

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Coastline Bi-Fold Door IZ4 (10')

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

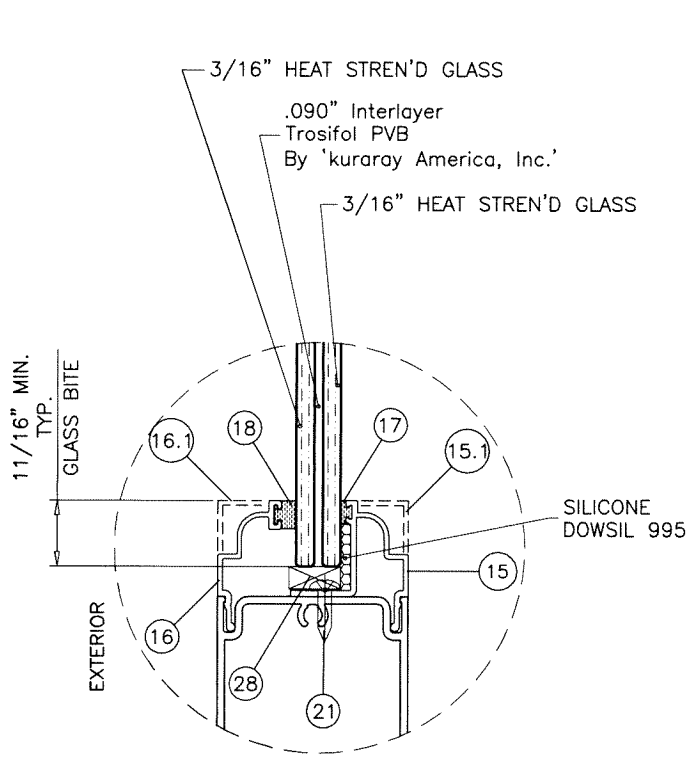
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.

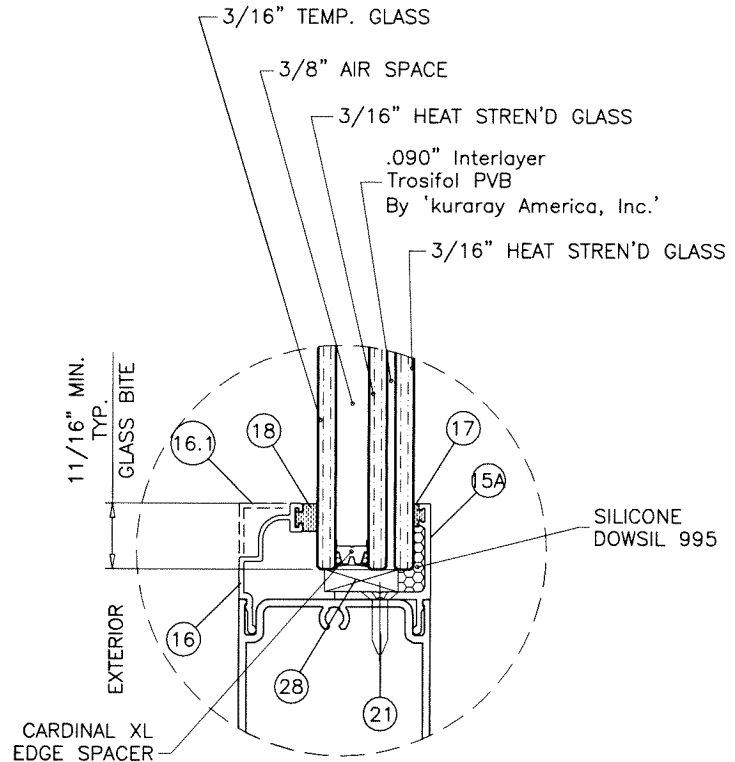
LABELING TO COMPLY WITH SECTION 1709.9.2.

DOORS WITH STANDARD BOTTOM TRACK (SIW802) APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

DOORS WITH LOW PROFILE BOTTOM TRACK (SIW804) NOT APPROVED FOR WATER RESISTANCE.



GLAZING DETAIL
7/16" OVERALL LAM. GLASS



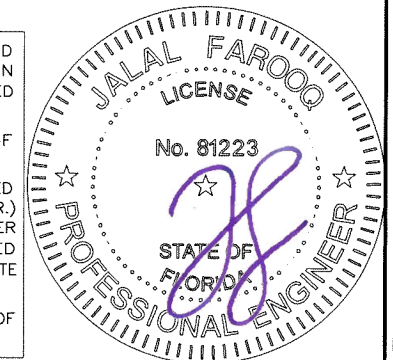
GLAZING DETAIL
1" OVERALL INSUL. LAM. GLASS

NOTE:
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

Sealed: 7/25/2023

FL #33612

A- 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.
 B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
 C- 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. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
 D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



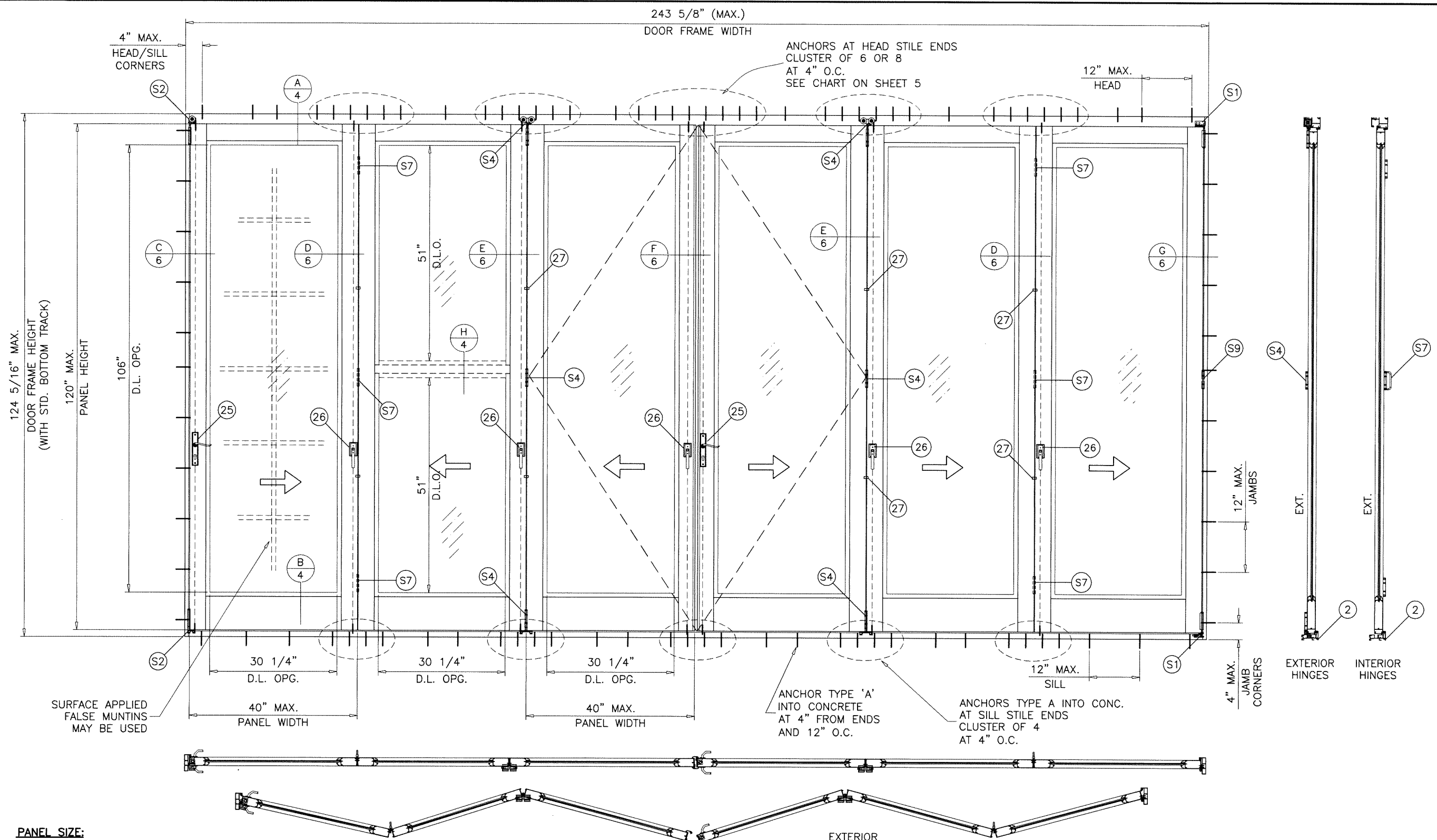
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL \W16-49SIW

Coastline Bi-Fold Door IZ4 (10')
MARVIN
 PO Box 100, 401 State Ave. N.
 Warroad, MN. 56763
 Tel. (218) 386-1430 Ext. 2143

no	date	by	description
A	11.01.17		UPDATED TO 2017 FBC
B	12.10.18		COMPANY NAME REV.
C	09.16.20		UPDATED TO 2020 FBC
D	07.25.23		UPDATED TO 2023 FBC

date: 06-08-16
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W16-49
 sheet 1 of 11



PANEL SIZE:
 NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.625")/6
 PANEL HEIGHT = DOOR FRAME HEIGHT - 4.188"

DAYLITE OPENINGS:
 DLO WIDTH = NOM. PANEL WIDTH - 9.750"
 DLO HEIGHT = PANEL HEIGHT - 14"

STD. BOTTOM TRACK

*** MAXIMUM DESIGN LOAD RATING = + 60.0 PSF**
 (FOR LEAF SIZE SHOWN OR SMALLER) - 60.0 PSF
 AS PERMITTED BY FBC REQUIREMENTS

* APPROVED FOR WATER INFILTRATION RESISTANCE WITH STANDARD BOTTOM TRACK

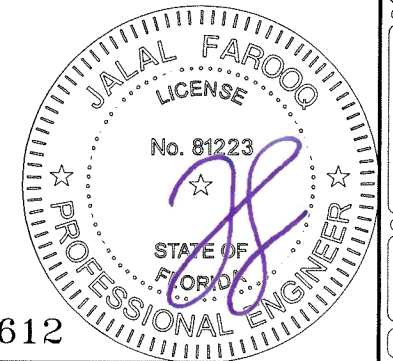
SIX PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN. DOOR MAY HAVE 9 OR 10 PANELS (120" MAX. PANEL HT.) AS SHOWN ON CHARTS ON SHEET 5 USING THE STILE CONFIGURATIONS SHOWN HEREIN, SUBJECT TO TOTAL AREA NOT TO EXCEED 315.45 SQ. FT.

