

SERIES SGD5470 VINYL, NON-IMPACT RESISTANT SLIDING GLASS DOOR
INCLUDING POCKETS, 90° / 135° CORNERS & FIN ADDON

GENERAL NOTES:

- 1) GLAZING TYPE OPTIONS: SEE GLAZING DETAILS ON SHEET 10.
- 2) DESIGN PRESSURES:

A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS PER ASTM E1300.

B. POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER TEST PRESSURE AND GLASS PER ASTM E1300.
- 3) ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
- 4) SHUTTERS ARE REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
- 5) INSTALLATION SCREWS & FRAME SPLICES TO BE SEALED WITH NARROW JOINT SEALANT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) REFERENCES (NOA'S): ELCO ULTRACON, CRETEFLEX & AGGREGATOR ANCHOR NOA'S, VISION EXTRUSION, LTD. WHITE RIGID PVC NOA, VE 1000 TAN 202 AND LIGHTER SHADES (NON-WHITE) RIGID PVC NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC NOA
REFERENCES (TEST REPORTS): FTL-6367, 6368, 6369, 6370, 6371 & 8545; EXOVA-10-002-792(A) & 10-006-10231; CAMBRIDGE 535753-09;
- 7) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FBC, AS APPLICABLE.
- 8) DRAWINGS DEPICT EXTERIOR-GLAZING, HOWEVER INTERIOR-GLAZING MAY BE SUBSTITUTED.
- 9) THE 5470 SERIES SLIDING GLASS DOOR MAY ALSO BE KNOWN AS THE 470 SERIES.

ANCHOR NOTES:

- 1) FOR CONCRETE/CMU SUBSTRATE APPLICATIONS, SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- 2) FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
- 3) WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTAL- LATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- 4) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

INSTRUCTIONS:

- 1) KNOWING THE REQUIRED DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS DOORS MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1 OR 2, DEPENDING ON THE REINFORCEMENT LEVEL DESIRED.
- 2) LOCATE THE SLIDING GLASS DOOR SIZE ON THE TABLE, USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH IF YOUR EXACT SIZE IS NOT LISTED, ROUND UP TO THE NEXT GREATER LISTED WIDTH AND/OR HEIGHT.
- 3) CHOOSE WHICH ANCHOR GROUP (A-D) IS MOST APPLICABLE. ANCHORS ARE DEFINED IN TABLE A, THIS SHEET, ALONG WITH THE CORRESPONDING SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.
- 4) FROM THE DESIGN PRESSURE TABLES (TABLES 1 OR 2), VERIFY THAT THE OPENING'S REQUIRED DESIGN PRESSURE IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.
- 5) INSTALL AS PER THE GUIDELINES OF THIS SHEET-SET.
- 6) ADDITIONALLY, SEE THE EXAMPLE ON SHEET 9.

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Nominal Panel Size		Design Pressure		Product Rating
Width	Height	(+) psf	(-) psf	
60"	96"	60	60	LC-PG60
48"	120"	60	65	LC-PG60
48"	96"	60	60	LC-PG60
48"	96"	80	80	LC-PG80

IMPACT RATING
NOT RATED FOR MISSILE IMPACT RESISTANCE

DESIGN PRESSURE RATING
SEE TABLES 1, 2 & B1, B2 ON SHEETS 7 & 8

TABLE A:

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	#12, steel SMS (G5) or 410 S.S. SMS, (min. 11 threads/in)	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
		Aluminum, 6063-T5* (0.125" min. thickness)	P-hook	9/16"	1-3/8"
			Head/Sill/Jamb	3/8"	1/8"
		Steel, A36* (0.060" min. thickness)	P-hook	3/8"	1/8"
			Head/Sill/Jamb	3/8"	0.060"
		Steel Stud, A653 Gr. 33* (0.071" min. thickness)	P-hook	3/8"	0.060"
			Head/Sill/Jamb	3/8"	0.071" (14 Ga.)
	1/4" DeWalt Ultracon+	P.T. Southern Pine (SG=0.55)	P-hook	3/8"	0.071" (14 Ga.)
			Head/Sill/Jamb	1"	1-3/8"
	1/4" Elco 410 S.S. CreteFlex	P.T. Southern Pine (SG=0.55)	P-hook	1"	1-3/8"
B	#12, steel wood screw (G5)	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	9/16"	1-3/8"
C	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	1"	1-1/4"
			P-hook	1"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex	Ungrouted CMU, (ASTM C-90)	Jamb	1-3/4"	1-1/4"
			P-hook	1-3/4"	1-1/4"
		Concrete (min. 3.35 ksi)	Head/Sill/Jamb	1-3/16"	1-3/4"
			P-hook	1"	1-3/4"
		Concrete (min. 2.22 ksi)	Head/Sill/Jamb	1-1/2"	1-3/8"
			P-hook	1-1/2"	1-3/8"
	1/4" Elco 18-8 S.S. Aggre-Gator	Ungrouted CMU, (ASTM C-90)	Jamb	2"	1-1/4"
			P-hook	2"	1-1/4"
		P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
D	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	Head/Sill/Jamb	2-1/2"	1-3/8"
			P-hook	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	Head/Sill/Jamb	2-1/2"	1-3/4"
			P-hook	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"

- 1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- 2) FOR STEEL STUDS, MIN. FU=45 KSI & MIN. FY=33 KSI.
- 3) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 4) ALL ANCHOR HEAD TYPES APPLICABLE.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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Custom Windows and Doors
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VINYL SLIDING GLASS DOOR (NI)

06/12/11

By JENS ROSOWSKI

GENERAL NOTES

1 OF 25

SGD5470

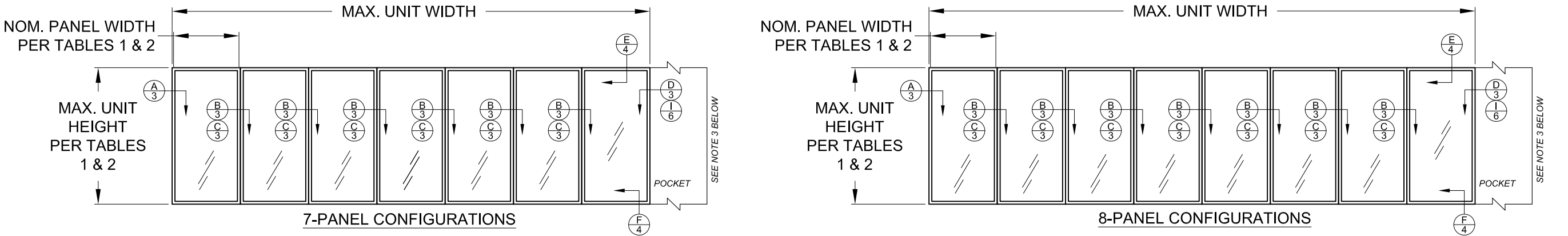
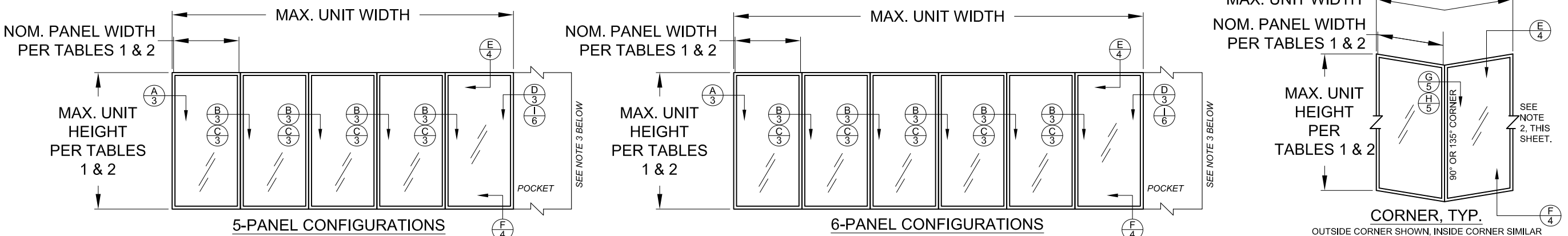
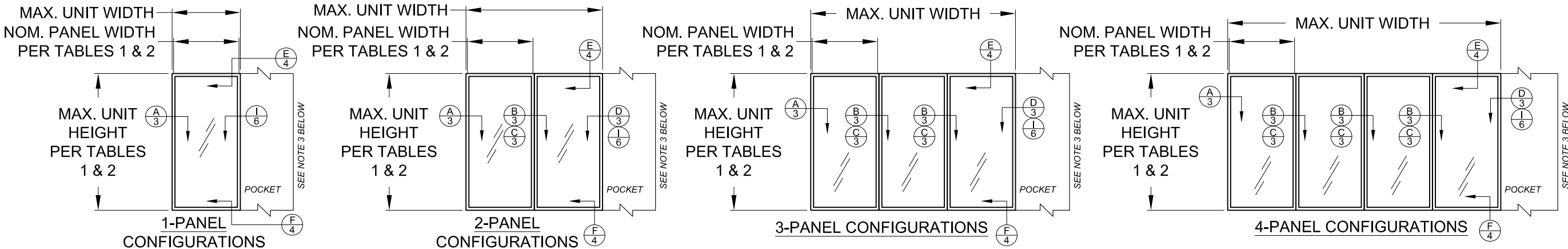
Rev.#

10/17/23

Date

Rev.

DELETE 1/4" ULTRACONS. SB



CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS.
EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.

2) 90° & 135° CORNER CONFIGURATIONS ARE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

3) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

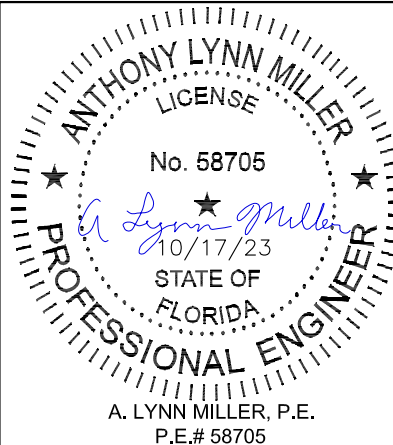
4) FOR NOM. PANEL WIDTH, SEE TABLES 1 & 2.

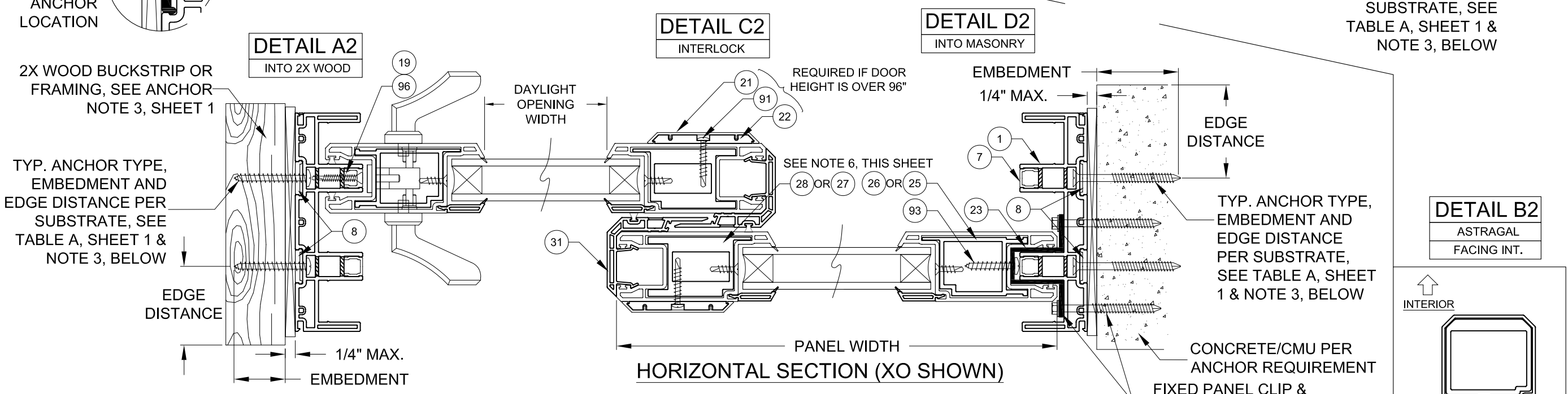
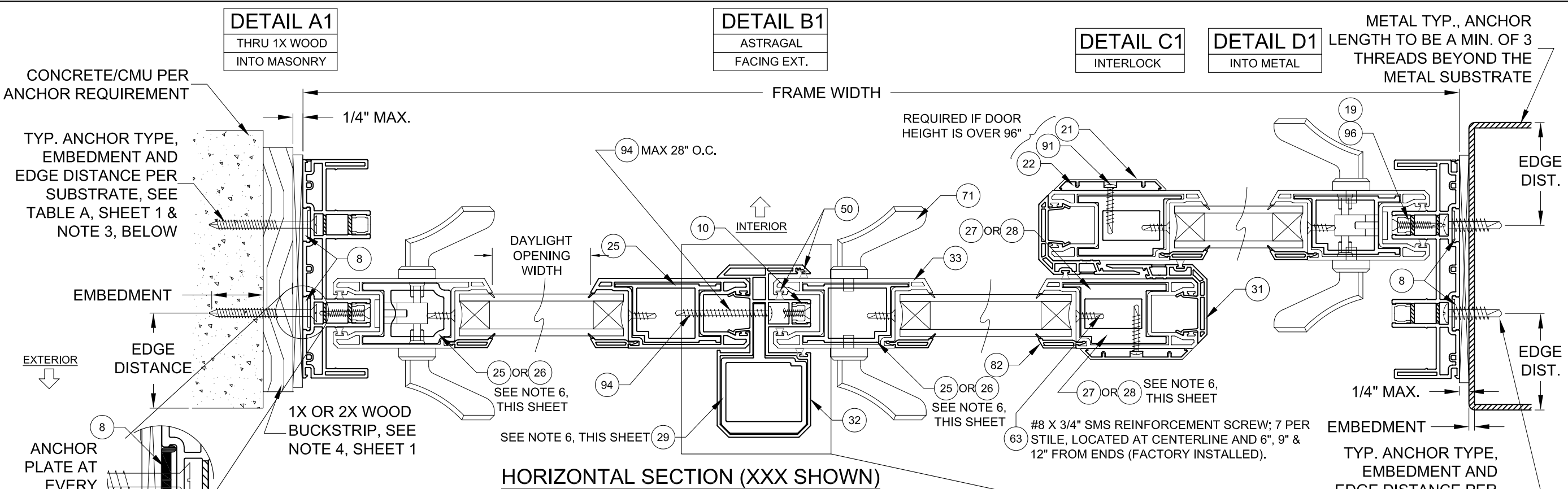
DETAIL LETTER
X
SHEET NUMBER

"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"p" = POCKET

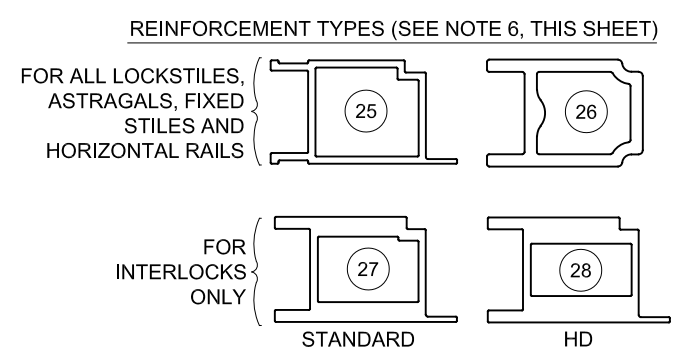
DLO WIDTH = NOMINAL PANEL WIDTH - 7-3/8"
DLO WIDTH = ACTUAL PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR UNIT HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2-1/2"

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PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI)		EXAMPLE CONFIGURATIONS		2 OF 25		SGD5470	
Series		Desc.		Title		Sheet		DWG	





- NOTES
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 2) REFER TO ANCHOR NOTES, SHEET 1.
 - 3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
 - 4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
 - 5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
 - 6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
 - 7) SEE SHEET 20 FOR SCREEN DETAILS.



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By		JENS ROSOWSKI		VINYL SLIDING GLASS DOOR (NI)		INSTALLATION, HORZ. SECTIONS		SGD5470	
Sheet		3 OF 25		DWG		No.		SGD5470FPA-LM	
Series		SGD5470		Desc.		Title			

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10/17/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

DETAIL E1
INTO MASONRY
1X BUCKSTRIP

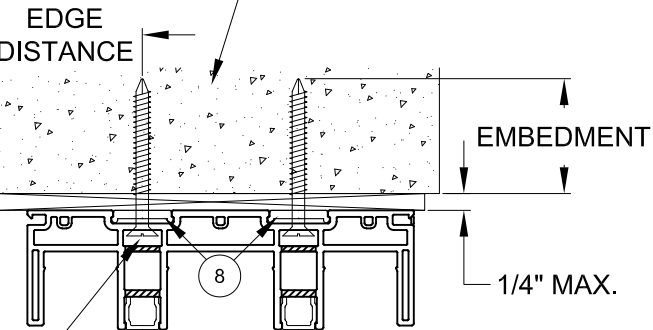
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

DETAIL E2
INTO WOOD

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

DETAIL E3
INTO MASONRY

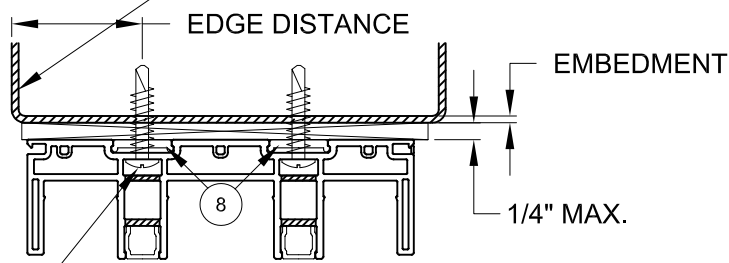
CONCRETE/CMU PER ANCHOR REQUIREMENT



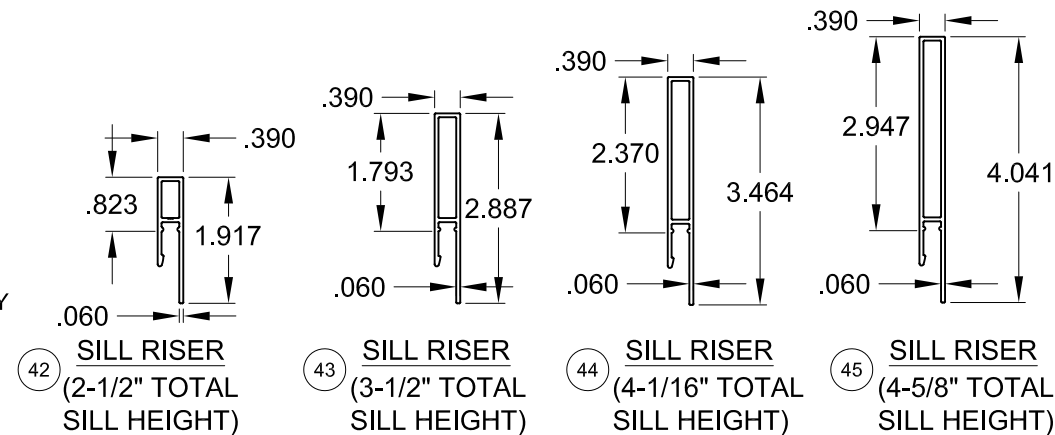
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

DETAIL E4
INTO METAL

MULLION, ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE A, SHEET 1

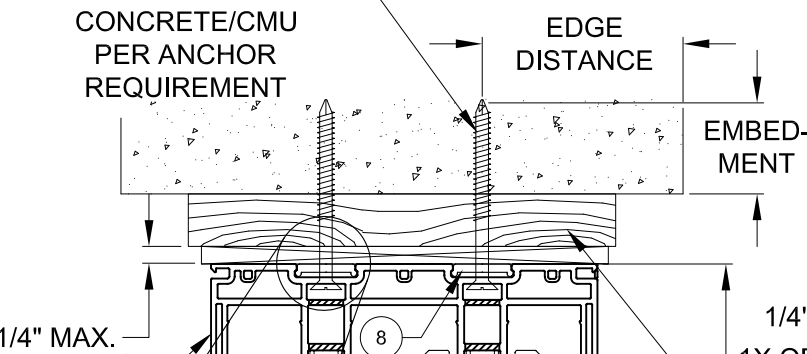


TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET



NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) REFER TO ANCHOR NOTES, SHEET 1.
- 3) SEE SHEETS 11 & 12 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
- 4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
- 5) SEE SHEET 20 FOR SCREEN DETAILS.
- 6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.



1/4" MAX.
1X OR 2X WOOD BUCKSTRIP, SEE ANCHOR NOTE 3, SHEET 1

2X WOOD BUCKSTRIP OR FRAMING, SEE ANCHOR NOTE 3, SHEET 1

FRAME HEIGHT

PANEL HEIGHT

FOR LOCKSTILES, ASTRAGALS, FIXED STILES AND HORIZONTAL RAILS

SEE NOTE 6, THIS SHEET

#8 X 3/4" SMS REINFORCEMENT SCREW; 3 PER RAIL, LOCATED AT CENTERLINE AND 9" FROM ENDS (FACTORY INSTALLED)

SILL RISER VARIES WITH REQUIRED POSITIVE DESIGN PRESSURE, SEE SHEETS 7 & 8.

#42 SHOWN
#43-45 ALSO APPLY

2-1/2" = TOTAL SILL HEIGHT

DETAIL F1
INTO MASONRY

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

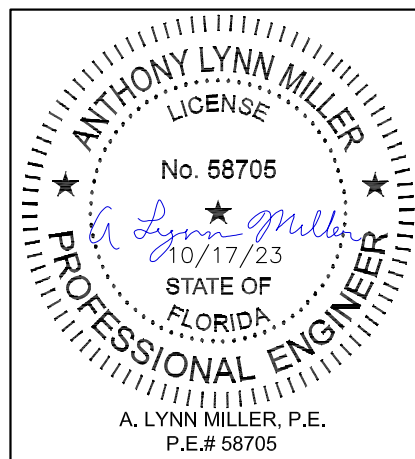
DETAIL F2
INTO WOOD

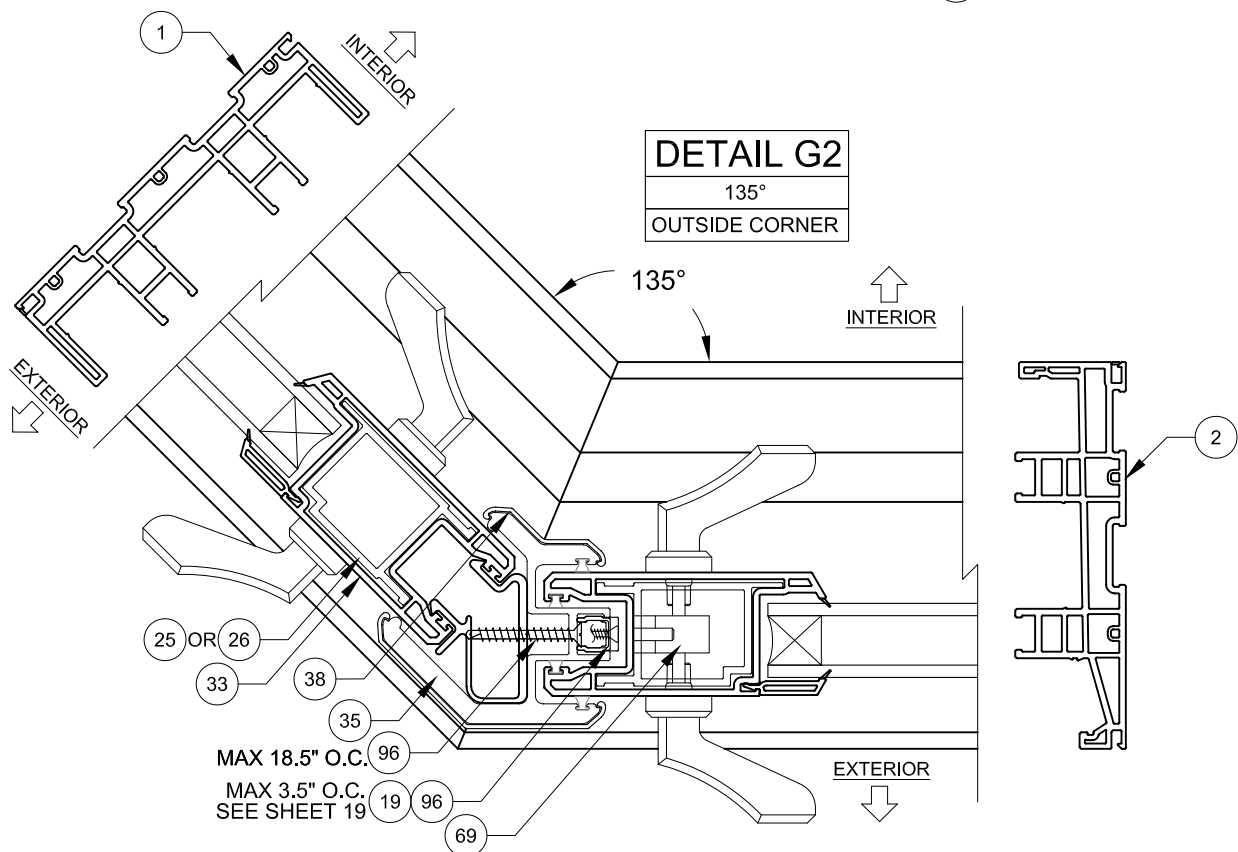
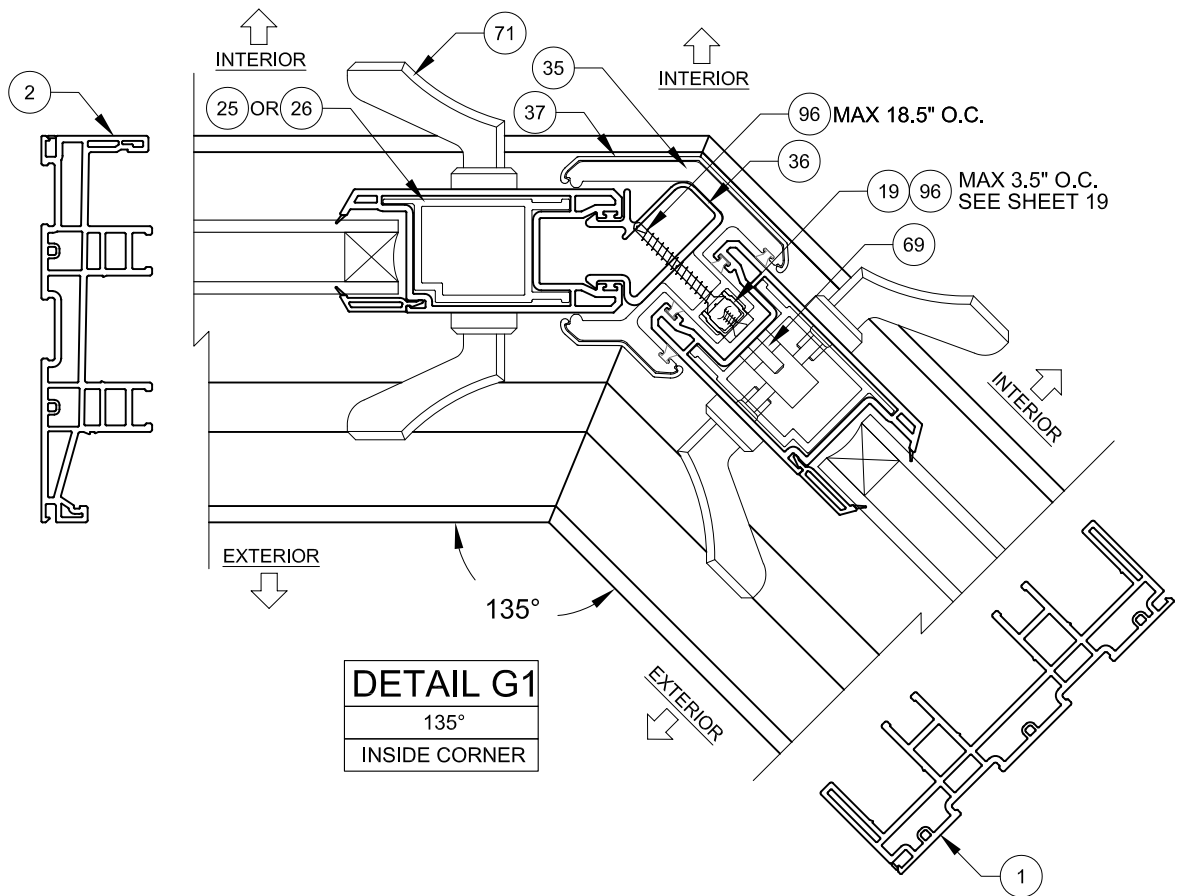
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

