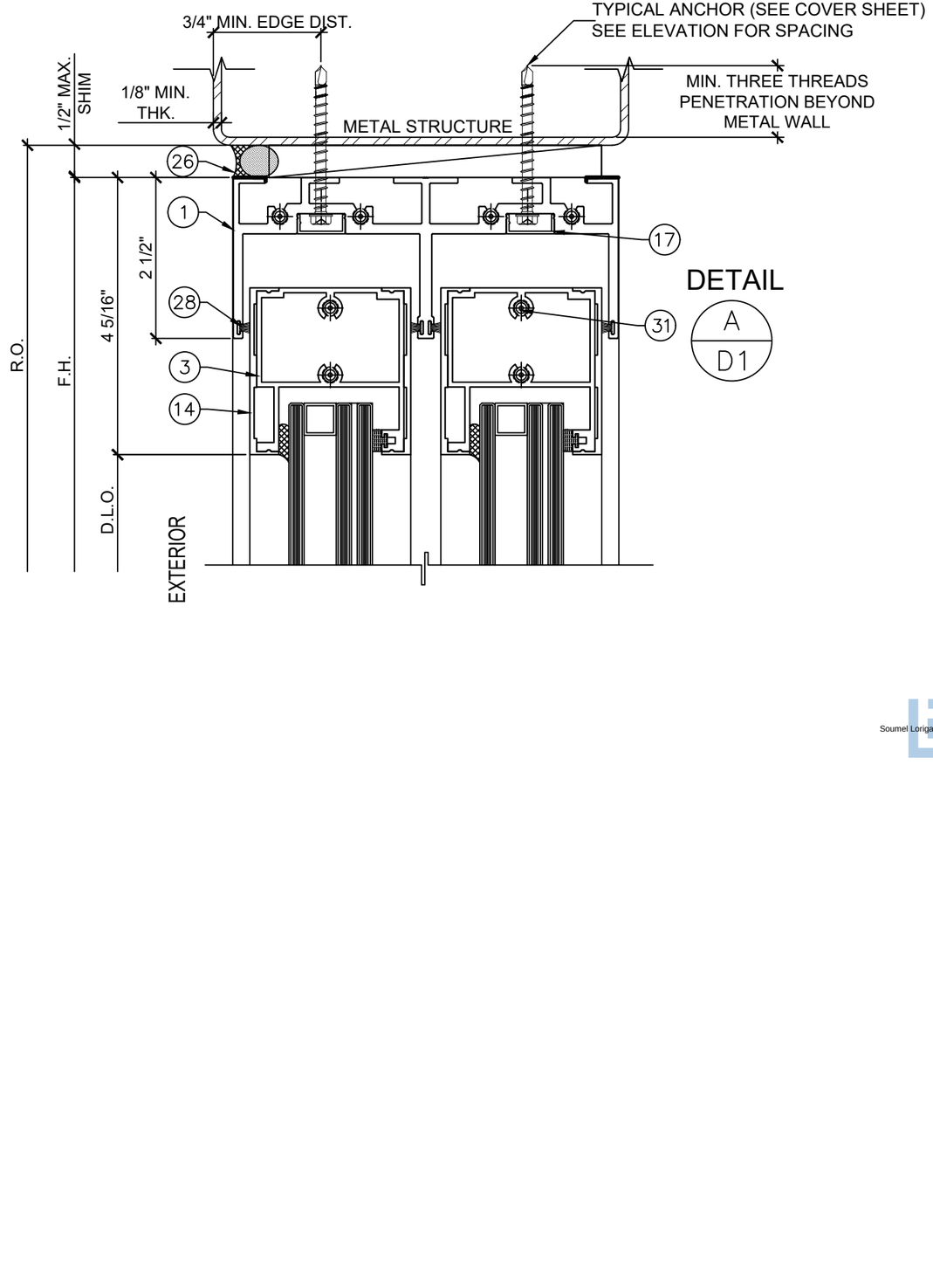
Drawing Title
ANCHORS

Sheet No.
SHEET: 4 OF:11



DETAIL A / D1

DETAIL B / D1



DETAIL A / D1

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SERIES:

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Description:

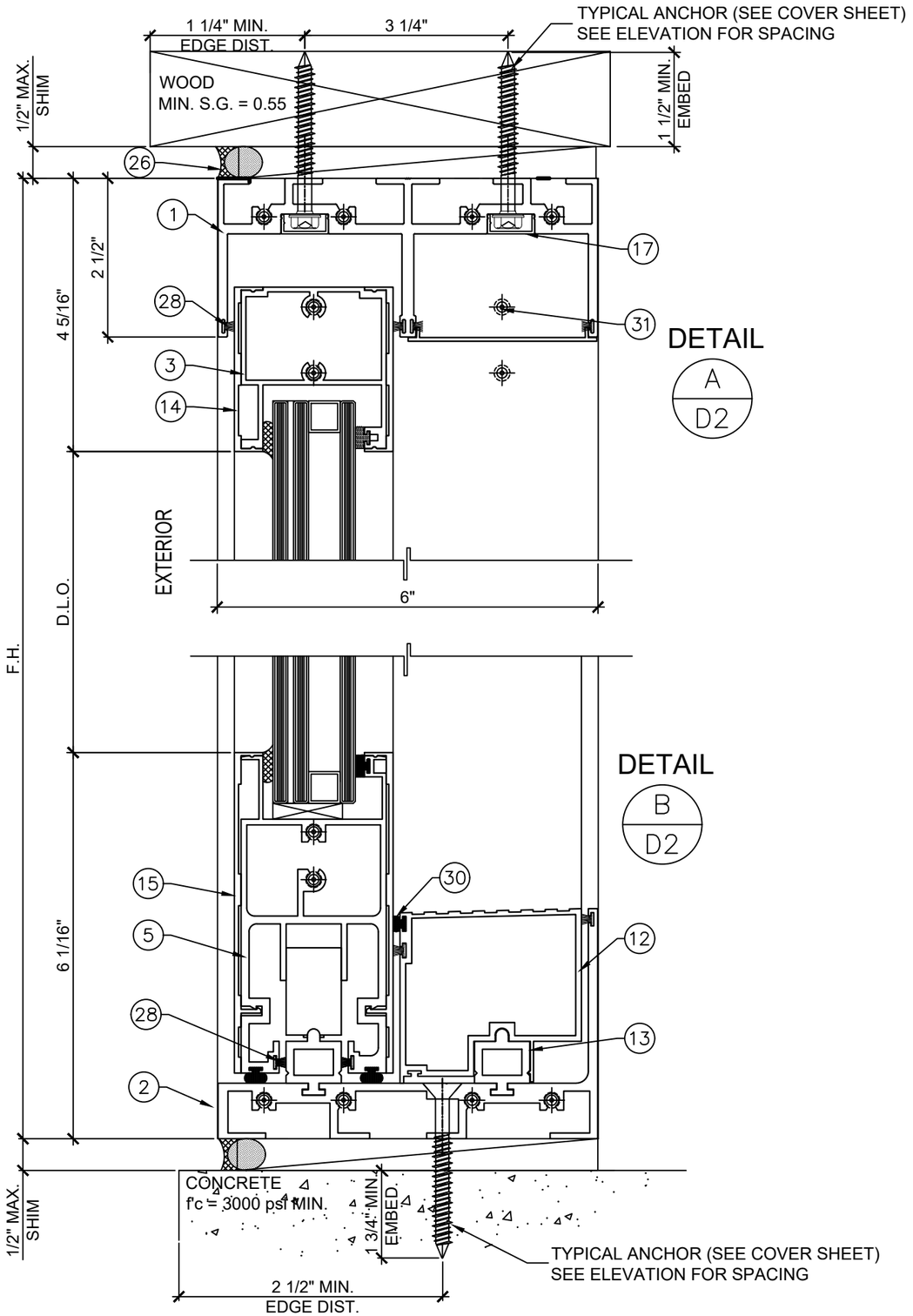
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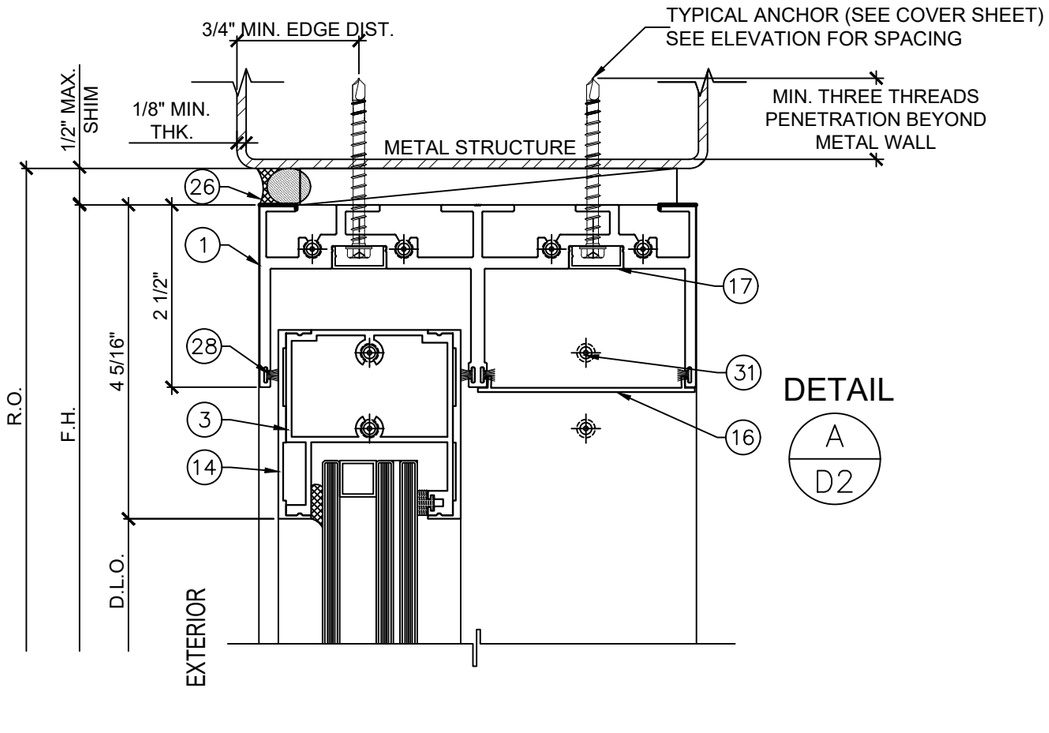
Drawn Date	Scale
10-10-2020	AS NOTED