NOTE:
 GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

TYPICAL ELEVATION (6 PANELS TESTED CONFIGURATION)
 BI-FOLD DOOR WITH OUT-SWING LEAFS
 STANDARD BOTTOM TRACK
 SEE SHEET 5 FOR ANCHOR OPTIONS AND CAPACITIES

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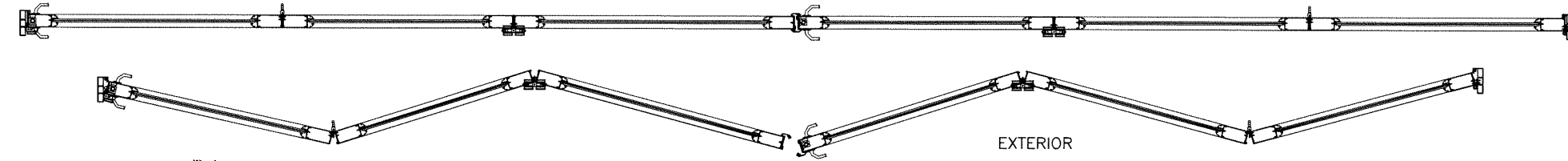
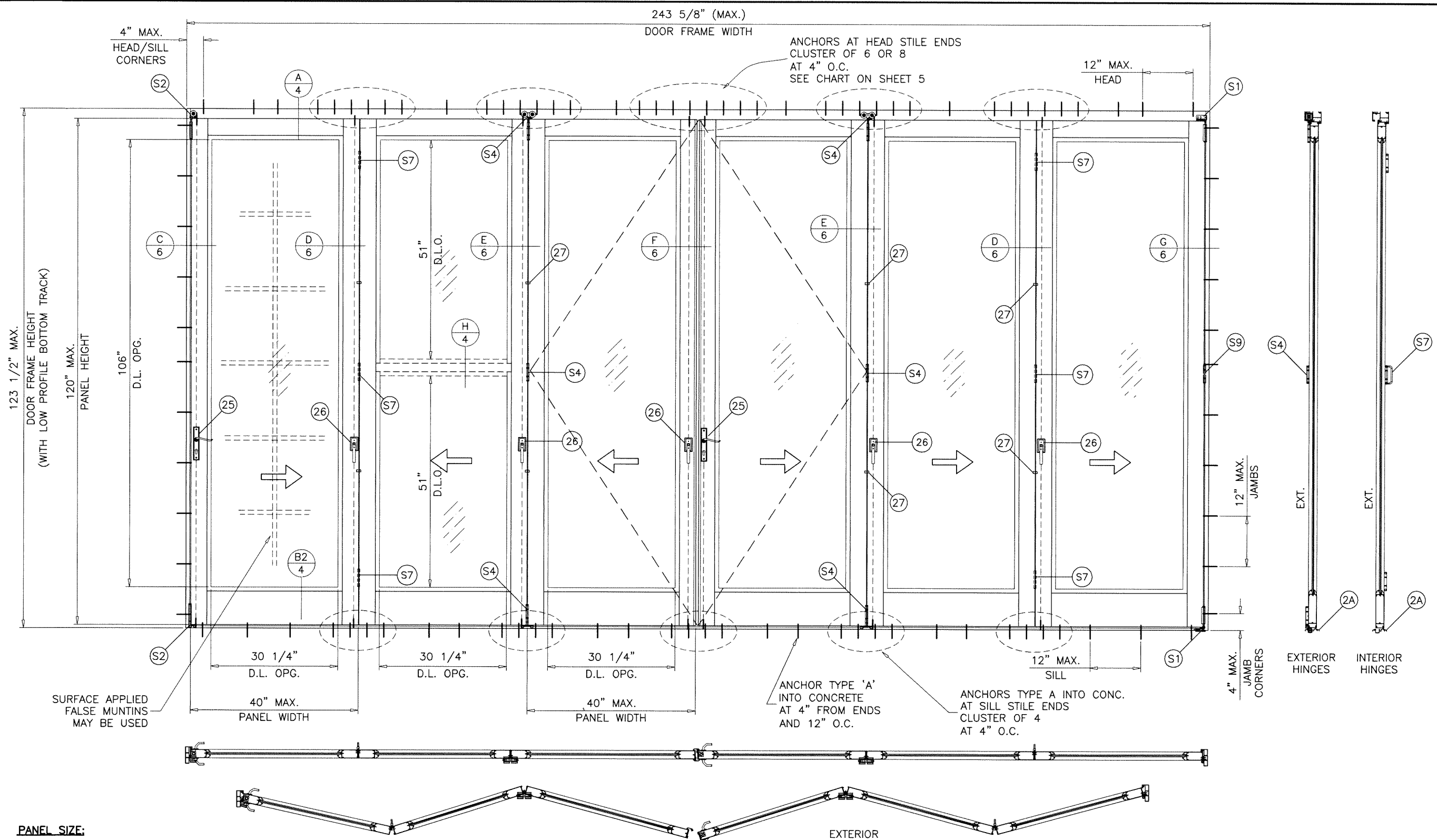
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W16-49
 sheet 2 of 11



TYPICAL ELEVATION (6 PANELS CONFIGURATION)

BI-FOLD DOOR WITH OUT-SWING LEAFS
 LOW PROFILE BOTTOM TRACK
 SEE SHEET 5 FOR ANCHOR OPTIONS AND CAPACITIES

SIX PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN. DOOR MAY HAVE 9 OR 10 PANELS (MAX. 120" PANEL HT.) AS SHOWN ON CHARTS ON SHEET 5 USING THE STILE CONFIGURATIONS SHOWN HEREIN, SUBJECT TO TOTAL AREA NOT TO EXCEED 315.45 SQ. FT.

NOTE:
 GLASS CAPACITIES ON THIS SHEET ARE
 BASED ON ASTM E1300-09 (3 SEC. GUSTS)
 AND FLORIDA BUILDING COMMISSION
 DECLARATORY STATEMENT DCA05-DEC-219

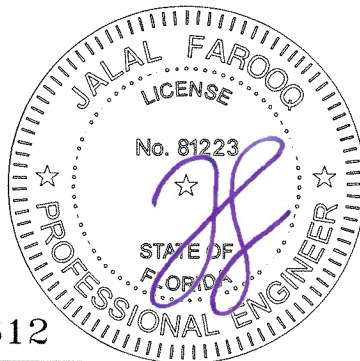
PANEL SIZE:
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 PANEL HEIGHT = DOOR FRAME HEIGHT - 3.375"

DAYLITE OPENINGS:
 DLO WIDTH = NOM. PANEL WIDTH - 9.750"
 DLO HEIGHT = PANEL HEIGHT - 14"

LOW PROFILE BOTTOM TRACK

*** MAXIMUM DESIGN LOAD RATING = + 60.0 PSF**
 (FOR LEAF SIZE SHOWN OR SMALLER) - 60.0 PSF
 AS PERMITTED BY FBC REQUIREMENTS