2X WOOD BUCKSTRIP OR FRAMING, SEE ANCHOR NOTE 3, SHEET 1

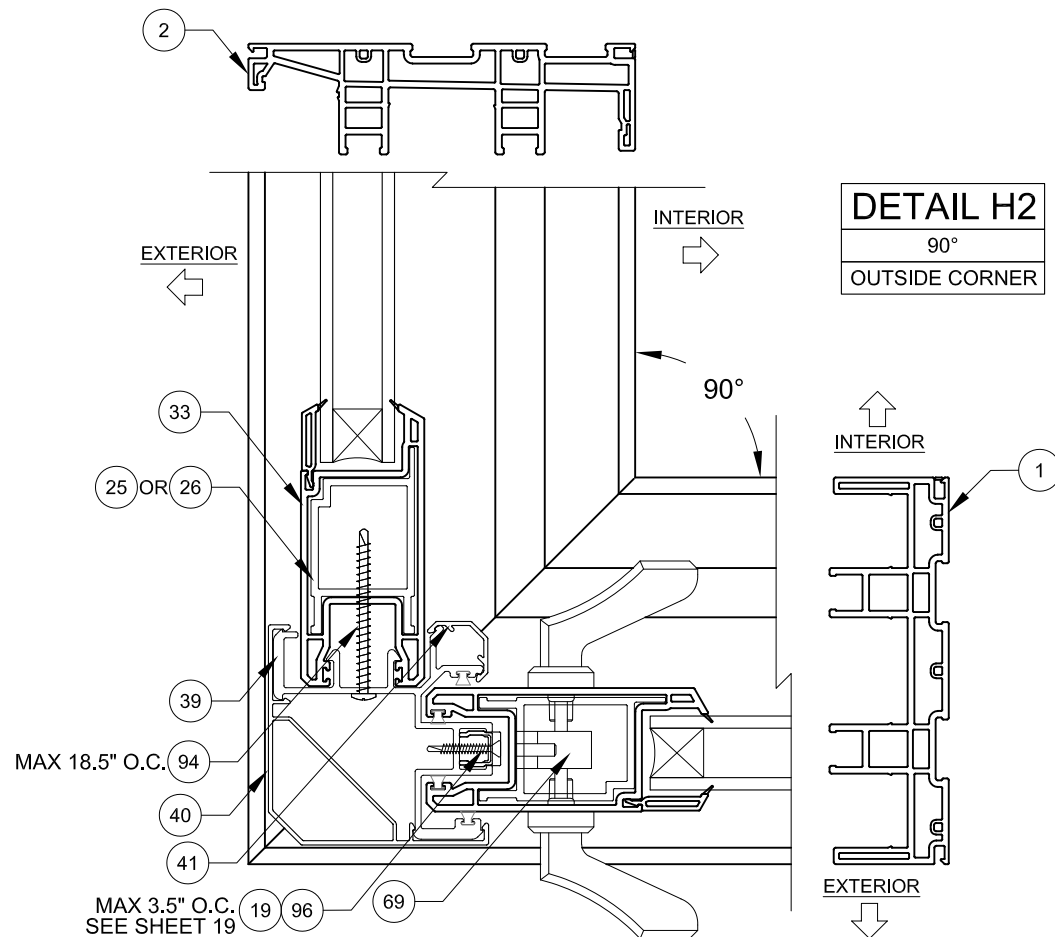
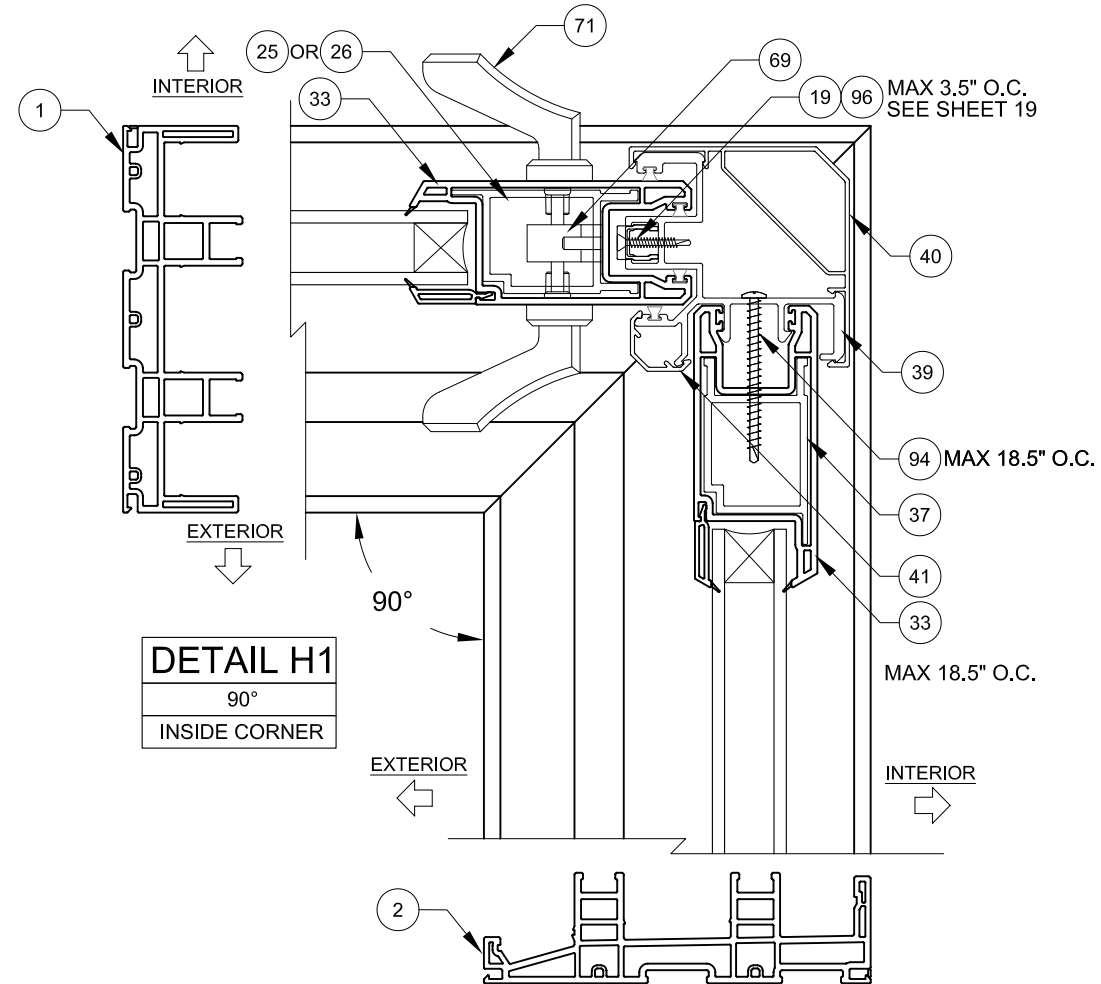
1/4" MAX. GROUT AS NEEDED, SEE ANCHOR NOTE 5, SHEET 1

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INSTALLATION, VERT. SECTIONS		SGD5470FPA-LM		SGD5470	
4 OF 25		Sheet		DWG	
NO CHANGES, THIS SHEET. SB		Rev. #		10/17/23	

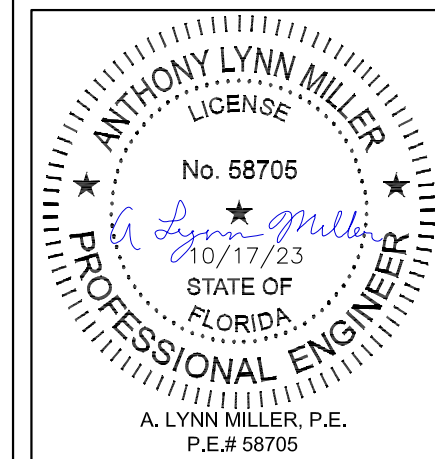




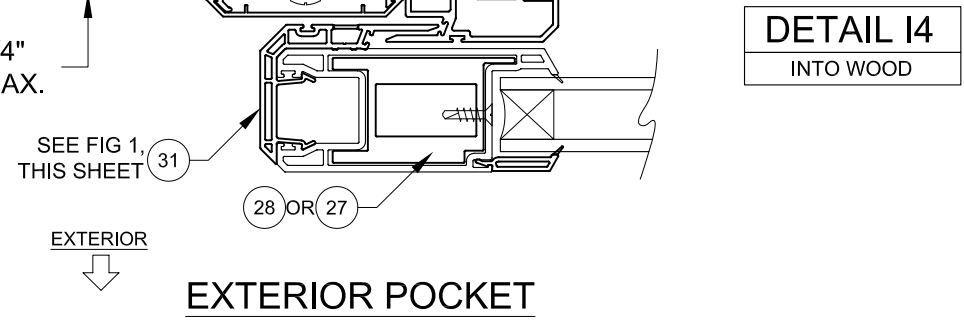
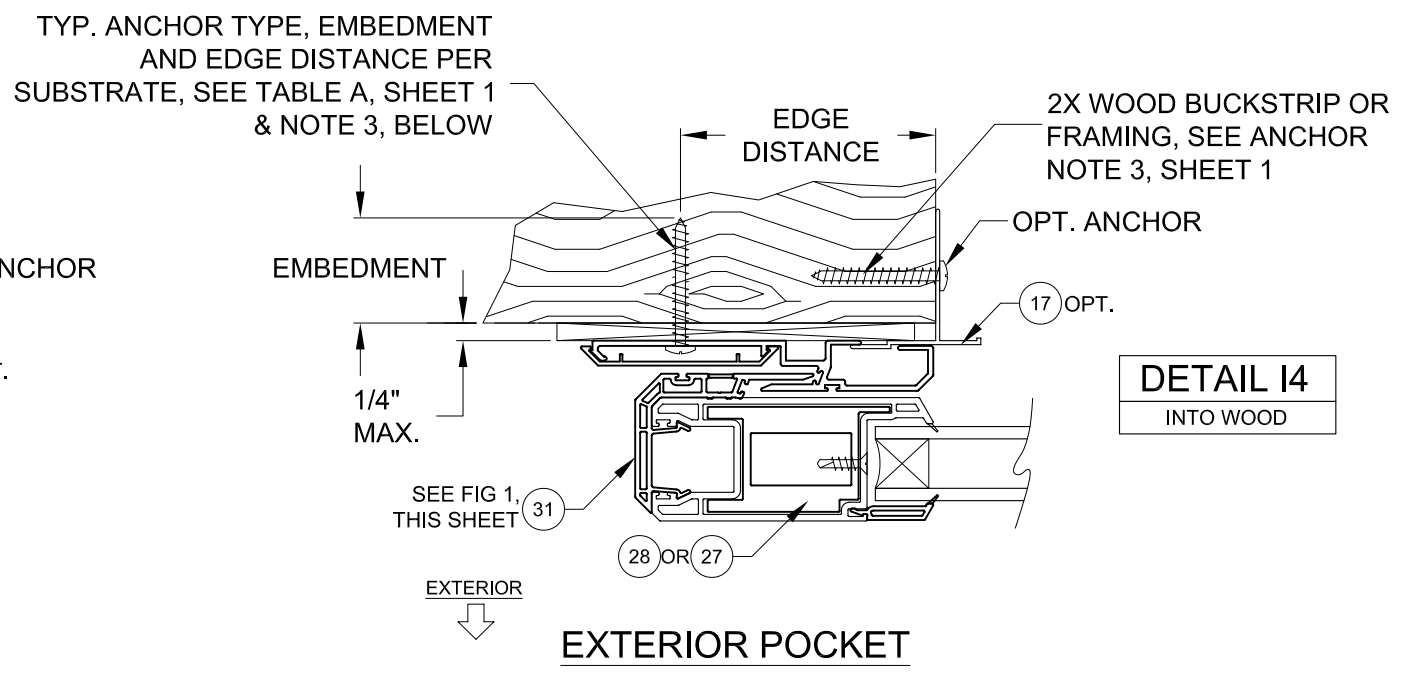
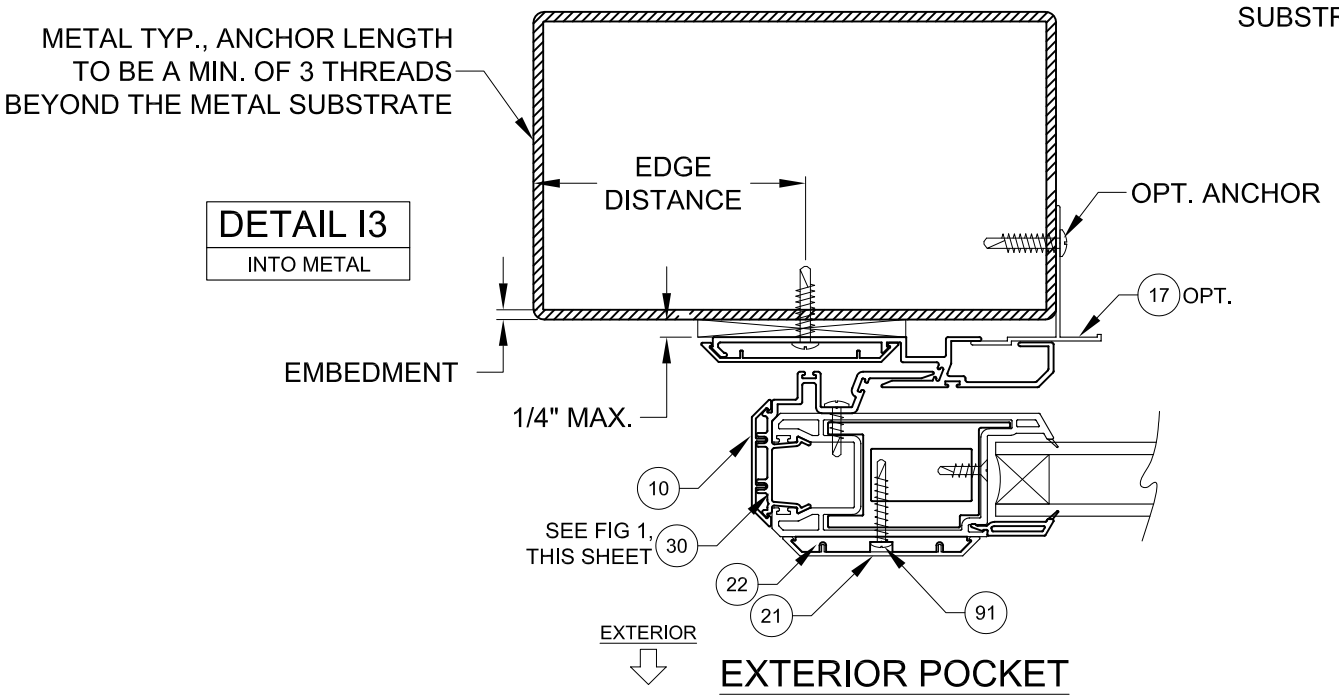
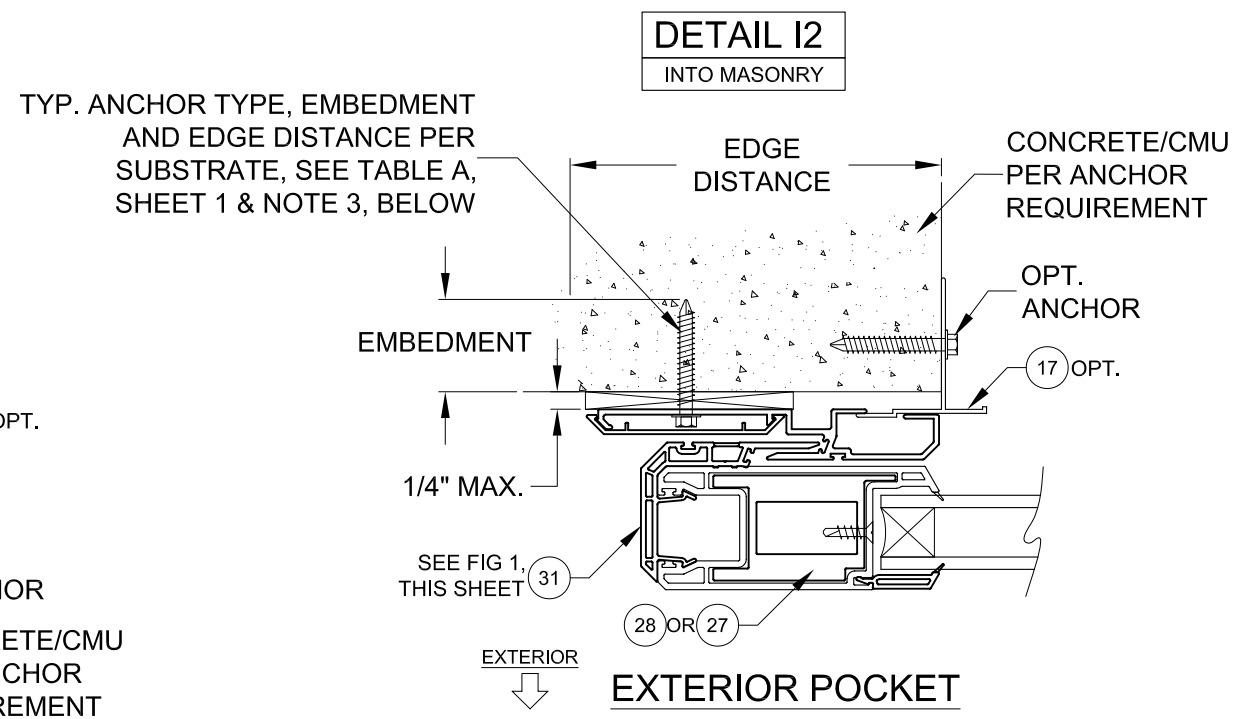
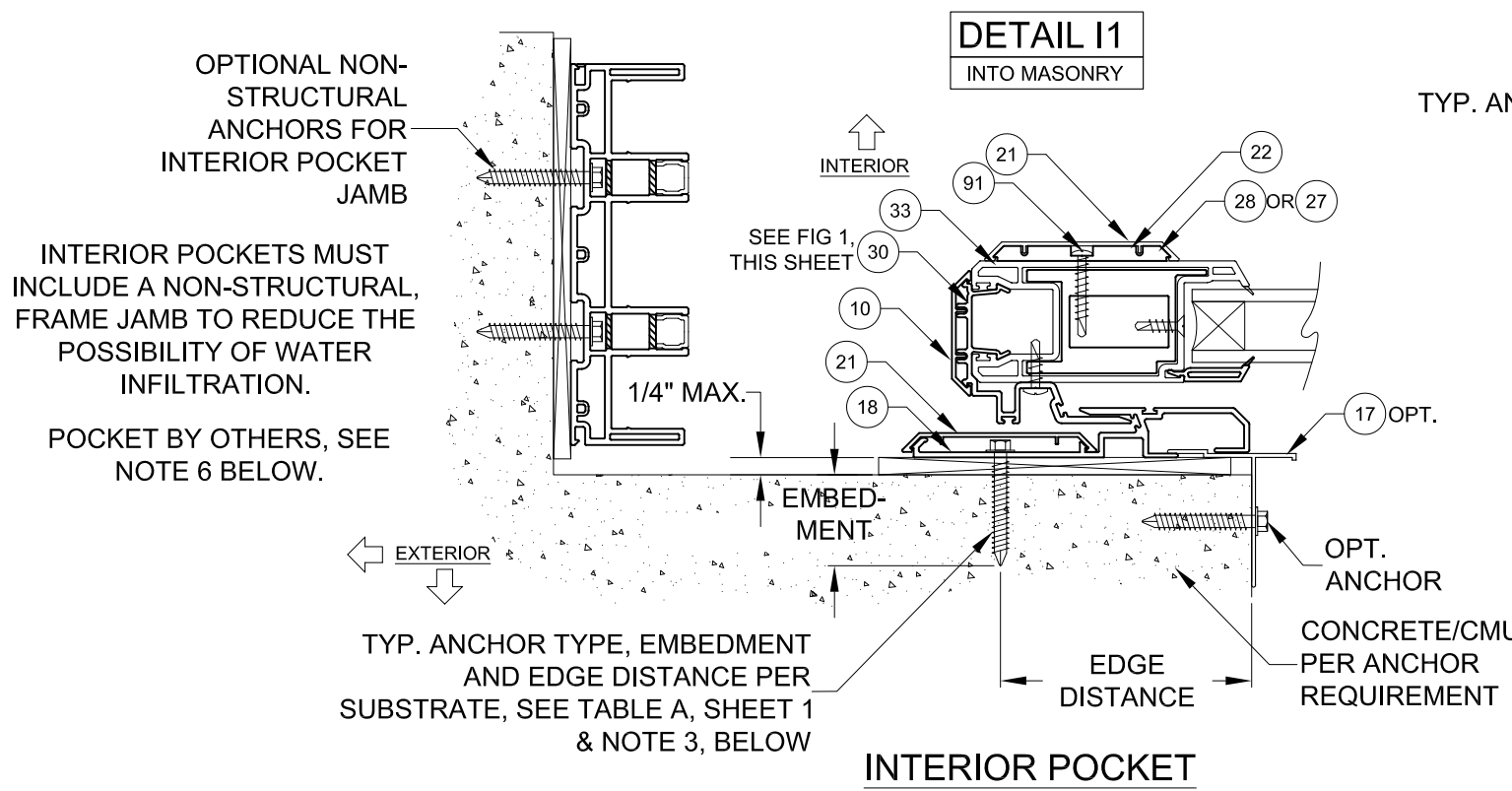
- NOTES**
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 2) SEE SHEETS 14 & 15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
 - 3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.



