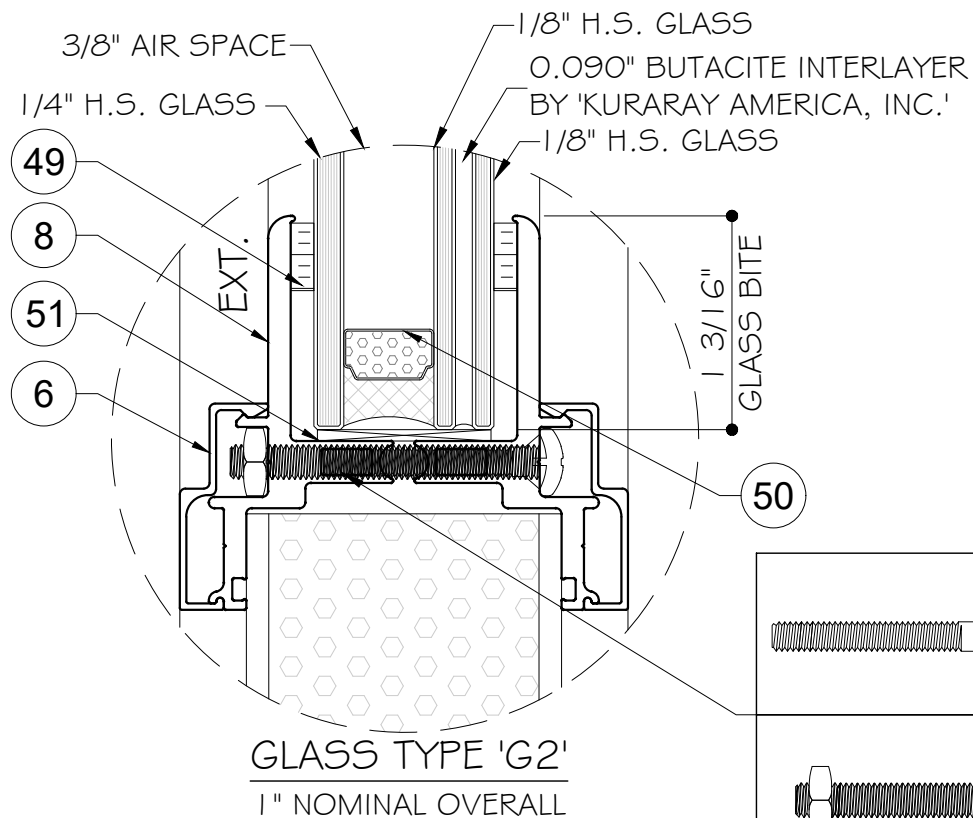
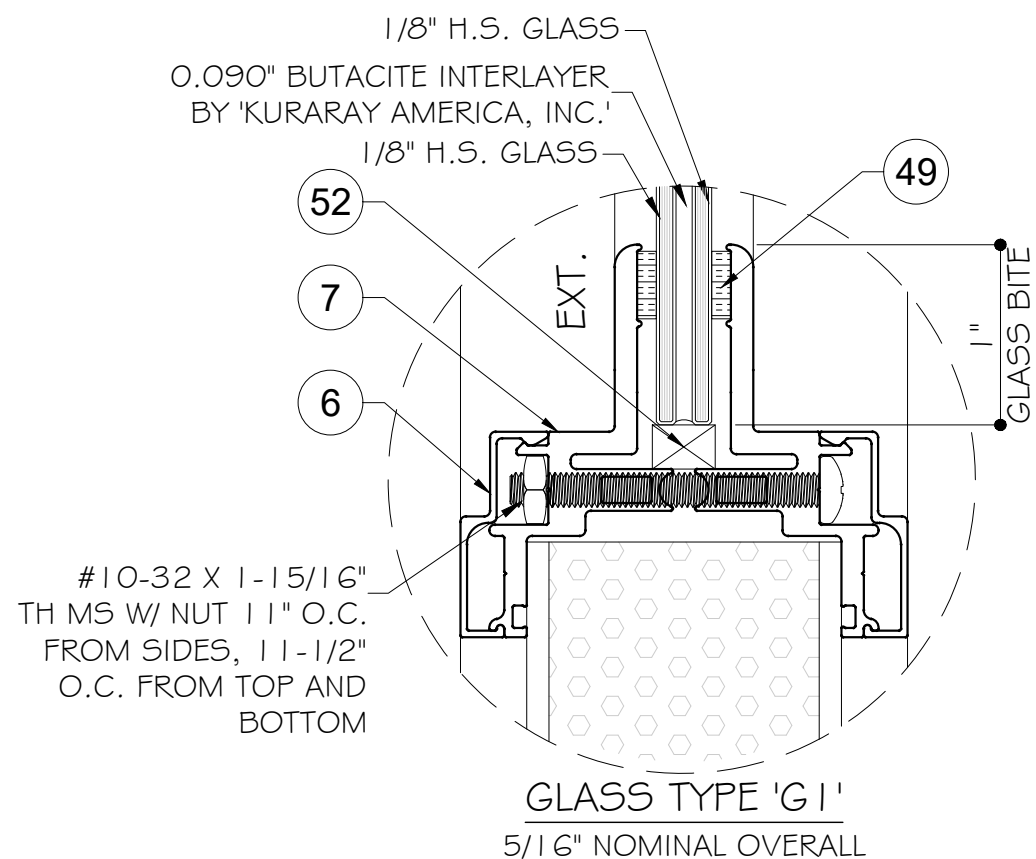
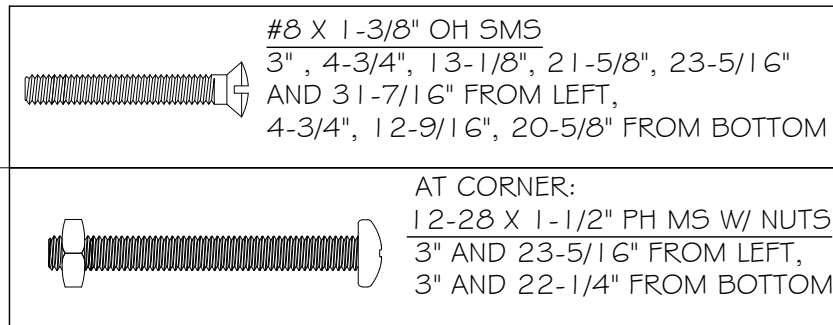


SPECIAL-LITE, INC. FIBERGLASS FRAME OUTSWING DOORS LARGE AND SMALL MISSILE IMPACT (LMI & SMI)



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

NOTES:
EGRESS REQUIREMENTS TO BE
REVIEWED BY BUILDING OFFICIAL.
ALL OPENINGS PASSED WITH WATER
INFILTRATION.

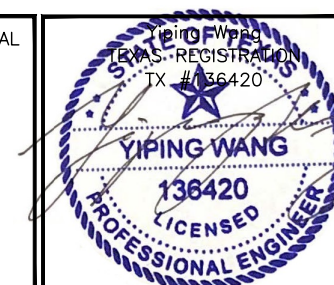


SERIES 217, 100 & 220 FIBERGLASS OUTSWING DOOR (LMI & SMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND 2018 INTERNATIONAL RESIDENTIAL CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
- DOORS ARE APPROVED FOR WATER AND AIR 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 2018 INTERNATIONAL BUILDING CODE AND 2018 INTERNATIONAL RESIDENTIAL CODE SECTION AS APPLICABLE.

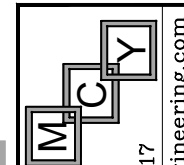
- METAL STRUCTURES NOT BY SPECIAL LITE, INC. MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE
- 1X OR 2X WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- DOOR FRAME: PULTRUDED FIBERGLASS
- DOOR PANEL: 0.120" SANDSTONE FRP OR PULTRUDED FIBERGLASS
- ULTIMATE LOAD OBTAINED FROM ASCE 7-16, 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.
- LOCK:
REFER TO PAGE HW1 AND HW2 FOR LOCK OPTIONS.

PRODUCT CONTROL APPROVAL



November 4th, 2021 11 OF 11

NO.	DATE	DESCRIPTION



MCY ENGINEERING, INC.
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www.MCYEngineering.com
MCY@MCYEngineering.com

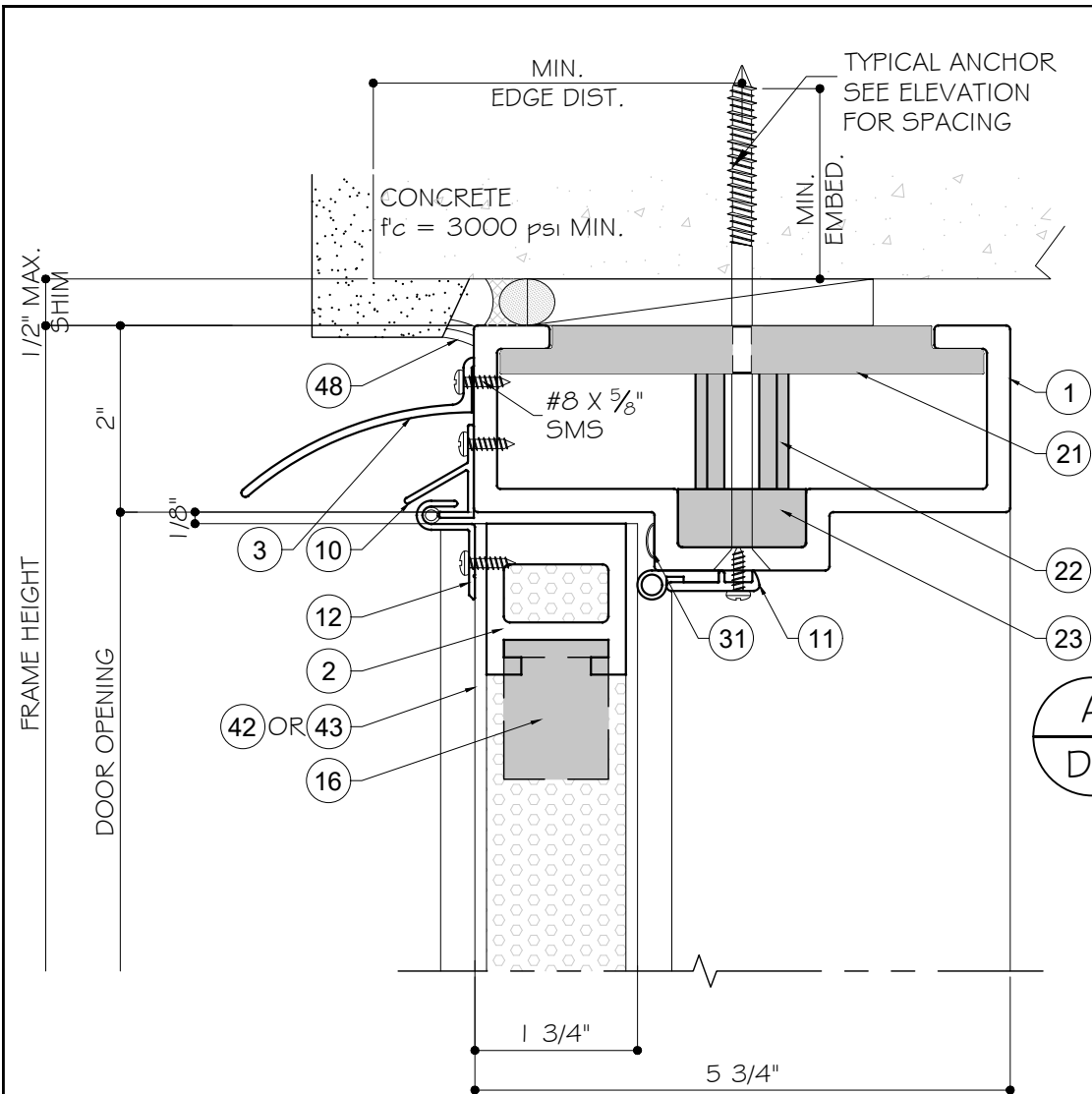
FIBERGLASS FRAME OUTSWING DOOR WITH SKIN (LMI & SMI)
SPECIAL-LITE, INC.
860 SOUTH WILLIAMS STREET
P.O. BOX 6
DECATUR, MI 49045
WWW.SPECIAL-LITE.COM