* NOT APPROVED FOR WATER INFILTRATION RESISTANCE WITH LOW PROFILE BOTTOM TRACK



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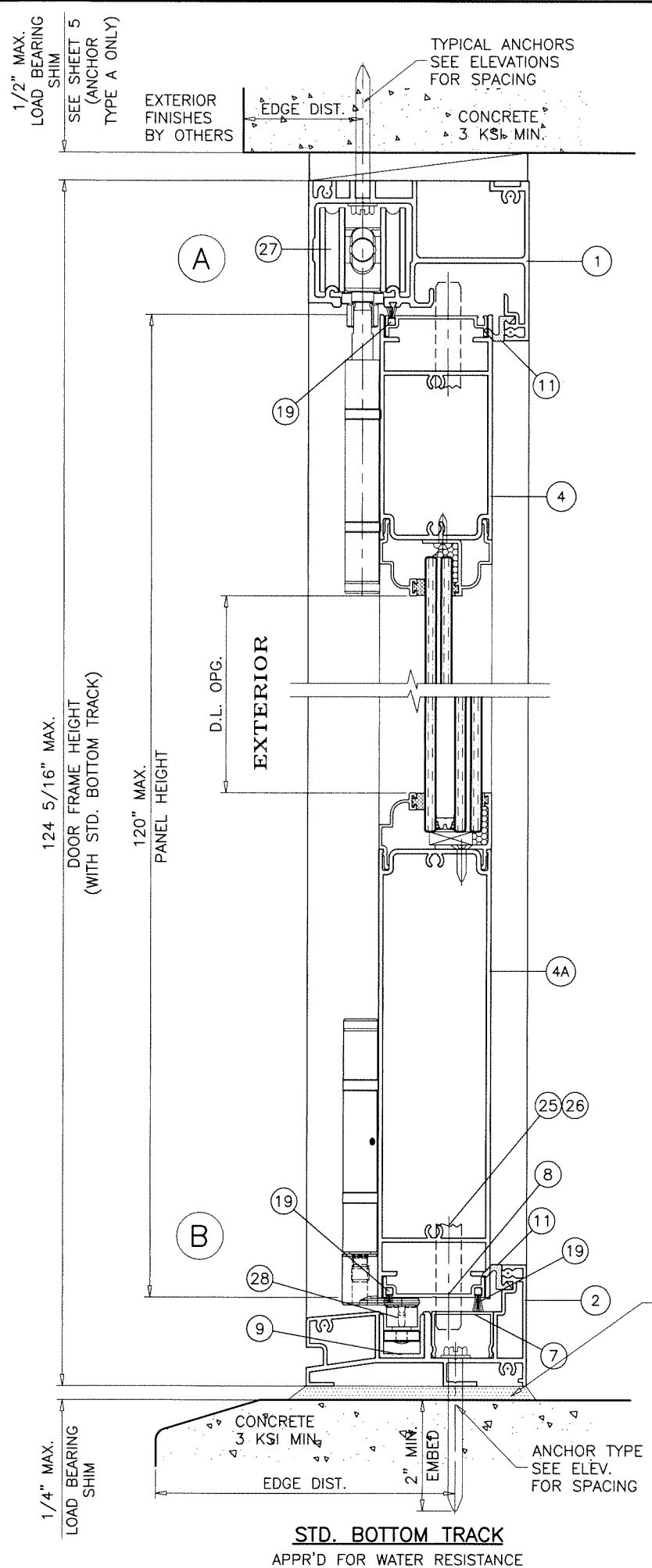
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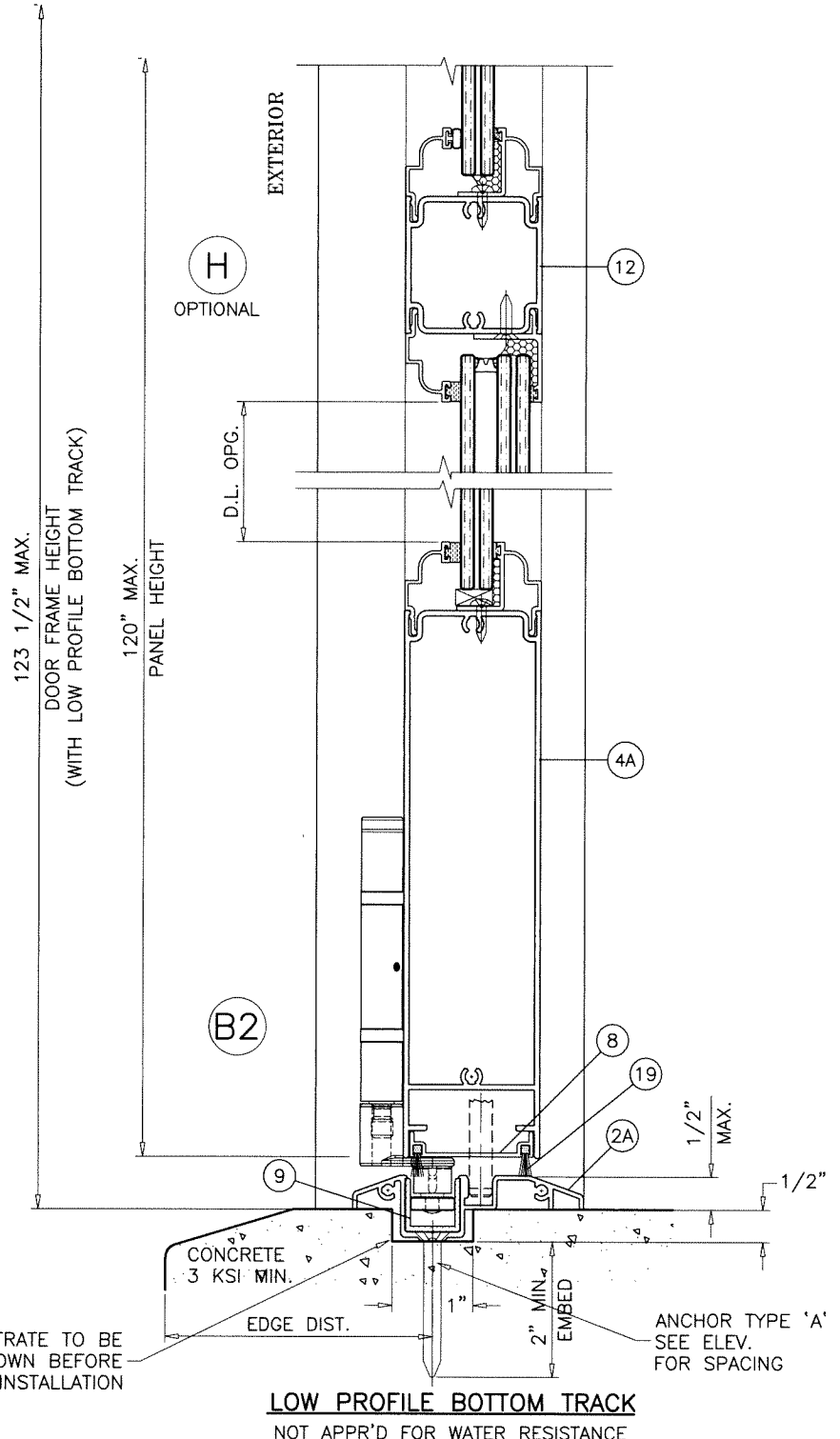


STD. BOTTOM TRACK
APPR'D FOR WATER RESISTANCE

POURED & HARDENED
HIGH STRENGTH GROUT
f'c = 5000 PSI MIN.
NOT BY 'MARVIN'
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

LOAD BEARING
(SOLID SHIMS
OPTIONAL TO GROUT)

CONCRETE SUBSTRATE TO BE
RECESSED AS SHOWN BEFORE
LOW TRACK INSTALLATION



LOW PROFILE BOTTOM TRACK
NOT APPR'D FOR WATER RESISTANCE

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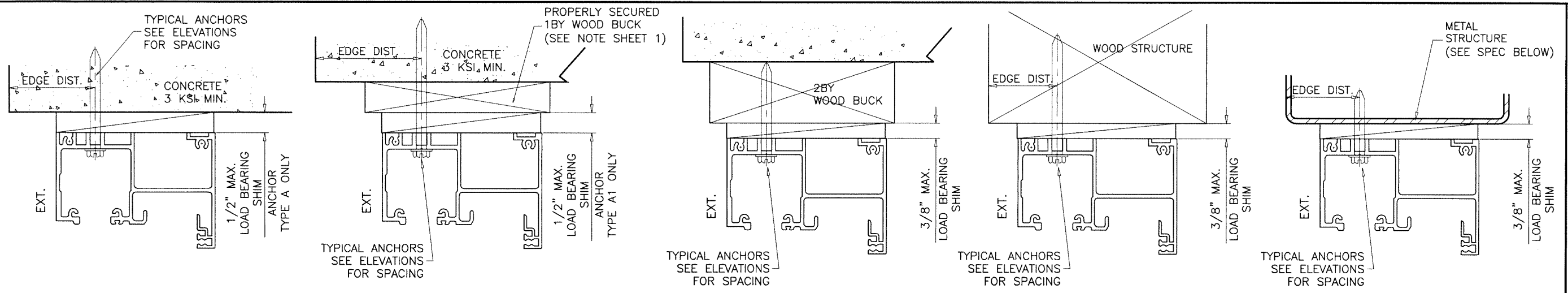
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revisions:	no	date	by	description

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ANCHORS TYPE 'A'

ANCHORS TYPE 'A1'

ANCHORS TYPE 'B'

ANCHORS TYPE 'B1'

ANCHORS TYPE 'C'

WOOD BUCKS AND METAL STRUCTURE NOT BY 'MARVIN' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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

TYPE 'A1' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 MIN. LENGTH = 3-3/4"
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'B' - #14 SMS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

TYPE 'B1' - #14 SMS (GRADE 2 CRS)
 INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD (HEAD)

TYPE 'C' - 1/4" DIA. HILTI KWIK-FLEX SELF DRILLING SCREWS (Fu=120 KSI, Fy=92 KSI)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

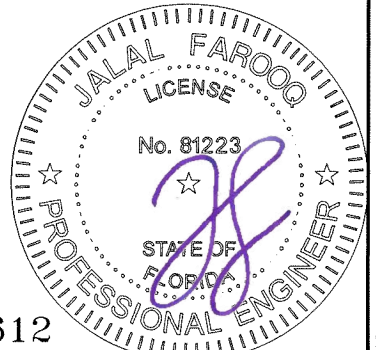
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD 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.

HEAD ANCHORS (AT MEETING STILE END) LOAD CAPACITY - PSF											
ANCHOR TYPE			ANCHOR TYPE 'A'		ANCHOR TYPE 'A1'		ANCHOR TYPE 'B'		ANCHOR TYPE 'B1'		ANCHOR 'C'
MAXIMUM PANEL WIDTH INCHES	MAXIMUM PANEL HEIGHT INCHES	MAXIMUM NUMBER OF PANELS ALLOWED	6 ANCHORS AT MTG. STILE ENDS		8 ANCHORS AT MTG. STILE ENDS		6 ANCHORS AT MTG. STILE ENDS		8 ANCHORS AT MTG. STILE ENDS		6 ANCHORS AT MTG. STILE ENDS
			EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
24	120	10	60.0	60.0	60.0	60.0	52.2	60.0	60.0	60.0	60.0
28		10	60.0	60.0	53.7	60.0	44.7	59.6	55.3	60.0	60.0
32		10	60.0	60.0	47.0	60.0	39.1	52.2	48.4	60.0	60.0
36		10	53.7	60.0	41.8	55.7	34.8	46.4	43.0	57.3	60.0
40		9	48.3	60.0	37.6	50.1	31.3	41.7	38.7	51.6	60.0

NOTE:
 CLUSTER OF (4) ANCHORS TYPE 'A' ARE REQUIRED AT MEETING STILE SILL END FOR ALL CASES.