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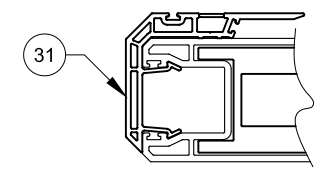


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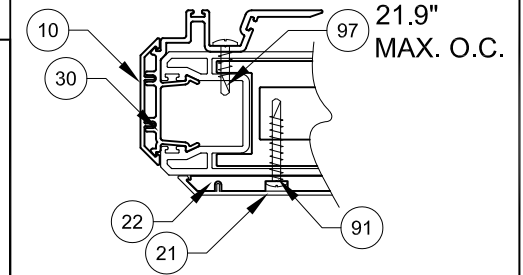


- NOTES**
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 2) REFER TO ANCHOR NOTES, SHEET 1.
 - 3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
 - 4) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
 - 5) INTERIOR OR EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
 - 6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

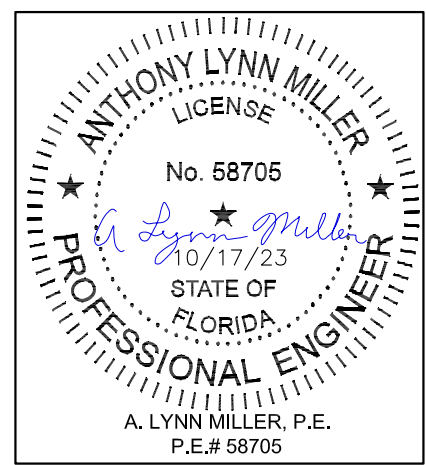
FIGURE 1, INTERLOCKS AT POCKETS:
FOR DOOR HEIGHTS 96" AND LESS:



FOR DOOR HEIGHTS OVER 96"



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PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	VINYL SLIDING GLASS DOOR (NI)	6 OF 25 Sheet	INSTALLATION, P-HOOK	SGD5470



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TABLE 1:

Design Pressure (DP) and Anchor Quantities Required															
Use this table for: Astragal Reinforcement #29 Lockstile Reinforcement #25 or #26 Std. Interlock Reinforcement #27				Door Unit Height											
				80"				84"				96"			
				68-15/16" DLO Height				72-15/16" DLO Height				84-15/16" DLO Height			
				Anchor Group				Anchor Group				Anchor Group			
				A	B	C	D	A	B	C	D	A	B	C	D
Nominal Panel Width	24"	16-5/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8
	30"	22-5/8" DLO	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8
	36"	28-5/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8
	42"	34-5/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8
	48"	40-5/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	6	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8

USED IN EXAMPLE ON SHEET 9

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B1, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

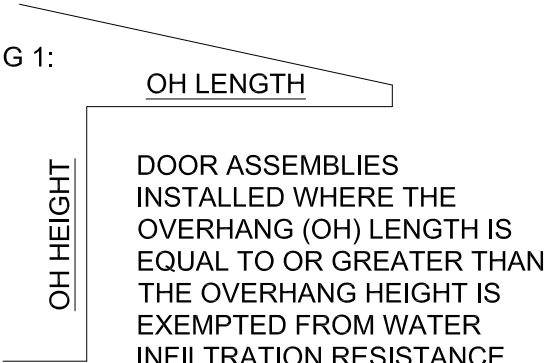
TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

TABLE B1:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	1-11/16"	See Note 2
42	2-1/2"	+38.7 psf
43	3-1/2"	+60.0 psf
44	4-1/16"	+80.0 psf
45	4-5/8"	+100.0 psf

FIG 1:



- TABLE NOTES:
- 1) IF WATER INFILTRATION RESISTANCE IS REQUIRED,THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B1 DETERMINES THE WATER LIMITED (+) DP.
 - 2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED; OTHERWISE, +DP'S SHOWN IN TABLE 1 MAY BE USED.
 - 3) SEE SILL RISER TYPES ON SHEET 4.
 - 4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 5) REFER TO ANCHOR NOTES, SHEET 1.
 - 6) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING

DLO WIDTH = NOMINAL PANEL WIDTH - 7-3/8"
DLO WIDTH = ACTUAL PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR UNIT HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2-1/2"

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VINYL SLIDING GLASS DOOR (NI)
DP AND ANCHORAGE

Date06/12/11
ByJENS ROSOWSKI

No.7 OF 25
DWG

SGD5470
Sheet

SGD5470FPA-LM

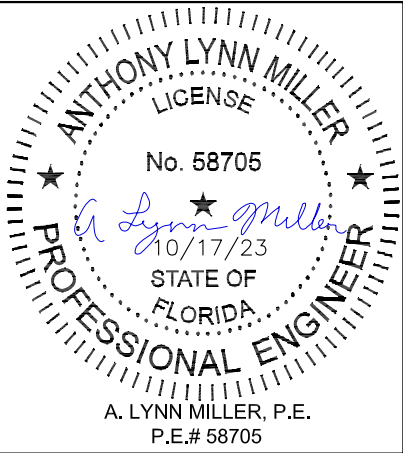


TABLE 2:

Design Pressure (DP) and Anchor Quantities Required																							
Use this table for: Astragal Reinforcement #29 Lockstile Reinforcement #25 HD Interlock Reinforcement #28				Door Unit Height																			
				80"				84"				96"				108"				120"			
				68-15/16" DLO Height				72-15/16" DLO Height				84-15/16" DLO Height				96-15/16" DLO Height				108-15/16" DLO Height			
				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D		
Nominal Panel Width	24"	16-5/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	30"	22-5/8" DLO	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	36"	28-5/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C5+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	6	5	6	6	6	6	6	6	6	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	42"	34-5/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C5+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1	C5+2	C3+1	C5+1	C3+1	C5+1	C3+1	C5+1	C3+1	C5+1	C5+1	C5+1	C3+1
			Jamb	5	5	5	5	5	5	6	5	5	5	7	5	6	6	6	6	6	6	7	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	48"	40-5/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C5+2	C3+2	C5+2	C3+1	C5+2	C3+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C3+1	C5+2	C3+1	C5+2	C5+1	C5+2	C3+1
			Jamb	5	5	6	5	5	5	6	5	5	5	7	5	6	6	7	6	6	6	8	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	54"	46-5/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf				Not available in these sizes							
			Head/Sill	C3+2	C3+1	C3+2	C3+1	C3+2	C3+1	C3+2	C3+1	C5+2	C3+1	C5+2	C3+1								
			Jamb	5	5	5	5	5	5	5	5	5	5	6	5								
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8								
	60"	52-5/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf											
			Head/Sill	C3+2	C3+2	C3+2	C3+1	C5+2	C3+2	C3+2	C3+1	C5+2	C3+2	C5+2	C3+1								
			Jamb	5	5	5	5	5	5	5	5	5	5	6	5								
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8								

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B1, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

FIG 1:

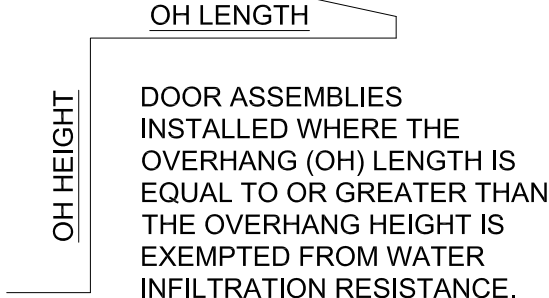


TABLE B2:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	1-11/16"	See Note 2
42	2-1/2"	+38.7 psf
43	3-1/2"	+60.0 psf
44	4-1/16"	+80.0 psf
45	4-5/8"	+100.0 psf

DLO WIDTH = NOMINAL PANEL WIDTH - 7-3/8"
DLO WIDTH = ACTUAL PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR UNIT HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2-1/2"

- TABLE NOTES:
- IF WATER INFILTRATION RESISTANCE IS REQUIRED,THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B1 DETERMINES THE WATER LIMITED (+) DP.
 - IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED; OTHERWISE, +DP'S SHOWN IN TABLE 1 MAY BE USED.
 - SEE SILL RISER TYPES ON SHEET 4.
 - SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - REFER TO ANCHOR NOTES, SHEET 1.
 - SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING

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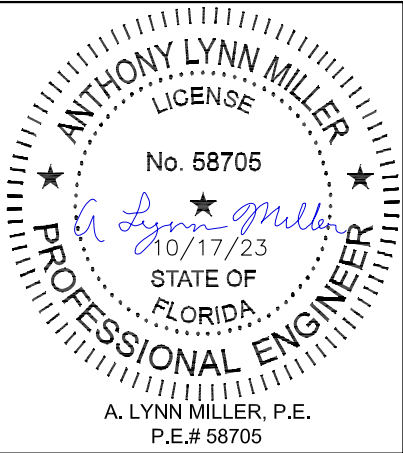
VINYL SLIDING GLASS DOOR (NI)
DP AND ANCHORAGE

Date06/12/11
ByJENS ROSOWSKI

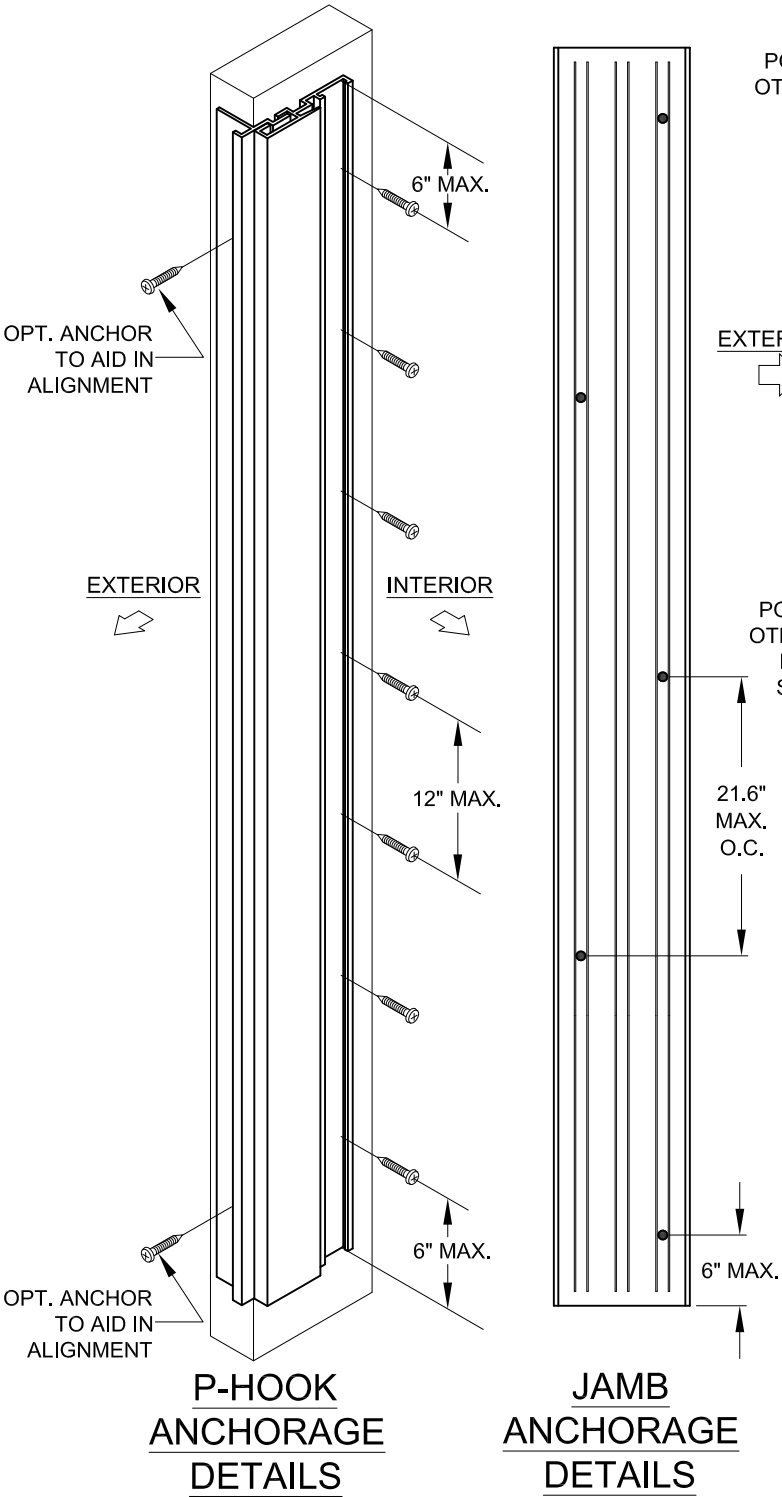
No.8 OF 25
DWG

SheetSGD5470

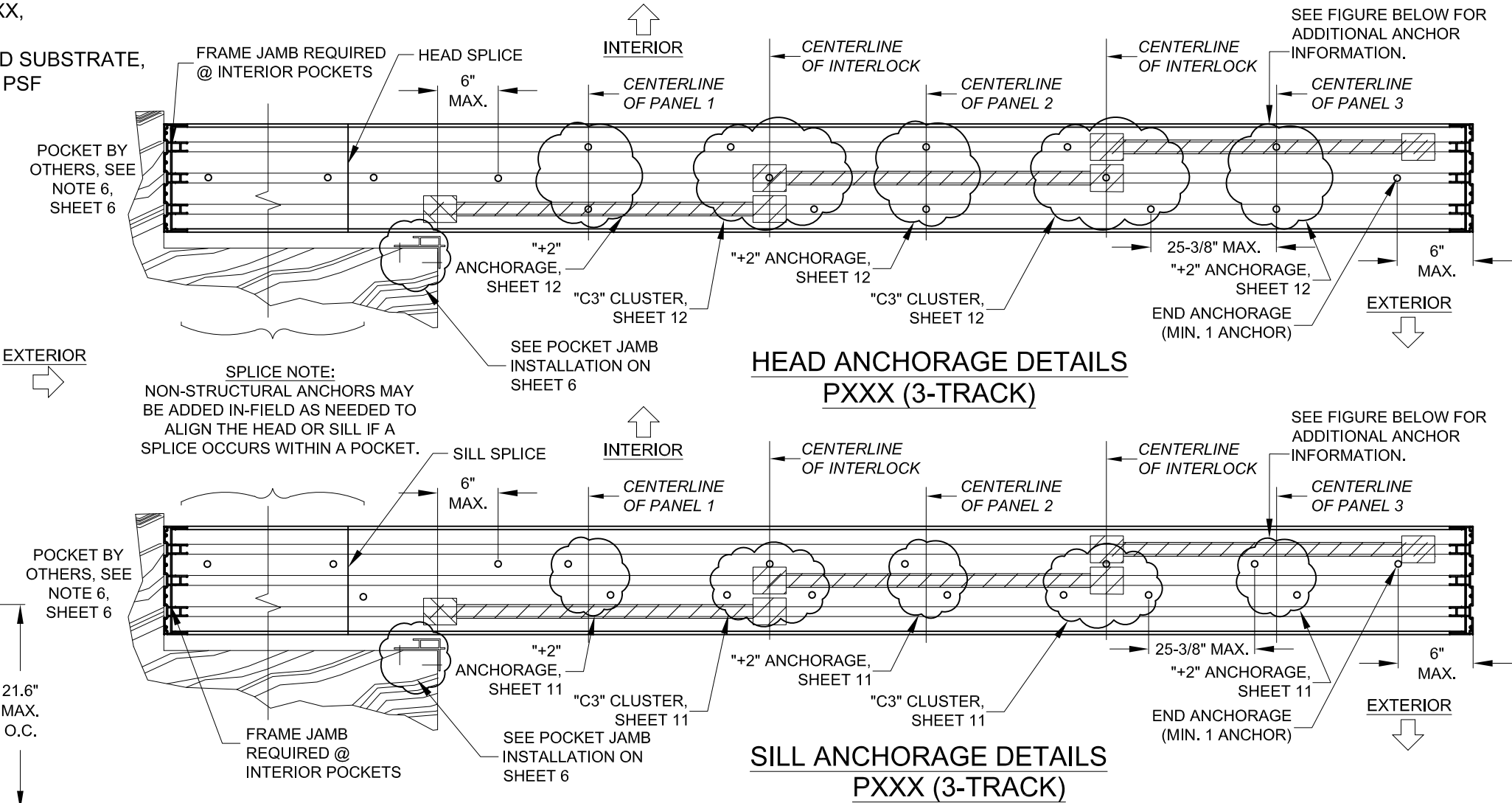
SGD5470FPA-LM



EXAMPLE:
3-PANEL, 3 TRACK, STRAIGHT CONFIGURATION - PXXX,
INTERIOR MOUNT POCKET, 48" X 84" NOM. PANELS,
LAMINATED, IG GLAZING, ANCHOR GROUP A IN WOOD SUBSTRATE,
PROJECT DESIGN PRESSURE REQUIRED: +48.2/-58.6 PSF



- FOR PRODUCT REFERENCES, ALSO SEE:
- A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.
 - B) SHEET 10 FOR SPECIFIC GLAZING TYPES.
 - C) SHEET 17 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
 - D) SHEETS 4 & 18 FOR EXTRUSION CROSS-SECTION DRAWINGS.
 - E) SHEET 19 FOR INSTALLATION OF ADDITIONAL ACCESSORIES.
 - F) SHEET 21 FOR A BILL OF MATERIALS.



- 1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1 & 2 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +48.2/-58.6 AT A NOM. PANEL SIZE OF 48" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +60/-60 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

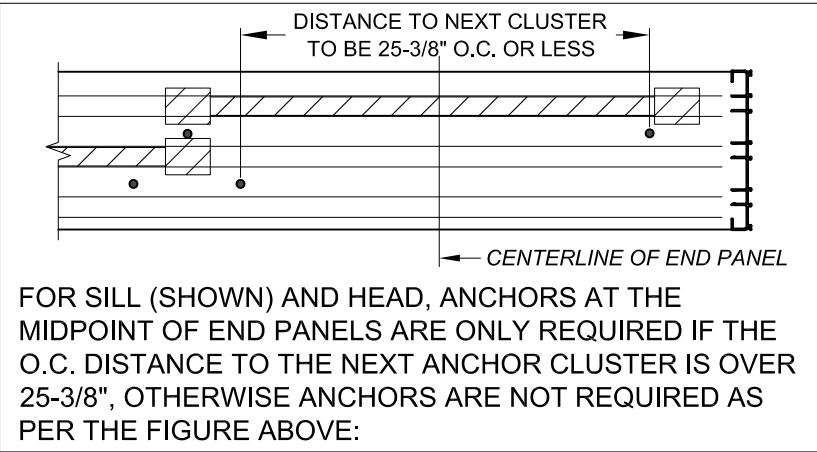
FOR WOOD INSTALLATION USING ANY ANCHOR IN GROUP A (SEE TABLE A), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF

Head/Sill	C3+2
Jamb	5
P-hook	7

- 2) ANCHOR LOCATION DETAILS, CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 12 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/ASTRAGAL.
HEAD (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
SILL (CLUSTER ANCHORS): SHEET 11 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/ASTRAGAL.
SILL (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
JAMB: 5 ANCHORS, SHEET 13 FOR GEN. LAYOUT.
P-HOOK: 7 ANCHORS, SHEET 13 FOR GENERAL LAYOUT.

- 3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:
HEAD & SILL: SHEET 4
JAMB: SHEET 3
P-HOOK: SHEET 6

END PANEL ANCHOR EXCEPTION:



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VINYL SLIDING GLASS DOOR (NI)

ANCHOR SPACING & EXAMPLE

JENS ROSOWSKI

SGD5470

9 OF 25

SGD5470FPA-LM

06/12/11

NO CHANGES, THIS SHEET. SB

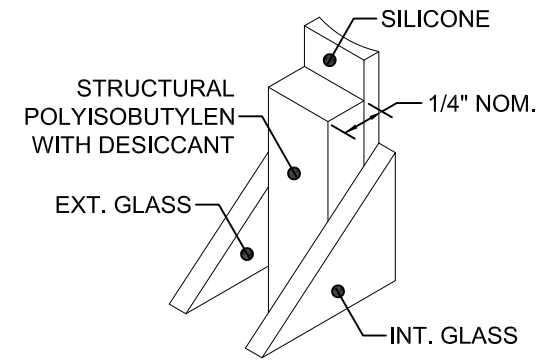
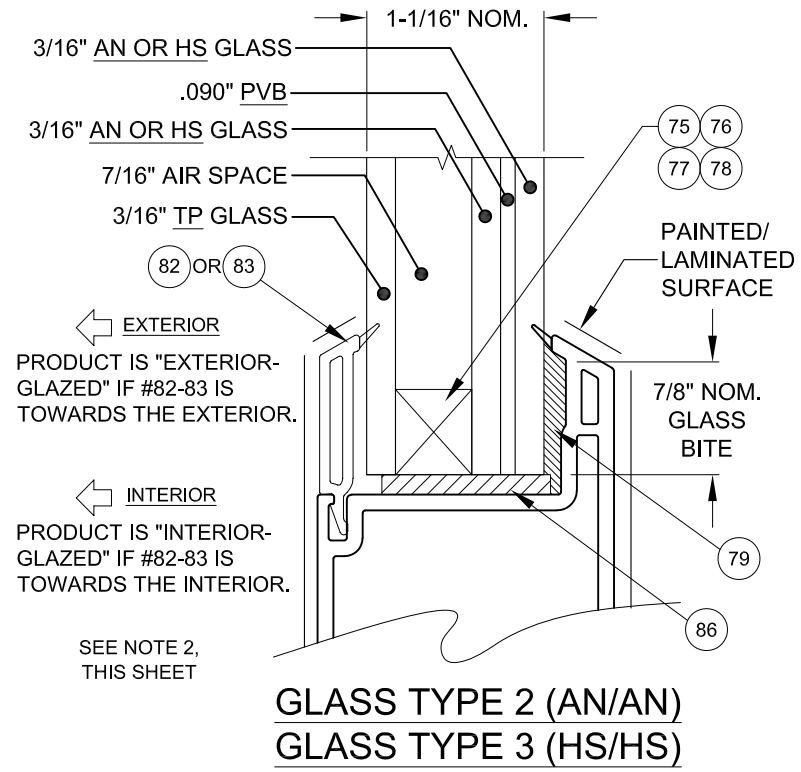
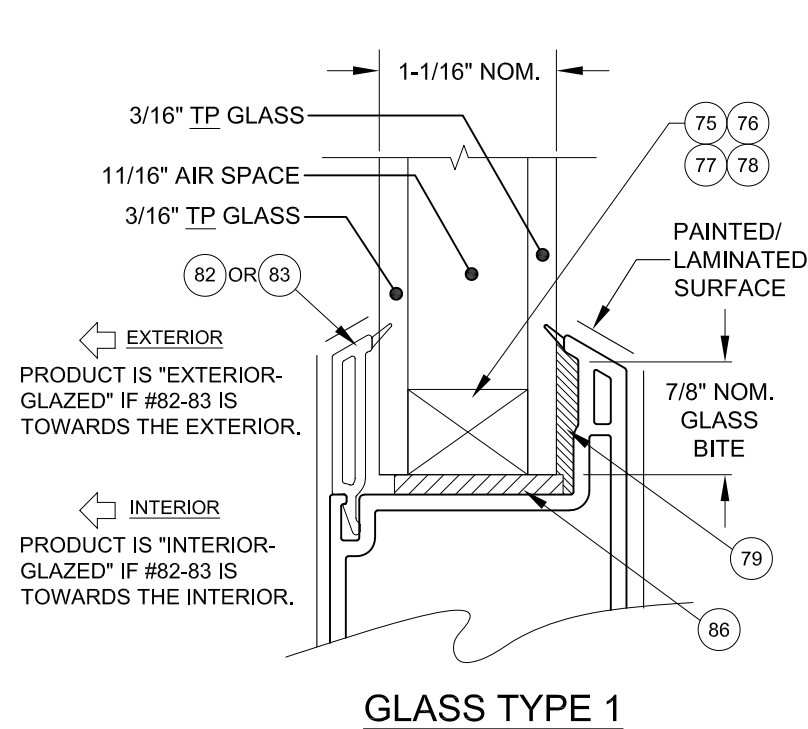
10/17/23

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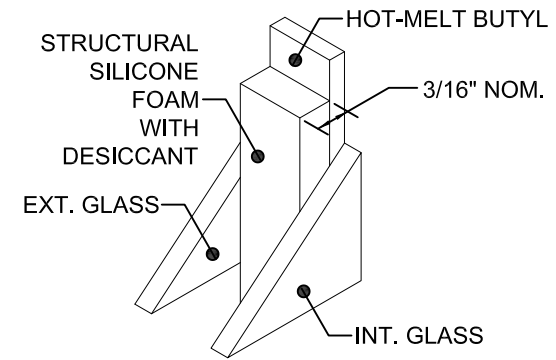
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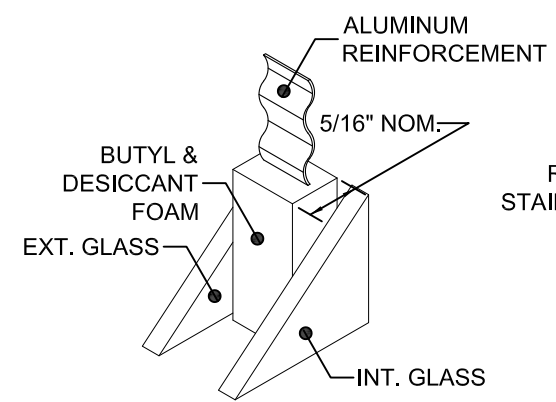
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No. 58705
10/17/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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P.E.# 58705



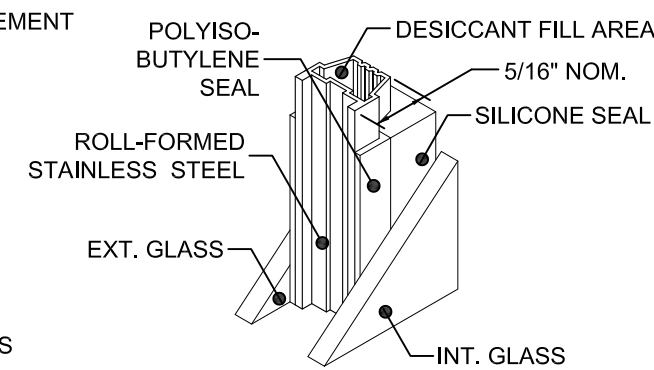
75 **KODISPACE**
4SG TPS



76 **SUPER**
SPACER[®] NXT[™]



77 **DURASEAL[®]**
SPACER

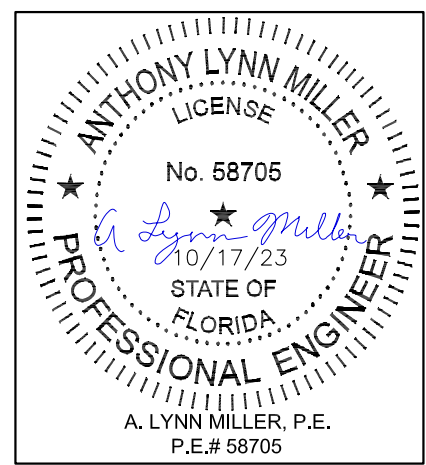


78 **XL EDGE[™]**
SPACER

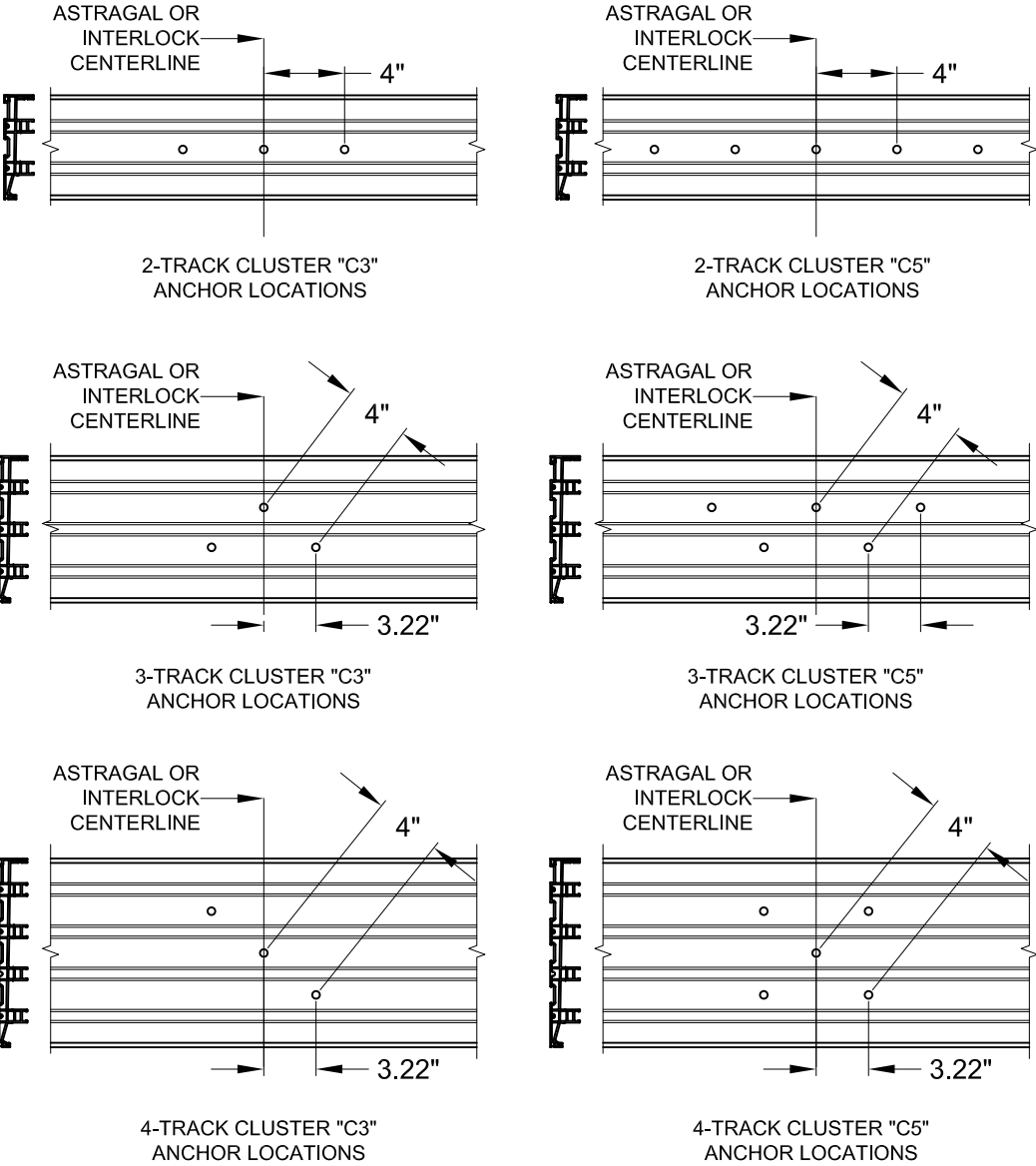
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AN = ANNEALED
HS = HEAT-STRENGTHENED
TP = TEMPERED

- NOTES:
- 1) BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.
 - 2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLAZED, PROVIDED THAT THE "HS" SURFACE OF A LAMINATED GLAZING UNIT IS ADHERED TO THE GLAZING LEG, IF APPLICABLE.

