

SERIES SGD5470NS VINYL, NON-IMPACT RESISTANT SLIDING GLASS DOOR

GENERAL NOTES:

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC).
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) ANCHORAGE: THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF IBC/IRC FOR CORROSION RESISTANCE.
- 4) OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT IRC/IBC, AS APPLICABLE.

ANCHOR NOTES:

- 1) SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS. FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
- 2) 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 INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- 3) 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 ALLOWABLE STRESS 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 GLASS/REINFORCEMENT.
- 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 DESIGN PRESSURE REQUIRED FOR THE OPENING 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.

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)	Southern Pine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
			P-hook	9/16"	1-3/8"
		Aluminum, 6063-T5* (0.125" min. thickness)	Head/Sill/Jamb	3/8"	1/8"
			P-hook	3/8"	1/8"
		Steel, A36* (0.060" min. thickness)	Head/Sill/Jamb	3/8"	0.060"
			P-hook	3/8"	0.060"
	Steel Stud, A653 Gr. 33* (0.071" min. thickness)	Southern Pine (SG=0.55)	Head/Sill/Jamb	3/8"	0.071" (14 Ga.)
			P-hook	3/8"	0.071" (14 Ga.)
B	1/4" DeWalt Ultracon+	Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
	1/4" Elco 410 S.S. CreteFlex	Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
C	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	Head/Sill/Jamb	1-1/2"	1-3/8"
			P-hook	1"	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"
	1/4" Elco 18-8 S.S. Aggre-Gator	Concrete (min. 2.22 ksi)	Head/Sill/Jamb	1-1/2"	1-3/8"
			P-hook	1-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2"	1-1/4"
			P-hook	2"	1-1/4"
		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"

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

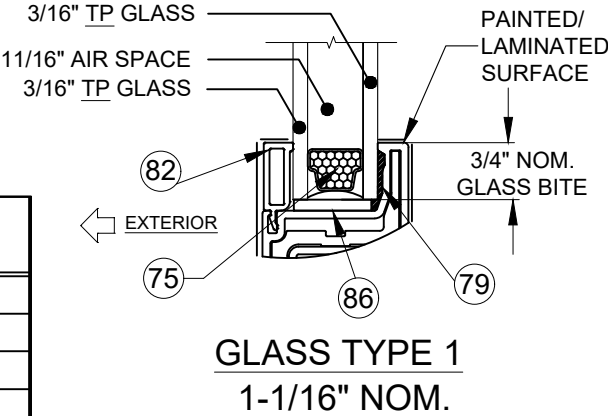
TABLE B:

Nominal Panel Size		Design Pressure		Sill Riser Height	Interlock Stile	CAR #
Width	Height	(+) psf	(-) psf			
60	98	35	80	2-1/2"	Standard	190-1359
60	98	60	80	3-1/2"	Standard	190-1360
48	120	35	60	2-1/2"	Standard	190-1363
48	120	60	60	3-1/2"	Standard	190-1364
60	120	35	60	2-1/2"	HD	190-1362
60	120	60	60	3-1/2"	HD	190-1356

DESIGN PRESSURE RATING
SEE TABLES 1 AND 2
ON SHEET 7 AND 8

IMPACT RATING
NOT RATED FOR MISSILE
IMPACT RESISTANCE

GENERAL NOTES.....1
EXAMPLE CONFIGS.2
INSTALL DETAILS.....3-6
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ANCHOR LOC..... 10-14
PANEL TYPES.....15
SCREEN DETAILS.... 16
EXTRUSIONS.....17
PARTS LIST.....18



"TP" = TEMPERED

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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08/12/25

VINYL SLIDING GLASS DOOR (NI)