NOTES:
 FOR DOOR CAPACITY SEE SHEETS 2 & 3
 FOR ANCHOR CAPACITY SEE CHART ABOVE
 LOWER VALUES FROM DOOR CAPACITY OR ANCHOR CAPACITY CHART WILL APPLY TO ENTIRE SYSTEM.



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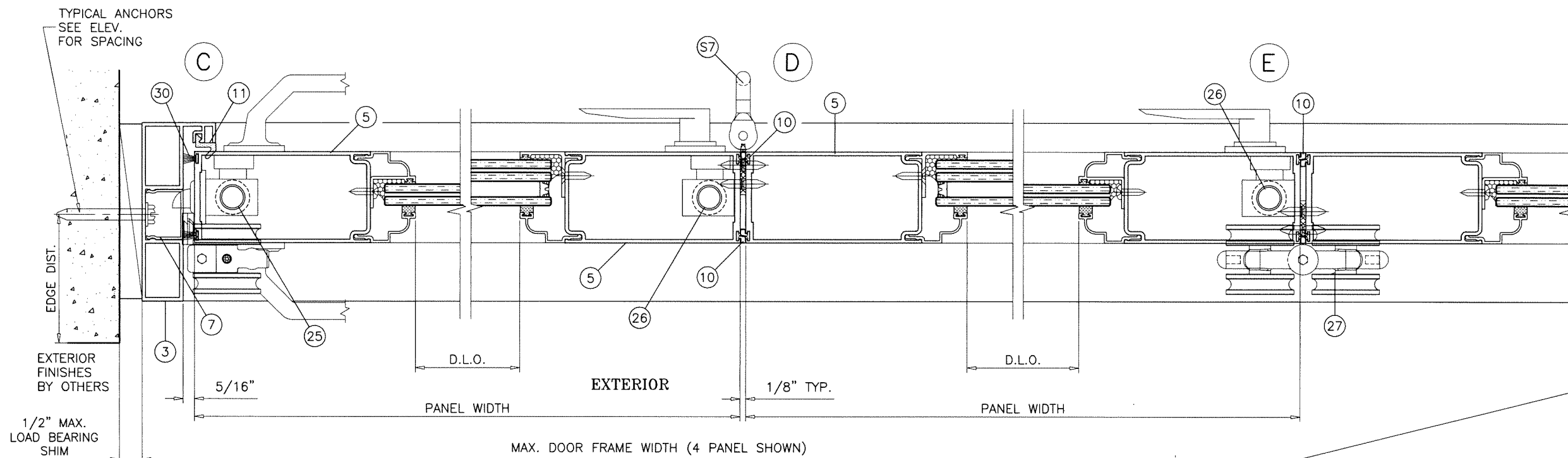
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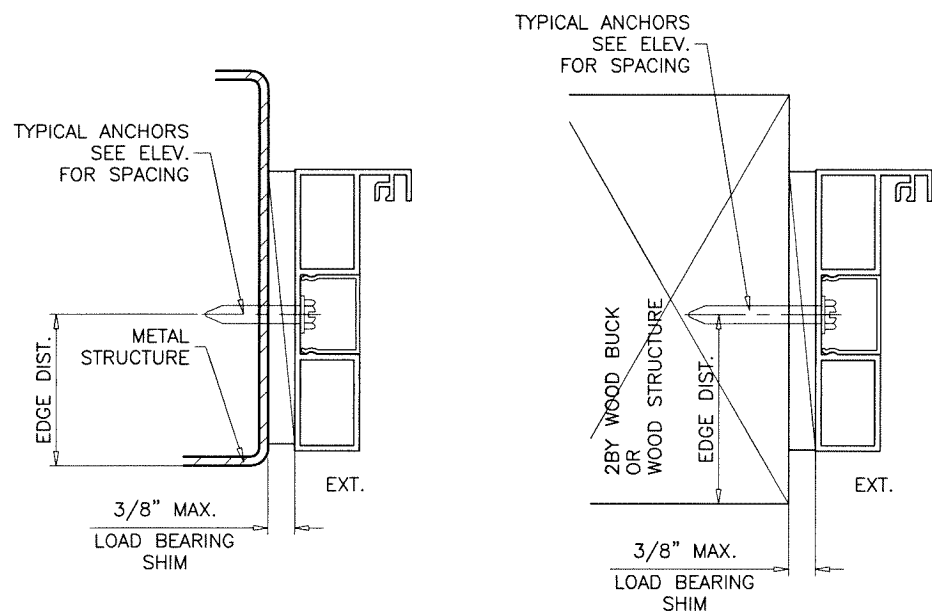
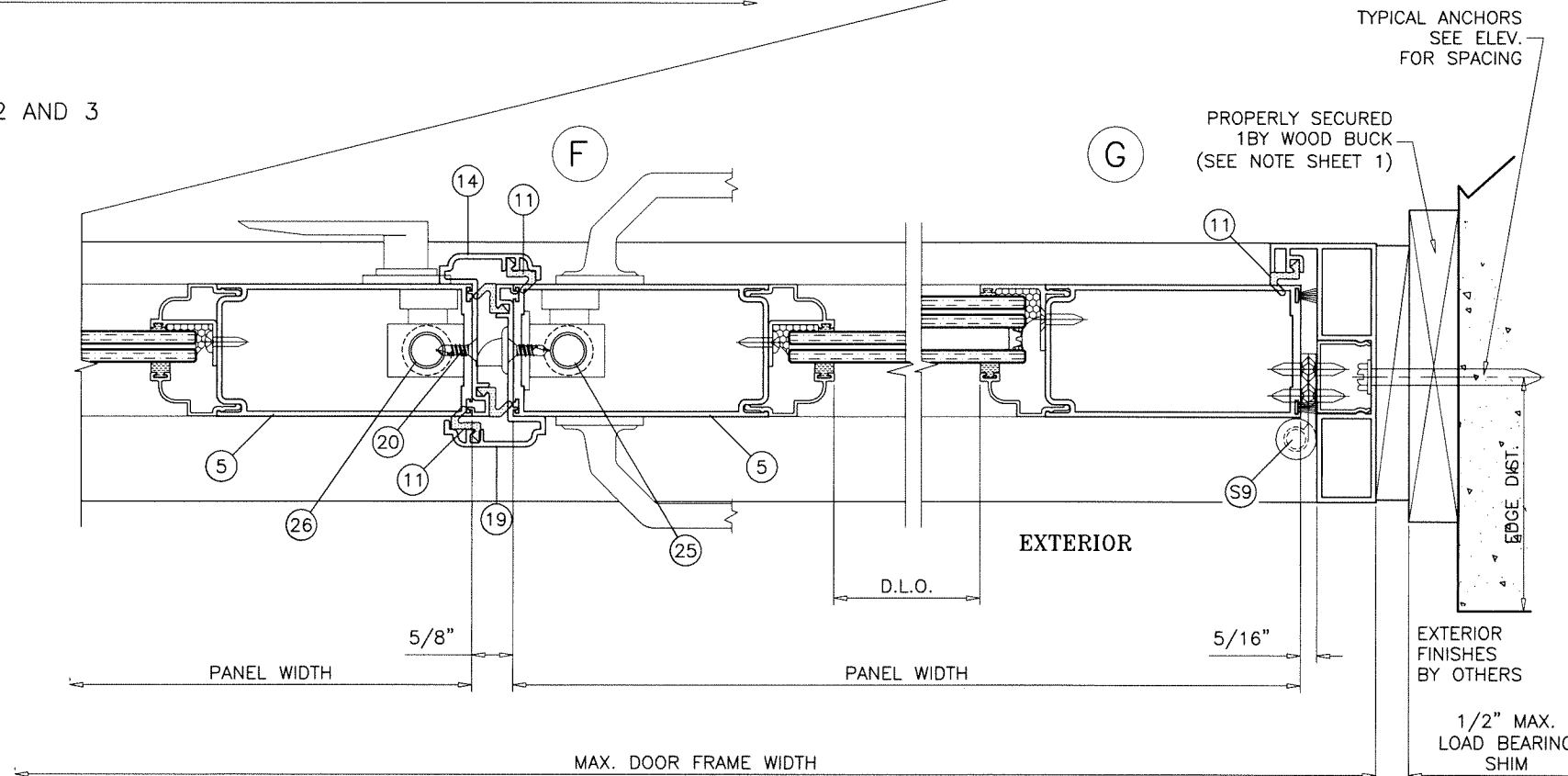
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W16-49
 sheet 5 of 11