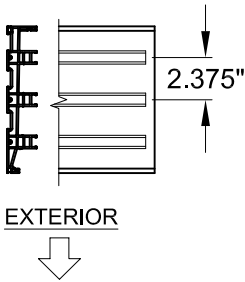
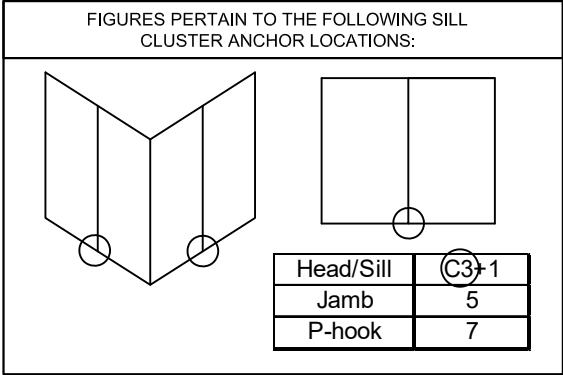
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	GLASS TYPES		SGD5470FPA-LM	
SGD5470	10 OF 25	No.	DWG	10/17/23
Series	Desc.	Title	By	Date



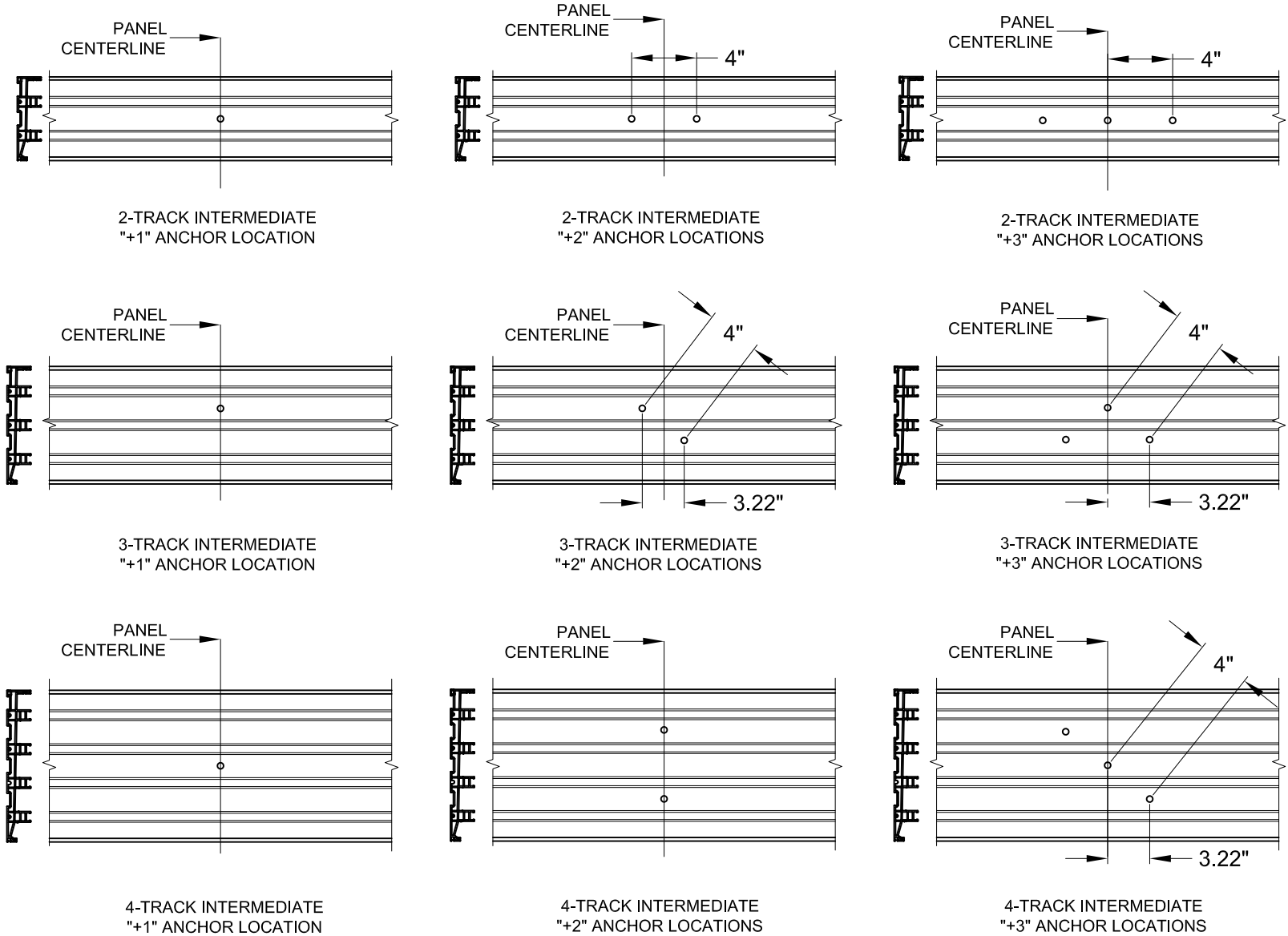
SILL CLUSTER ANCHORS LAYOUT:



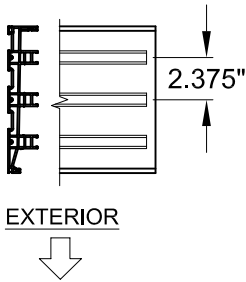
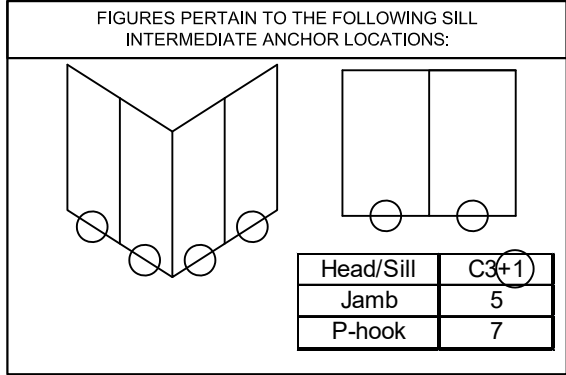
- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



SILL "+" INTERMEDIATE ANCHORS LAYOUT:



- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



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VINYL SLIDING GLASS DOOR (NI)

ANCHOR LOCATIONS A

06/12/11

By JENS ROSOWSKI

11 OF 25

SGD5470

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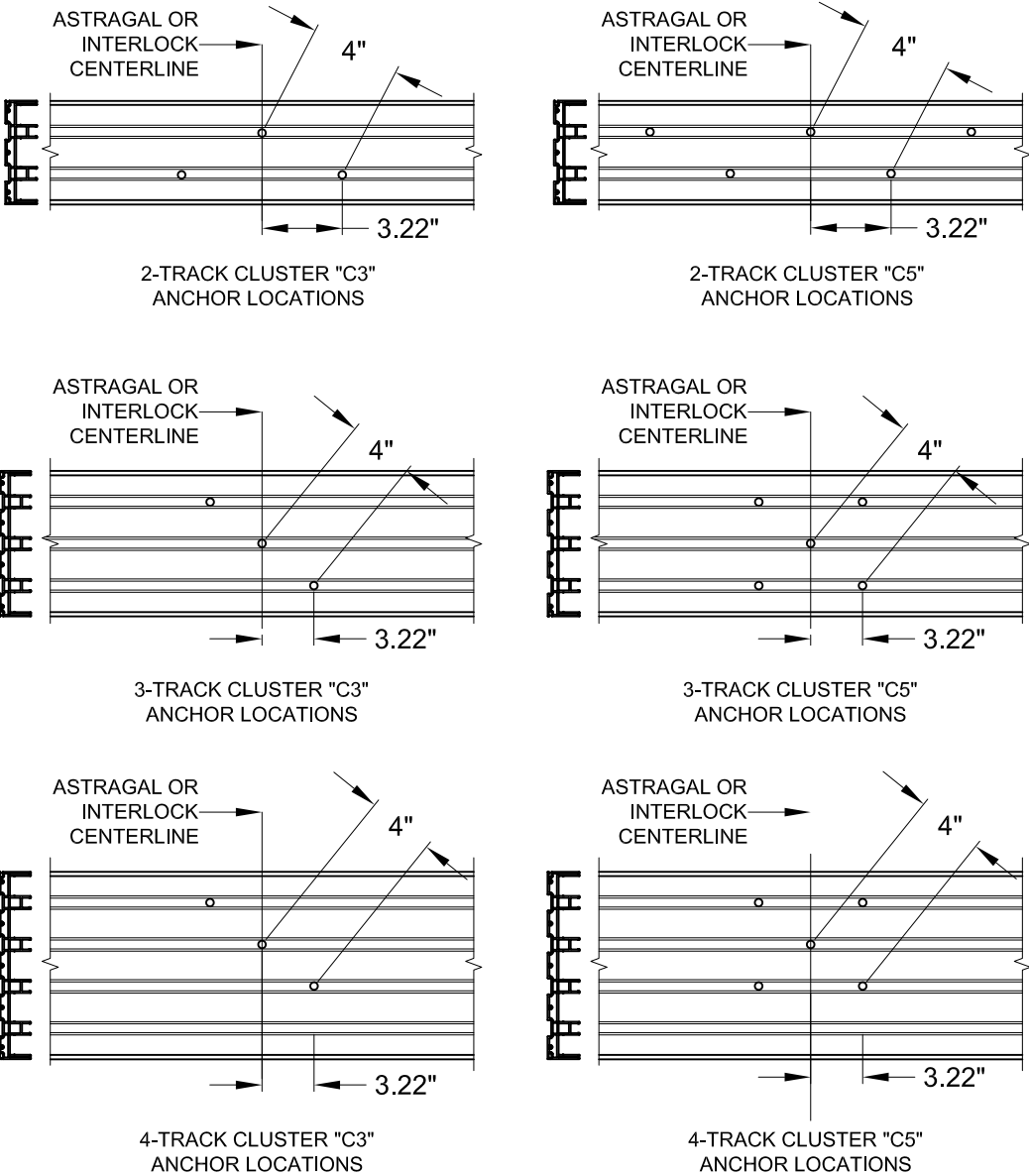
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P.E.# 58705

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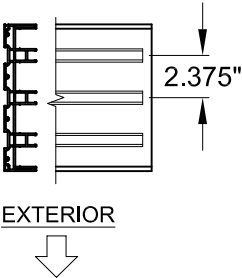
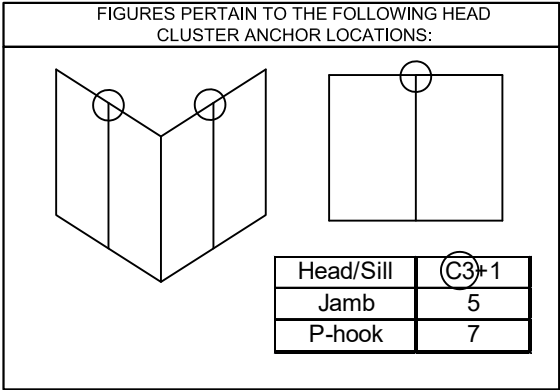
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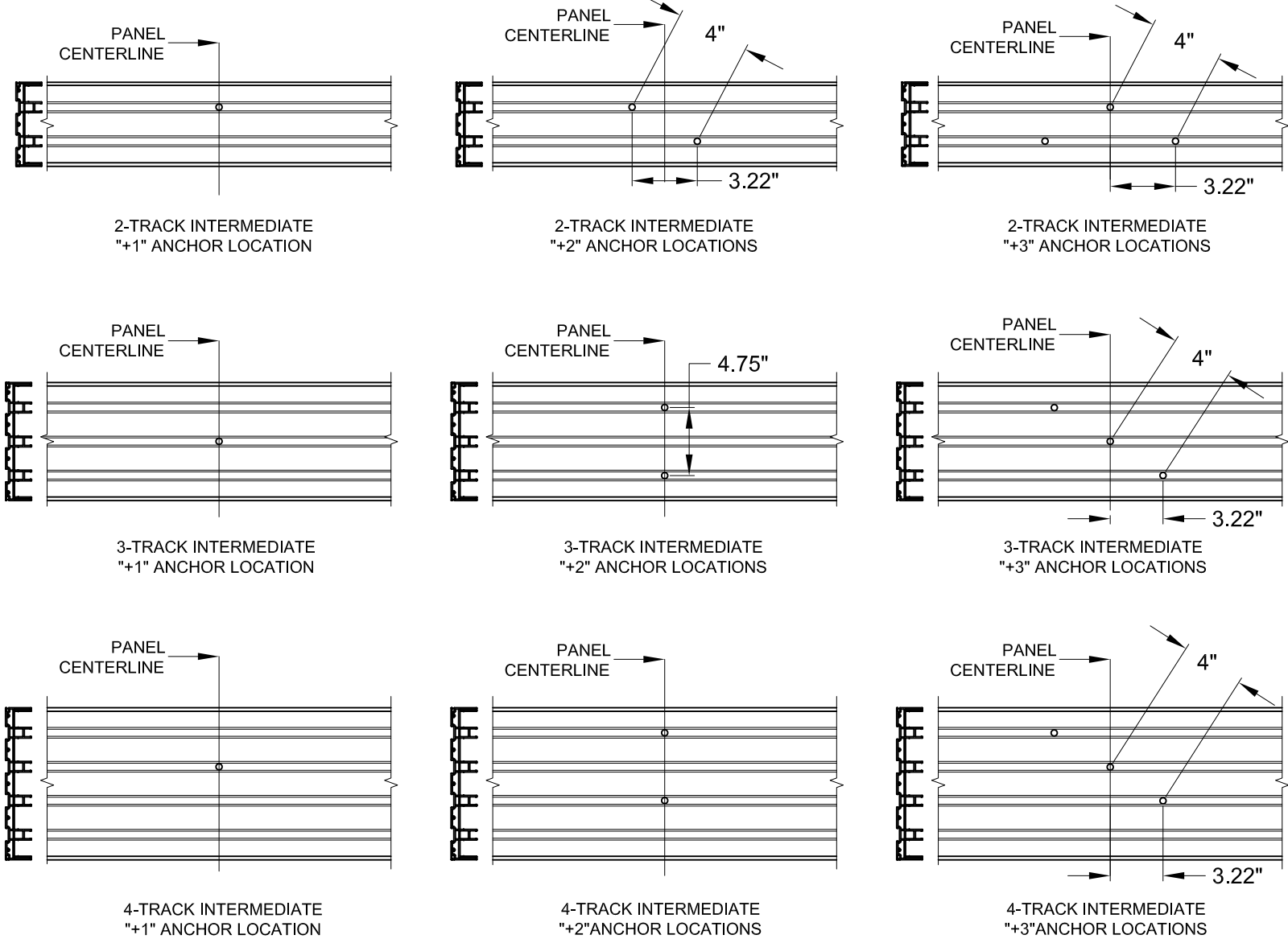
HEAD CLUSTER ANCHORS LAYOUT:



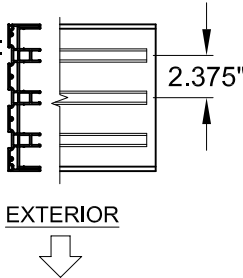
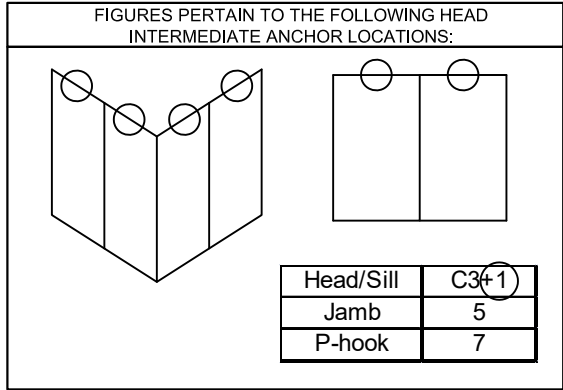
- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



HEAD "+" INTERMEDIATE ANCHORS LAYOUT:



- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



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VINYL SLIDING GLASS DOOR (NI)

ANCHOR LOCATIONS B

SGD5470

06/12/11

By JENS ROSOWSKI

No. 12 OF 25

Sheet

Rev. # 10/17/23

Date

NO CHANGES, THIS SHEET. SB

Rev.

ANTHONY LYNN MILLER

LICENSE

No. 58705

10/17/23

STATE OF FLORIDA

PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

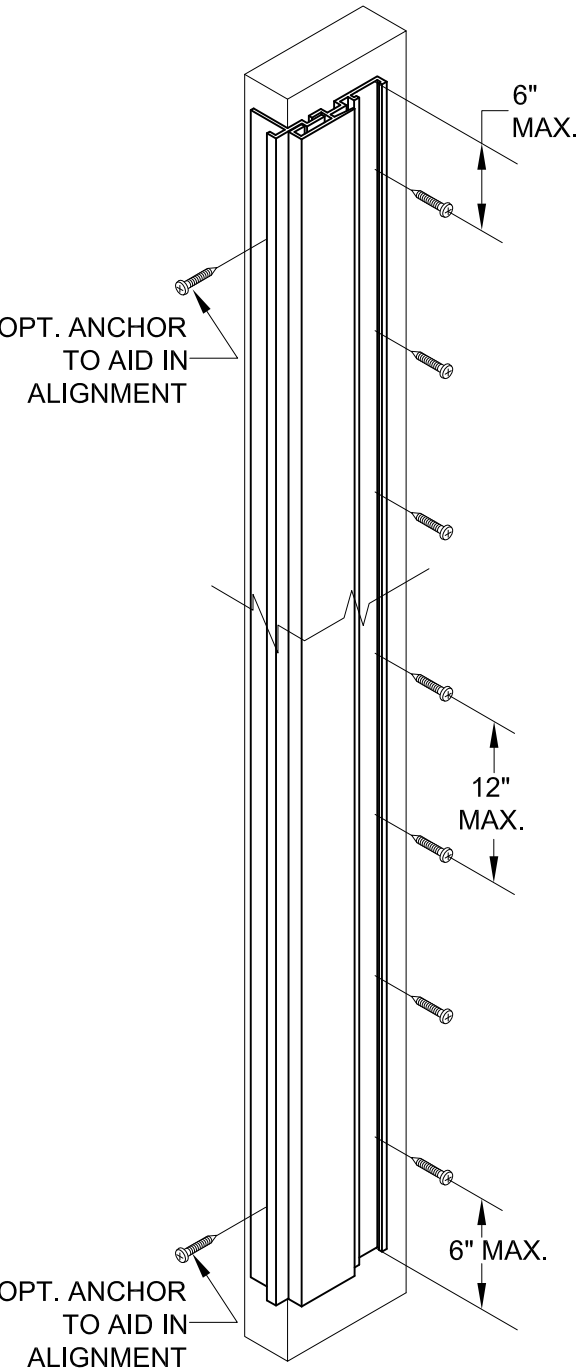
10/17/23

Date

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P-HOOK ANCHORS LAYOUT:

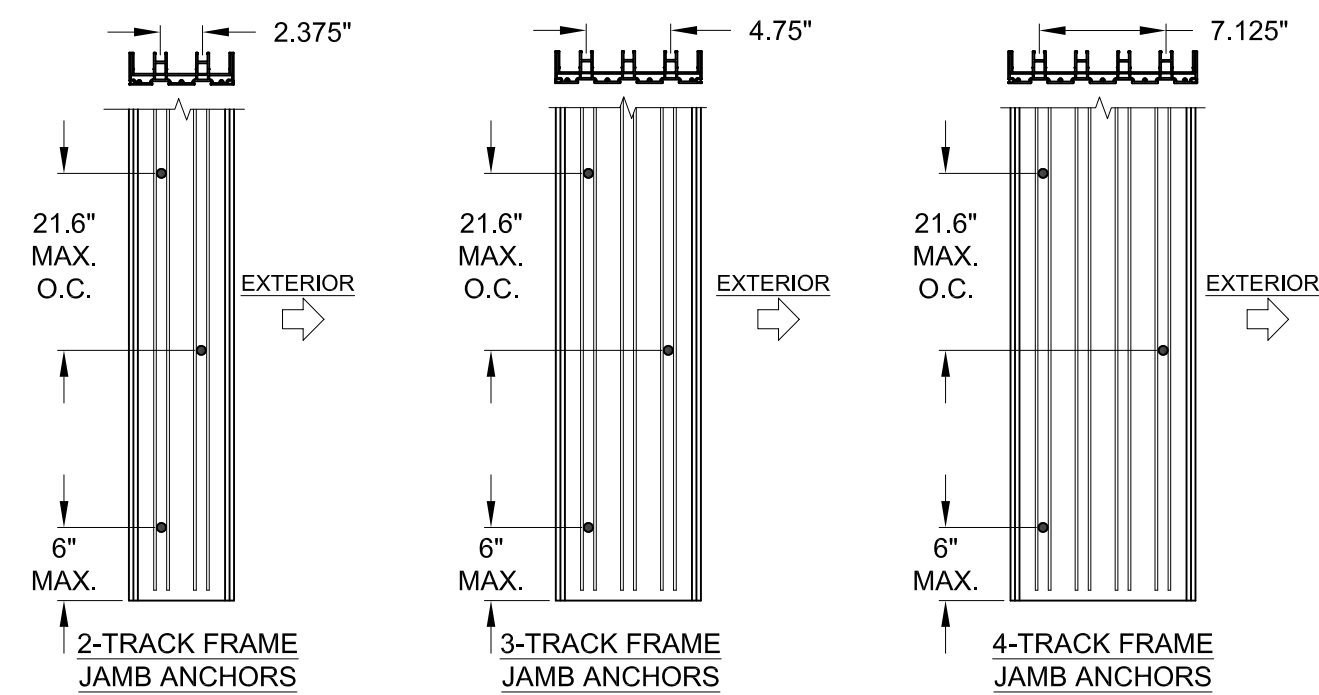


NOTES:
1) SEE TABLES 1 & 2 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.

FIGURES PERTAIN TO THE FOLLOWING POCKET JAMB (P-HOOK) ANCHOR LOCATIONS:

Head/Sill	C3+1
Jamb	5
P-hook	7

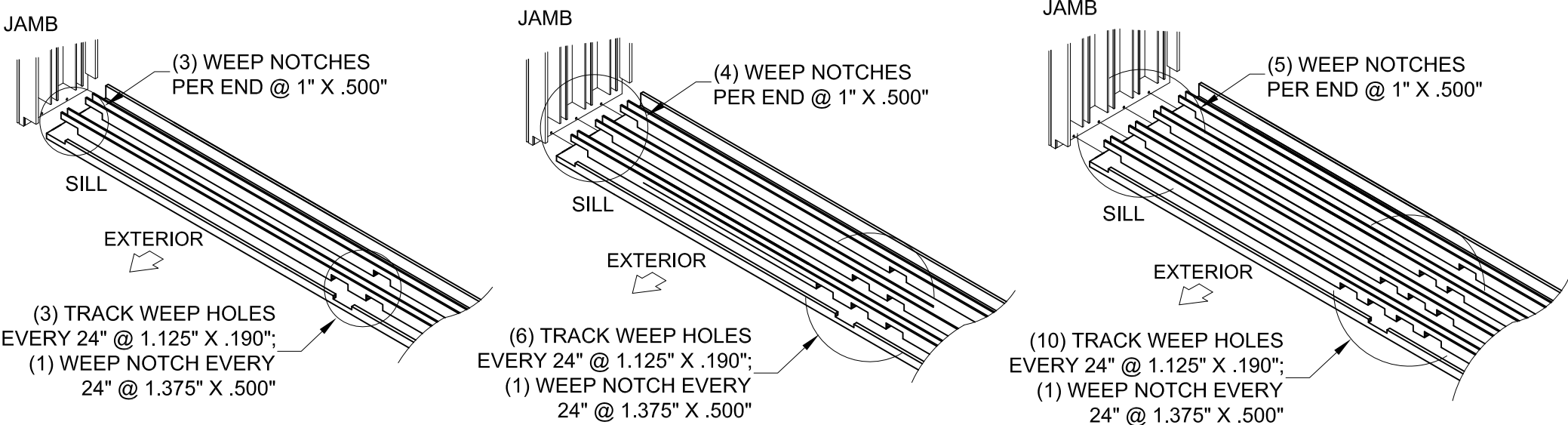
JAMB ANCHORS LAYOUT, (PARTIAL VIEW):



NOTE:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS MAY BE LOCATED IN ADJACENT TRACKS (SIMILAR TO THE 2-TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS.