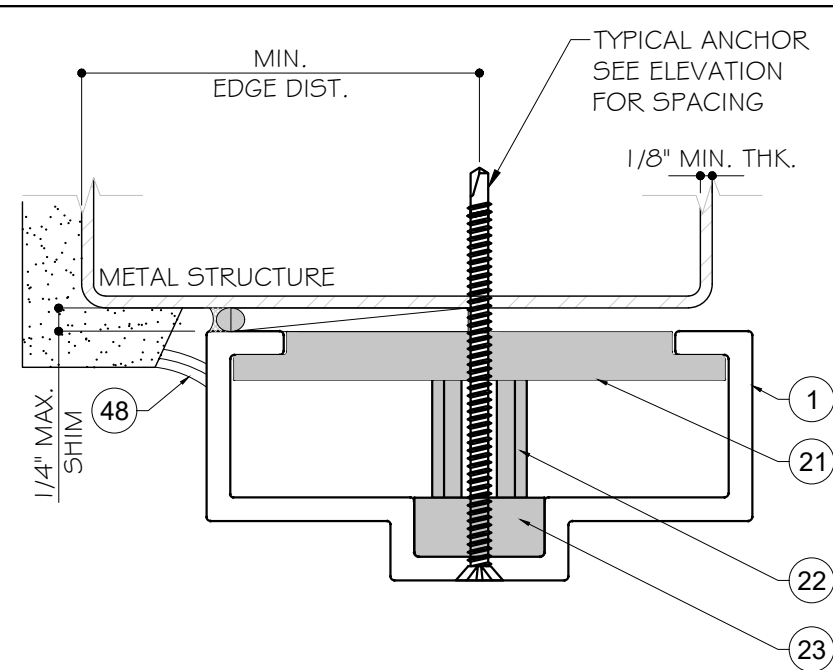
COVER

DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049

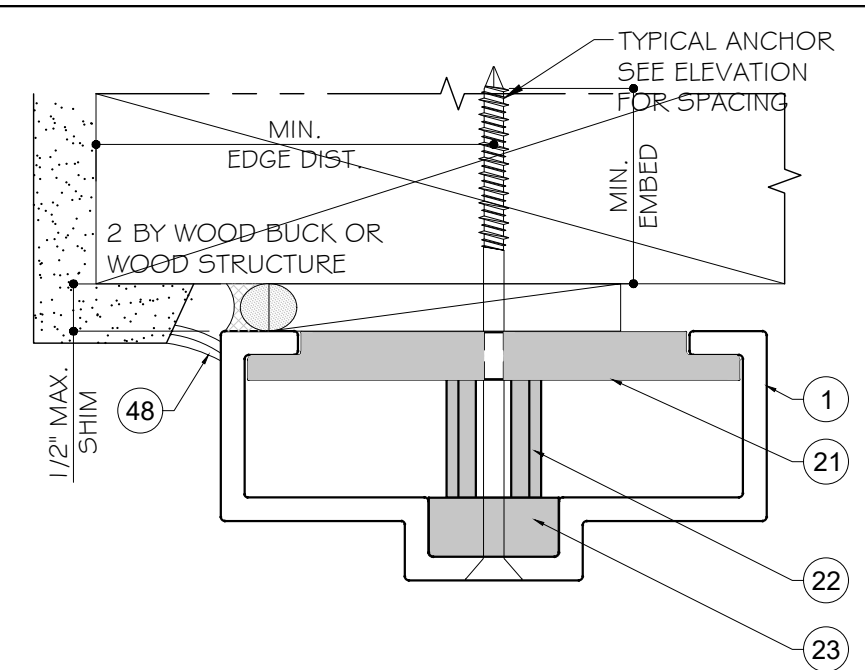
DRAWING NO.
TA17-03



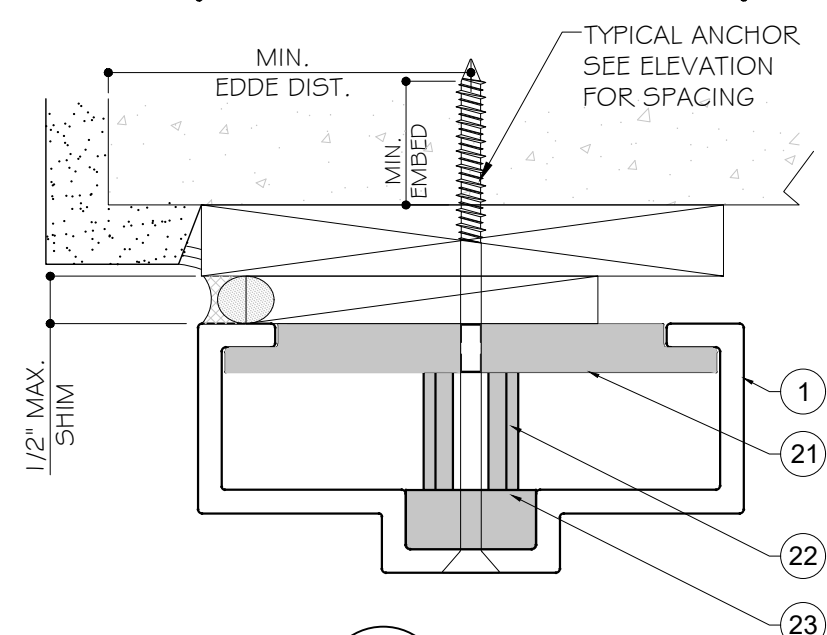
A
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DETAIL



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DETAIL
OPTION



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OPTION



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DETAIL
OPTION

TYPICAL ANCHORS:

(SEE ELEVATIONS FOR SPACING)

TYPE 'A': 1/4" DIA. ITW TAPCON (Fu=120 KSI, Fy=92 KSI)
 1-1/2" MIN. EMBED INTO WOOD STRUCTURE
 OR THRU 1X OR 2X WOOD BUCK INTO CONCRETE / MASONRY
 1-1/2" MIN. EMBED INTO CONCRETE / MASONRY

TYPE 'B': 1/4" DIA. DEWALT ULTRACON+ (Fu=164 KSI, Fy=148 KSI)
 1-1/2" MIN. EMBED INTO WOOD STRUCTURE
 OR THRU 1X OR 2X WOOD BUCK INTO CONCRETE / MASONRY
 1-1/2" MIN. EMBED INTO CONCRETE / MASONRY

TYPE 'C': #14 SMS OR TEKS SELF DRILLING SCREW (GRADE 5)
 INTO METAL STRUCTURE

SUBSTRATE:

CONCRETE: fc=3 KSI MIN. (HEAD/SILL OR JAMB)
 MASONRY: fc= 2KSI MIN. (JAMB ONLY)
 WOOD: SG=0.55 MIN. (HEAD/JAMB)
 STEEL: 1/8" MIN. THK., A36 MIN. (HEAD/JAMB)

TYPICAL EDGE DISTANCE:

INTO CONCRETE / MASONRY: 2-1/2" MIN.
 INTO WOOD: 1" MIN.
 INTO METAL: 3/4" MIN.

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 SPECIAL-LITE, INC.
 860 SOUTH WILLIAMS STREET
 P.O. BOX 6
 DECATUR, MI 49045
 WWW.SPECIAL-LITE.COM

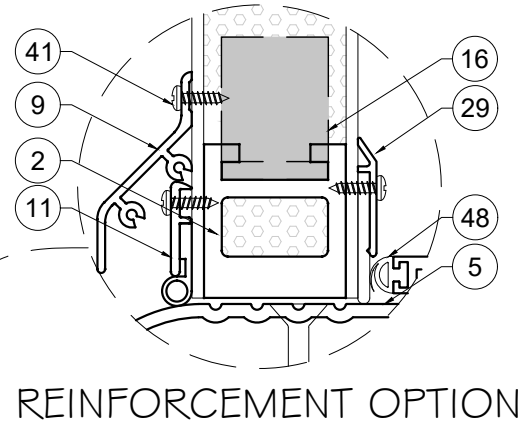
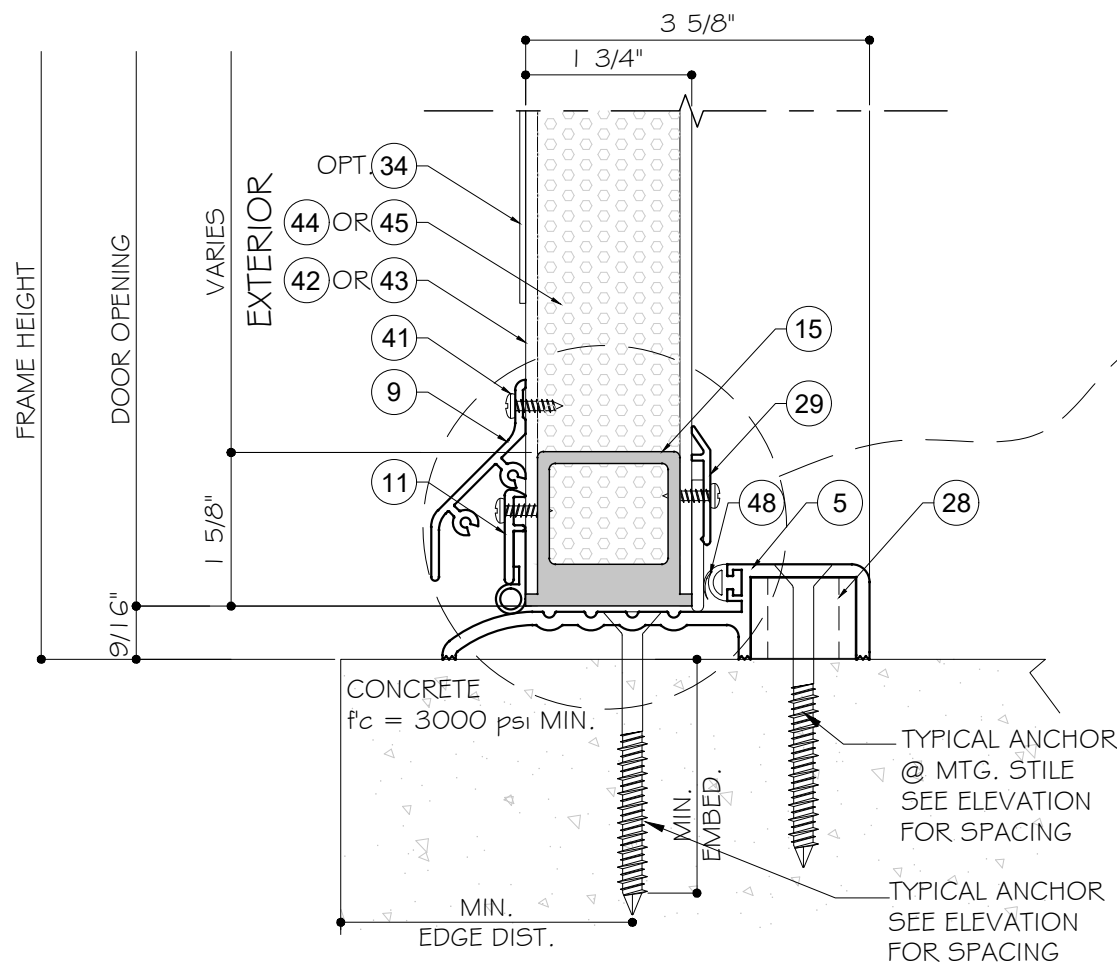