COLTON KEMPF

SGD5470NS AAMA ANCHORAGE

1 OF 18

SGD5470NS

PGT

Custom Windows and Doors

3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

ANTHONY LYNN MILLER

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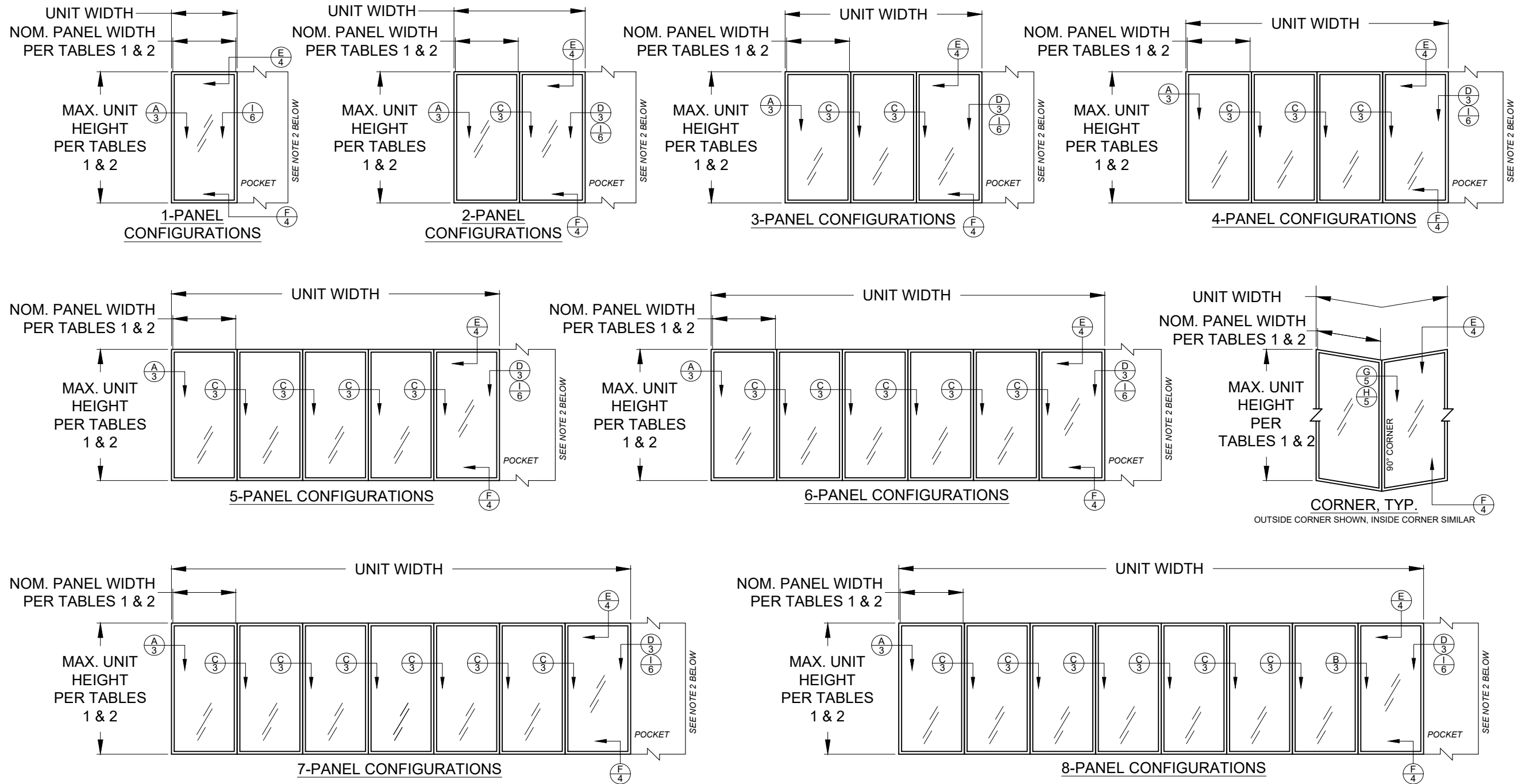
No. 58705

08/12/25

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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



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) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 3) FOR NOM. PANEL WIDTH, SEE TABLES 1 & 2.