FIGURES PERTAIN TO THE FOLLOWING JAMB ANCHOR LOCATIONS:

Head/Sill	C3+1
Jamb	5
P-hook	7



SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)

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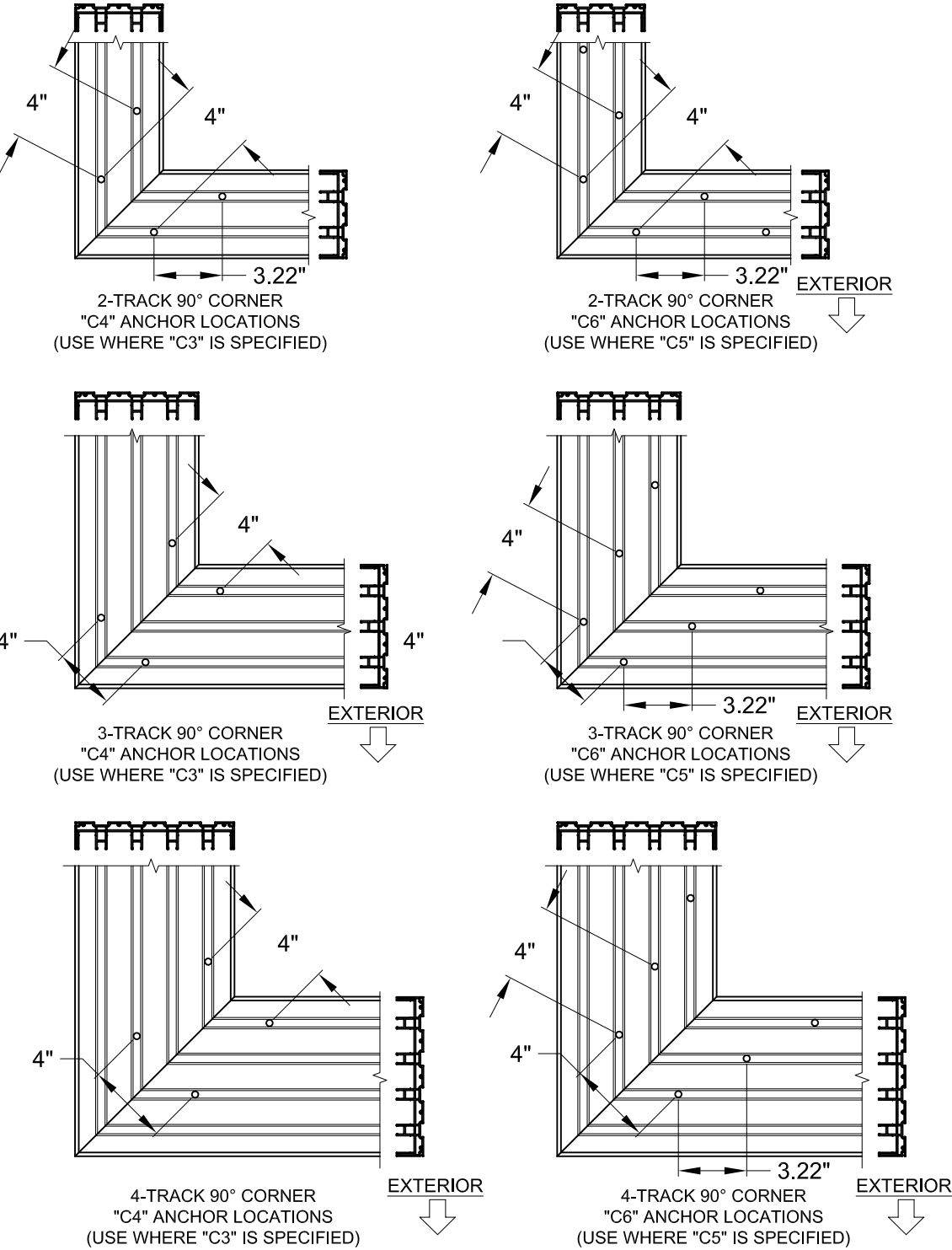
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Date	06/12/11
	By
Title	VINYL SLIDING GLASS DOOR (NI)
	ANCHOR LOCATIONS C
Sheet	13 OF 25
Series	SGD5470
Desc.	ANCHOR LOCATIONS C
No.	13 OF 25
DWG	SGD5470FPA-LM
Rev.	NO CHANGES, THIS SHEET. SB

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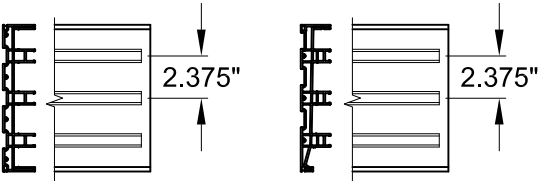
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT:



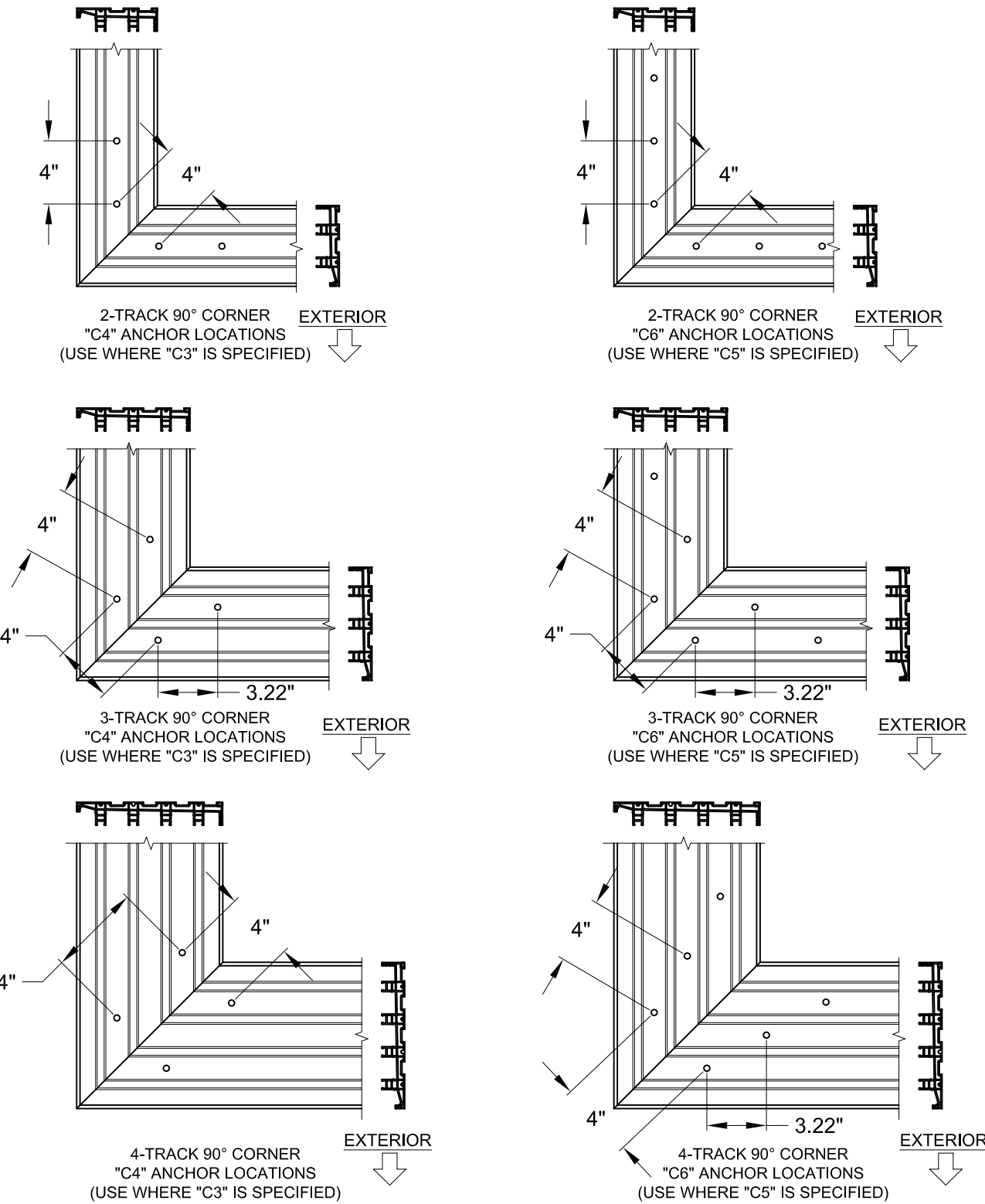
FIGURES PERTAIN TO THE FOLLOWING 90° CORNER HEAD ANCHOR LOCATIONS:

Head/Sill	(C3)+1
Jamb	5
P-hook	7

- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 - 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
 - 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



SILL 90° CORNER CLUSTER ANCHORS LAYOUT:



FIGURES PERTAIN TO THE FOLLOWING 90° CORNER SILL ANCHOR LOCATIONS:

Head/Sill	(C3)+1
Jamb	5
P-hook	7

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VINYL SLIDING GLASS DOOR (NI)

ANCHOR LOCATIONS D

SGD5470

Date

06/12/11

By

JENS ROSOWSKI

No.

14 OF 25

Sheet

SGD5470FPA-LM

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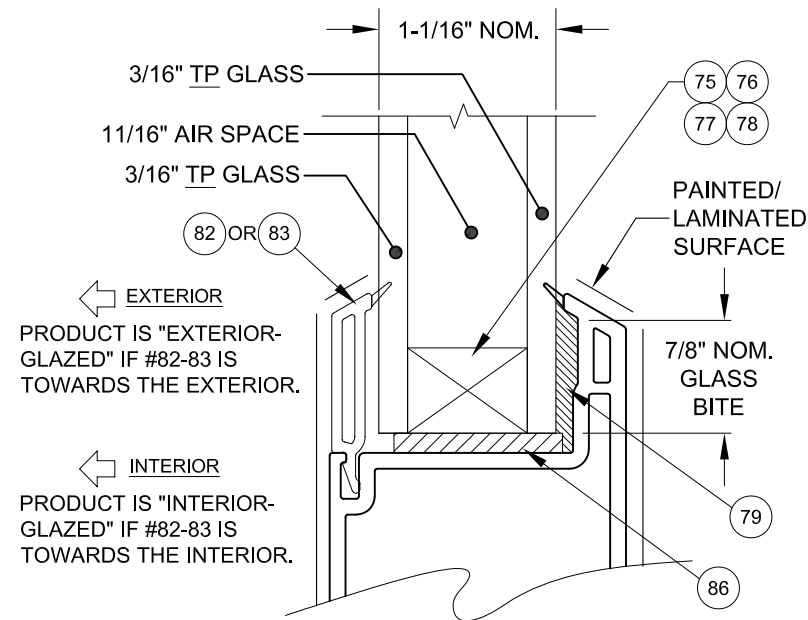
No. 58705

10/17/23

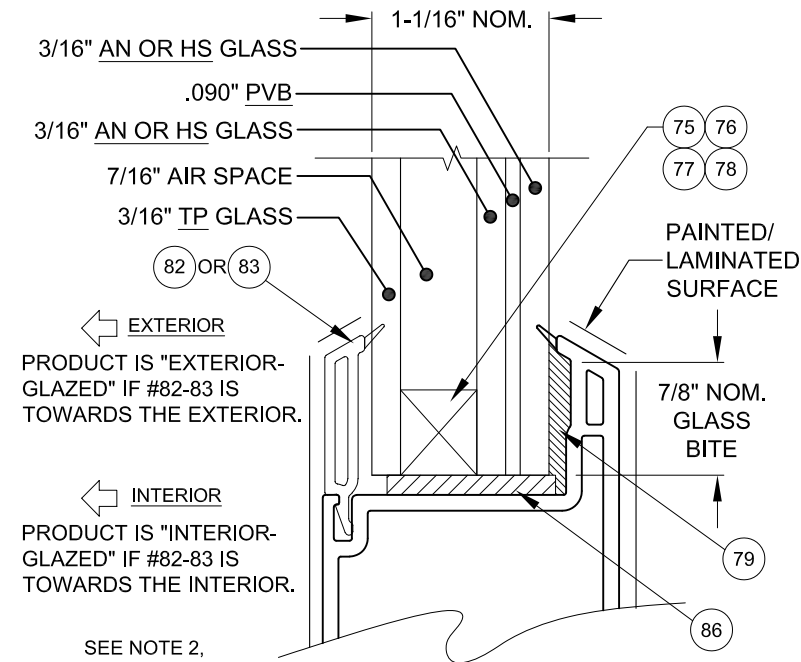
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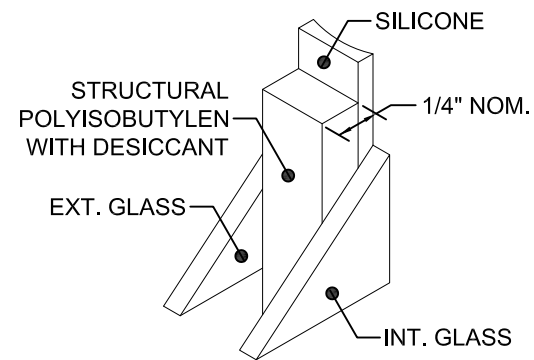
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P.E.# 58705



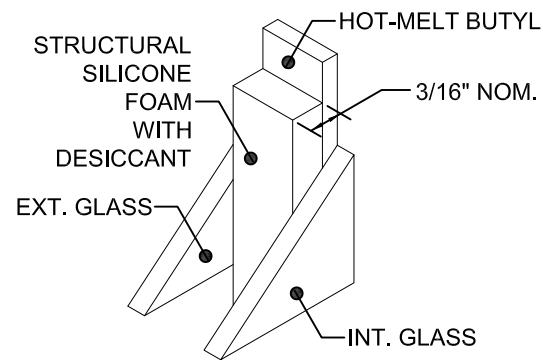
GLASS TYPE 1



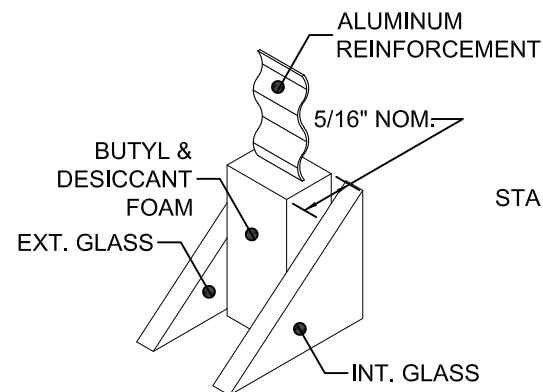
GLASS TYPE 2 (AN/AN)
GLASS TYPE 3 (HS/HS)



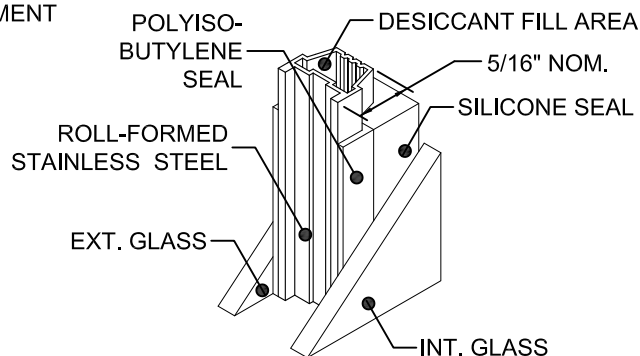
75 KODISPACE
4SG TPS



76 SUPER
SPACER[®] NXT[™]



77 DURASEAL[®]
SPACER

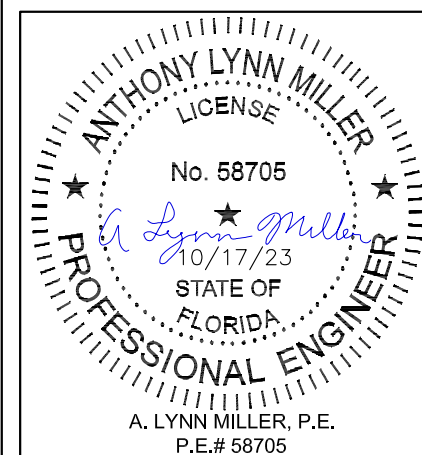


78 XL EDGE[™]
SPACER

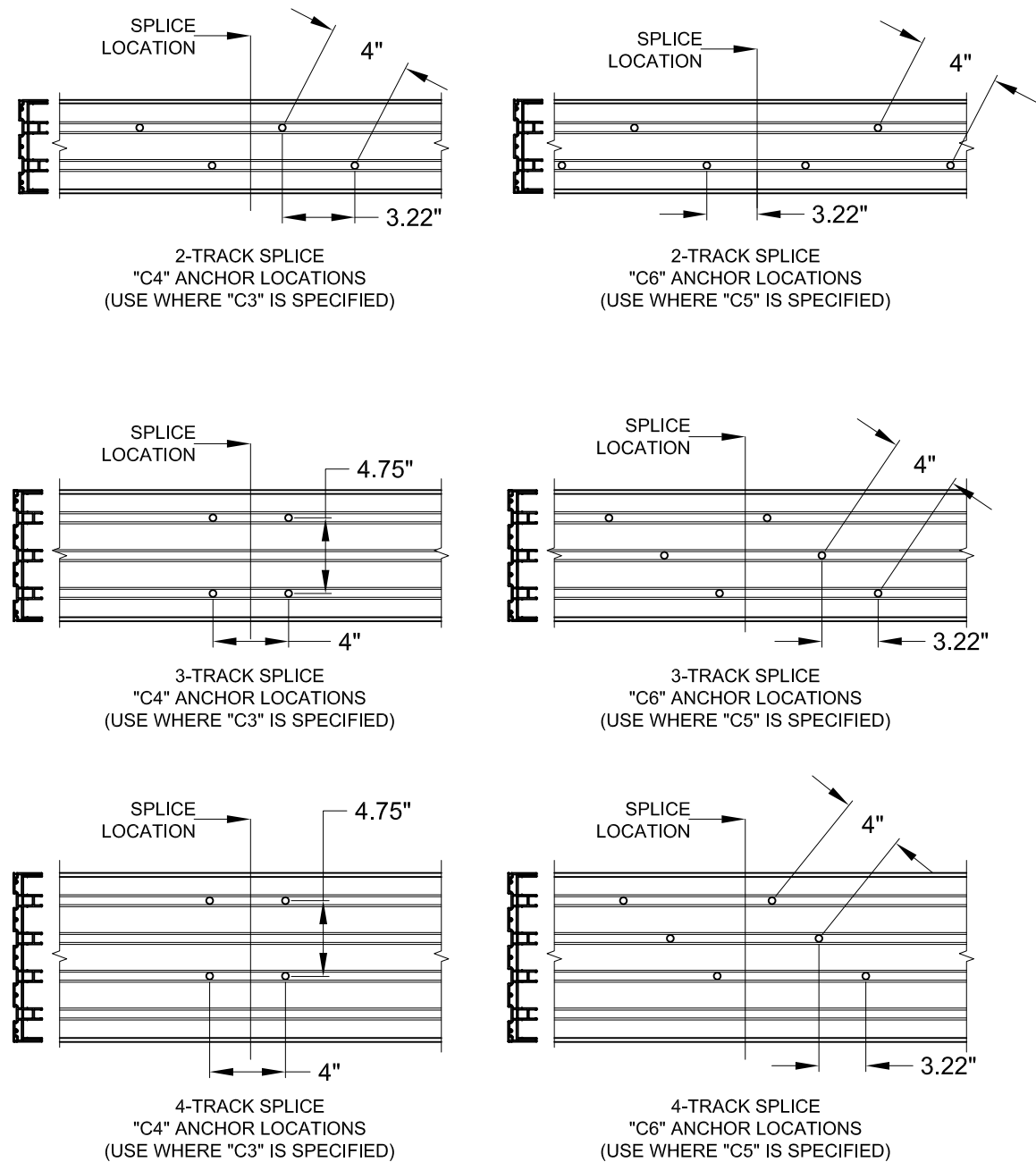
PVB = KURARAY TROSIFOL PVB
INTERLAYER BY KURARAY AMERICA, INC.
AN = ANNEALED
HS = HEAT-STRENGTHENED
TP = TEMPERED

- NOTES:
- 1) BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.
 - 2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLAZED, PROVIDED THAT THE "HS" SURFACE OF A LAMINATED GLAZING UNIT IS ADHERED TO THE GLAZING LEG, IF APPLICABLE.

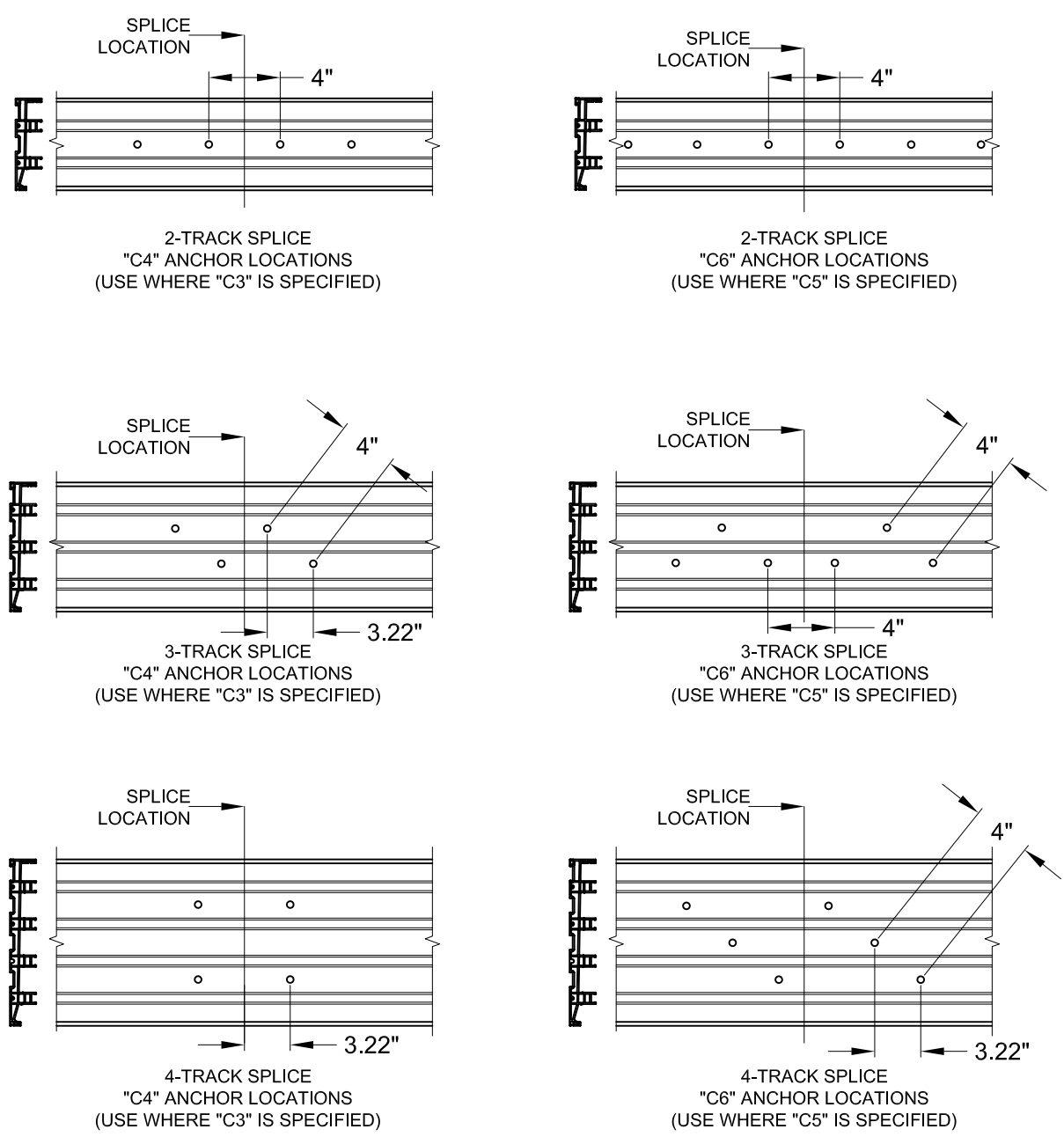
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PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI)		JENS ROSOWSKI	
GLASS TYPES		10 OF 25		SGD5470FPA-LM	
SGD5470		Sheet		DWG	
Series		Desc.		Title	



HEAD SPLICE ANCHORS @ INTERLOCK OR ASTRAGAL:

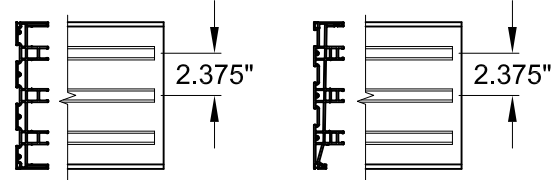


SILL SPLICE ANCHORS @ INTERLOCK OR ASTRAGAL:

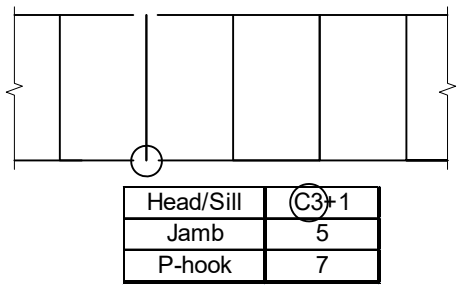


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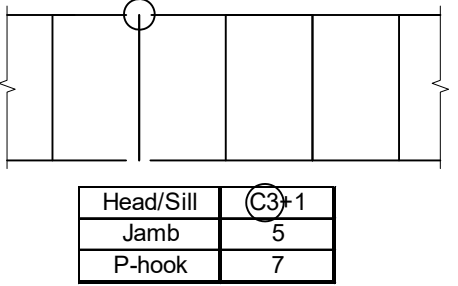
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAGAL OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 9.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:
- 4) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.



FIGURES PERTAIN TO THE FOLLOWING SPLICED SILL ANCHOR LOCATIONS:



FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:



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VINYL SLIDING GLASS DOOR (NI)

ANCHOR LOCATIONS F

SGD5470

Date

06/12/11

By

JENS ROSOWSKI

No.

16 OF 25

Sheet

SGD5470

Rev.