Project No.
FLORIDA APPROVAL 2020

Drawing Title
DETAILS

Sheet No.
SHEET:5 OF:11





Manufacturer:

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Description:

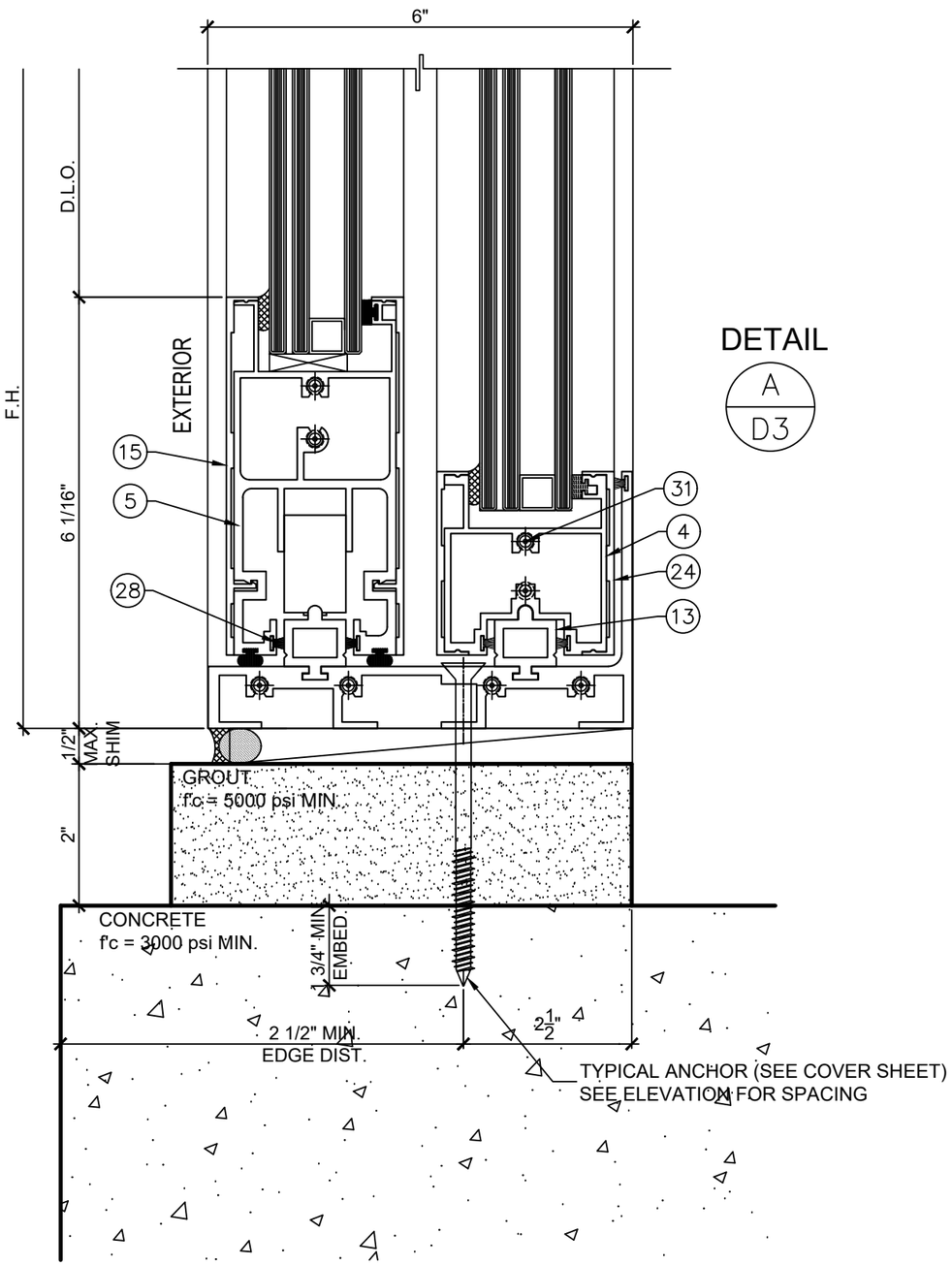
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Drawn Date	Scale
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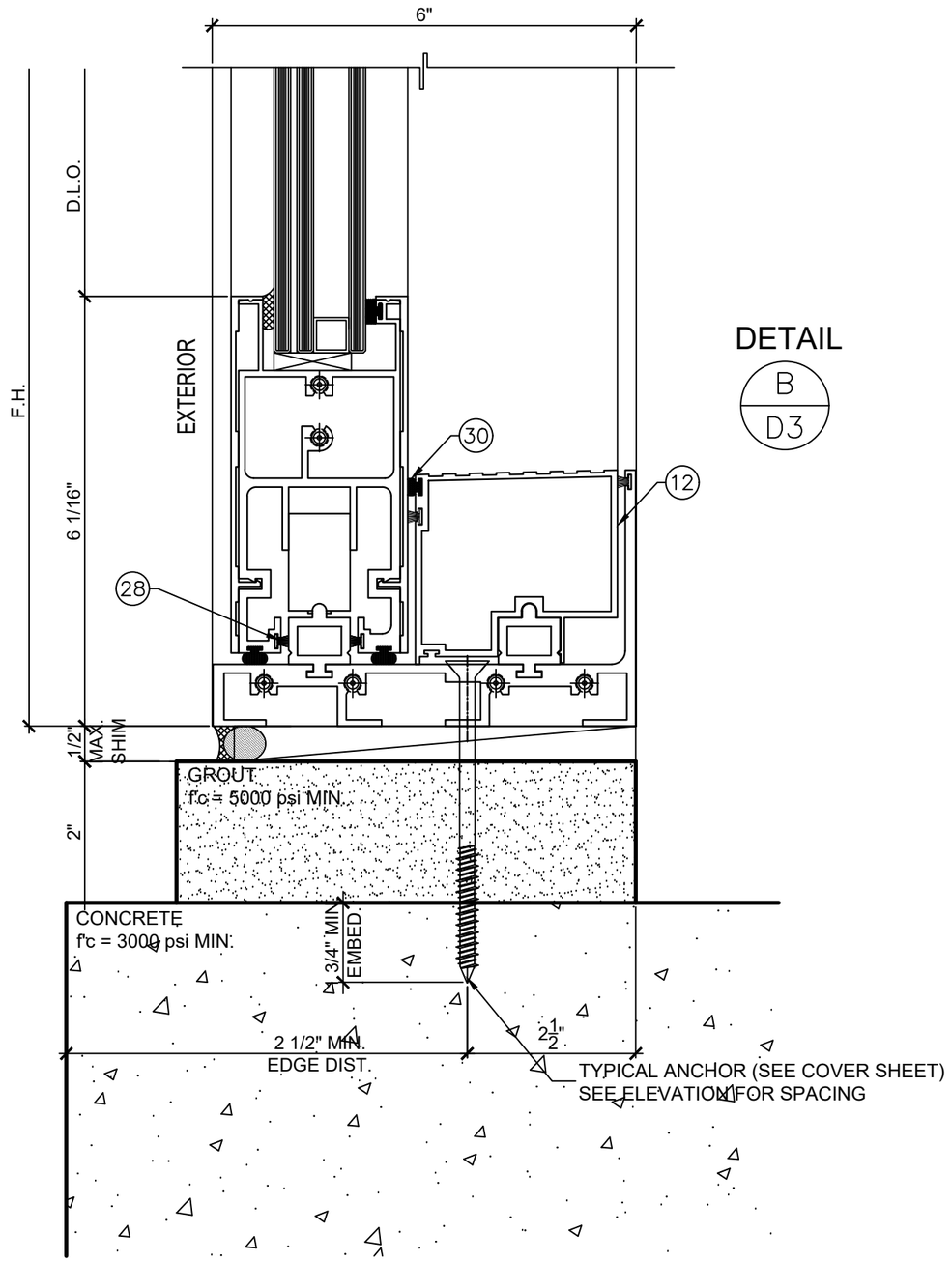
Project No.
FLORIDA APPROVAL 2020