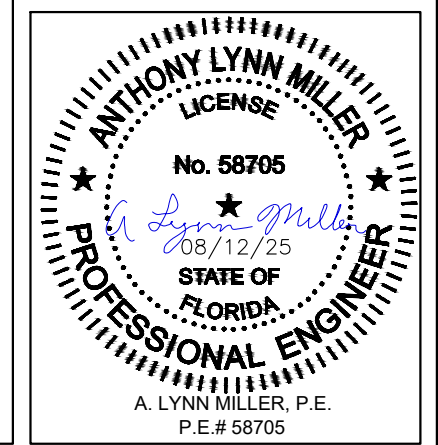
DETAIL LETTER
X

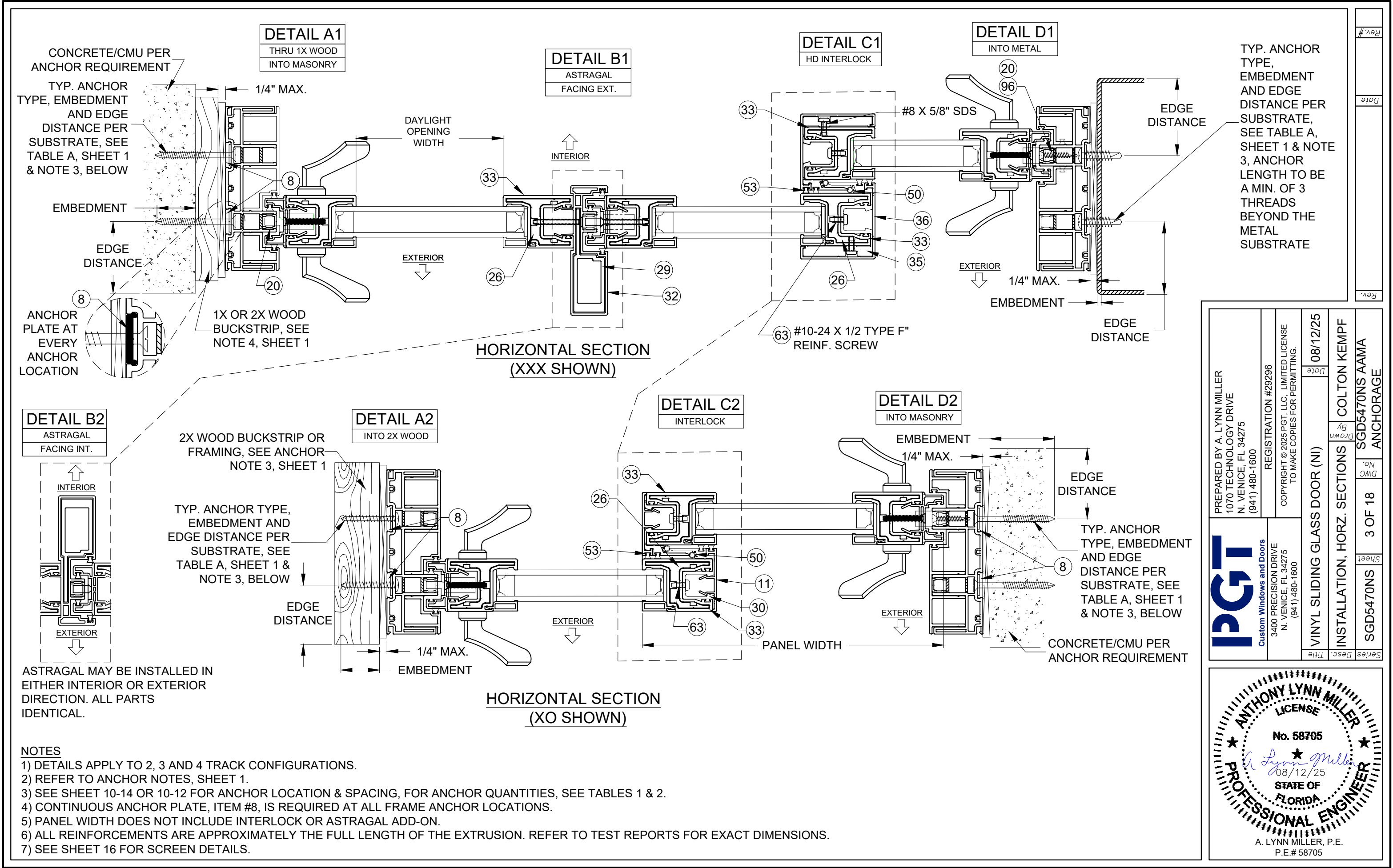
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