10/17/23

Date

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D

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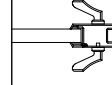
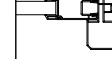
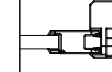
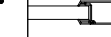
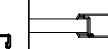
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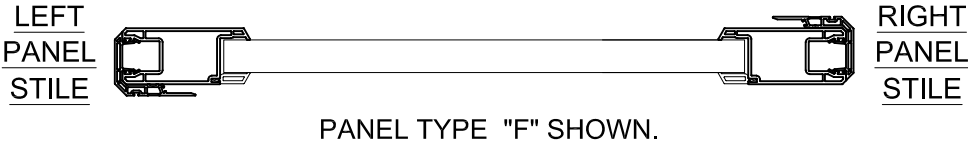
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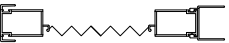
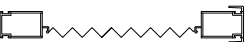
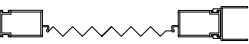
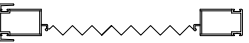
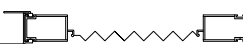
A. LYNN MILLER, P.E.
P.E.# 58705

PANEL TYPES INTERIOR OR EXTERIOR GLAZED		PANEL'S RIGHT STILE TYPE									
		SINGLE INTERLOCK OUT 	SINGLE INTERLOCK IN 	FIXED STILE 	LOCKSTILE W/ HANDLE 	ASTRAGAL BOX OUT 	ASTRAGAL BOX IN 	OUTSIDE 90° ASTRAGAL RECEIVER 	INSIDE 90° ASTRAGAL RECEIVER 	OUTSIDE 135° ASTRAGAL RECEIVER 	INSIDE 135° ASTRAGAL RECEIVER 
PANEL'S LEFT STILE TYPE	SINGLE INTERLOCK OUT 	<i>E</i>	<i>F</i>	<i>PP</i>	<i>K</i>	<i>L</i> (BOX OUT)	<i>L</i> (BOX IN)	<i>TC</i>	<i>TA</i>	<i>TV</i>	<i>TW</i>
	SINGLE INTERLOCK IN 	<i>B</i>	<i>H</i>	<i>P</i>	<i>A</i>	<i>C</i> (BOX OUT)	<i>C</i> (BOX IN)	<i>SC</i>	<i>SA</i>	<i>SV</i>	<i>SW</i>
	FIXED STILE 	<i>RR</i>	<i>R</i>			<i>S</i> (BOX OUT)	<i>S</i> (BOX IN)	<i>FC</i>	<i>FD</i>	<i>FV</i>	<i>FW</i>
	LOCKSTILE W/ HANDLE 	<i>D</i>	<i>M</i>			<i>J</i> (BOX OUT)	<i>J</i> (BOX IN)				
	ASTRAGAL BOX OUT 	<i>LR</i> (BOX OUT)		<i>T</i> (BOX OUT)	<i>U</i> (BOX OUT)						
	ASTRAGAL BOX IN 		<i>N</i> (BOX IN)	<i>T</i> (BOX IN)	<i>U</i> (BOX IN)						
	OUT. 90° ASTRAGAL RECEIVER 	<i>CT</i>	<i>CS</i>	<i>CF</i>							
	IN. 90° ASTRAGAL RECEIVER 	<i>AT</i>	<i>AS</i>	<i>DF</i>							
	OUT. 135° ASTRAGAL RECEIVER 	<i>VT</i>	<i>VS</i>	<i>VF</i>							
	IN. 135° ASTRAGAL RECEIVER 	<i>WT</i>	<i>WS</i>	<i>WF</i>							



PANEL NOTES:

- 1) SEE DP/ANCHOR TABLES 1 & 2, SHEETS 7-8 FOR PANEL SIZES & DESIGN PRESSURE.
- 2) PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
- 3) MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".
- 4) PANEL TYPE MAY BE EITHER EXTERIOR (STANDARD) OR INTERIOR GLAZED, BOTH TYPES QUALIFIED BY THIS APPROVAL, SEE DETAILS SHEET 10.

SCREEN PANEL TYPES			
<i>C</i>	DOUBLE INTERLOCK		ASTRAGAL
<i>M</i>	LOCKSTILE		DOUBLE INTERLOCK
<i>J</i>	LOCKSTILE		ASTRAGAL
<i>SD</i>	SINGLE INTERLOCK		DOUBLE INTERLOCK
<i>A</i>	DOUBLE INTERLOCK		LOCKSTILE
<i>U</i>	ASTRAGAL		LOCKSTILE
<i>DS</i>	DOUBLE INTERLOCK		SINGLE INTERLOCK

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VINYL SLIDING GLASS DOOR (NI)

06/12/11

PANEL TYPES

JENS ROSOWSKI

SGD5470

17 OF 25

SGD5470FPA-LM

Anthony Lynn Miller
Professional Engineer
No. 58705
10/17/23
State of Florida

A. LYNN MILLER, P.E.
P.E.# 58705

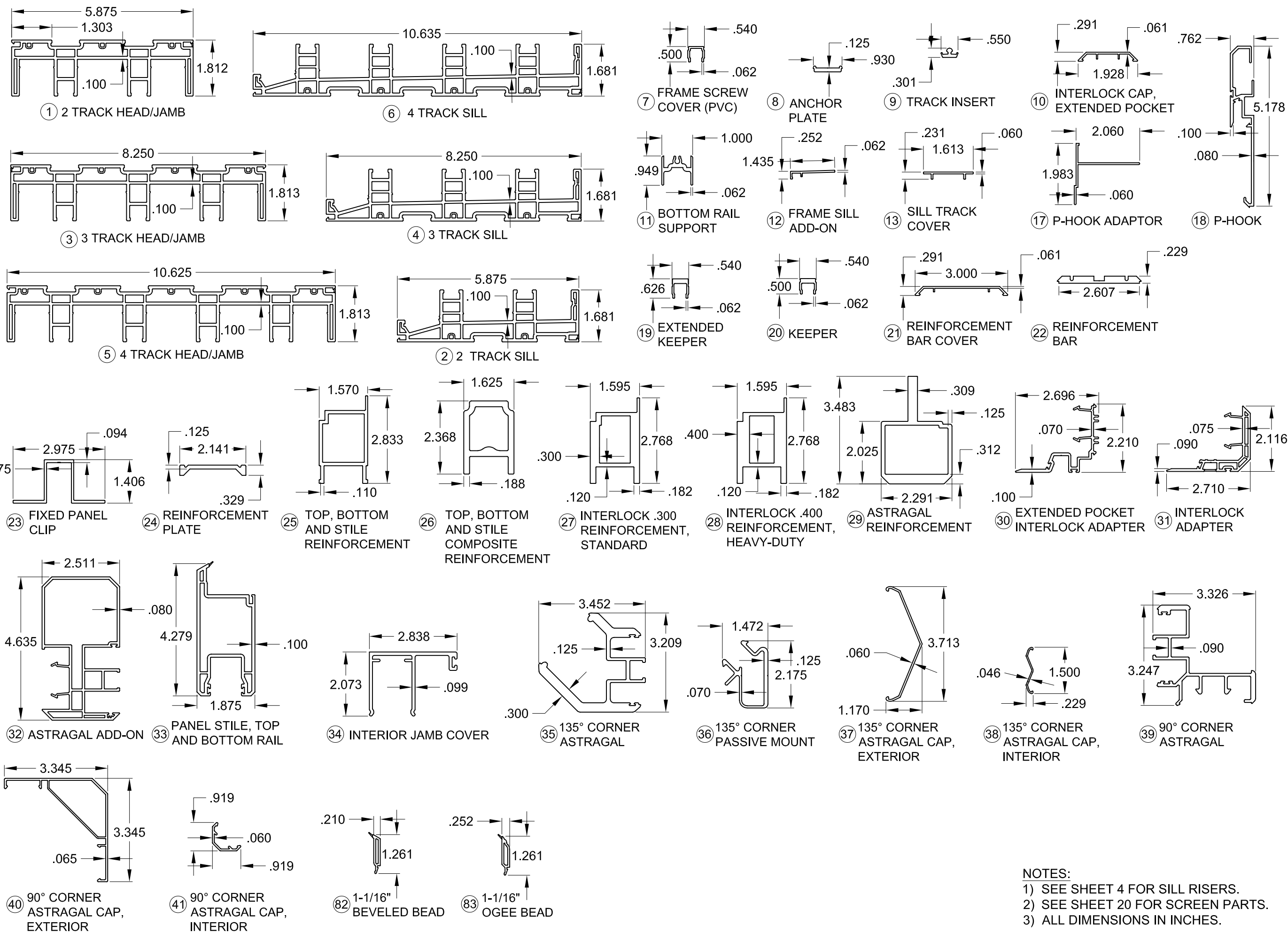
Rev. #

10/17/23

Date

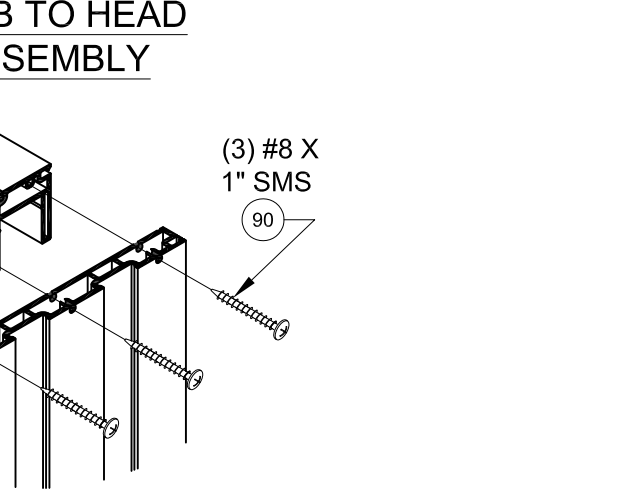
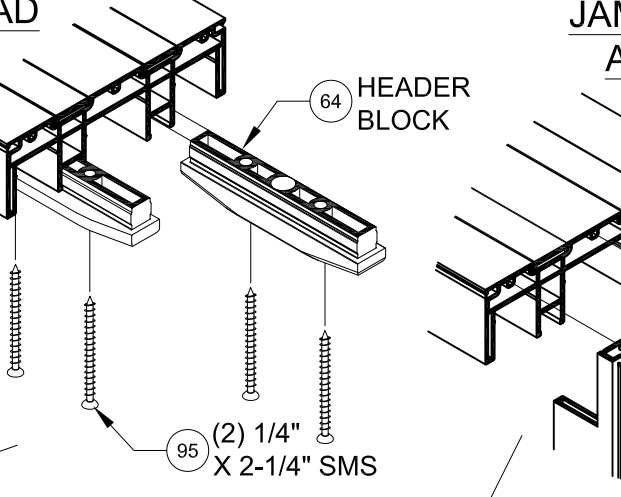
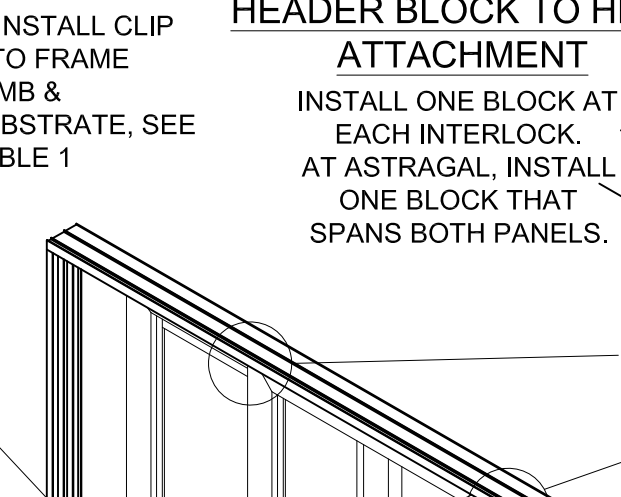
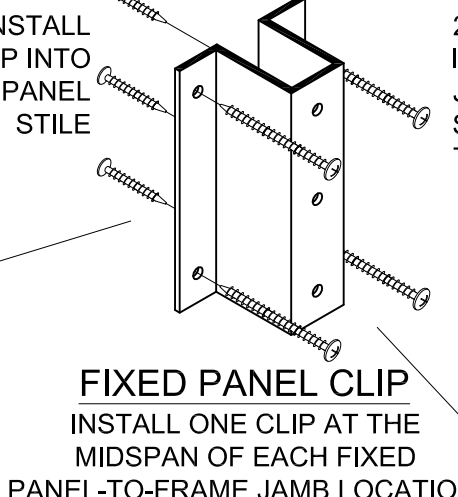
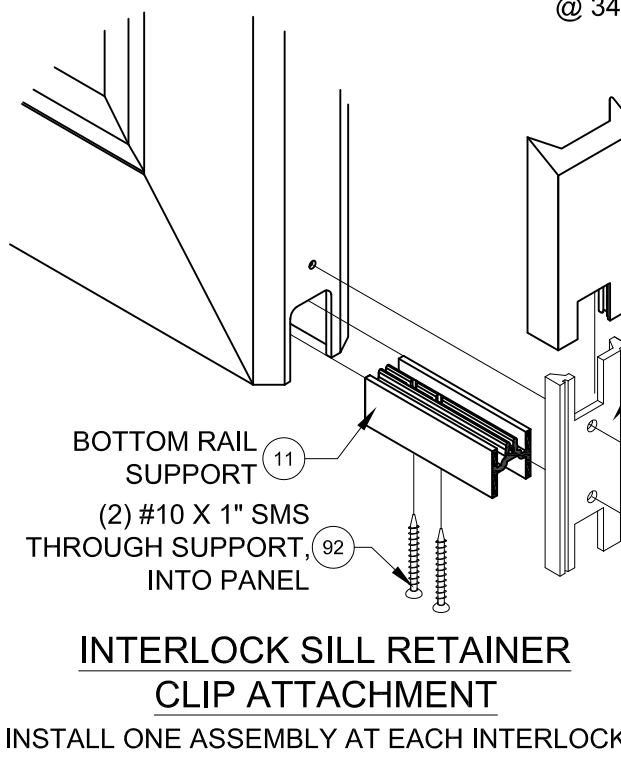
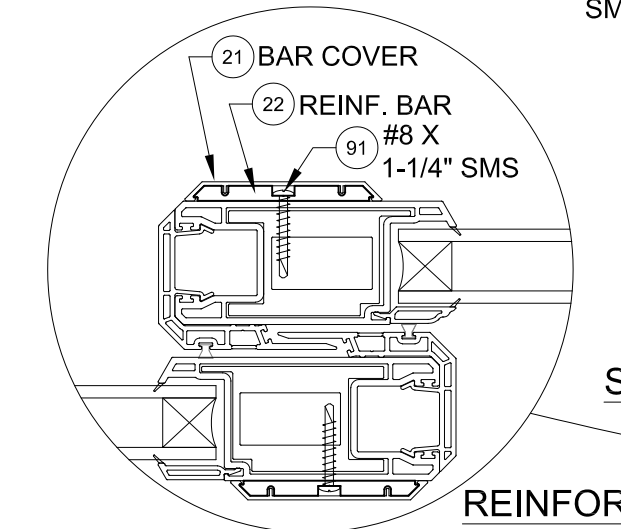
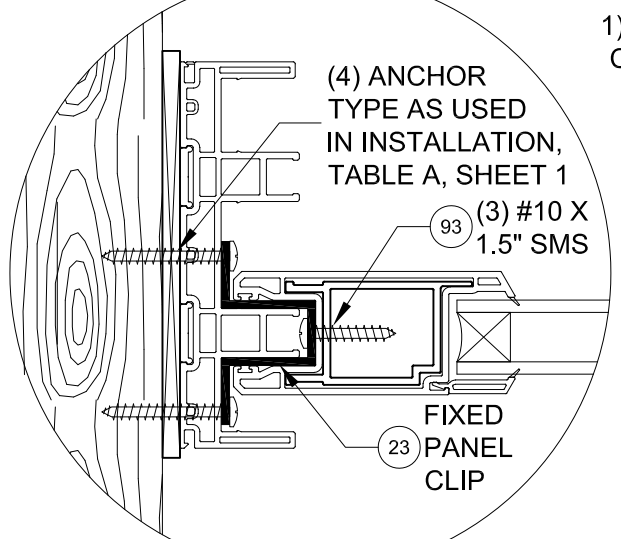
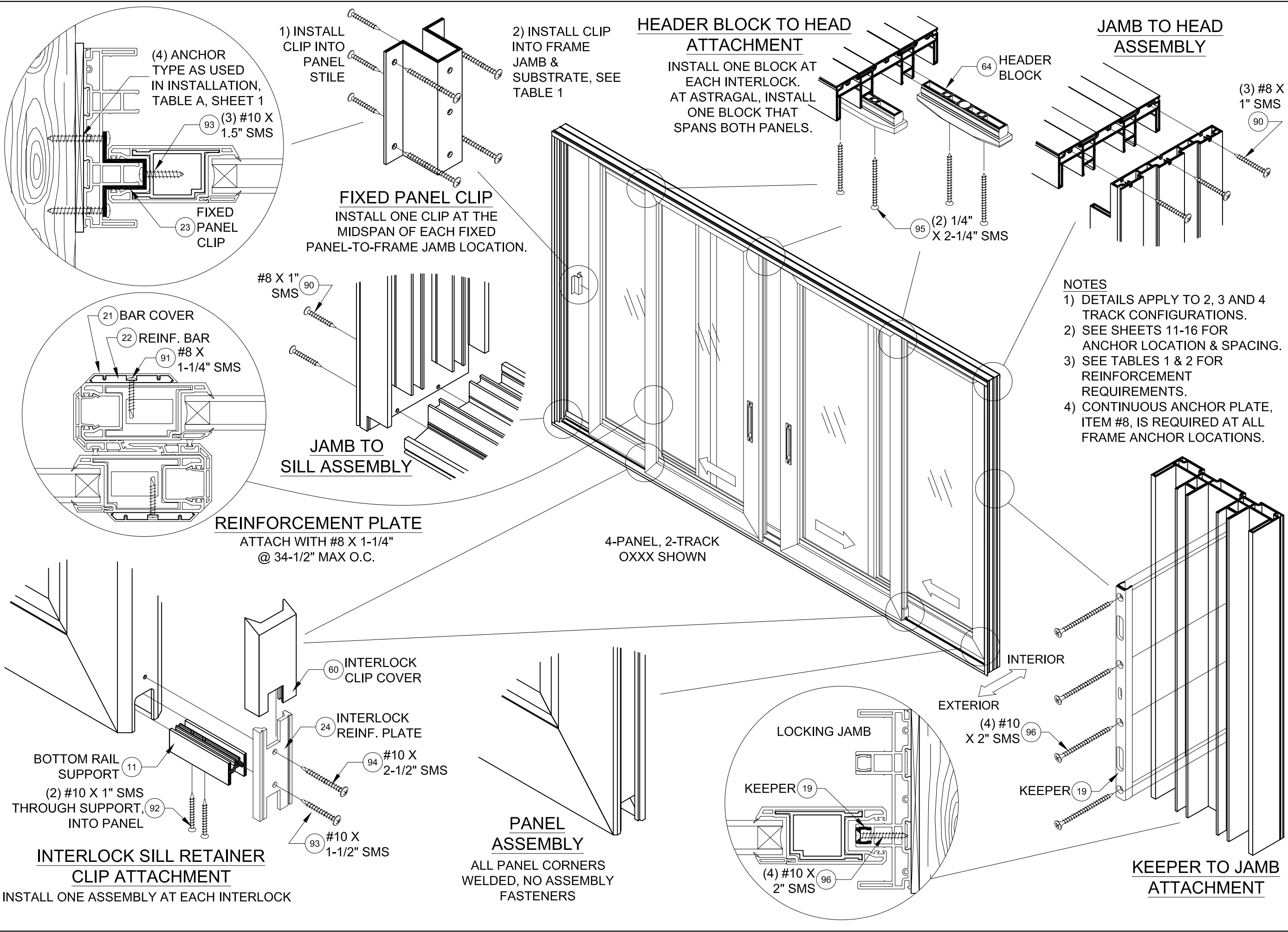
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NOTES:
1) SEE SHEET 4 FOR SILL RISERS.
2) SEE SHEET 20 FOR SCREEN PARTS.
3) ALL DIMENSIONS IN INCHES.

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PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI)		18 OF 25		Sheet		SGD5470	
EXTRUSIONS		Date		Title		Desc.		Series	
ANTHONY LYNN MILLER LICENSE No. 58705 10/17/23 STATE OF FLORIDA A. LYNN MILLER, P.E. P.E.# 58705		NO CHANGES, THIS SHEET. SB		10/17/23		Rev.		D	

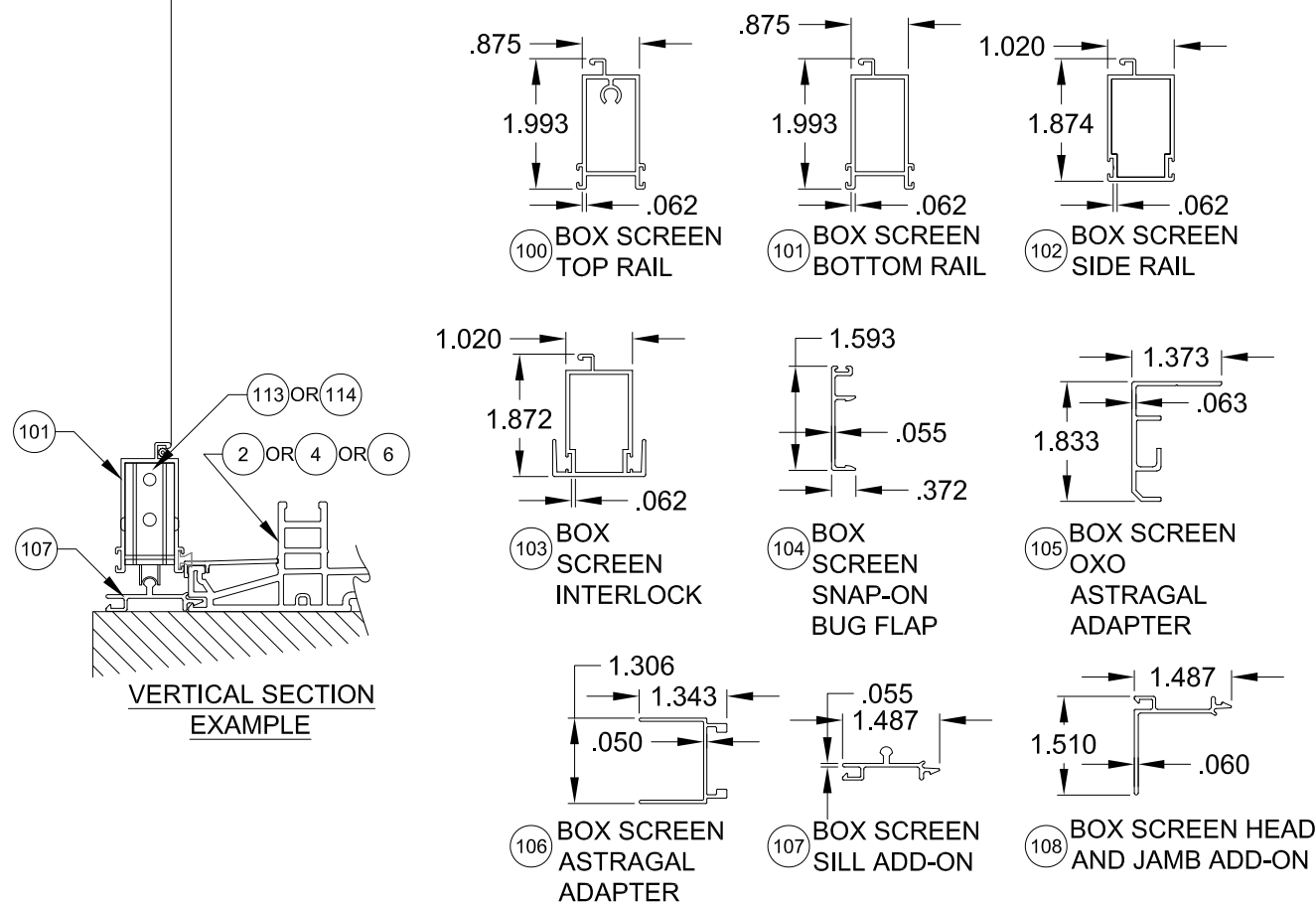
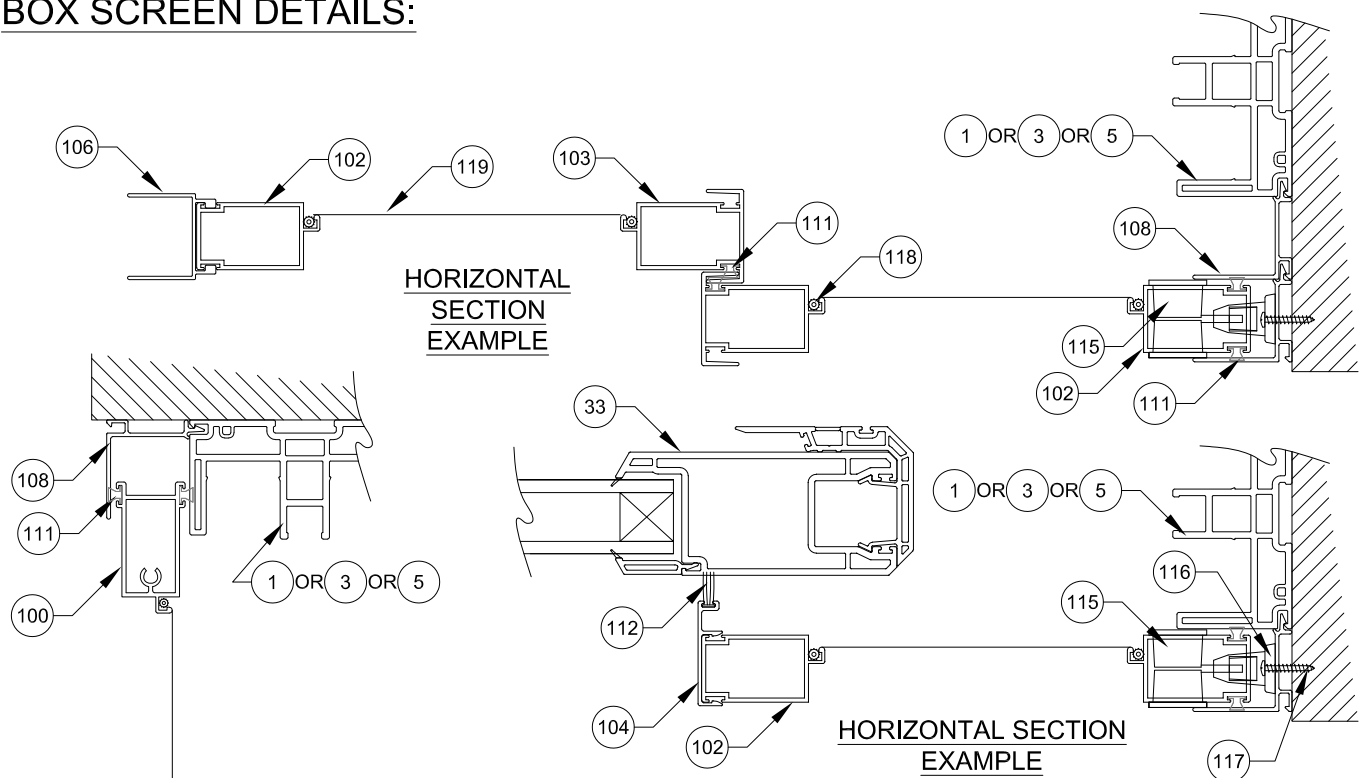


- NOTES**
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 2) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING.
 - 3) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
 - 4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.