PRODUCT CONTROL APPROVAL



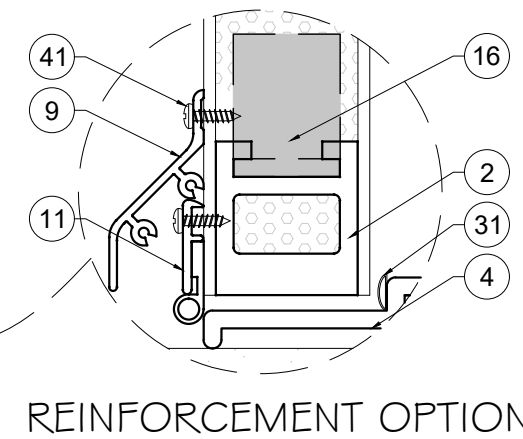
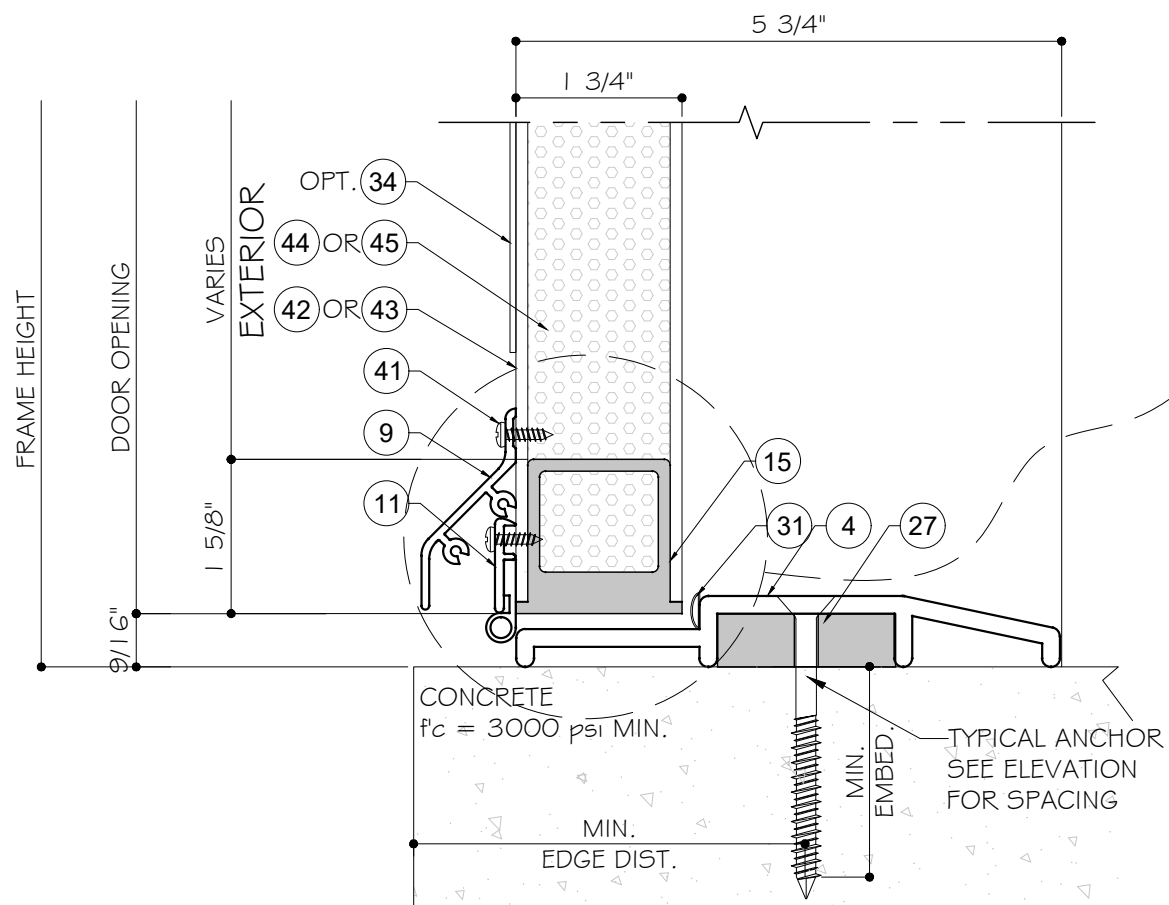
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DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049