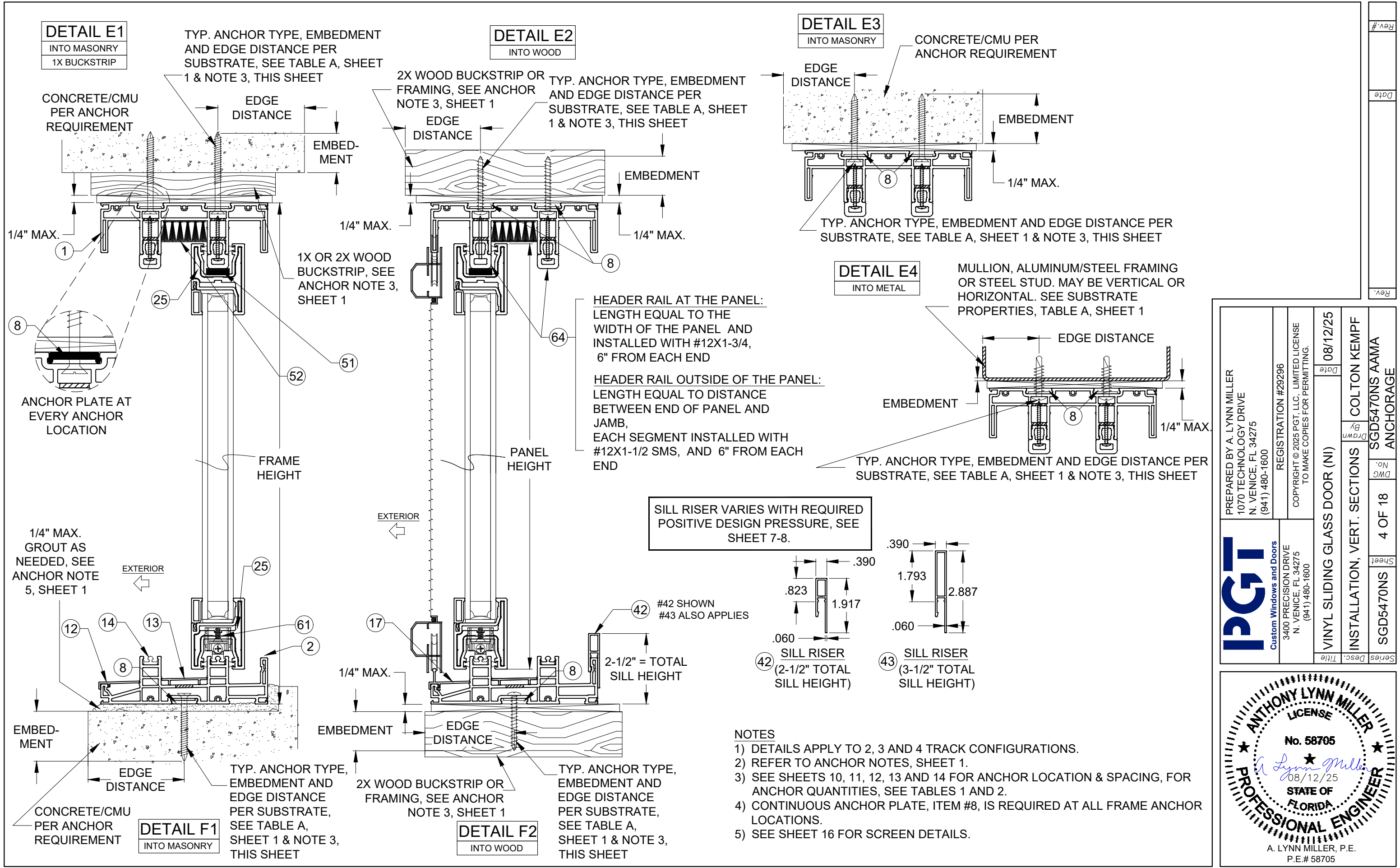
"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"p" = POCKET