FOR 6 PANEL CONFIGURATION SEE SHEETS 2 AND 3



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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW801	1	TOP TRACK	6063-T6	SUPPLIER PER SIW SPEC.
2	SIW802	1	STD. BOTTOM TRACK	6063-T6	SUPPLIER PER SIW SPEC.
2A	SIW804	1	LOW PROFILE BOTTOM TRACK	6063-T6	SUPPLIER PER SIW SPEC.
3	SIW803	2	FRAME JAMB	6063-T6	SUPPLIER PER SIW SPEC.
4	SIW805	2/ PANEL	PANEL TOP RAIL	6063-T6	SUPPLIER PER SIW SPEC.
4A	SIW814	1	PANEL BOTTOM RAIL	6063-T6	SUPPLIER PER SIW SPEC.
5	SIW806	2/ PANEL	PANEL STILE	6063-T6	SUPPLIER PER SIW SPEC.
6	SIW807	AS REQD.	PANEL ALIGNMENT CLIP	6063-T6	SUPPLIER PER SIW SPEC.
7	SIW808	AS REQD.	SILL AND JAMB SNAP COVER	6063-T6	SUPPLIER PER SIW SPEC.
8	SIW809	1/ PANEL	BOTTOM RAIL SWEEP ADAPTER	6063-T6	SUPPLIER PER SIW SPEC.
9	SIW810	1	BOTTOM TRACK LINER	POLYPROPYLENE	DUROMETER 62 SHORE D
10	SIW811	AS REQD.	BULB W'STRIPPING	SOFT PVC	CENTRAL PLASTICS, DUROMETER 67±5 SHRE A
11	U2132	AS REQD.	COMPRESSION W'STRIPPING	Q-LON	SUPPLIER PER SIW SPEC.
12	SIW816	AS REQD.	CHAIR RAIL	6063-T6	SUPPLIER PER SIW SPEC.
14	SIW815	AS REQD.	ASTRAGAL ADAPTER	6063-T6	SUPPLIER PER SIW SPEC.
15	SIW512	AS REQD.	INTERIOR GLASS STOP (LAM. GLASS)	6063-T6	SUPPLIER PER SIW SPEC.
15.1	SIW540	AS REQD.	INTERIOR GLASS STOP SQUARE (LAM. GLASS)	6063-T6	SUPPLIER PER SIW SPEC.
15A	SIW520	AS REQD.	INTERIOR GLASS STOP (INSUL. LAM. GLASS)	6063-T6	SUPPLIER PER SIW SPEC.
16	SIW513	AS REQD.	EXTERIOR GLASS STOP	6063-T6	SUPPLIER PER SIW SPEC.
16.1	SIW541	AS REQD.	EXTERIOR GLASS STOP SQUARE	6063-T6	SUPPLIER PER SIW SPEC.
17	E20216	AS REQD.	INTERIOR GLAZING GASKET (DUROMETER 70±5)	TPE	ULTRAFAB
18	5530	AS REQD.	EXTERIOR GLAZING GASKET (DUROMETER 70±5)	SANTOPRENE	CENTRAL PLASTICS
19	1104-5601-9	AS REQD.	W'STRIPPING SK560-SKIRT	POLYPROPYLENE	SCHLEGEL
20	#8 X 3/4"	AS REQD.	ASTRAGAL SCREWS PH TEKS	-	AT 6" FROM ENDS & 16" O.C.
21	#8 X 1/2"	AS REQD.	GLASS STOP SCREWS SELF DRILLING	-	AT 6" FROM ENDS & 15" O.C.
24	#12 X 1-1/2"	AS REQD.	FRAME AND PANEL ASSEMBLY SCREWS	ST. STEEL	HWH SMS
25	DL01-6014	AS REQD.	THREE POINT LOCK	-	INTERLOCK, USA
26	BF01-6501	AS REQD.	TWO POINT LOCK	-	INTERLOCK, USA
27	SIW830	AS REQD.	LOCKING PINS IN NYLON BUSHINGS	-	-
28	-	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 85±5 SHORE A
29	W33321NG	AS REQD.	FINSEAL W'STRIPPING	-	ULTRAFAB
30	W23201N	AS REQD.	FINSEAL W'STRIPPING	-	ULTRAFAB
S1	BF05-6010-560	AS REQD.	PIVOT SET, SURFACE MOUNT	ST. STEEL	INTERLOCK, USA
S2	BF05-6020-560	AS REQD.	END HANGER SET, SURFACE MOUNT	ST. STEEL	INTERLOCK, USA
S4	BF05-6040-560	AS REQD.	INTERMEDIATE HANGER SET, SURFACE MOUNT	ST. STEEL	INTERLOCK, USA
S7	BF05-6070-560	AS REQD.	OFFSET HINGE HANDLE SET, SURFACE MOUNT	ST. STEEL	INTERLOCK, USA
S9	BF05-6015-560	AS REQD.	JAMB PIVOT HINGE	ST. STEEL	INTERLOCK, USA

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SMALL JOINT SEALER.

LOCKS: (SEE ELEVATIONS FOR LOCK HARDWARE LOCATIONS)

- ②5 3 POINT LOCK SYSTEM (DL01-6014) BY INTERLOCK WITH ACTIVATING HANDLE AT 35-1/2" FROM BOTTOM FASTENED TO STILE WITH (2) #12 X 1/2" FH MACHINE SCREWS HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS ENGAGING AT HEAD AND SILL 1/2" DIA. BULLET TIPS SHOOT BOLTS CONNECTED TO LOCK WITH 5/16" DIA. THREADED RODS
- ②6 2 POINT LOCK SYSTEM (BF01-6501) BY INTERLOCK WITH ARIA BIFOLD ACTIVATING HANDLE (BF01-6514) AT 36-1/4" FROM BOTTOM FASTENED TO STILE WITH (2) #10 X 3/4" TEKS HANDLE ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL 1/2" DIA. BULLET TIPS SHOOT BOLTS CONNECTED TO LOCK WITH 5/16" DIA. THREADED RODS
- ②7 1/2" DIA. BULLET TIP LOCKING PINS AT 20" AND 88" FROM BOTTOM ENGAGING IN 5/8" DIA. RECEIVING HOLES WITH NYLON BUSHING (#2550-HDG) BY 'MASSOUD & BROS.' IN OPPOSITE PANELS