Drawing Title
DETAILS

Sheet No.
SHEET: 6 OF:11



DETAIL A / D3



DETAIL B / D3

Manufacturer:

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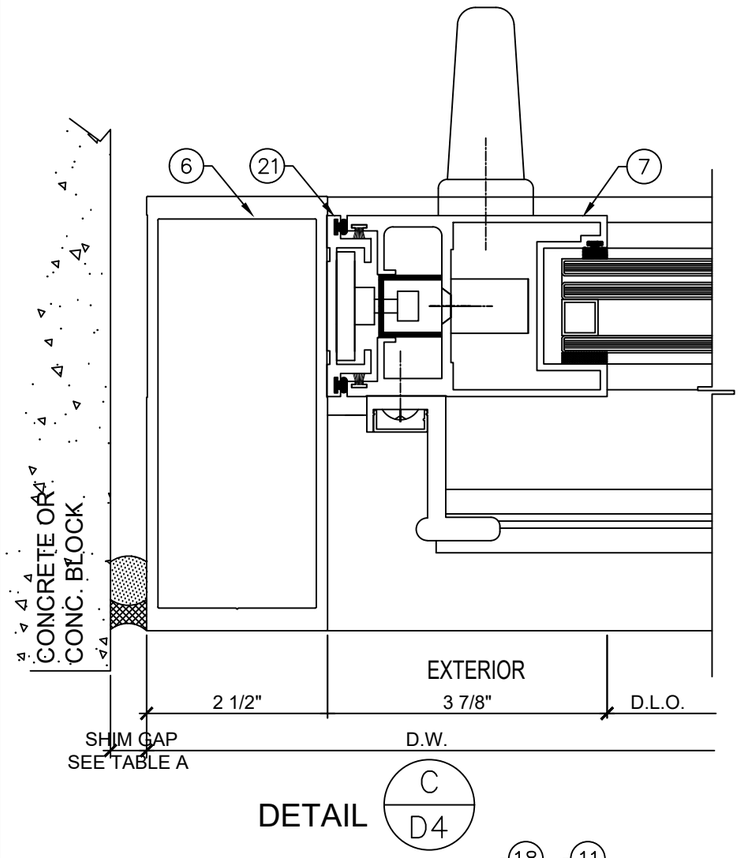
SGD SYSTEM