DRAWING NO.
TA17-03



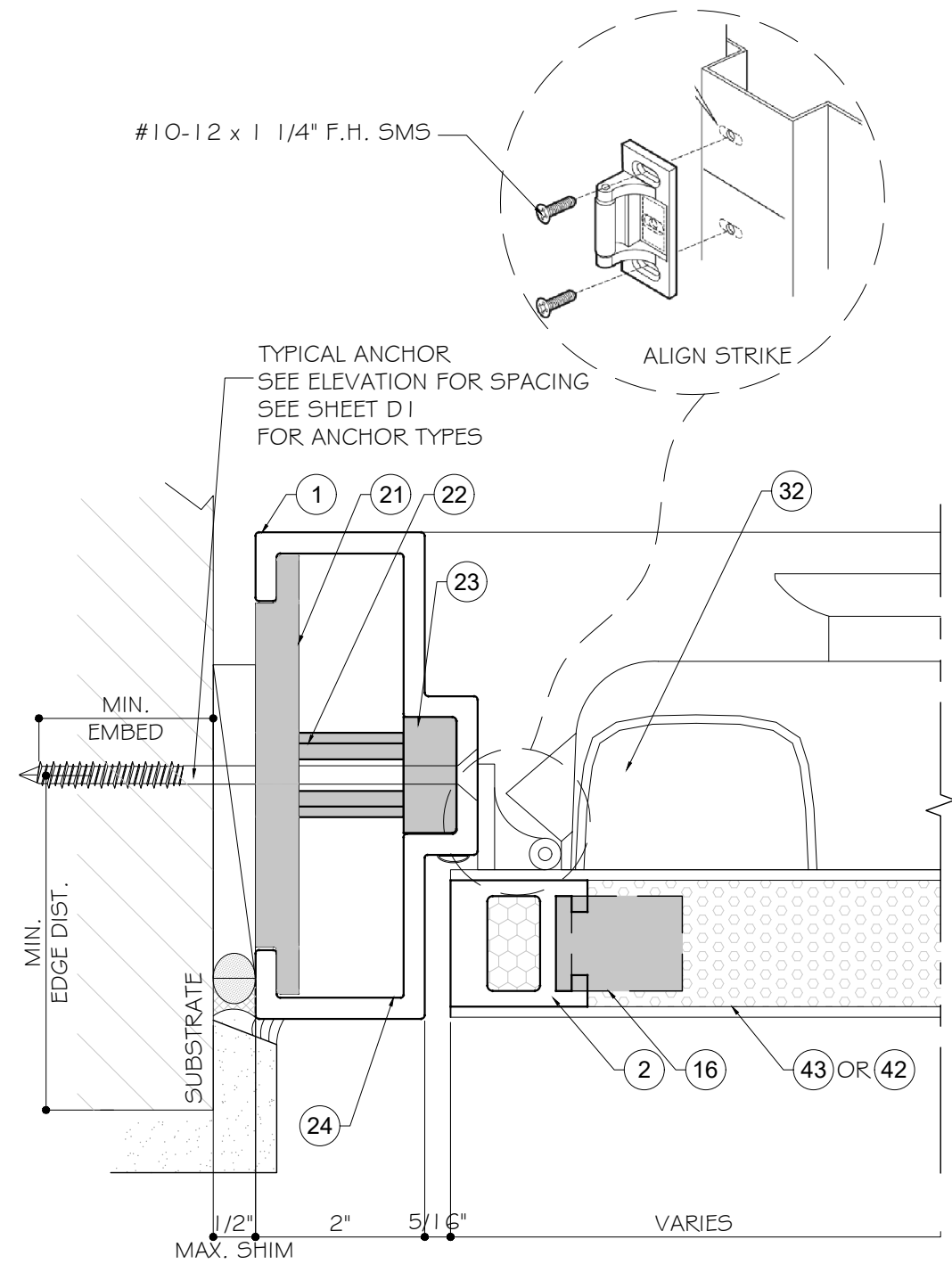
REINFORCEMENT OPTION

F DETAIL
D2 SILL TYPE 1



REINFORCEMENT OPTION

F DETAIL
D2 SILL TYPE 2



M DETAIL
D2

PRODUCT CONTROL APPROVAL



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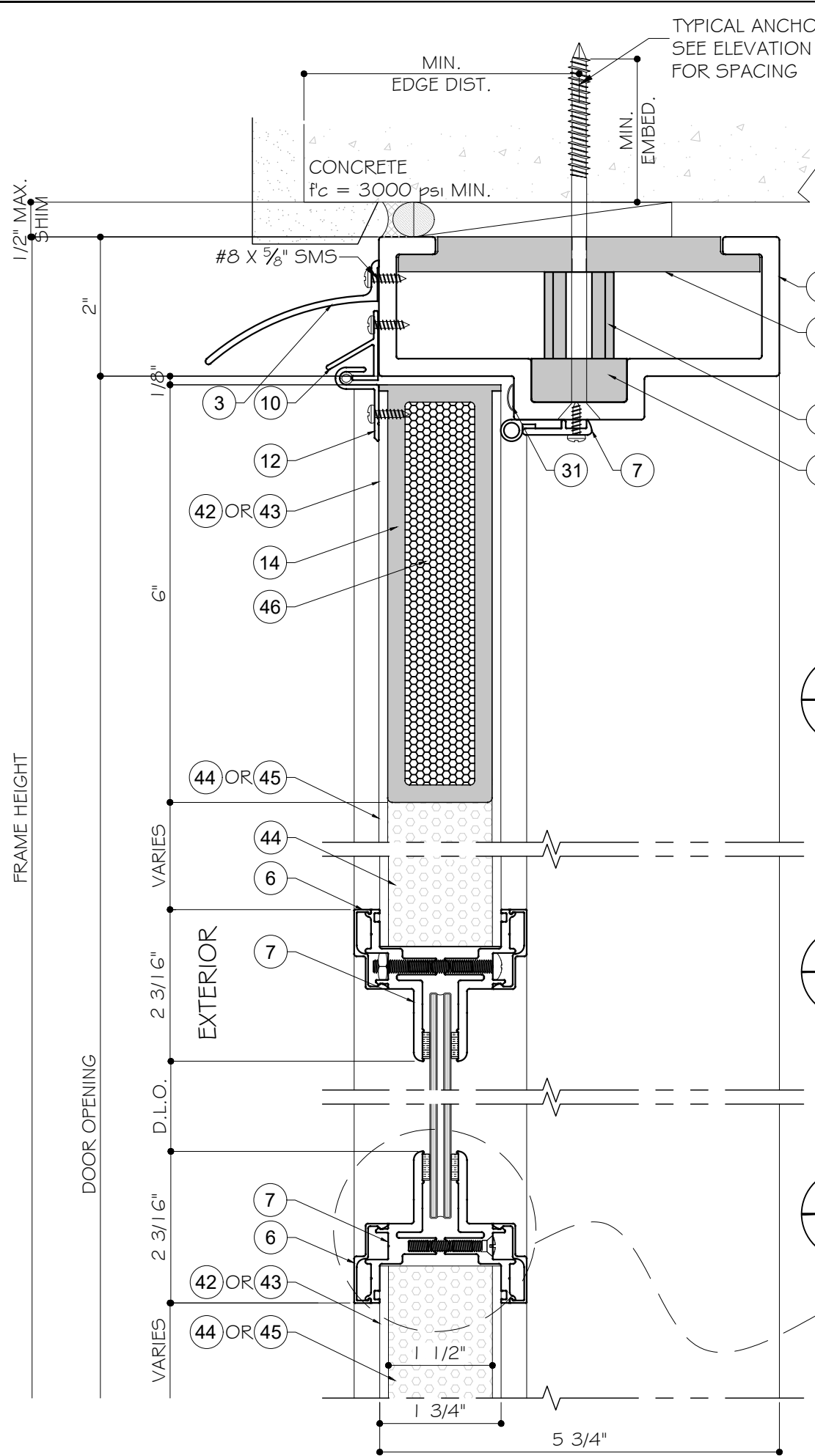
FIBERGLASS FRAME OUTSWING DOOR WITH SKIN (LMI & SMI)

SPECIAL-LITE, INC.
860 SOUTH WILLIAMS STREET
P.O. BOX 6
DECATUR, MI 49045
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D2	
DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049

DRAWING NO.
TA17-03

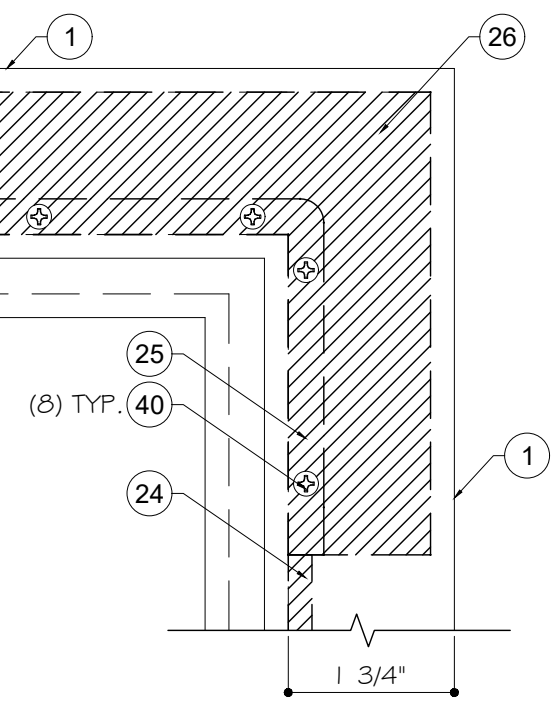
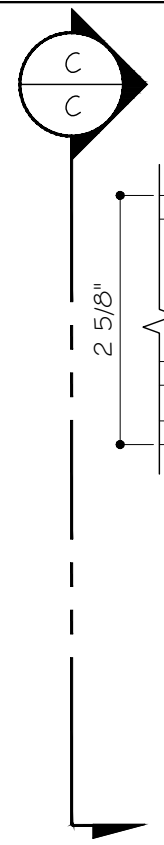


B
D3
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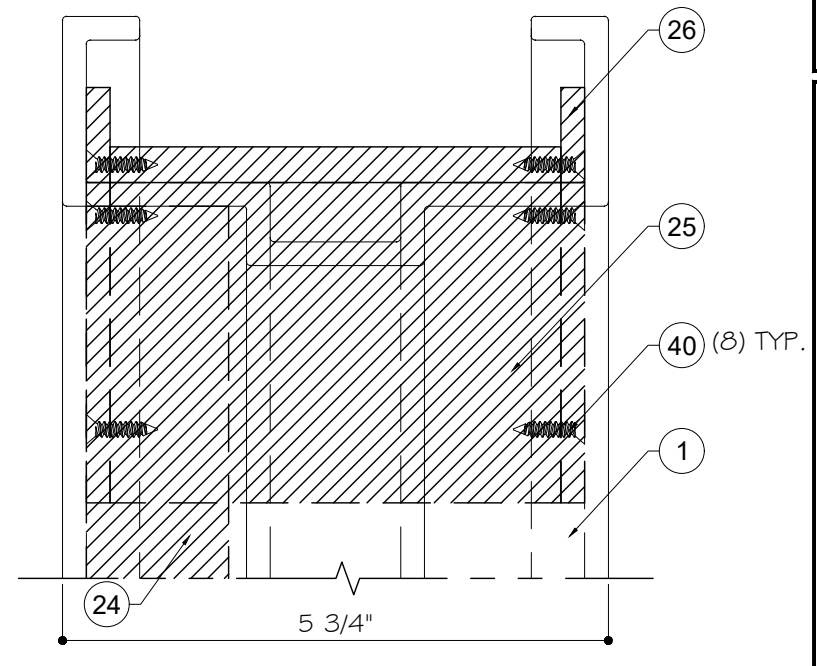
C
D3
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D
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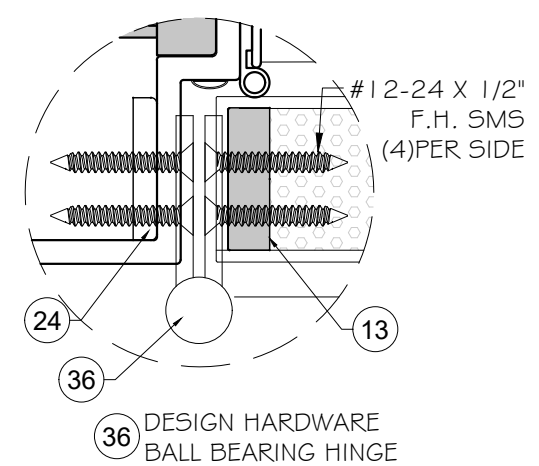
GLASS OPTIONS INTERCHANGEABLE.
SEE COVER SHEET FOR GLAZING
OPTIONS.



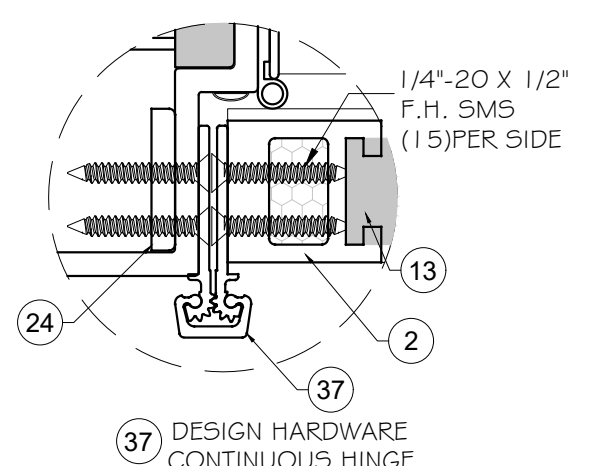
E
D3
DETAIL



SECTION C-C



36 DESIGN HARDWARE
BALL BEARING HINGE



37 DESIGN HARDWARE
CONTINUOUS HINGE

HINGE OPTIONS

PRODUCT CONTROL APPROVAL



November 4th, 2021 15 OF 11

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GLAZING CONSULTANTS
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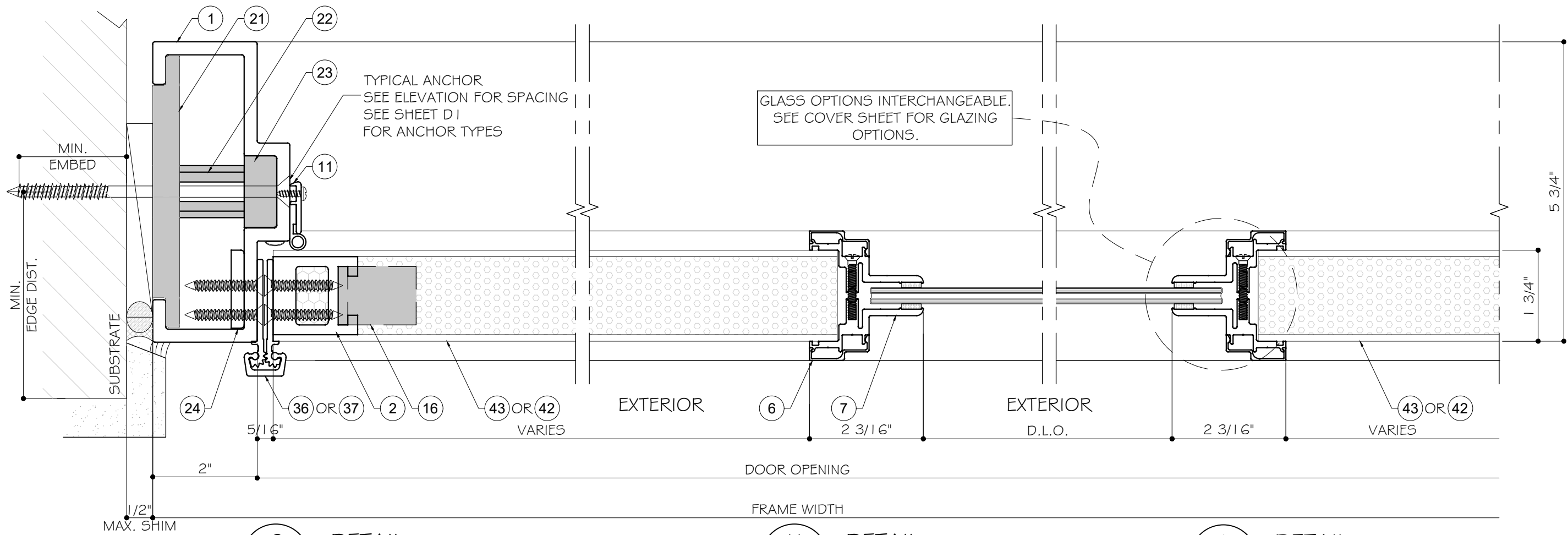
FIBERGLASS FRAME OUTSWING DOOR WITH SKIN (LMI & SMI)
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D3

DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049

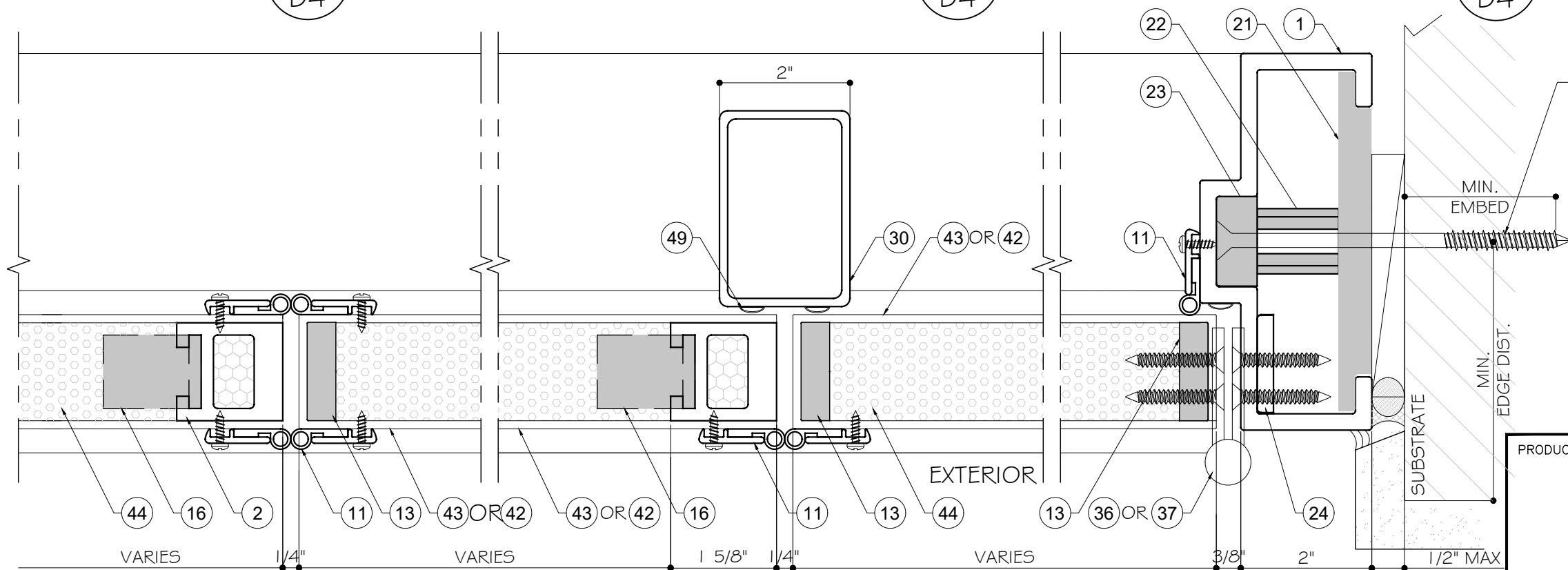
DRAWING NO.
TA17-03



G
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J
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K
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DETAIL

L
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DETAIL

PRODUCT CONTROL APPROVAL



November 4th, 2016 OF 11

NO.	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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D4	
DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049
DRAWING NO. TA17-03	

HARDWARE:

DOOR OPTION 1

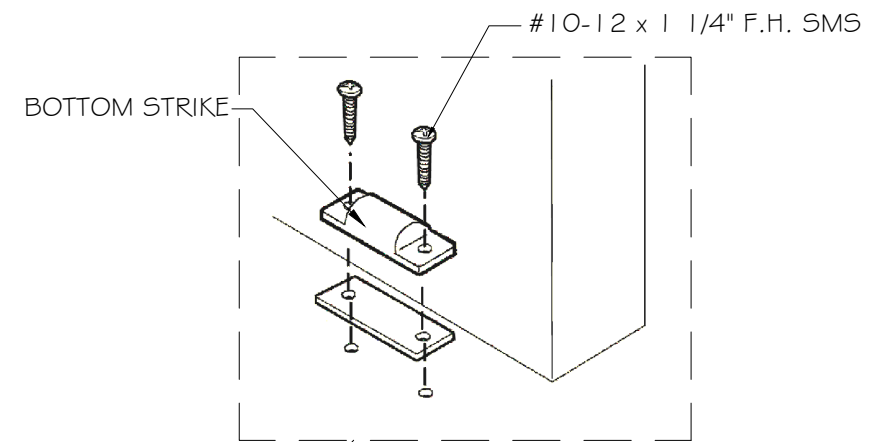
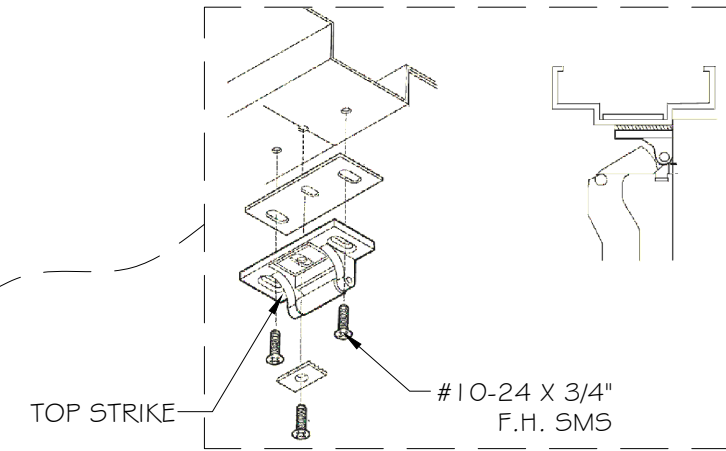
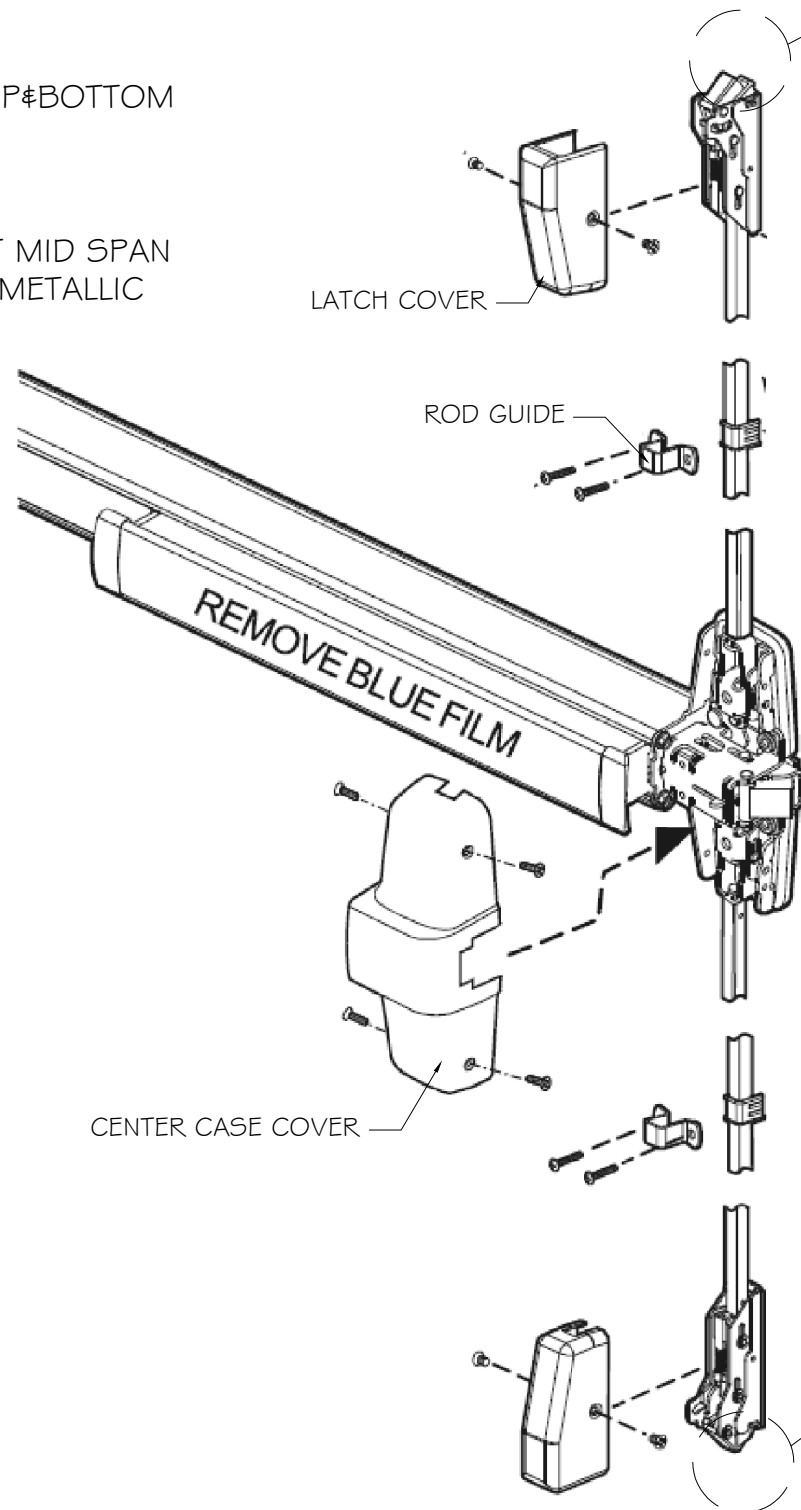
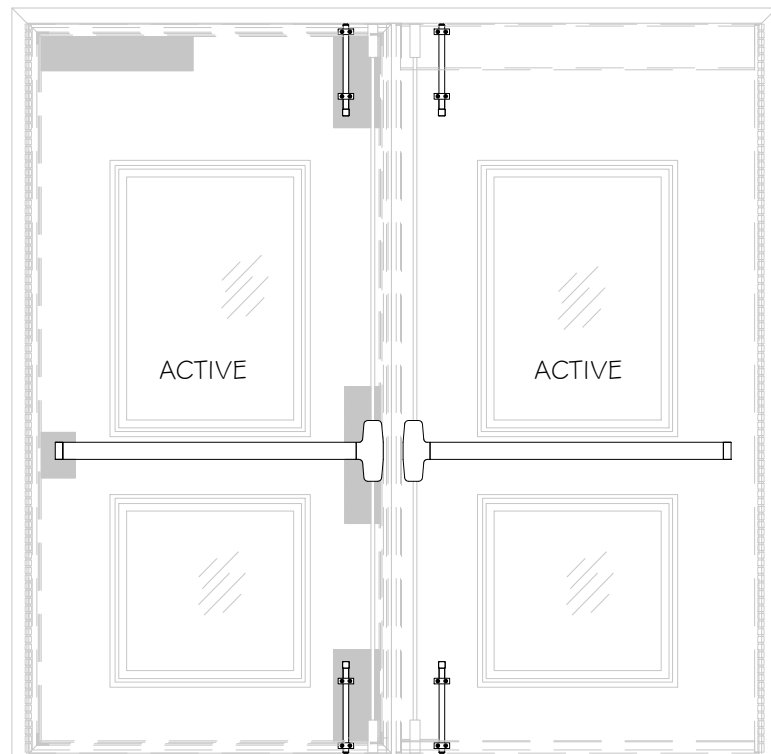
- LOCK

ACTIVE PANEL: VON DUPRIN 9957 3 POINT LOCK W/ ACTIVATING PANIC DEVICE, W/(2) 10 X 1 1/4" PH SMS, (4) 10-24 X 1" PH MS WITH SEX BOLT, (2) 10-24 X 3/4" PH MS WITH SEX BOLT. VERTICAL RODS AT TOP AND BOTTOM, W/(6) 1/4-20 X 1" TH MS AND (4) METALLIC WASHERS, 39" FROM BOTTOM. FLUSH MOUNT METALLIC STRIKE PLATE @ 40" FROM BOTTOM.