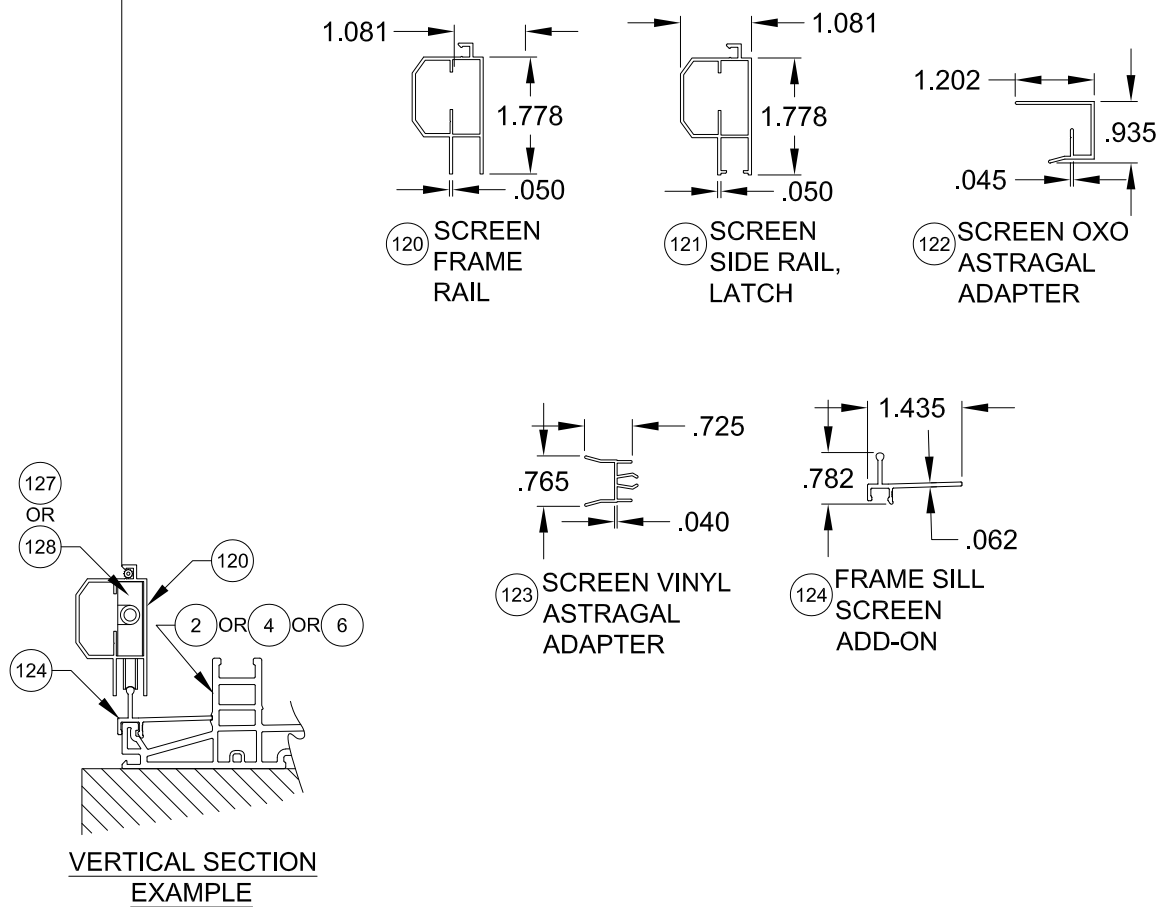
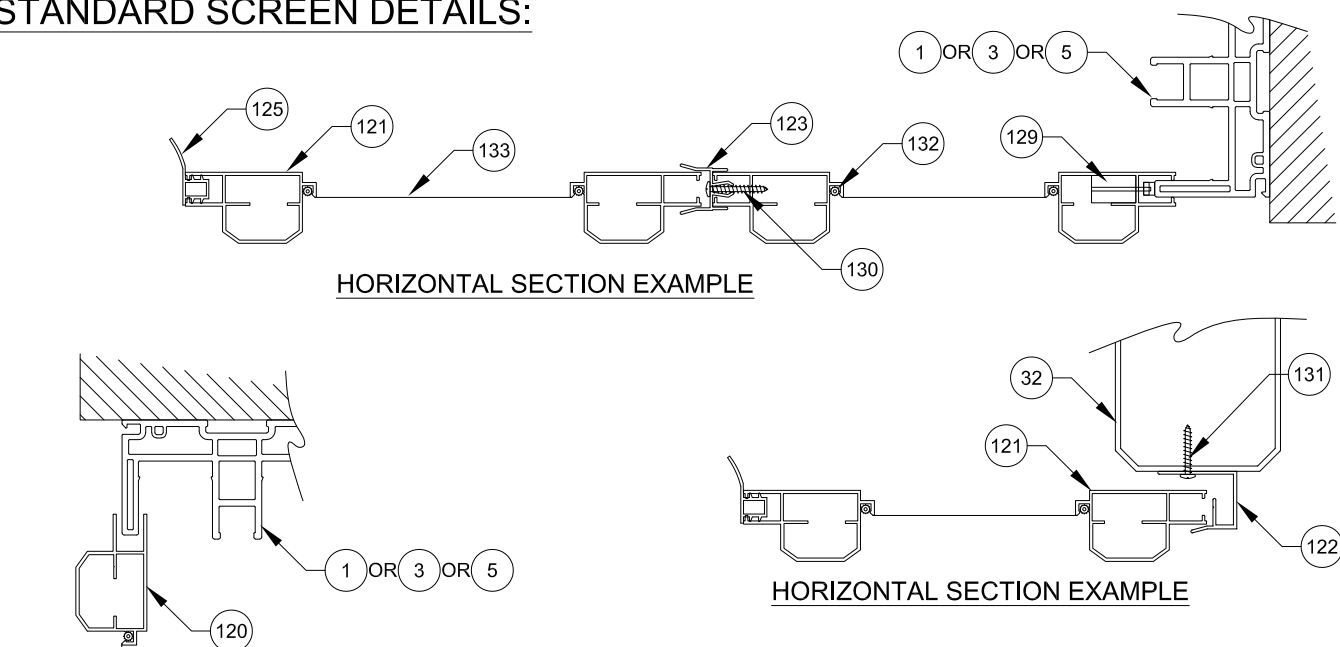
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INSTALLATION, ACCESSORIES		19 OF 25		SGD5470FPA-LM	
SGD5470		Sheet		DWG	
Series		Desc.		Title	

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No. 58705
10/17/23
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P.E.# 58705

BOX SCREEN DETAILS:



STANDARD SCREEN DETAILS:



NOTE:
1) ALL DIMENSIONS IN INCHES.

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PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI)		JENS ROSOWSKI By	
SCREEN DETAILS		20 OF 25		SGD5470FPA-LM	
SGD5470		Sheet		No. DWG	
Series		Desc.		Title	

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/17/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE C:

#	Part #	Description	Material
1	19001	2-Track Head/Jamb	Rigid PVC
2	19002	2-Track Sill	Rigid PVC
3	19025	3-Track Head/Jamb	Rigid PVC
4	19026	3-Track Sill	Rigid PVC
5	19027	4-Track Head/Jamb	Rigid PVC
6	19028	4-Track Sill	Rigid PVC
7	19009	Frame Screw Cover	Rigid PVC
8	19031	Anchor Plate	6063-T6 Alum.
9	19007	Track Insert	6063-T6 Alum.
10	19084	Interlock Cap - Extended Pocket	Rigid PVC
11	19036	Bottom Rail Support	6063-T6 Alum.
12	19006A	Outer Sill Cover	6063-T6 Alum.
13	19011	Sill Track Cover	Rigid PVC
17	19032	P-Hook Adapter	6063-T6 Alum.
18	19020	P-Hook	6063-T6 Alum.
19	19047M	Extended Keeper	6063-T6 Alum.
20	19029M	Keeper	6063-T6 Alum.
21	19014	Reinforcement Bar Cover	Rigid PVC
22	19030	Reinforcement Bar	6005-T5 Alum.
23	19037M	Fixed Panel Clip	6063-T6 Alum.
24	19035M	Reinforcement Plate	6063-T6 Alum.
25	19017M	Top Rail, Bottom Rail and Lockstile Reinforcement	6005-T5 Alum.
26	19046		Composite
27	19018M	Interlock .300 Reinforcement, Std.	6005-T5 Alum.
28	19013M	Interlock .400 Reinforcement, HD	6005-T5 Alum.
29	19019M	Astragal Reinforcement	6005-T5 Alum.
30	19083	Extended Pocket Interlock Adaptor	6063-T6 Alum.
31	19006	Interlock Adaptor	Rigid PVC
32	19008	Astragal Add-on	Rigid PVC
33	19004	Panel Stile, Top/Bottom Rail	Rigid PVC
34	19040	Interior Jamb Cover	6063-T6 Alum.
35	19076	135° Corner Astragal	6063-T6 Alum.
36	19077	135° Corner Astragal Passive Mount	6063-T6 Alum.
37	19079	135° Corner Astragal Cap - Ext.	Rigid PVC
38	19080	135° Corner Astragal Cap - Int.	Rigid PVC
39	19078	90° Corner Astragal	6063-T6 Alum.

#	Part #	Description	Material
40	19081	90° Corner Astragal Cap - Ext.	Rigid PVC
41	19082	90° Corner Astragal Cap - Int.	Rigid PVC
42	19085	Sill Riser - (2-1/2")	6063-T6 Alum.
43	19022A	Sill Riser - (3-1/2")	6063-T6 Alum.
44	19023A	Sill Riser - (4-1/16")	6063-T6 Alum.
45	19024A	Sill Riser - (4-5/8")	6063-T6 Alum.
50	718609W	.187" x .320" Finseal (Stile)	
51	71695K	1-1/2" x 1" x 3/4" Fin Seal Dust Plug	
52	71696	Dust Plug	
60	419041	Interlock Clip Cover	PVC
61	78153X	Tandem Roller Assembly	SS
62	78153N	Tandem Roller Assembly	Nylon
63	78X75FPTX	#8 x 3/4" Ph. FH SMS @ Roller & Reinf.	SS
64	419042	Frame Header Block	Nylon
65	48052	Roller Adj. Hole Plug	PVC
66	44385	4 Hole Bumper Stop	PVC
67	76X114FPTX	#6 x 1-1/4" Ph. FH SMS @Bumper Stop	SS
68	71696G	Sill Plug	PVC
69	78185X	Gemini Mortise Lock w/long Trim plate	Steel/SS
70	71032X1FPFX	10-32 x 1" Ph.FH MS @ Lock	SS
71	varies	Handle Kit	Cast Zinc
75		Kommerling 4SG TPS Spacer System	See Sheet 10 for Materials
76		Quanex Super Spacer nXT with Hot Melt Butyl	
77		Quanex Duraseal	
78		Cardinal XL Edge Spacer	
79		Dow-791, 983, 995 or RGS-7700 Backbedding	Silicone
82	19044	1-1/16" Beveled Bead	Rigid PVC
83	19045	1-1/16" Ogee Bead	Rigid PVC
86	71726K	Setting Block 1" x 4" x 1/16", 85 +/- 5 duro.	Neoprene
90	781PSTX	#8 x 1" Ph. PH SMS @ Frame Assembly	SS
91	78X114PHPT410X	#8 x 1-1/4" Ph. PH SMS @ Reinf. Bar	SS
92	710X1PHPT18-8X	#10 x 1" Ph. PH SMS @ Rail Support	SS
93	710X115PPX	#10 x 1-1/2" Ph. PH SMS @ Fxd. Pnl. Clip	SS
94	710X2.5PHPT18-8X	#10 x 2-1/2" Ph. PH SMS @ Reinf. Plate/Ast.	SS
95	71420X2.25FPFX	#12 x 2-1/4" Ph. PH SMS @ Hdr. Block	SS
96	710X1.75PPX	#10 x 1-3/4" Ph. FH SMS @ Keeper	SS
97	710X34PPX	#10 x 3/4" Ph. PH SMS @ Ext. Pkt. Int.	SS

TABLE D: BOX SCREEN

#	Part #	Description	Material
100	12256	Box Screen Top Rail	6063 T5 Al
101	12257	Box Screen Bottom Rail	6063 T5 Al
102	12258	Box Screen Side Rail	6063 T5 Al
103	64428	Box Screen Interlock	6063 T6 Al
104	17347A	Box Screen Snap-on Bug Flap	6063 T6 Al
105	64345	Box Screen OXO Astragal Adapter	6063 T6 Al
106	17349	Box Screen Astragal Adapter	6063 T5 Al
107	19039	Box Screen Frame Sill Add-on	6063 T6 Al
108	19038	Box Screen Head/Jamb Add-on	6063 T6 Al
109	720X1X	#14-20 x 1" MS @ Top Rail	SS
110	720X112X	#14-20 x 1-1/2" MS @ Bottom Rail	SS
111	71793G	Wstp, .270" x .150" - Fin Seal	
112	61805K	Wstp, .187" x .500" @ Bug Flap	
113	7SRAZ	Standard Roller	Nylon
114	7SRAX	HD Roller	SS
115	varies	Screen Locking Hardware	Steel
116	419053	Screen Keeper	Steel
117	76X1PPA	#6 x 1" Ph. PH SMS	Steel
118	1692/3/4	Screen Spline - .150" & .165"	Vinyl
119	1816C20	Screen Cloth	Fiberglass

TABLE E: STANDARD SCREEN

#	Part #	Description	Material
120	12033	Screen Frame Rail	6063 T5 Al
121	12026A	Screen Frame - Side Rail (Latch)	6063 T5 Al
122	17363	Screen OXO Astragal Adapter	6063 T6 Al
123	4853K	Screen Vinyl Astragal Adapter	Rigid PVC
124	19012B	Frame Sill Screen Add-on	6063 T6 Al
125	6FP95K	Bug Flap, 85 +/- 5 duro.	Vinyl
126	78X112PSATS	#8 x 1-1/2" Ph. PH SMS (Assembly)	SS
127	712027	Corner Key Wheel Assembly (Standard)	Nylon
128	712027SS	Corner Key Wheel Assembly (HD)	SS
129	varies	Screen Locking Hardware	Steel
130	710X34PPSDAX	#10 x 3/4" Ph. PH SMS @ Screen Ast.	SS
131	78X12PPSMSX	#8 x 1/2" Ph. PH SMS @ Door Ast.	SS
132	1692/3/4	Screen Spline - .145"	Vinyl
133	1816C20	Screen Cloth	Fiberglass

NOTES:

1) ITEMS # 14-16, 46-49, 53-59, 72-74, 80, 81, 84, 85, 87-89, 98 & 99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

PREPARED BY A. LYNN MILLER
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VINYL SLIDING GLASS DOOR (NI)

06/12/11

By
JENS ROSOWSKI

SGD5470

21 OF 25

SGD5470FPA-LM

Rev.#

10/17/23

Date

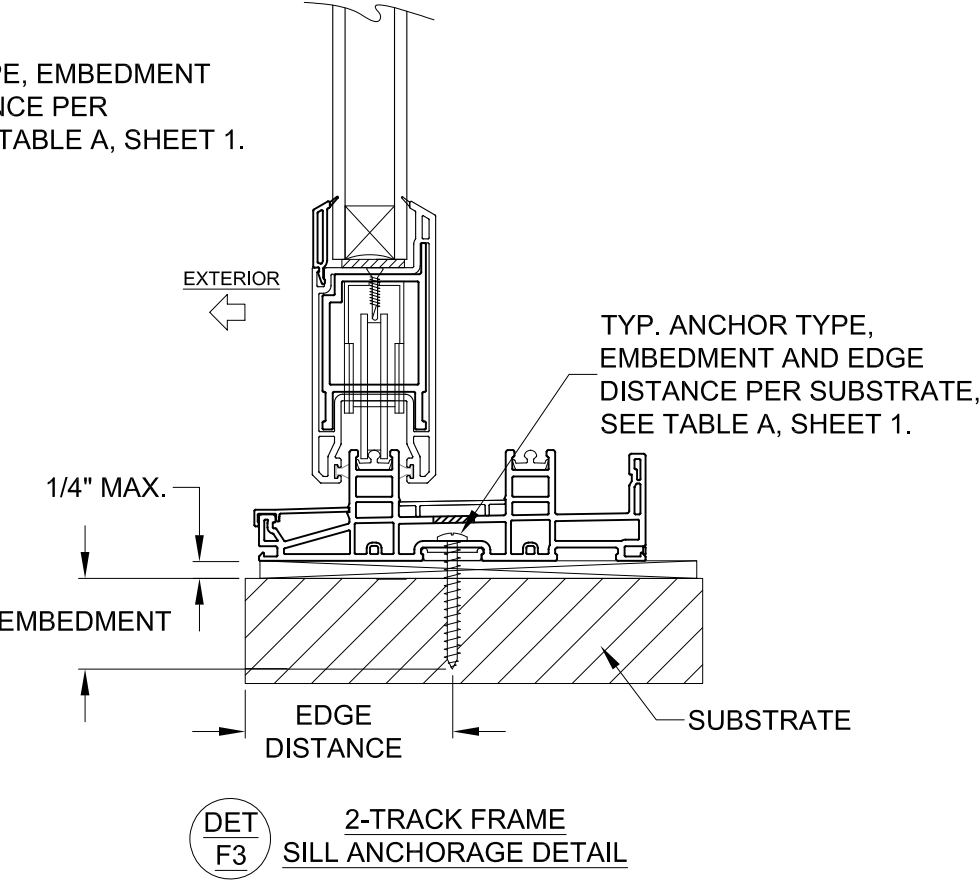
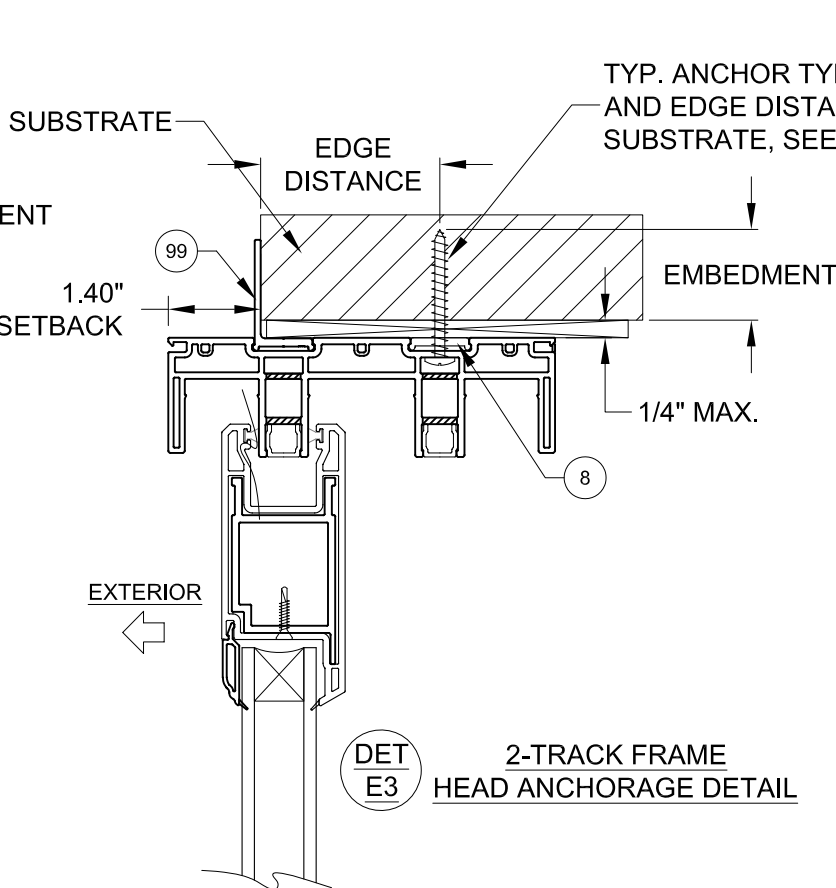
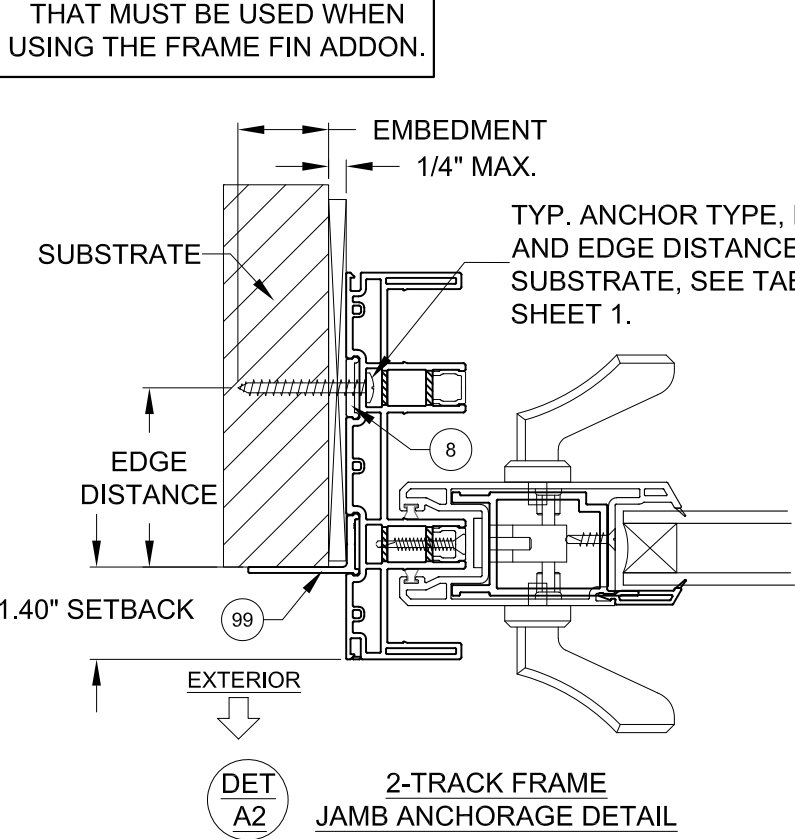
NO CHANGES, THIS SHEET: SB

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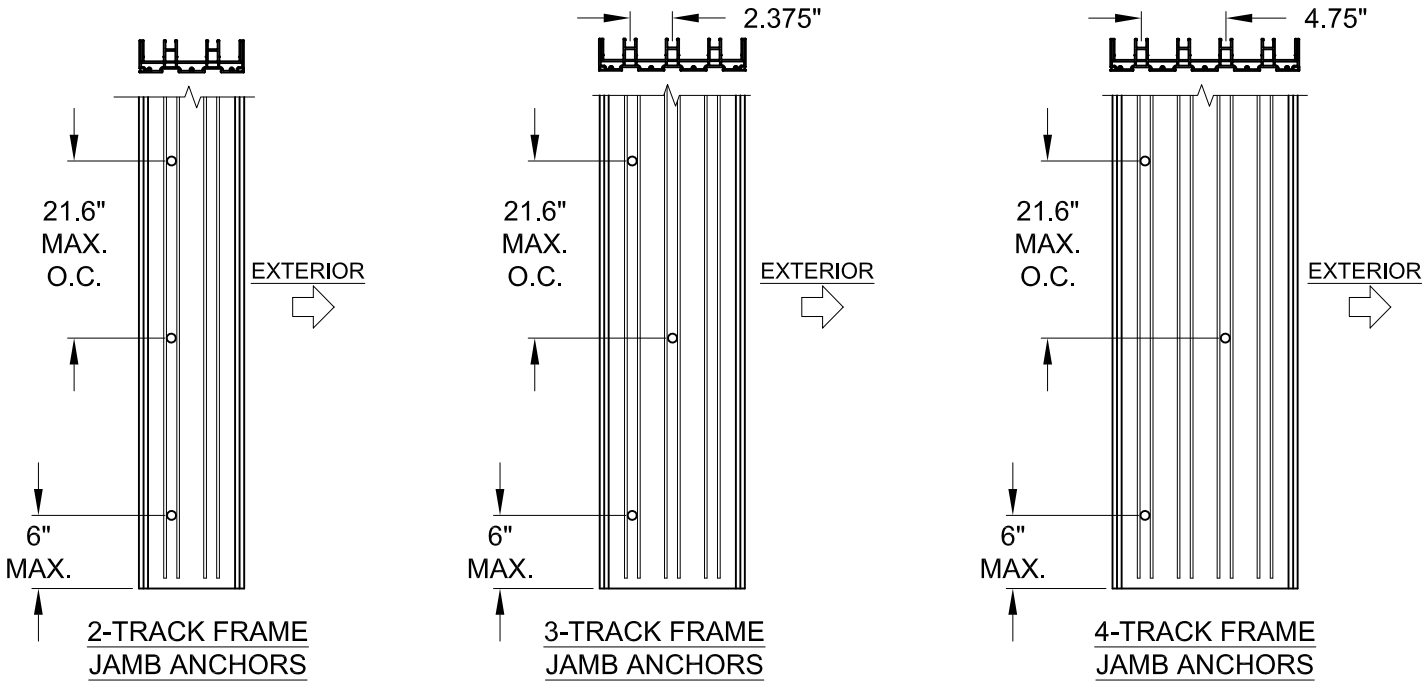
ANCHORAGE DETAILS FOR SGD WHEN INSTALLED WITH FRAME FIN ADDON @ HEAD AND JAMB (SHEETS 22-25)

TO ACHIEVE PROPER ANCHOR
EDGE DISTANCE, THE
FOLLOWING SHEETS (22-25)
SHOW ANCHOR PATTERNS
THAT MUST BE USED WHEN
USING THE FRAME FIN ADDON.

- NOTES:
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 2) REFER TO TABLE A FOR ANCHOR CONSTRAINTS.
 - 3) SILL ANCHORAGE WITH FIN ADDON IS UNCHANGED FROM THE BOX FRAME ANCHORAGE.

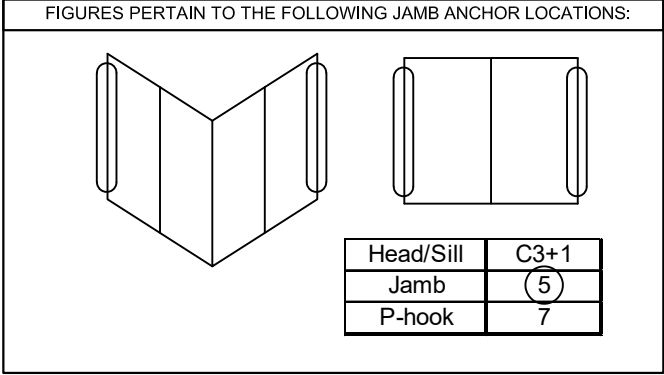


JAMB ANCHORS LAYOUT (USING FRAME FIN ADDON):



NOTE:

- 1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS IN THE INTERIOR TRACK MAY BE LOCATED IN THE ADJACENT TRACK AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS FROM THE INTERIOR.