Drawn Date	Scale
10-10-2020	AS NOTED

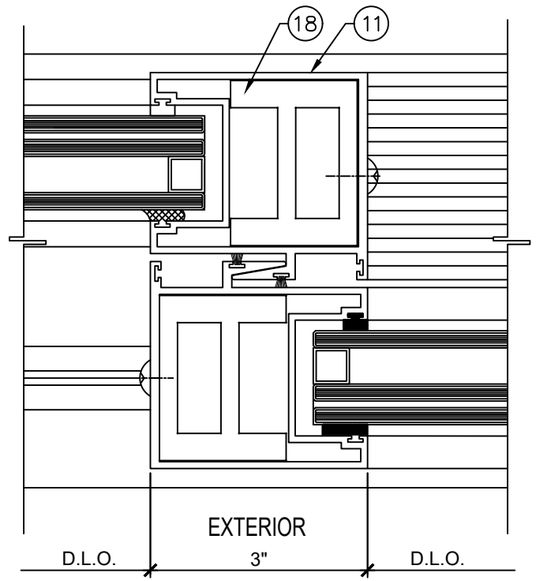
Project No.
FLORIDA APPROVAL 2020

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DETAILS

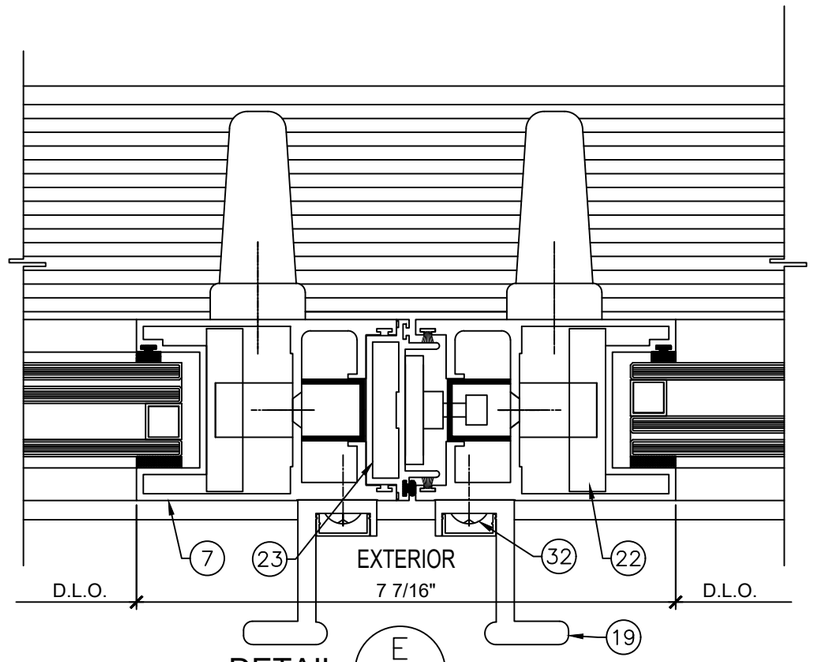
Sheet No.
SHEET: 7 OF:11



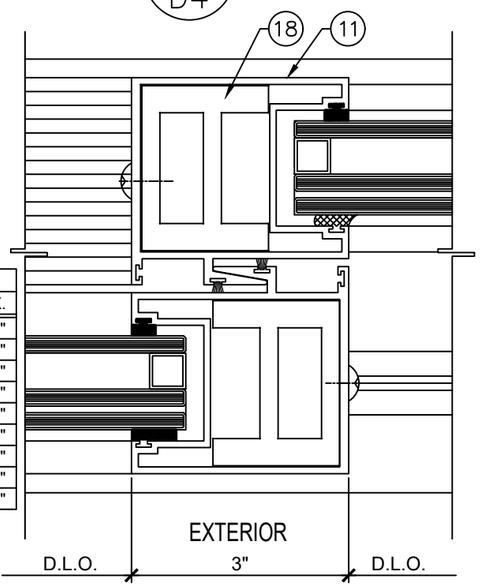
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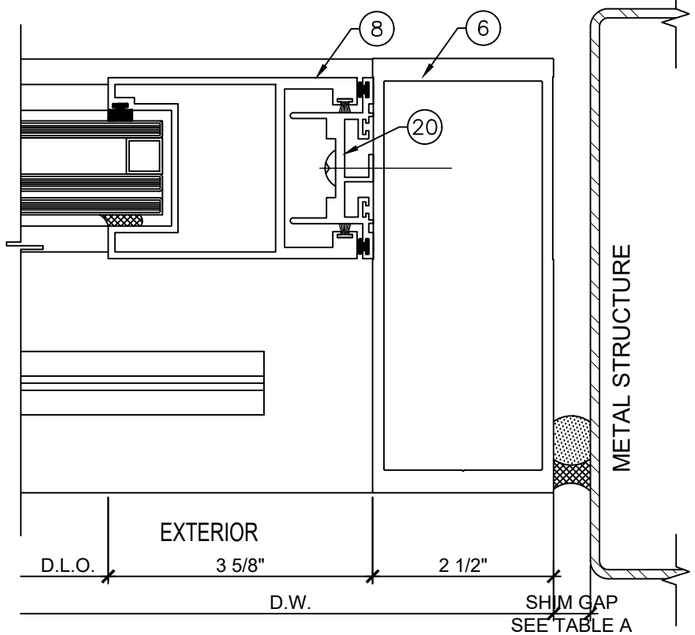
DETAIL D / D4