- SURFACE BOLTS

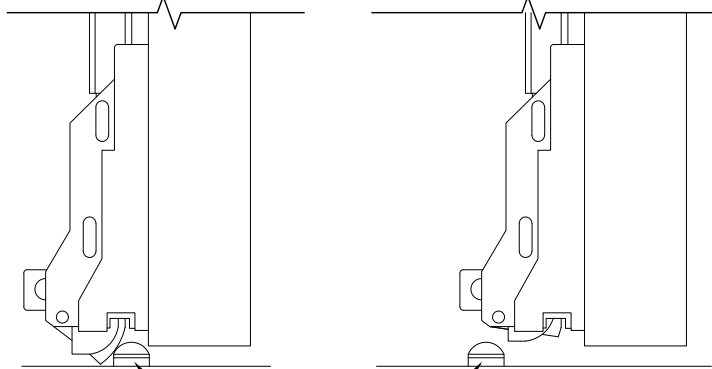
ACTIVE PANEL: IVES SB360 AT EACH PANEL LOCK STILE TOP & BOTTOM W/(1) 2" X 1 1/2" X 7/8" ALUM. PLATE AND (2) 1/4" - 20 X 3 FH MS ENGAGEMENT: 1 3/16" AT THRESHOLD AND 9/16" AT HEAD.

- MULLION: VON DUPRIN REMOVABLE MULLION 9954KRM AT MID SPAN ATTACHED TO FRAME HEAD USING A TWO PIECE METALLIC BRACKET W/ (2) 1 2 X 1 - 1/2" FM SMS AND (3) 1/4"-20 X 5/8" PH SMS INTO THE MULLION. FASTENED TO THRESHOLD W/ (2) 1/4" X 4 FH LAG SCREWS.



WITH DOOR CLOSED

WITH DOOR OPEN



PRODUCT CONTROL APPROVAL



November 4th, 2021

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GLAZING CONSULTANTS
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FIBERGLASS FRAME OUTSWING DOOR WITH SKIN (LMI & SMI)
SPECIAL-LITE, INC.
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DECATUR, MI 49045
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DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049

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HARDWARE:

DOOR OPTION 2

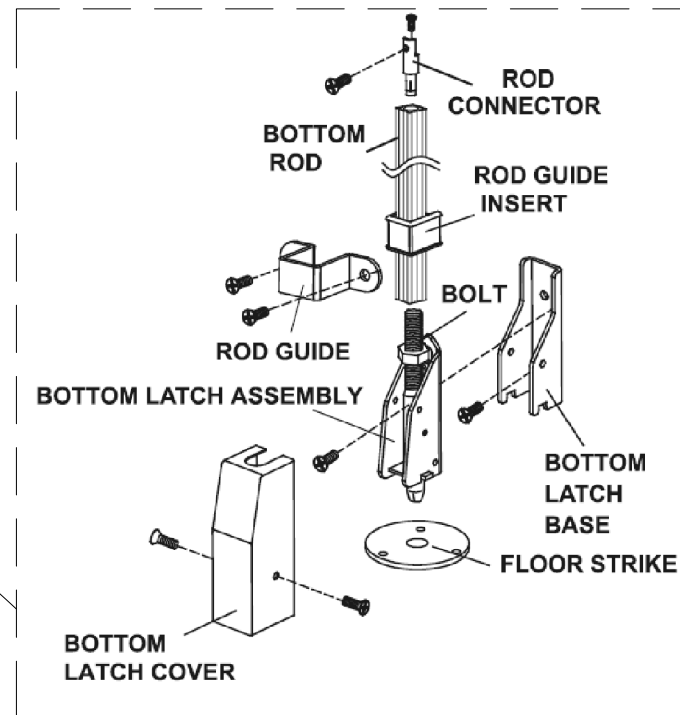
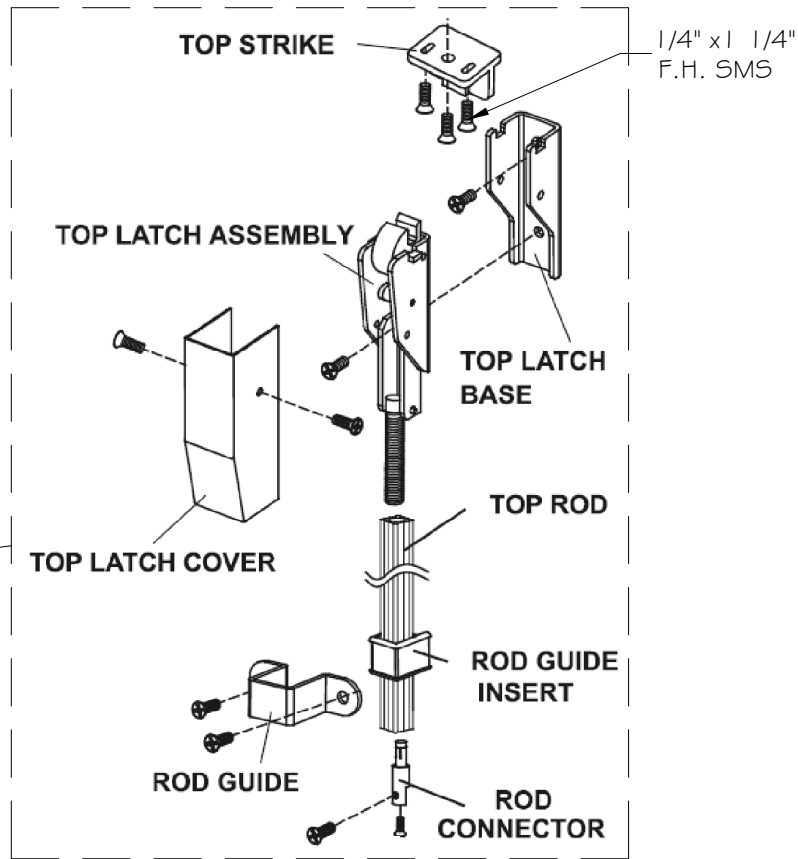
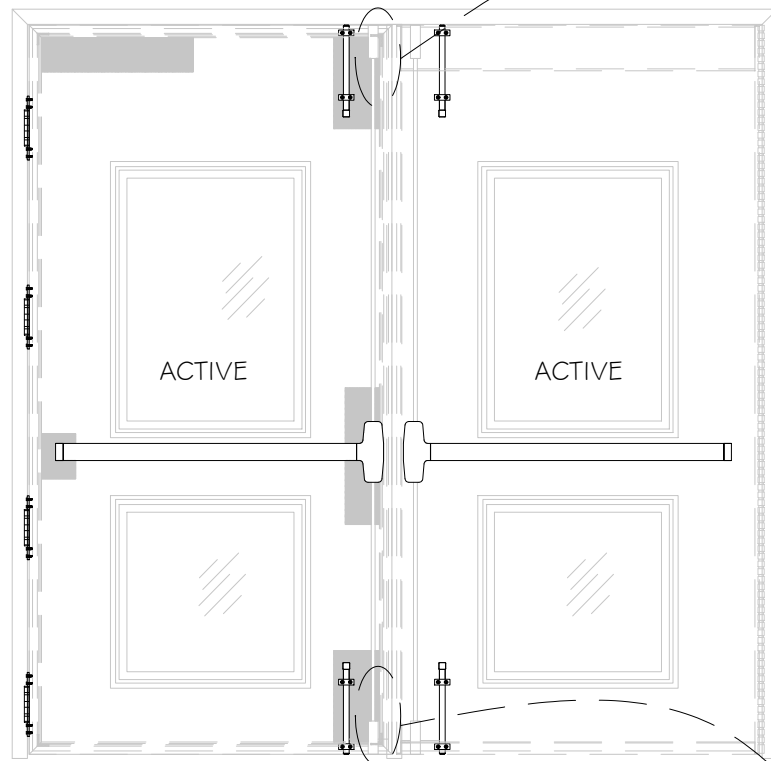
- LOCK

LEFT ACTIVE PANEL: DESIGN HARDWARE 2000V 2 POINT LOCK EXIT PANIC DEVICE, WITH VERTICAL RODS AT 39 3/4" FROM BOTTOM. W/(2) #10-24X3/4" FH MS

RIGHT ACTIVE PANEL: DESIGN HARDWARE 1000V 2 POINT LOCK EXIT PANIC DEVICE, WITH VERTICAL RODS AT 39 3/4" FROM BOTTOM. W/(2) #10-24X3/4" FH MS

- SURFACE BOLTS

ACTIVE PANEL: IVES SB360, AT EACH PANEL LOCK STILE TOP&BOTTOM W/(1)2"x1/2"x7/8" ALUM. PLATE AND (2)1/4"-20X3 FH MS ENGAGEMENT: 1 3/16" AT THRESHOLD AND 9/16" AT HEAD.