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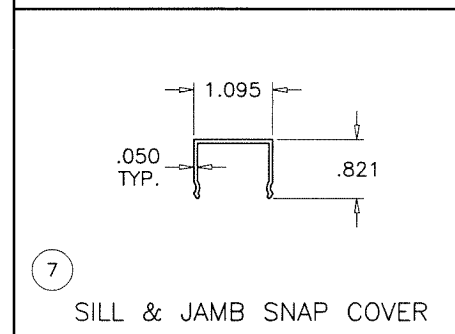
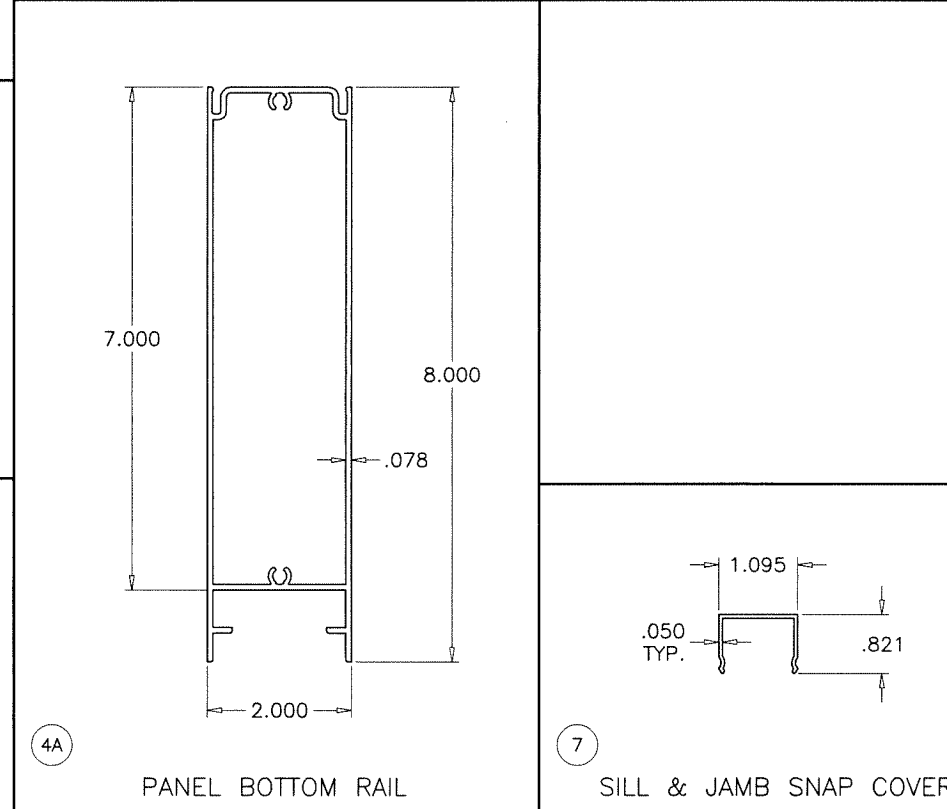
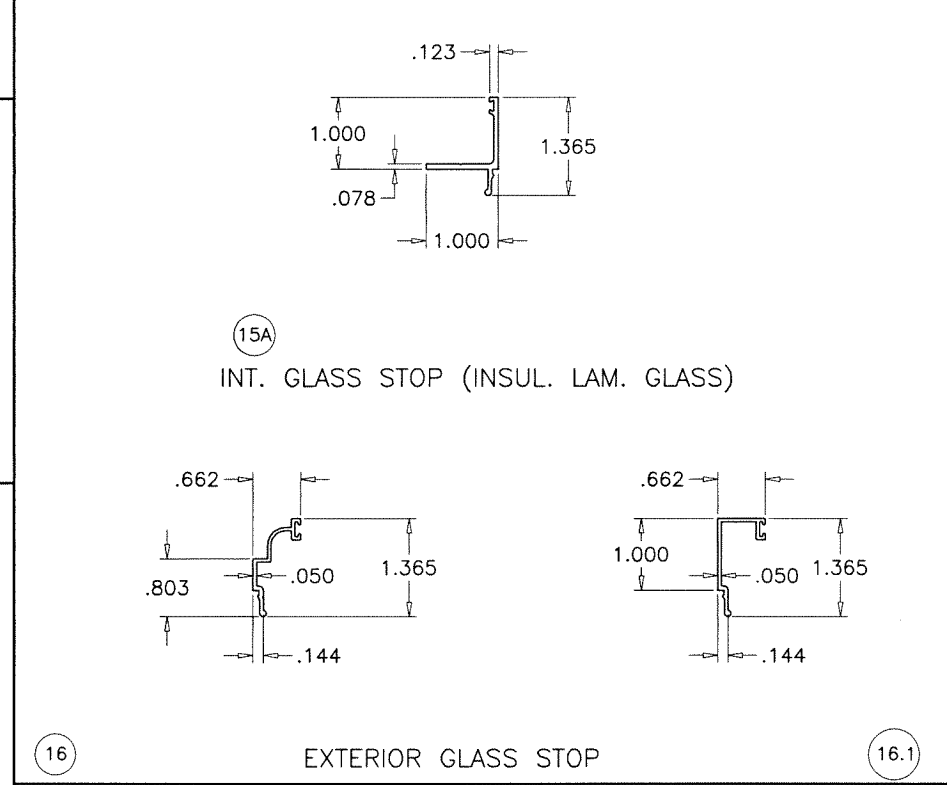
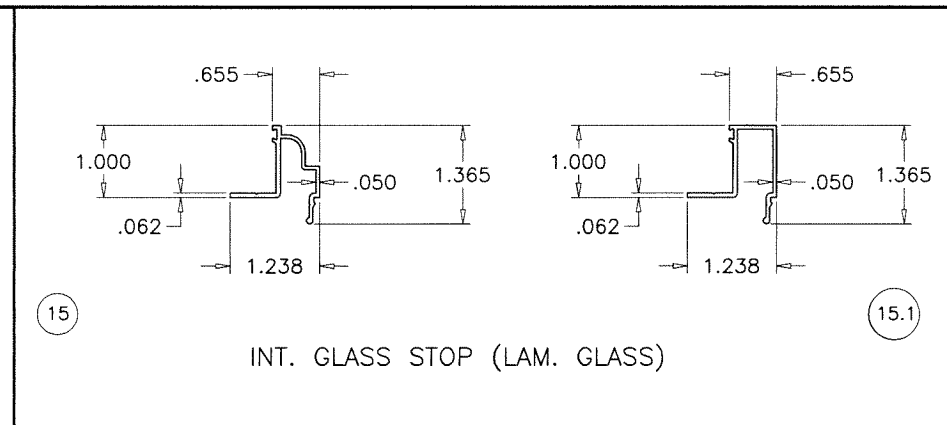
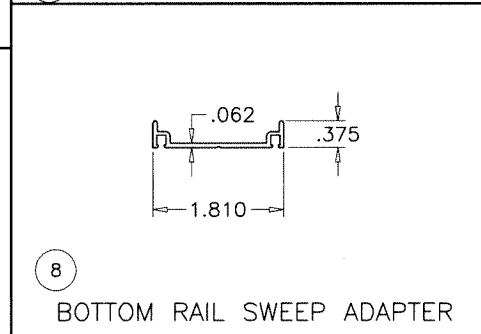
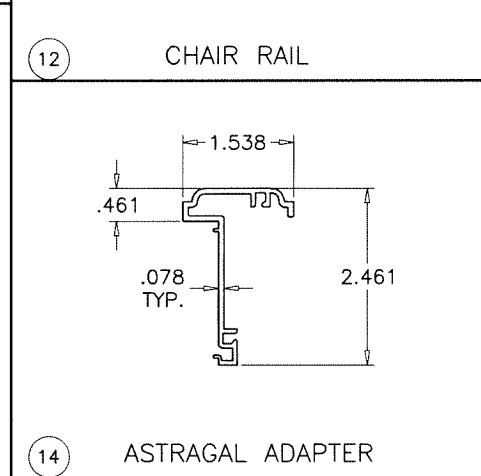
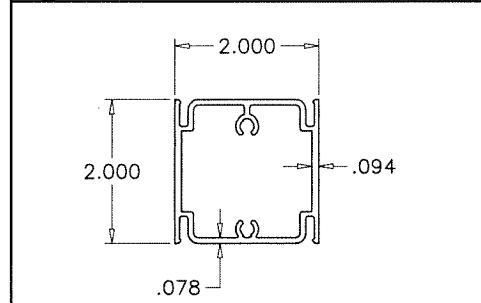
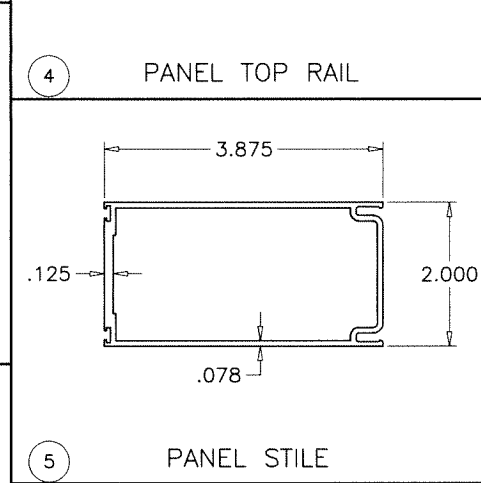
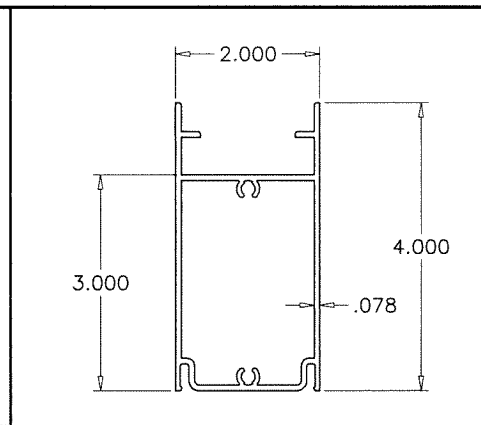
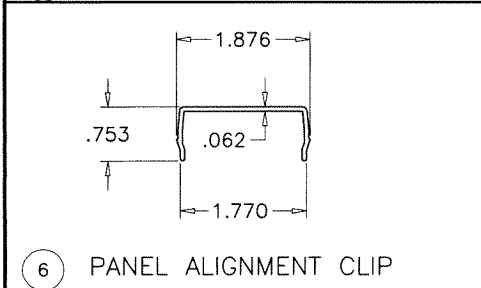
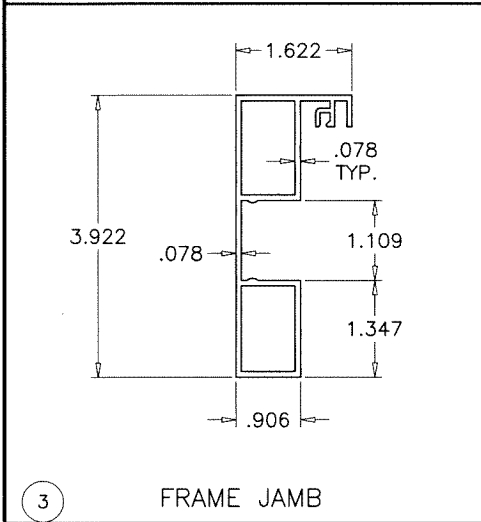
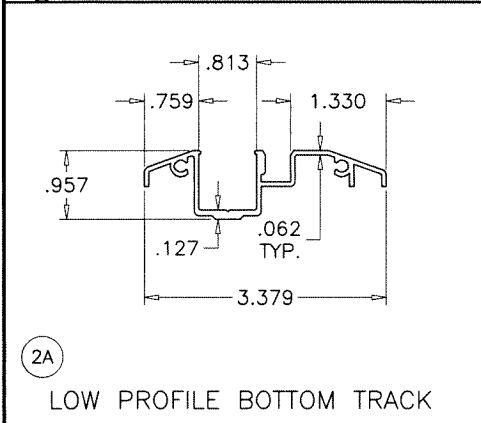
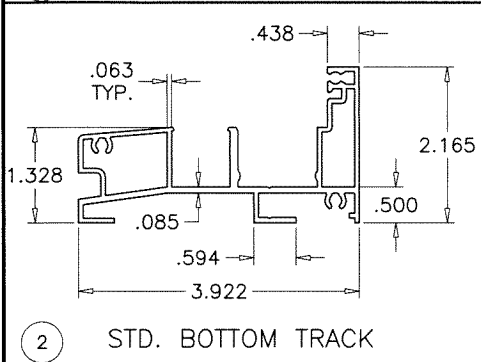
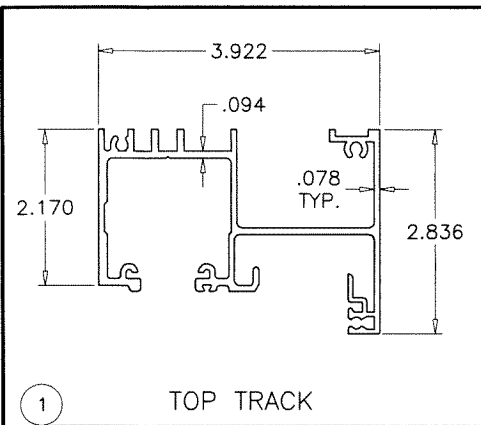
Coastline Bi-Fold Door IZ4 (10')

MARVIN
 PO Box 100, 401 State Ave. N.
 Warroad, MN. 56763
 Tel. (218) 386-1430 Ext. 2143

no	date	by	description

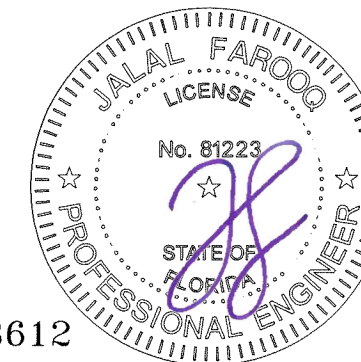
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 dr. by: TARIQ
 chk. by:

drawing no.
W16-49
 sheet 7 of 11



Sealed: 7/25/2023

FL #33612

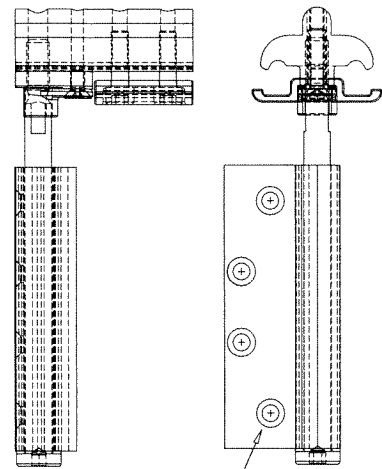


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 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978
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Coastline Bi-Fold Door IZ4 (10')
MARVIN
 PO Box 100, 401 State Ave. N.
 Warroad, MN. 56763
 Tel. (218) 386-1430 Ext. 2143

no	date	by	description

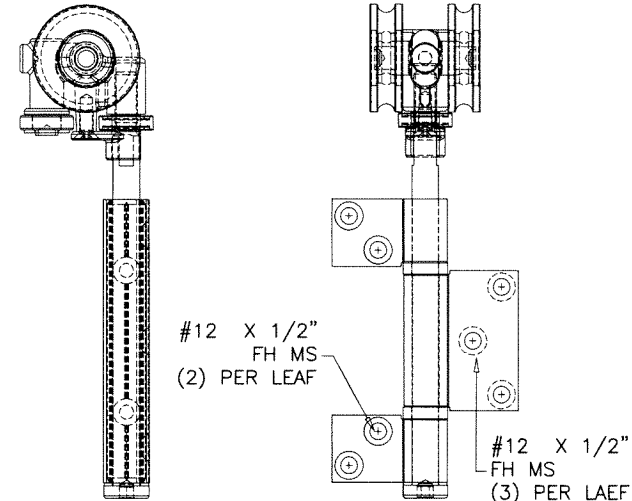
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 chk. by:
 drawing no.
W16-49
 sheet 8 of 11