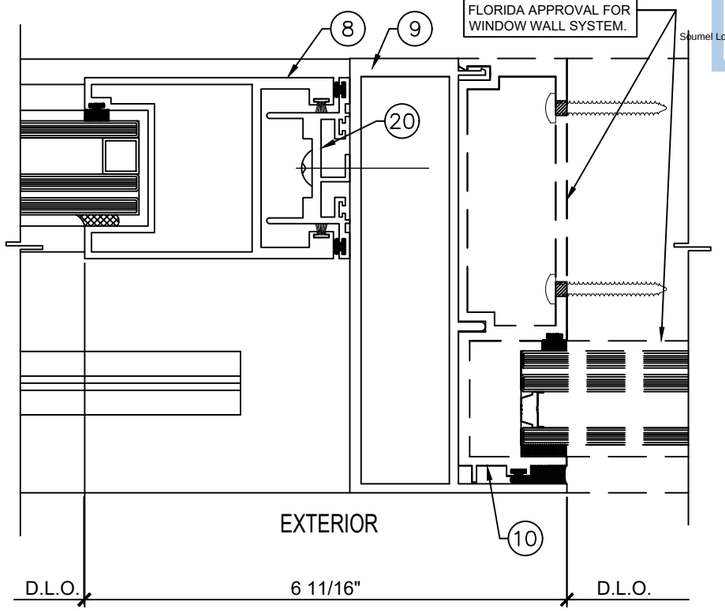
DETAIL E / D4



DETAIL F / D4



DETAIL G / D4



DETAIL H / D4

REFER TO SEPARATE FLORIDA APPROVAL FOR WINDOW WALL SYSTEM.

Soumel Loriga

TABLE A

MAX. FRAME HEIGHT	JAMB GAP	
	MIN.	MAX.
90"	5/16"	1-1/2"
96"	5/16"	1-1/2"
102"	5/16"	1-1/2"
108"	5/16"	1-1/2"
114"	5/16"	1-1/2"
120"	3/8"	1-1/2"
126"	3/8"	1-1/2"
128"	3/8"	1-1/2"
130"	3/8"	1-1/2"

Manufacturer:

CGS

CONTINENTAL GLASS SYSTEMS LLC.
325 West 74 Place Hialeah, Fl 33014
Phone 305.231.1101
Toll Free 1.877.221.1101

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Soumel Loriga, P.E.
PE Lic No.: 77736
Cert. of Authorization: 30891

FLORIDA NUMBER:

FL# 17175

SERIES:

2850 SERIES
L.M.I.

Description:

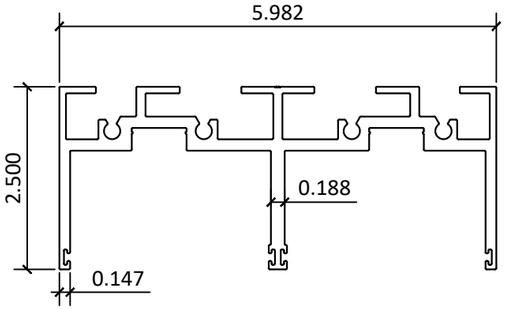
SGD SYSTEM

Drawn Date	Scale
10-10-2020	AS NOTED

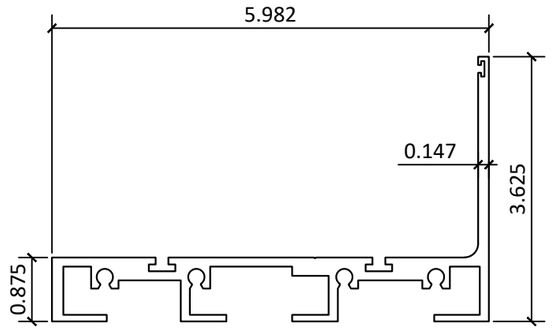
Project No.
FLORIDA APPROVAL 2020

Drawing Title
DETAILS

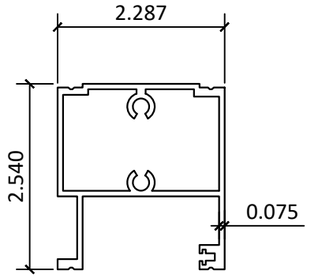
Sheet No.
SHEET: 8 OF:11



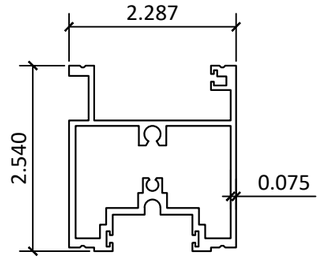
1 HEAD
2800-02 6005-T5



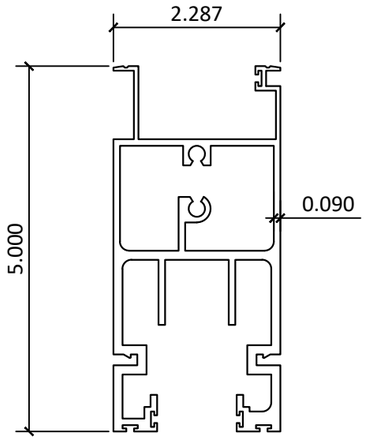
2 SILL
2800-03 6005-T5



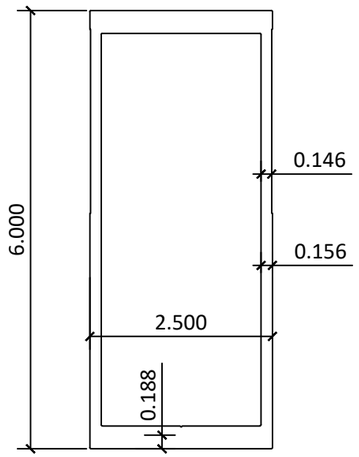
3 TOP PANEL
2900-08 6005-T5



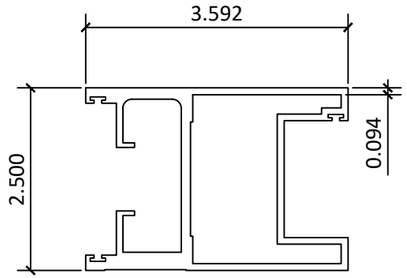
4 FIXED PANEL
2900-19 6005-T5



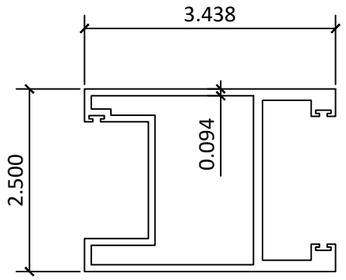
5 MOVING PANEL
2950-09 6005A-T61



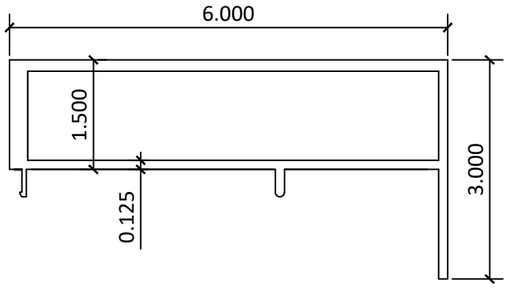
6 JAMB
2950-04 6005A-T61



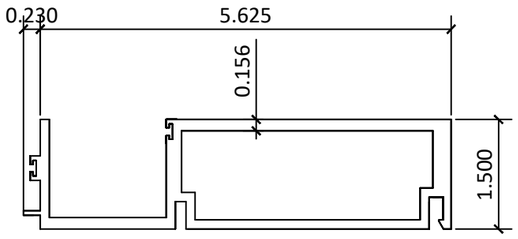
7 LOCK STILE
2950-10 6005A-T61



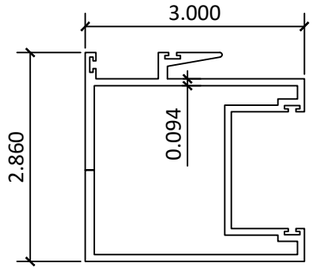
8 FIXED STILE
2900-14 6005-T5



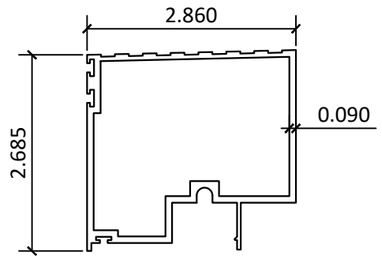
9 MALE JAMB ADAPTOR
3900-09 6005-T5



10 FEMALE JAMB ADAPTOR
3900-06 6005-T5



11 INTERLOCK
2900-11 6005-T5



12 THRESHOLD
2800-04 6063-T6

Manufacturer:

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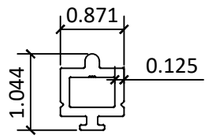
SGD SYSTEM

Drawn Date	Scale
10-10-2020	AS NOTED

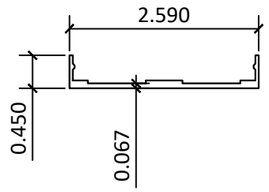
Project No.
FLORIDA APPROVAL 2020

Drawing Title
EXTRUSIONS

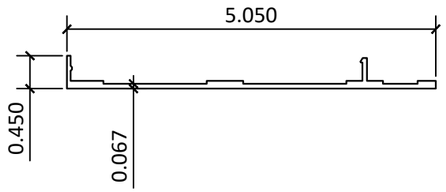
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SHEET:9 OF:11