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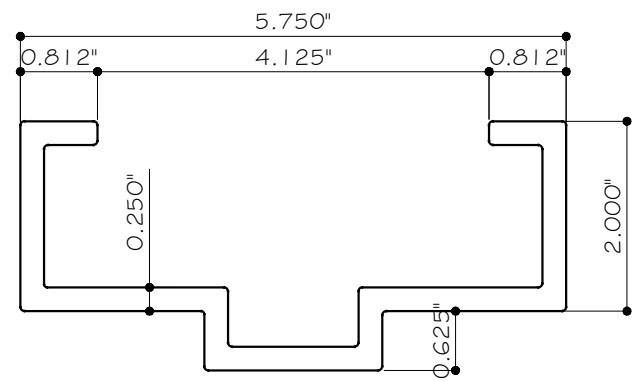
PRODUCT CONTROL APPROVAL



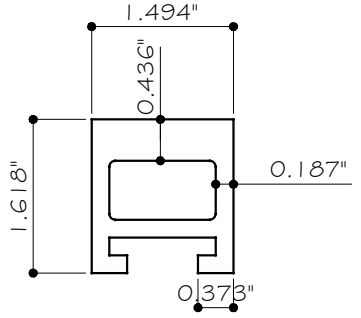
November 4th, 2021

DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049

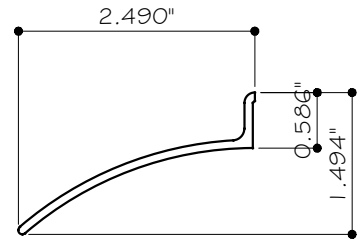
DRAWING NO.
TA17-03



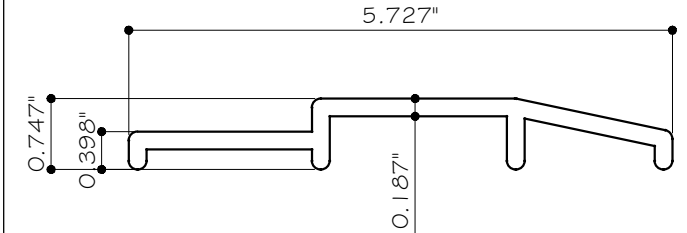
① FRAME JAMB / HEAD
AFC-15010 FIBERGLASS



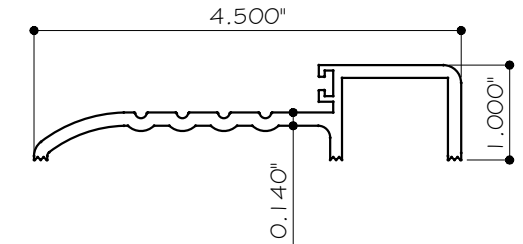
② SOLID FIBERGLASS STILE
AFC-2000 FIBERGLASS



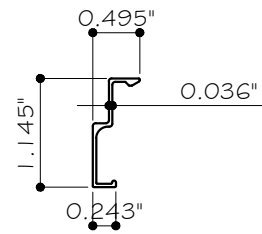
③ 142 RAIN DRIP
ALUM. 6063-T6



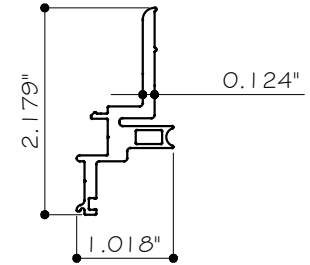
④ STANDARD BUMPER THRESHOLD
AFC-4010 FIBERGLASS



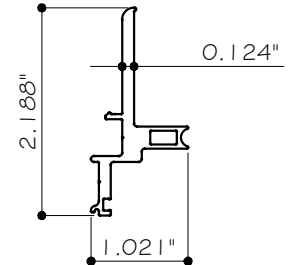
⑤ 561 THRESHOLD
ALUM. 6063-T6



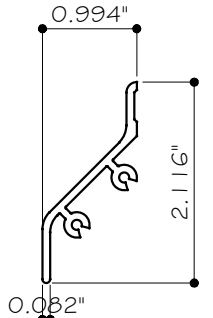
⑥ 70-800 SNAP
COVER ALUM. 6063-T6



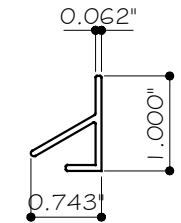
⑦ 70-802 5/16" LITE KIT
ALUM. 6063-T6



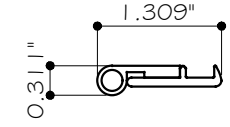
⑧ 70-801 1" LITE KIT
ALUM. 6063-T6



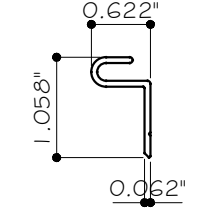
⑨ 141 RAIN DRIP
ALUM. 6063-T6



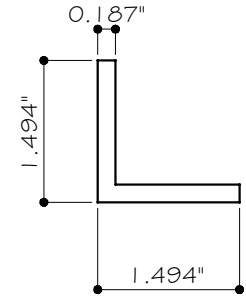
⑩ 124A WATERSHED
ALUM. 6063-T6



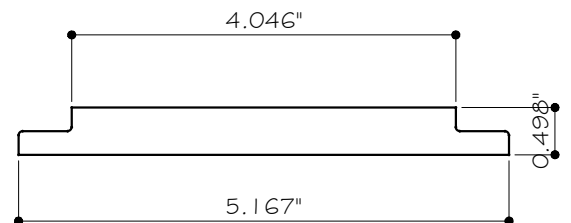
⑪ 328 DOOR SWEEP
ALUM. 6063-T6



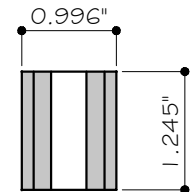
⑫ 123NA WATERSHED
ALUM. 6063-T6



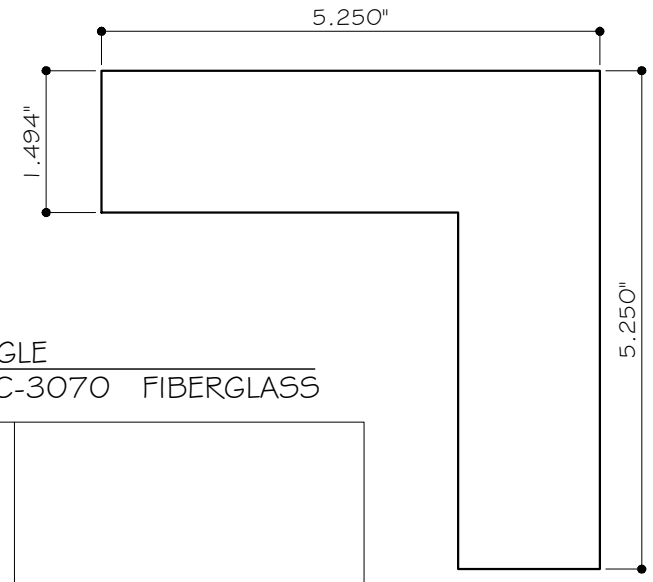
⑬ AFC-2010 ANGLE
ALUM. 6063-T6



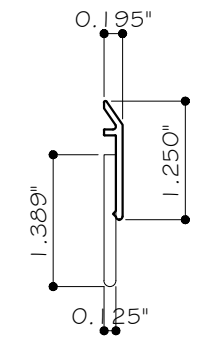
⑰ FRP ANCHOR BRACKET
AFC-3000 FIBERGLASS



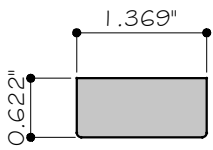
⑱ FRP ANCHOR BRACKET
AFC-3010



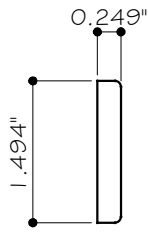
⑲ ANGLE
AFC-3070 FIBERGLASS



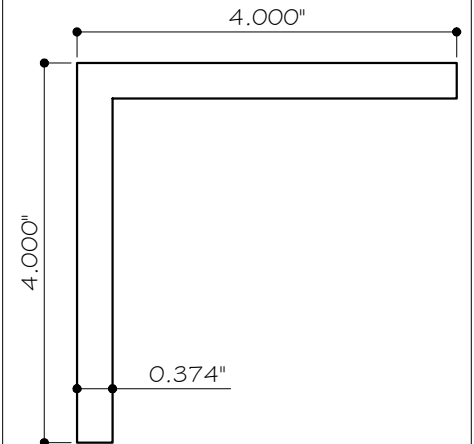
⑳ 39 SURFACE MOUNTED
DOOR SWEEP
ALUM. 6063-T6



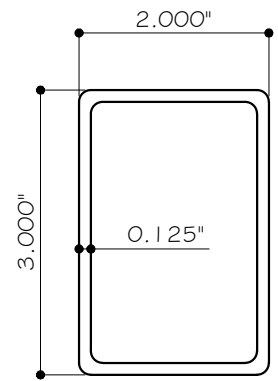
㉓ FRP ANCHOR BRACKET
AFC-3020



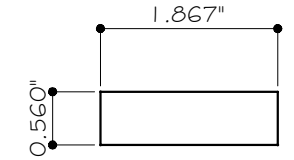
㉔ HINGE REINF.
AFC-3030 FIBERGLASS



㉕ ANGLE
AFC-3060 FIBERGLASS



㉚ REMOVABLE MULLION
9954KRM STEEL



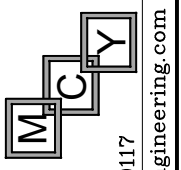
㉛ BUMPER THRESHOLD
ANCHOR REINF.
AFC-4020 FIBERGLASS

PRODUCT CONTROL APPROVAL



November 4th, 2019 OF 11

NO.	DATE	DESCRIPTION



MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR FL 33027
P: 305.271.0117
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FIBERGLASS FRAME OUTSWING DOOR WITH SKIN (LMI & SMI)
SPECIAL-LITE, INC.
860 SOUTH WILLIAMS STREET
P.O. BOX 6
DECATUR, MI 49045
WWW.SPECIAL-LITE.COM



PARTS

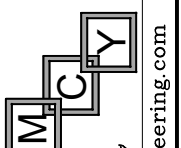
DATE	11/04/21
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY 17-049