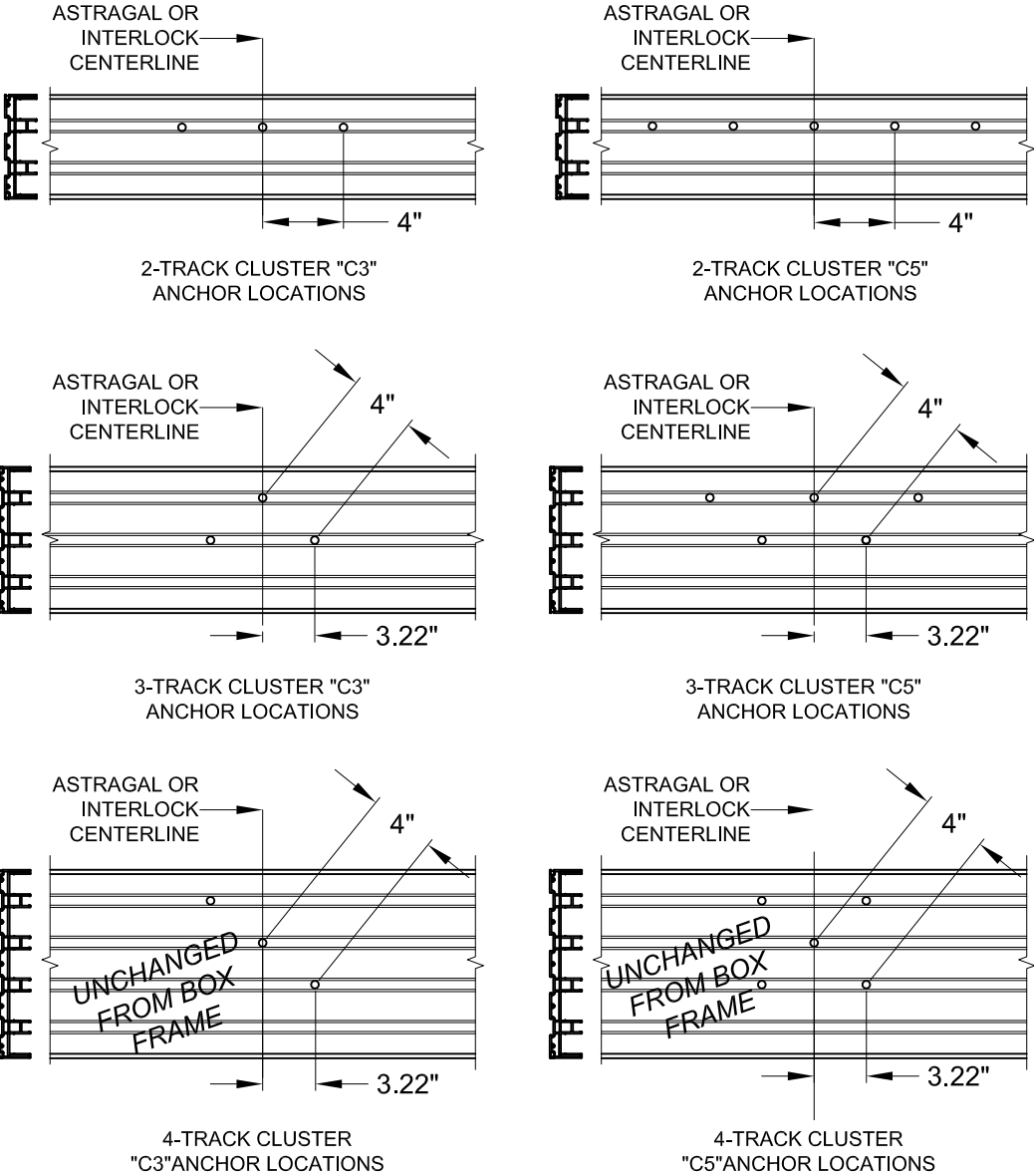


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	N. VENICE, FL 34275	TO MAKE COPIES FOR PERMITTING.	No.			DWG
	(941) 480-1600		22 OF 25			
VINYL SLIDING GLASS DOOR (NI)		ANCHOR LOCATIONS - FIN		SGD5470		

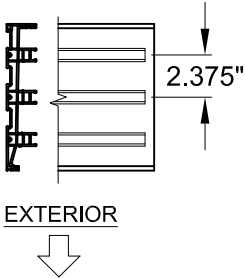
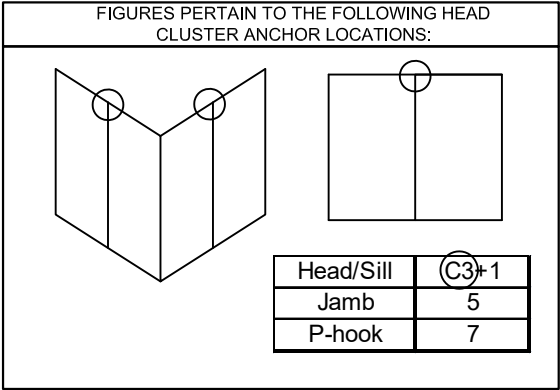
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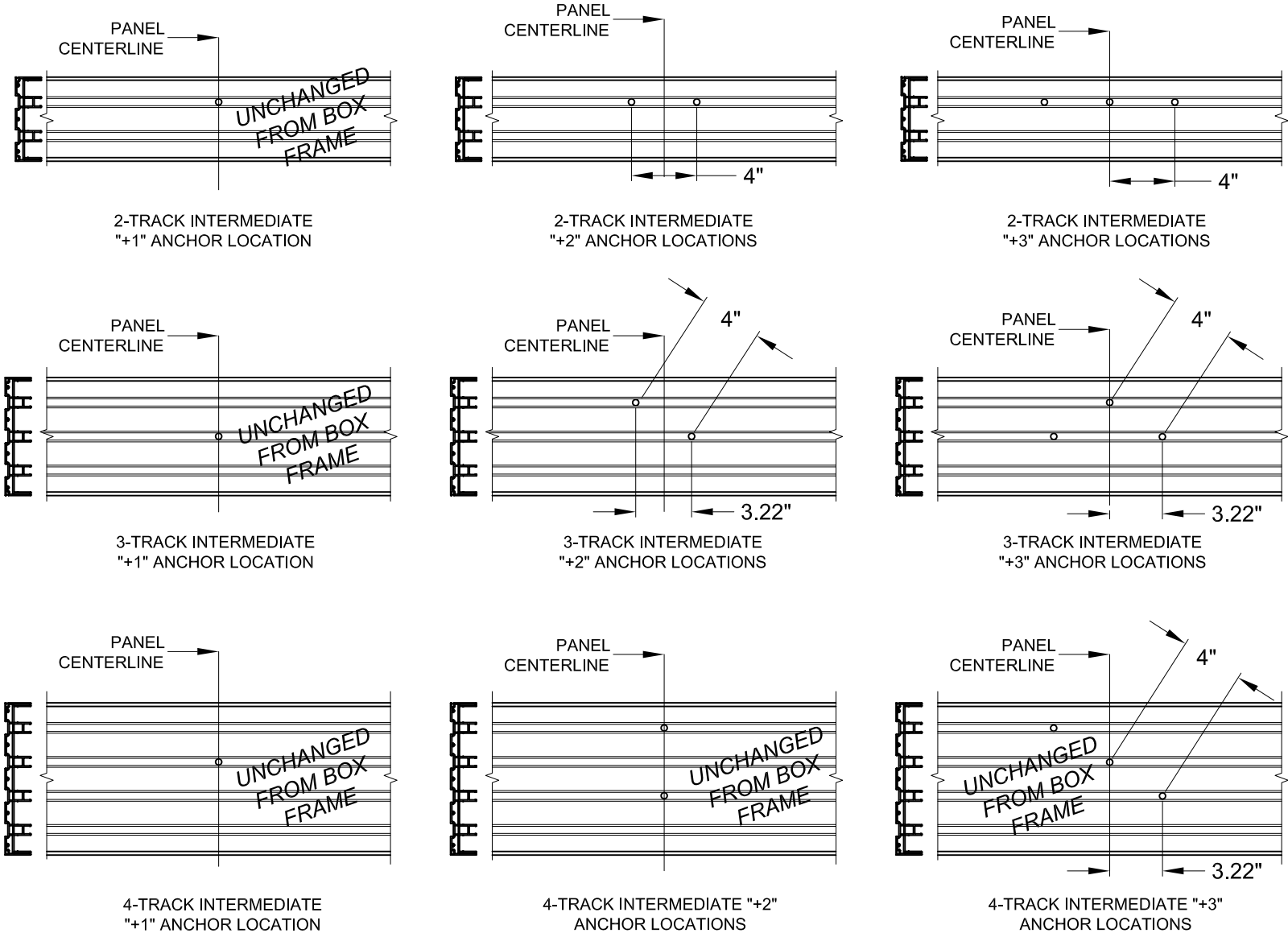
HEAD CLUSTER ANCHORS LAYOUT (USING FIN ADDON):



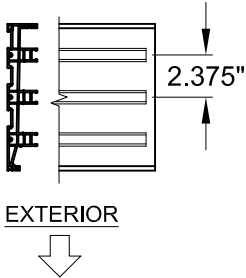
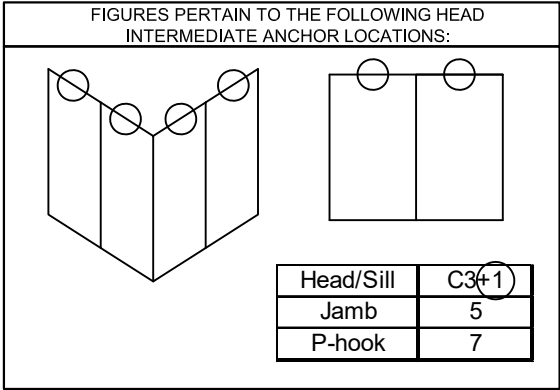
- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



HEAD "+" INTERMEDIATE ANCHORS LAYOUT (USING FIN ADDON):



- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



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VINYL SLIDING GLASS DOOR (NI)

ANCHOR LOCATIONS - FIN

06/12/11

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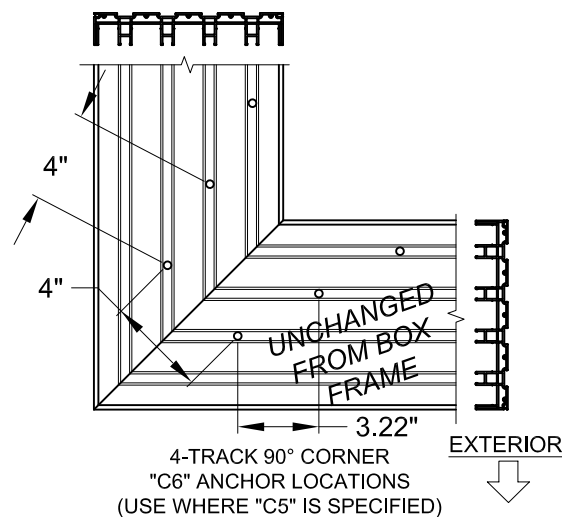
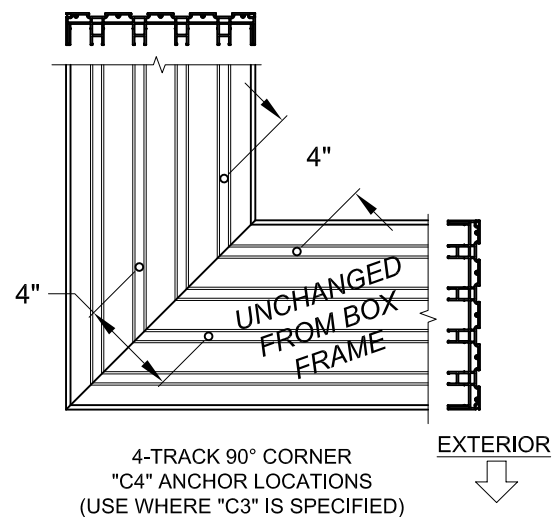
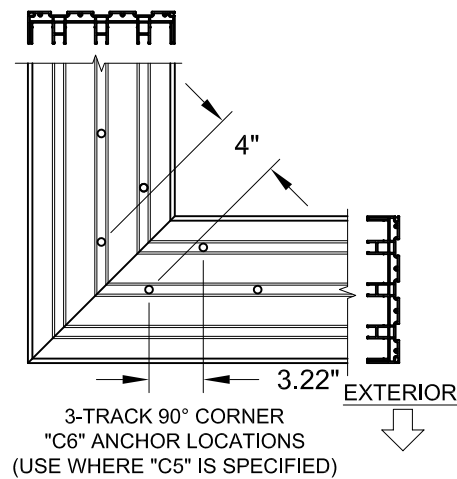
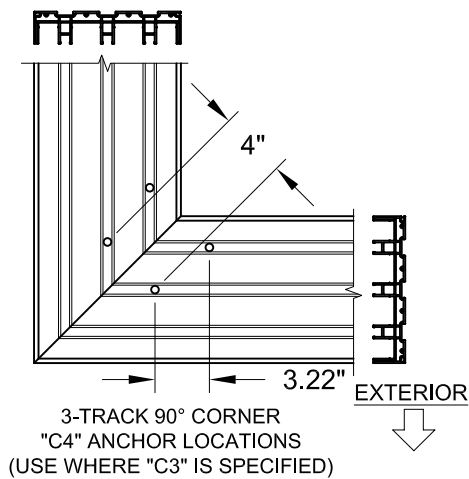
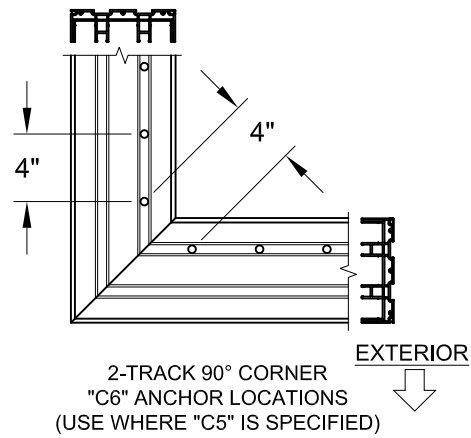
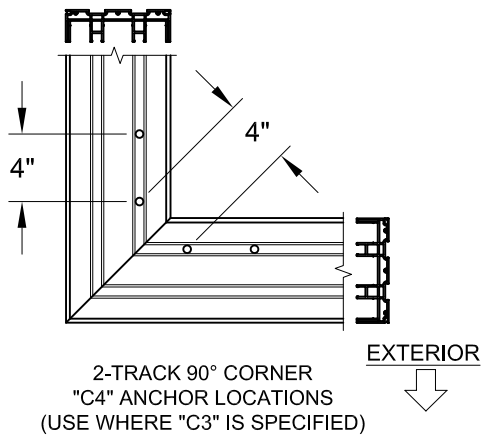
23 OF 25

SGD5470

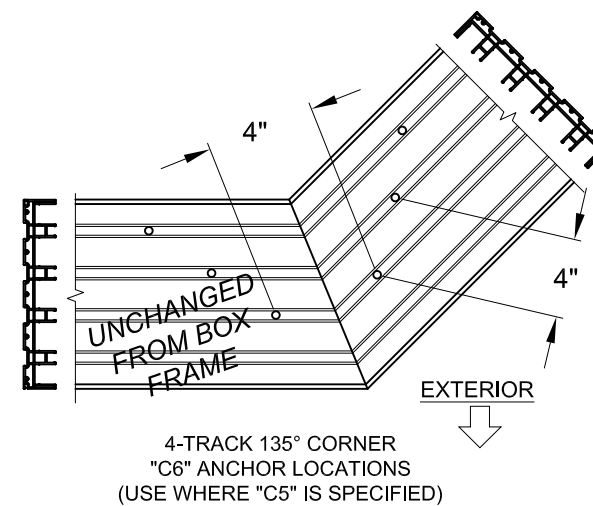
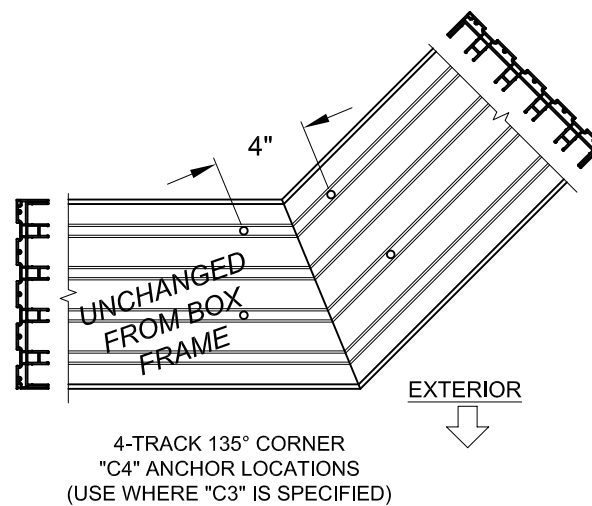
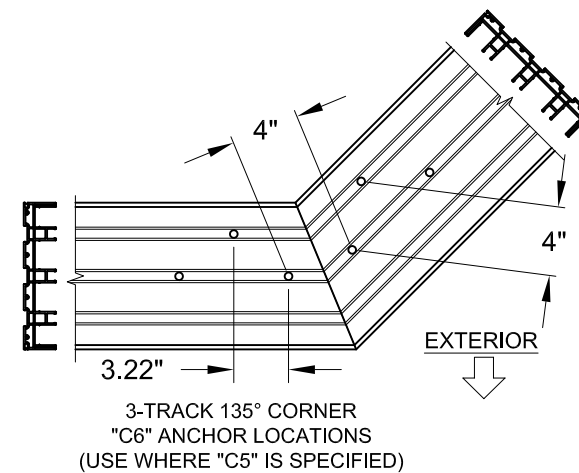
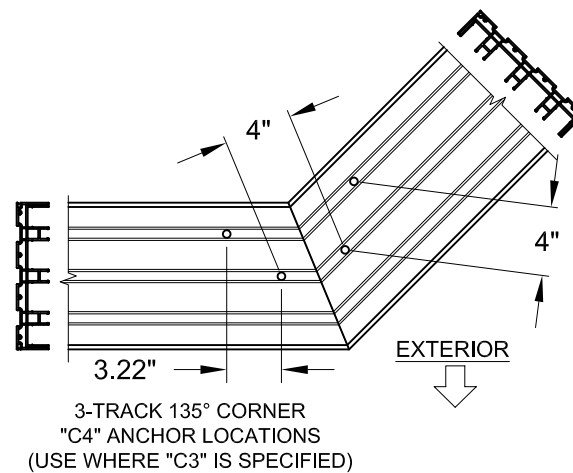
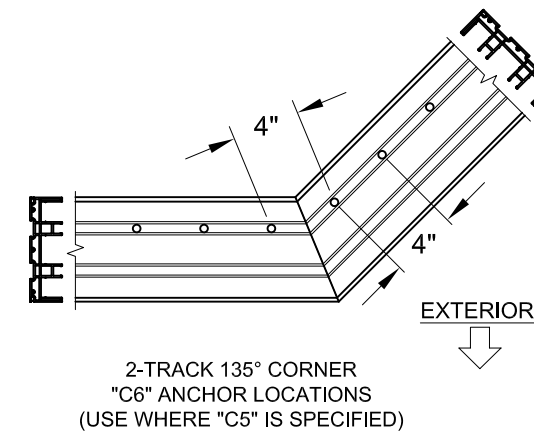
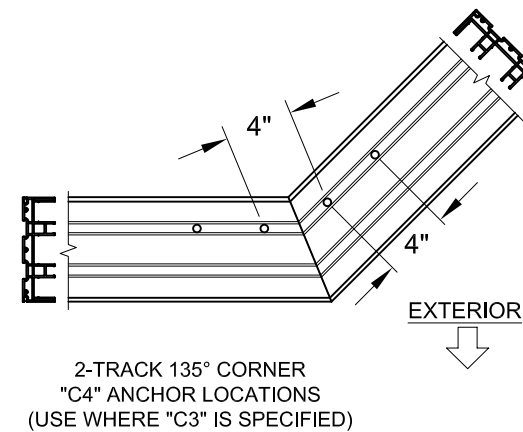
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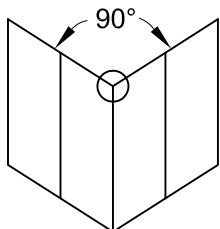
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT (USING FIN ADDON):



HEAD 135° CORNER CLUSTER ANCHORS LAYOUT (USING FIN ADDON):



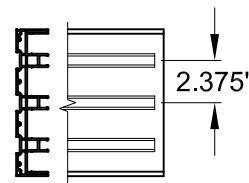
FIGURES PERTAIN TO THE FOLLOWING 90° CORNER HEAD ANCHOR LOCATIONS:



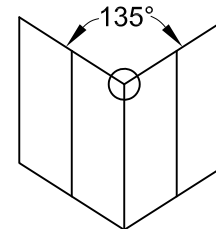
Head/Sill	(C3)+1
Jamb	5
P-hook	7

NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:

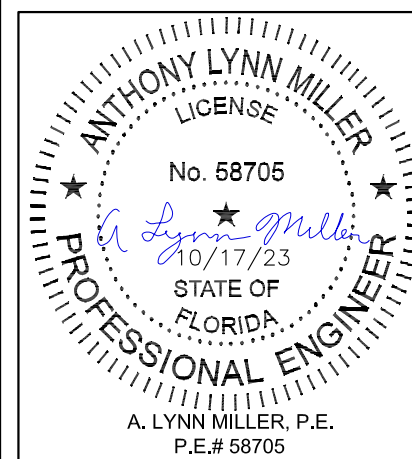


FIGURES PERTAIN TO THE FOLLOWING 135° CORNER HEAD ANCHOR LOCATIONS:

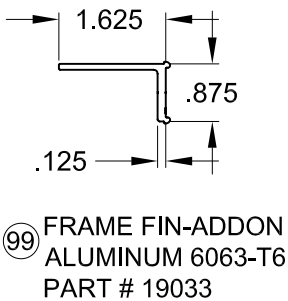
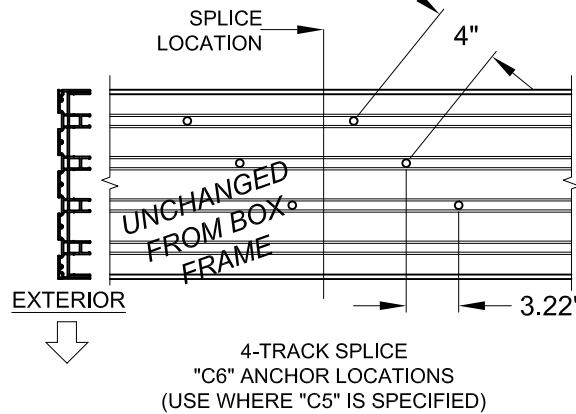
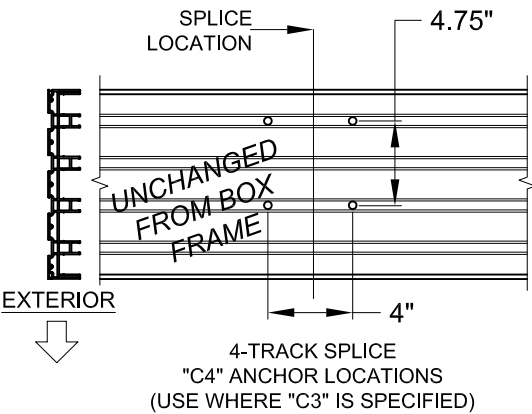
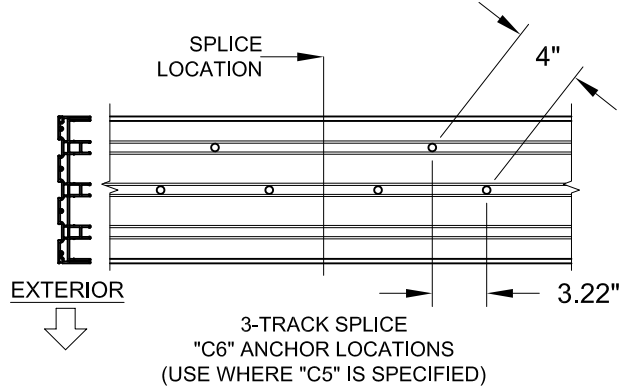
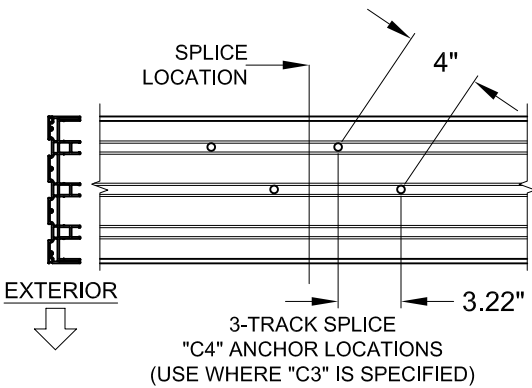
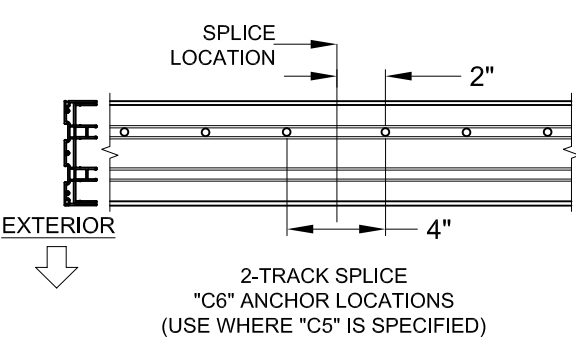
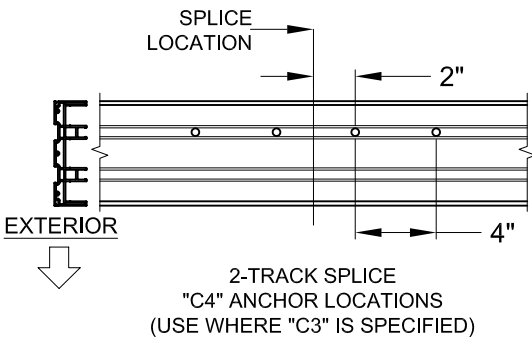


Head/Sill	(C3)+1
Jamb	5
P-hook	7

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No. 58705		10/17/23		STATE OF FLORIDA		A. LYNN MILLER, P.E.		P.E.# 58705	

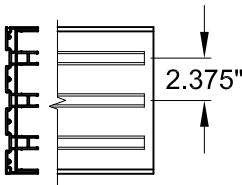


HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL (USING FIN ADDON):



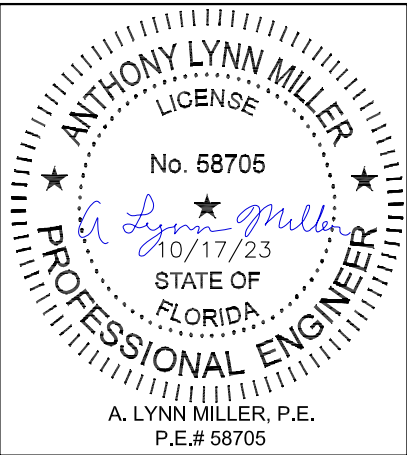
NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:	
Head/Sill	C3+1
Jamb	5
P-hook	7

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		Date		By	
VINYL SLIDING GLASS DOOR (NI)		ANCHOR LOCATIONS - FIN		JENS ROSOWSKI	
				SGD5470FPA-LM	
SGD5470		25 OF 25		DWG No.	
Sheet		Title		Series	



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Rev.	NO CHANGES, THIS SHEET. SB	