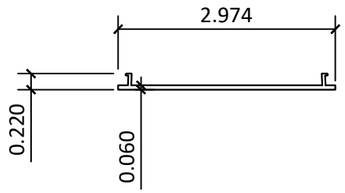
13 SILL TRACK
2800-05 6005-T5



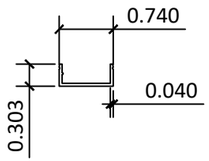
14 TOP COVER
2900-26 6063-T6



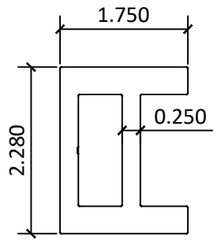
15 BOTTOM COVER
2950-25 6063-T6



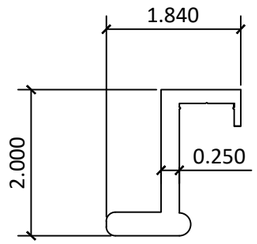
16 COVER HEAD
2800-40 6063-T6



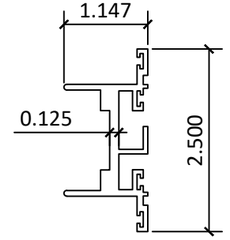
17 HEAD SCREW COVER
5500-09 6063-T6



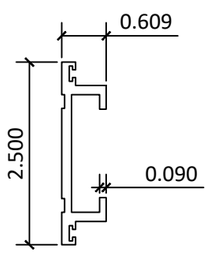
18 INTERLOCK REINFORCEMENT
2800-23 6005-T5



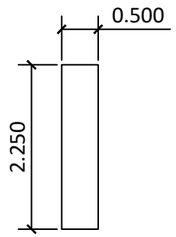
19 HANDLE
2800-20 6005-T5



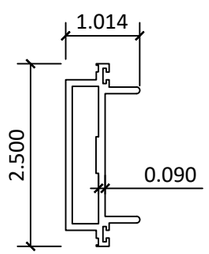
20 FIXED JAMB ADAPTOR
2900-06 6063-T6



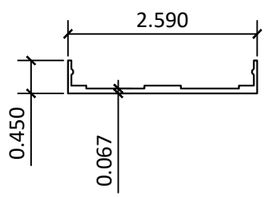
21 LOCK JAMB ADAPTOR
2800-21 6005-T5



22 MEETING STILE REINFORCEMENT
--- 6005-T5



23 ASTRAGAL
2800-26 6005-T5



24 FIXED BOTTOM COVER
2900-25 6063-T6

Manufacturer:
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S.M.I.

Description:
SGD SYSTEM

Drawn Date: 10-10-2020
Scale: AS NOTED

Project No.: FLORIDA APPROVAL 2020

Drawing Title: EXTRUSIONS

Sheet No.: SHEET:10 OF:11

BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	2800-02	HEAD	ALUM. 6005-T5	-
2	2800-03	SILL	ALUM. 6005-T5	-
3	2900-08	TOP PANEL	ALUM. 6005-T5	-
4	2900-19	FIXED PANEL	ALUM. 6005-T5	-
5	2950-09	MOVING PANEL	ALUM. 6005A-T61	-
6	2950-04	JAMB	ALUM. 6005A-T61	-
7	2950-10	LOCK STILE	ALUM. 6005A-T61	-
8	2900-14	FIXED STILE	ALUM. 6005-T5	-
9	3900-09	MALE JAMB ADAPTOR	ALUM. 6005-T5	-
10	3900-06	FEMALE JAMB ADAPTOR	ALUM. 6005-T5	-
11	2900-11	INTERLOCK	ALUM. 6005-T5	-
12	2800-04	THRESHOLD	ALUM. 6063-T6	-
13	2800-05	SILL TRACK	ALUM. 6005-T5	-
14	2900-26	TOP COVER	ALUM. 6063-T6	-
15	2950-25	BOTTOM COVER	ALUM. 6063-T6	-
16	2800-40	COVER HEAD	ALUM. 6063-T6	-
17	5500-09	HEAD SCREW COVER	ALUM. 6063-T6	-
18	2800-23	INTERLOCK REINFORCEMENT	ALUM. 6005-T5	-
19	2800-20	HANDLE	ALUM. 6005-T5	-
20	2900-06	FIXED JAMB ADAPTOR	ALUM. 6063-T6	-
21	2800-21	LOCK JAMB ADAPTOR	ALUM. 6005-T5	-
22	-	½" x 2¼" MEETING STILE REINFORCEMENT	ALUM. 6005-T5	-
23	2800-26	ASTRAGAL	ALUM. 6005-T5	-
24	2900-25	REINFORCEMENT	ALUM. 6063-T6	-
25	-	1/4" X 3/4" X 4" SETTING BLOCK	SILICONE	-
26	-	DOW CORNING DC790 CONT. PERIMETER SEALANT AND BACKER ROD	SILICONE	DOW CORNING
27	-	GASKET	POLYPROPYLENE / SANTOPRENE	ULTRA FAB
28	-	FIN-SEAL 0.187" X 0.250" HT	-	ULTRA FAB
29	-	DOW CORNING STRUCTURAL SEALANT DC983 OR DC795	SILICONE	DOW CORNING
30	-	BULB GASKET #202	-	ULTRA FAB
31	-	#14 P.H. S.S. SMS. 1" LONG	STAINLESS STEEL	-
32	-	#14 X 20 P.H. S.S. SMS. AT 4" FROM END & 25" O.C. MAX.	STAINLESS STEEL	-

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Sheet No.

SHEET:11 OF:11