DRAWING NO.
TA17-03

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUFACTURER / REMARKS
1	AFC-15010	FRAME JAMB / HEAD	FIBERGLASS	SPECIAL-LITE, INC.
2	AFC-2000	SOLID FIBERGLASS STILE	FIBERGLASS	SPECIAL-LITE, INC.
3	142	ZERO INTERNATIONAL RAIN DRIP	ALUM. 6063-T6	ZERO INTERNATIONAL
4	AFC-4010	STANDARD BUMPER THRESHOLD	FIBERGLASS	SPECIAL-LITE, INC.
5	561	RABBETED THRESHOLD	ALUM. 6063-T6	ZERO INTERNATIONAL
6	70-800	SPECIAL-LITE LITE KIT SNAP COVER	ALUM. 6063-T6	SPECIAL-LITE, INC.
7	70-802	SPECIAL-LITE 5/16" LITE KIT	ALUM. 6063-T6	SPECIAL-LITE, INC.
8	70-801	SPECIAL-LITE 1" LITE KIT	ALUM. 6063-T6	SPECIAL-LITE, INC.
9	141	RAIN DRIP	ALUM. 6063-T6	ZERO INTERNATIONAL
10	124A	NATIONAL GUARD INTERLOCKING WATER SHED	ALUM. 6063-T6	NATIONAL GUARD, ATTACHED W/ #6 X 3/4" SMS
11	328	ZERO INTERNATIONAL SURFACE APPLIED DOOR SWEEP	ALUM. W/ SOLID NEOPRENE	ZERO INTERNATIONAL, ATTACHED W/ #6 X 1/2" SMS
12	123NA	NATIONAL GUARD INTERLOCKING WATER SHED	ALUM. 6063-T6	NATIONAL GUARD, ATTACHED W/ #6 X 3/4" SMS
13	AFC-1000	PULTRUDED DOOR STILE	FIBERGLASS	SPECIAL-LITE, INC.
14	AFC-1010	PULTRUDED CLOSER REINFORCEMENT	FIBERGLASS	SPECIAL-LITE, INC.
15	AFC-1020	PULTRUDED FLUSH BOTTOM RAIL	FIBERGLASS	SPECIAL-LITE, INC.
16	AFC-2010	1-1/2" X 1-1/2" X 0.187" THK. ANGLE	FIBERGLASS	SPECIAL-LITE, INC.
17	AFC-2020	FIBERGLASS TUBE REINFORCEMENT	FIBERGLASS	SPECIAL-LITE, INC.
18	AFC-2050	FIBERGLASS TUBE REINFORCEMENT	FIBERGLASS	SPECIAL-LITE, INC.
19	AFC-2090	FIBERGLASS TUBE REINFORCEMENT	FIBERGLASS	SPECIAL-LITE, INC.
20	AFC-2100	6" X 12" SURFACE BOLT REINFORCEMENT	20 LB URETHANE FOAM	SPECIAL-LITE, INC.
21	AFC-3000	FRP ANCHOR BRACKET	FIBERGLASS	SPECIAL-LITE, INC.
22	AFC-3010	FRP ANCHOR BRACKET	FIBERGLASS	SPECIAL-LITE, INC.
23	AFC-3020	FRP ANCHOR BRACKET	FIBERGLASS	SPECIAL-LITE, INC.
24	AFC-3030	1-3/8" X 8" LG. X 1/4" THK. HINGE REINF.	FIBERGLASS	SPECIAL-LITE, INC.
25	AFC-3060	ANGLE	FIBERGLASS	SPECIAL-LITE, INC.
26	AFC-3070	1-1/2" X 5-1/4" X 5-1/4" X 1/4" THK. FRP REINFORCEMENT ANGLE	FIBERGLASS	SPECIAL-LITE, INC.
27	AFC-4020	FIBERGLASS BUMPER THRESHOLD ANCHOR REINF.	FIBERGLASS	SPECIAL-LITE, INC.
28	PT-8003	1" X 0.855" X 16" LG. ALUM. BAR REINF.	ALUM. 6061	SPECIAL-LITE, INC. ATTACHED W/ (4) 1/4" X 5" FH WOOD SCREW
29	39	ZERO INTERNATIONAL SURFACE APPLIED DOOR SWEEP	ALUM. W/ SOLID NEOPRENE	ZERO INTERNATIONAL, ATTACHED W/ #6 X 1/2" SMS
30	9954KRM	VON DUPRIN REMOVABLE MULLION, 3" X 2" X 1/8" THK, 94-1116" LG.	STEEL	VON DUPRIN
31	XI153BTSINGLE	TRIM-LOK SELF ADHESIVE BULB SEAL	EPDM SPONGE	TRIM-LOK
32	9957	VON DUPRIN 3 POINT EXIT DEVICE @ 39" FROM BOTTOM	-	VON DUPRIN
33	SB-360	IVES SURFACE BOLTS @ 6" FROM EACH END	STEEL	IVES
34	-	0.0625" SS ARMOR PLATE	ST/ST	SPECIAL-LITE, INC.
35	2000V	DESIGN HARDWARE 2 POINT EXIT DEVICE	ST/ST	DESIGN HARDWARE, @ 39 3/4" FROM BOTTOM
36	BB5	BALL BEARING HINGES @ 7 1/2", 34 1/2", 62" AND 88 3/4" FROM BOTTOM.	STEEL	DESIGN HARDWARE
37	FM95HD	CONTINUOUS HINGE	ALUM.	DESIGN HARDWARE
38	SC-17	#8 X 1-1/4" OH SMS	-	-

REVISIONS	NO. DATE



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PRODUCT CONTROL APPROVAL

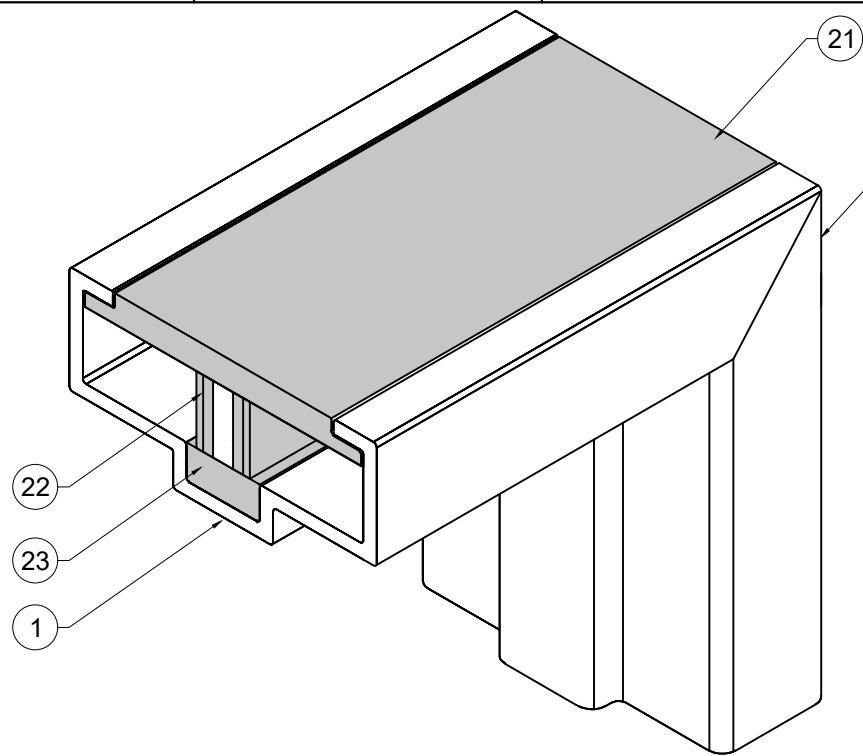


BOM	
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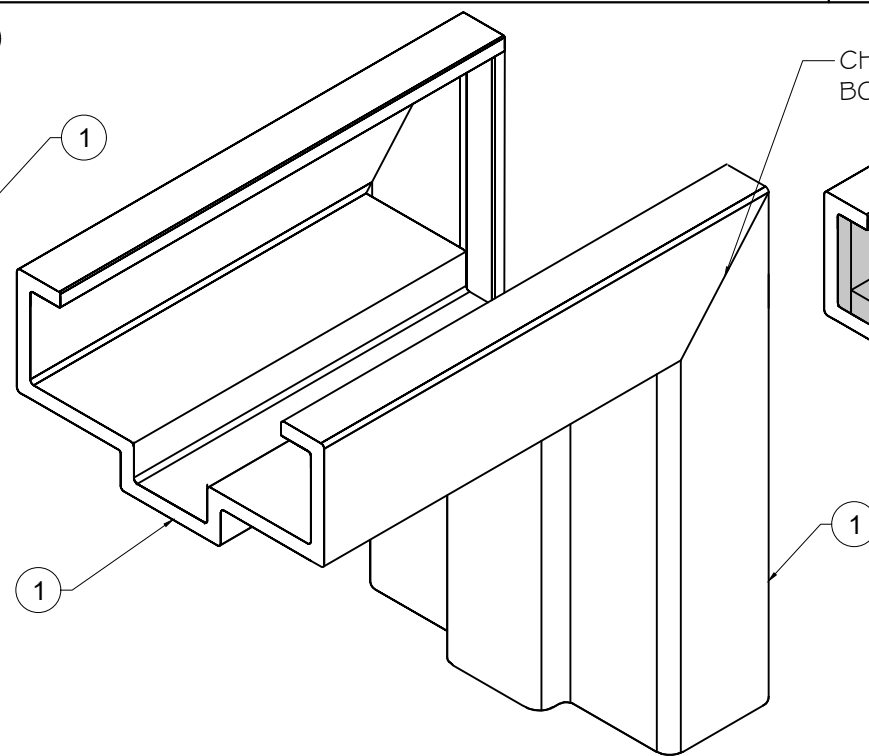
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BILL OF MATERIALS (CONT.)

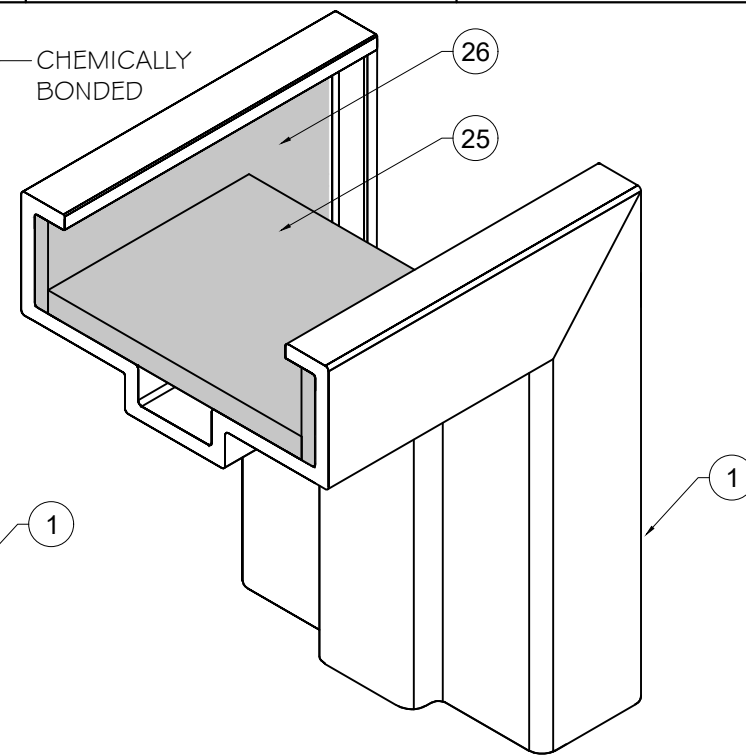
ITEM	PART	DESCRIPTION	MATERIAL	MANUFACTURER / REMARKS
39	SC-109	#12 X 1-1/2" PHILLIPS FH SMS	STEEL	-
40	-	#8 X 3/4" SMS	STEEL	-
41	-	#8 X 5/8" SMS	STEEL	-
42	-	0.120" SANDSTONE FRP	FRP	CRANE COMPOSITES
43	-	PULTRUDED FIBERGLASS SHEET	PULTRUDED FIBERGLASS	SPECIAL-LITE, INC.
44	-	6 LB URETHANE FOAM SHEET	URETHANE FOAM	DYPLAST
45	-	POLYPROPYLENE HONEYCOMB CORE	POLYPROPYLENE	AIR-COMB OR PLASCORE
46	-	PET FOAM	FOAM	BALTEC
47	-	NEOPRENE GASKET	NEOPRENE	ZERO INTERNATIONAL
48	-	DC995 SILICONE	SILICONE	DOW CORNING
49	-	3/16" X 3/8" FOAM GLAZING TAPE	FOAM	NORSEAL
50	-	SPACER	ALUM.	ALLMETAL INC.
51	-	1/8" SETTING BLOCK	EPDM RUBBER	ZATKOFF SEALS AND PACKING
52	-	1/4" SETTING BLOCK	EPDM RUBBER	GLAZING RUBBER PRODUCTS
53	1000V	DESIGN HARDWARE 2 POINT LOCK EXIT DEVICE	ST/ST	DESIGN HARDWARE @ 39 3/4" FROM BOTTOM



REINFORCEMENT AT HEAD/JAMB



CORNER CONNECTION DETAIL



REINFORCEMENT AT CORNER CONNECTION

PRODUCT CONTROL APPROVAL



November 4th, 2021

REVISIONS	DESCRIPTION
NO.	DATE

MCY

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