(4) #12 X 1/2" FH MS

S1

PIVOT SET

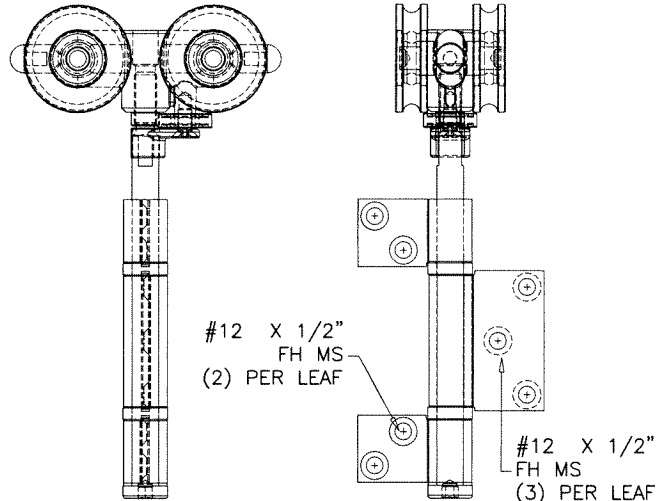


#12 X 1/2" FH MS (2) PER LEAF

#12 X 1/2" FH MS (3) PER LEAF

S2

END HANGERS SET



#12 X 1/2" FH MS (2) PER LEAF

#12 X 1/2" FH MS (3) PER LEAF

S4

INTERMEDIATE HANGERS SET

#12 X 1/2" FH MS (2) PER LEAF

#12 X 1/2" FH MS (3) PER LEAF

S7

OFFSET HINGE HANDLE SET

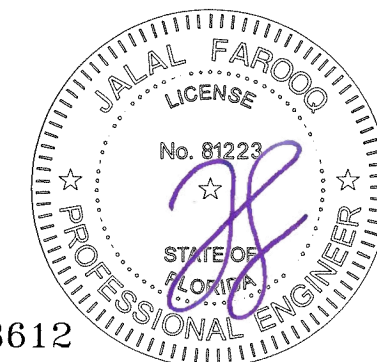
S9

INTERMEDIATE HINGE

SEE ELEVATIONS FOR HARDWARE LOCATIONS

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FL #33612



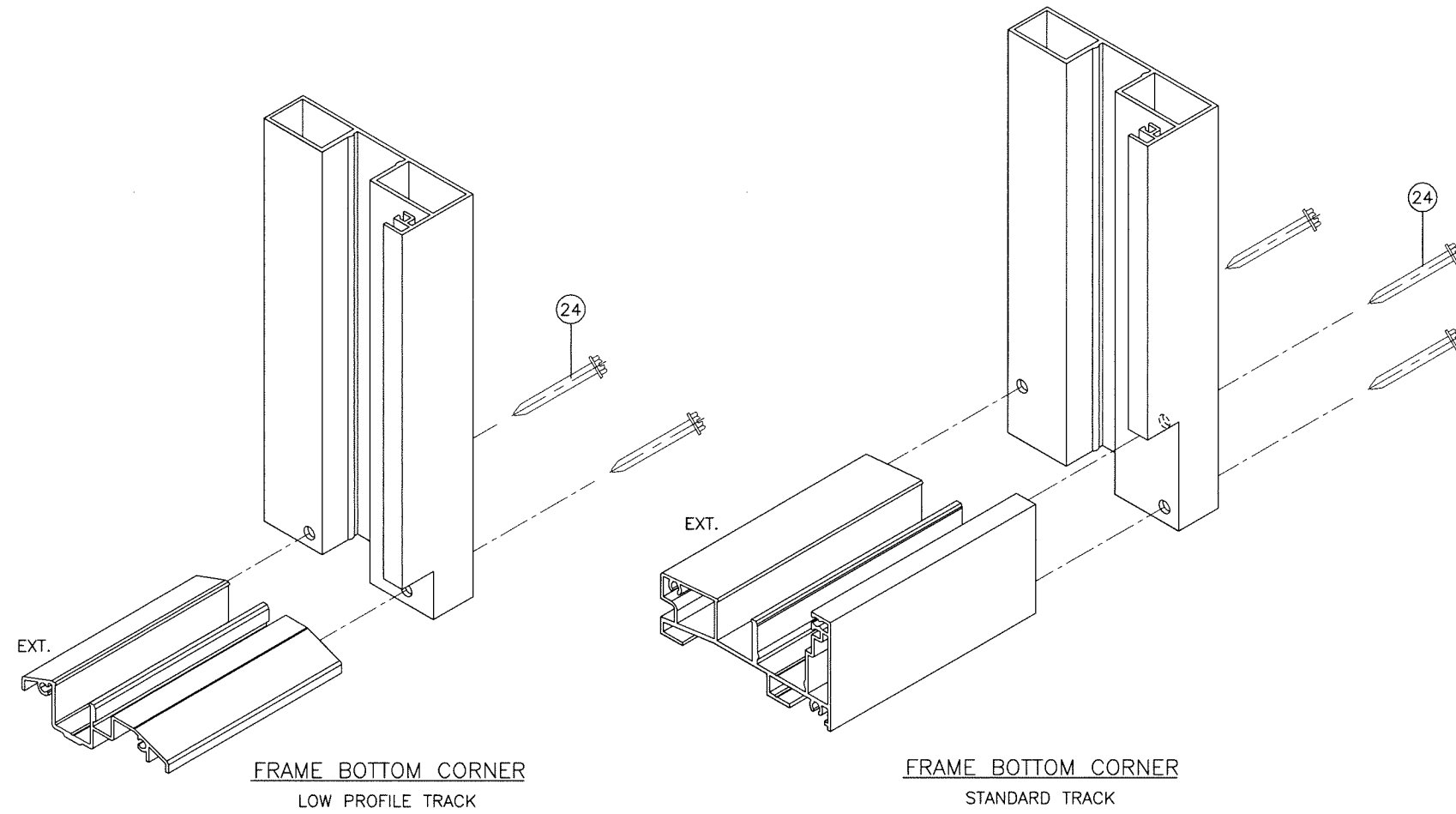
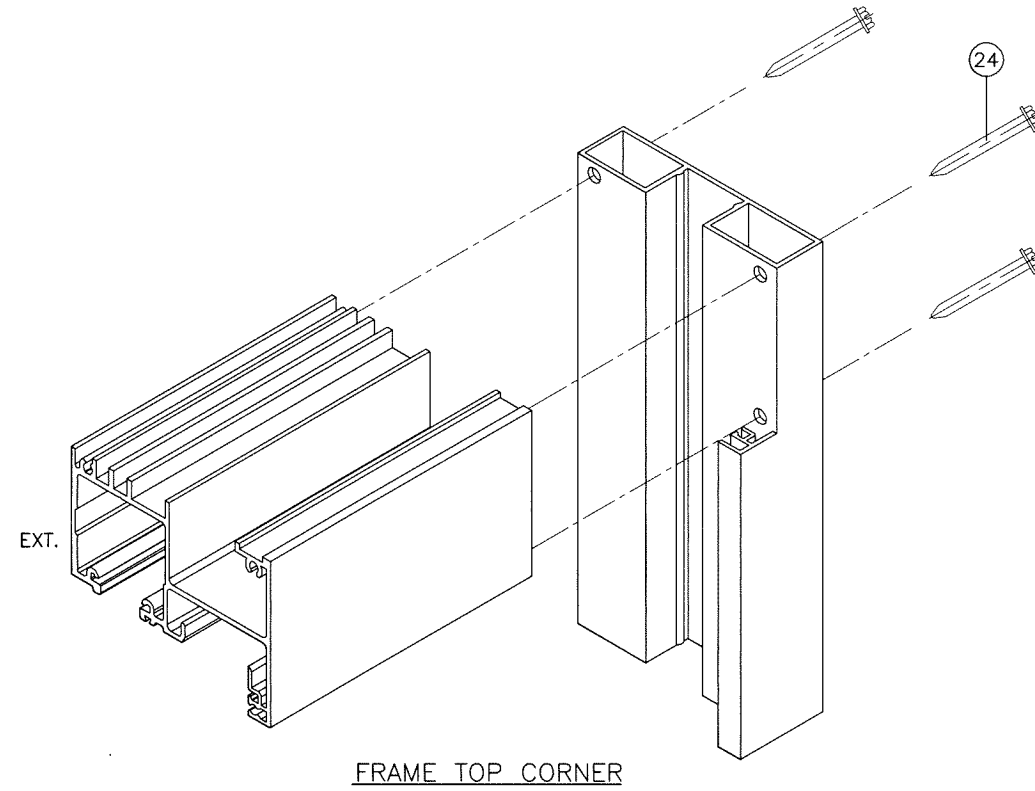
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 chk. by:

drawing no.
W16-49
 sheet 9 of 11

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Coastline Bi-Fold Door IZ4 (10')
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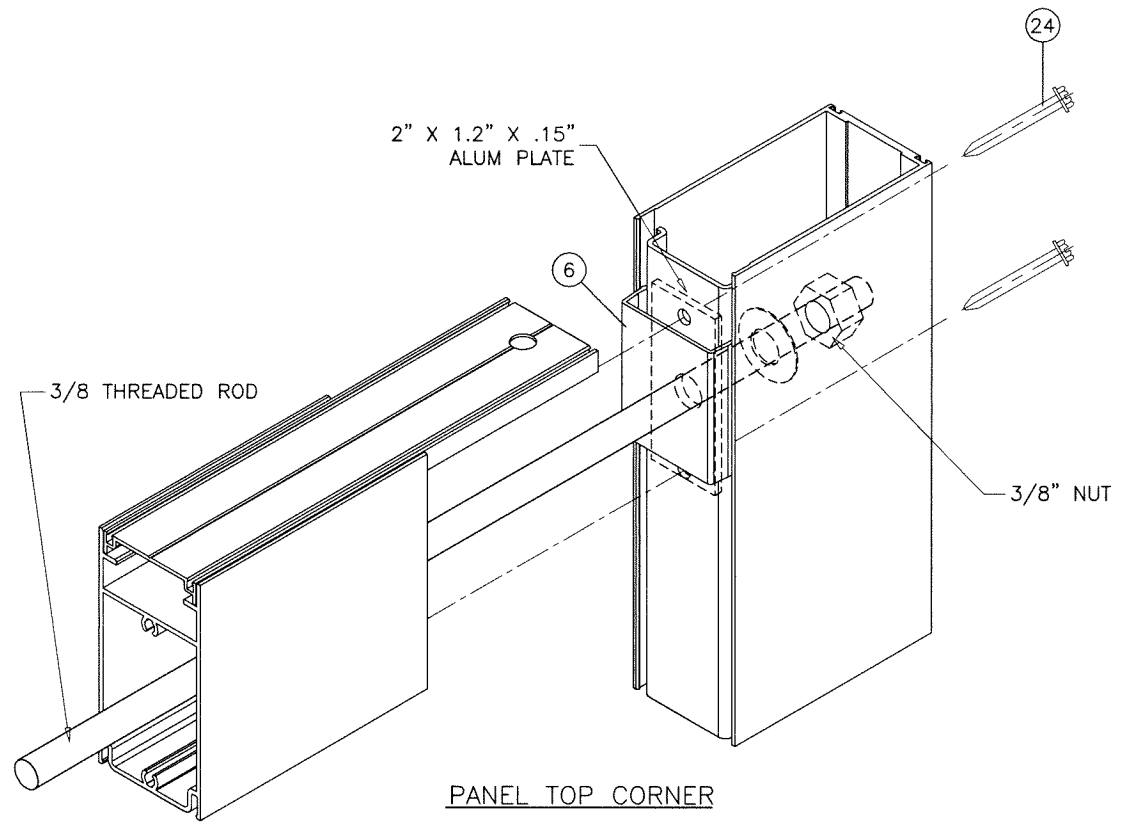
MARVIN
 PO Box 100, 401 State Ave. N.
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no	date	by	description

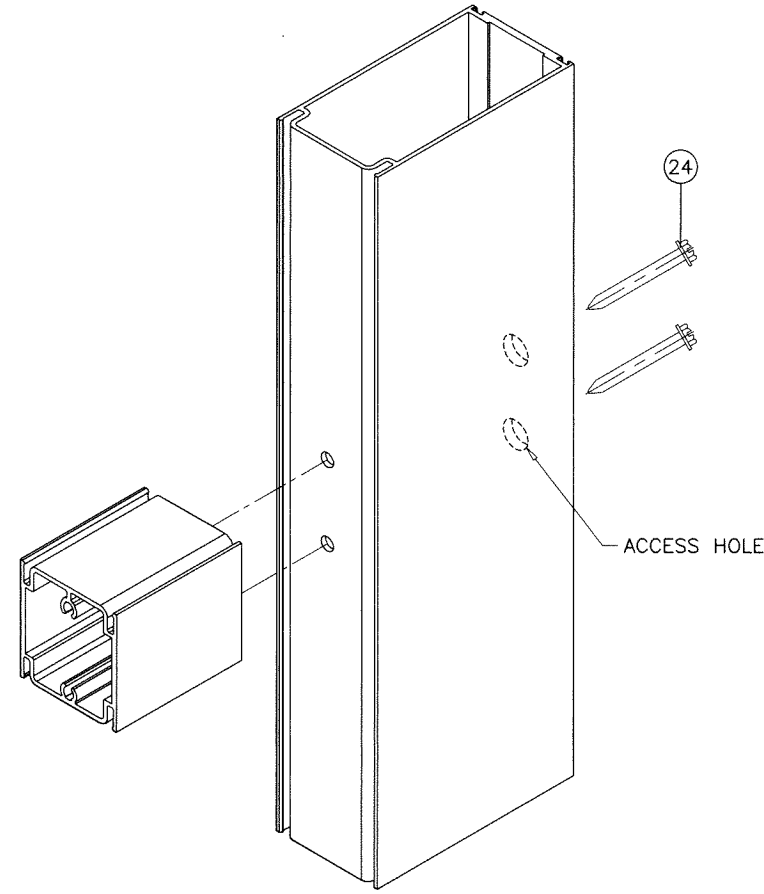
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 chk. by:

drawing no.
W16-49
 sheet 10 of 11

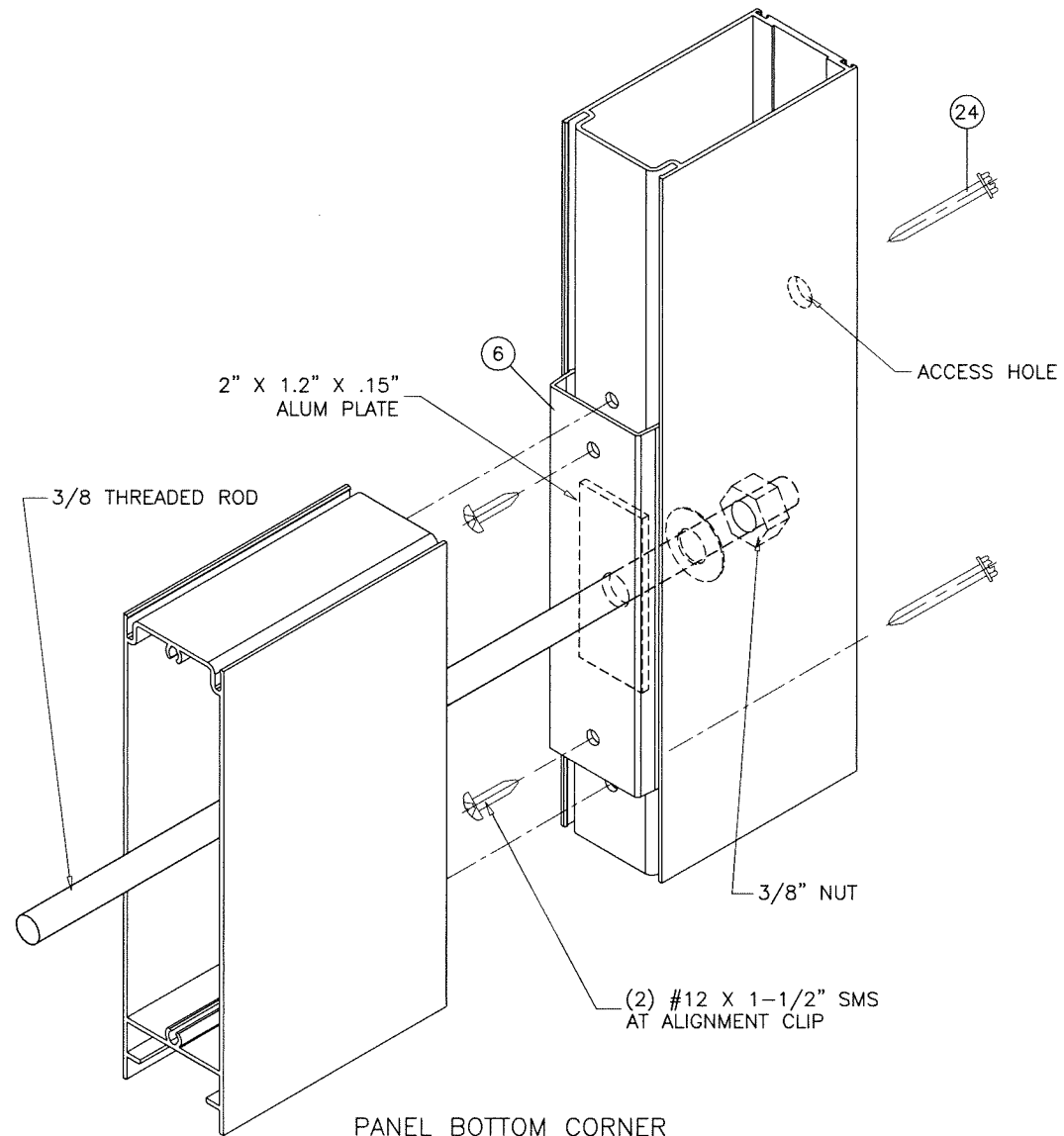
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PANEL TOP CORNER



CHAIR RAIL CORNER



PANEL BOTTOM CORNER

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Coastline Bi-Fold Door IZ4 (10')



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revisions:	no	date	by	description

date: 06-08-16
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W16-49
 sheet 11 of 11