DLO WIDTH = NOMINAL PANEL WIDTH - 4-7/8"
GLASS WIDTH = DLO WIDTH + 1.5"
DLO HEIGHT = DOOR UNIT HEIGHT - 7-13/16"
GLASS HEIGHT = DLO HEIGHT + 1.5"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2-13/16"

PGI Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296 COPYRIGHT © 2025 PGT, LLC, LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	Date 08/12/25	By COLTON KEMPf	Series SGD5470NS	Desc. EXAMPLE CONFIGURATIONS	No. 2 OF 18	DWG ANCHORAGE	Rev.



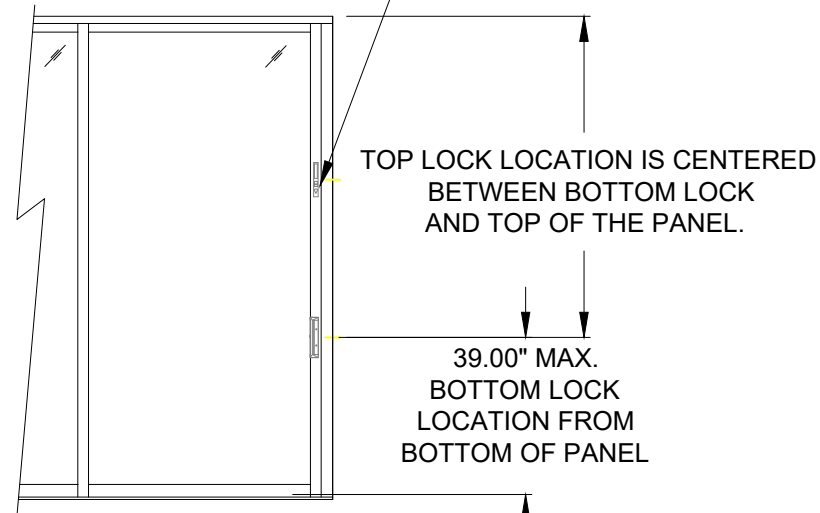




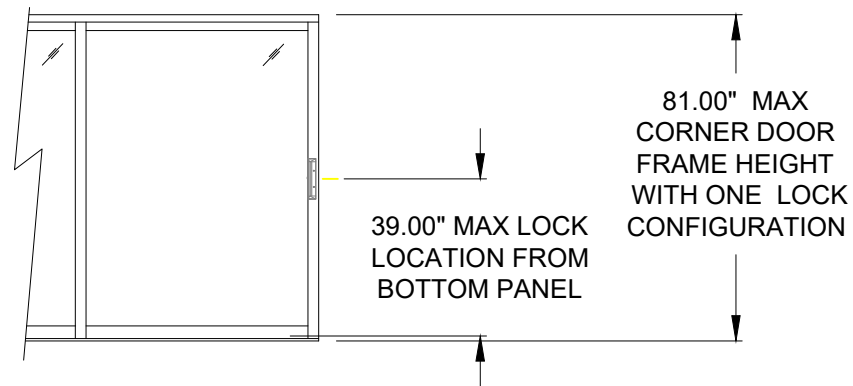
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PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI)	
INSTALLATION, VERT. SECTIONS		By COLTON KEMP	Drawn SGD5470NS AAMA ANCHORAGE
Sheet 4 OF 18		DWG No.	Series SGD5470NS

ANTHONY LYNN MILLER
LICENSE
No. 58705
08/12/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

SECOND LOCK REQUIRED
FOR CORNER DOORS WITH
FRAME HEIGHTS TALLER
THAN 81.00"

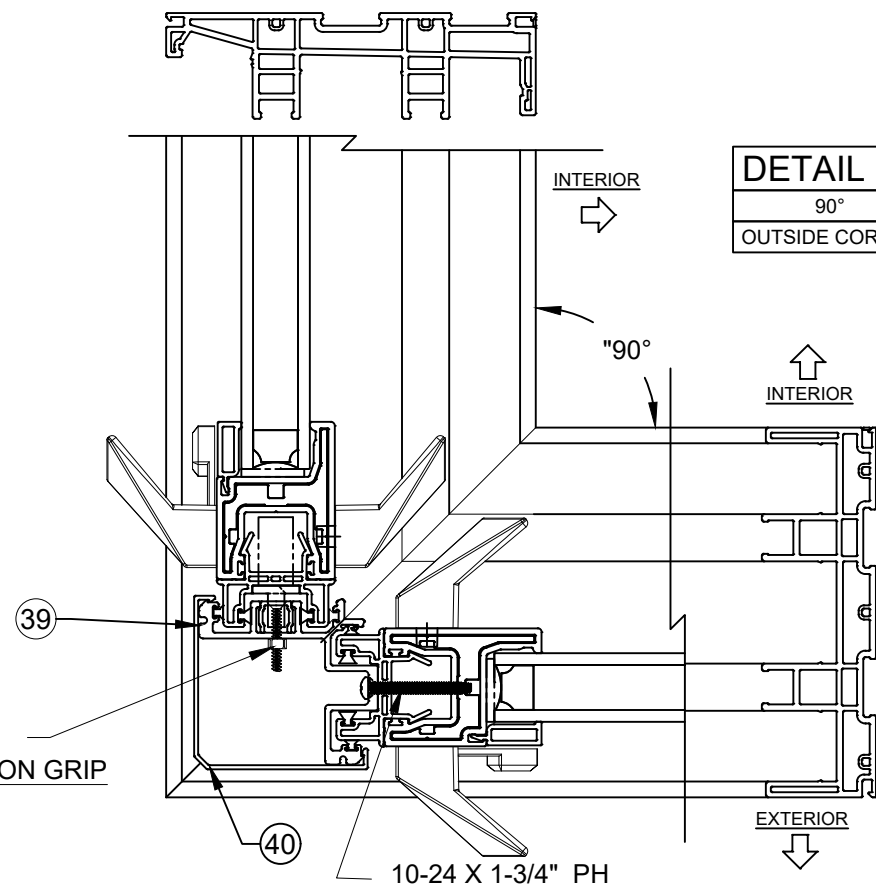


DETAIL G1
90°
INSIDE/OUTSIDE
CORNER

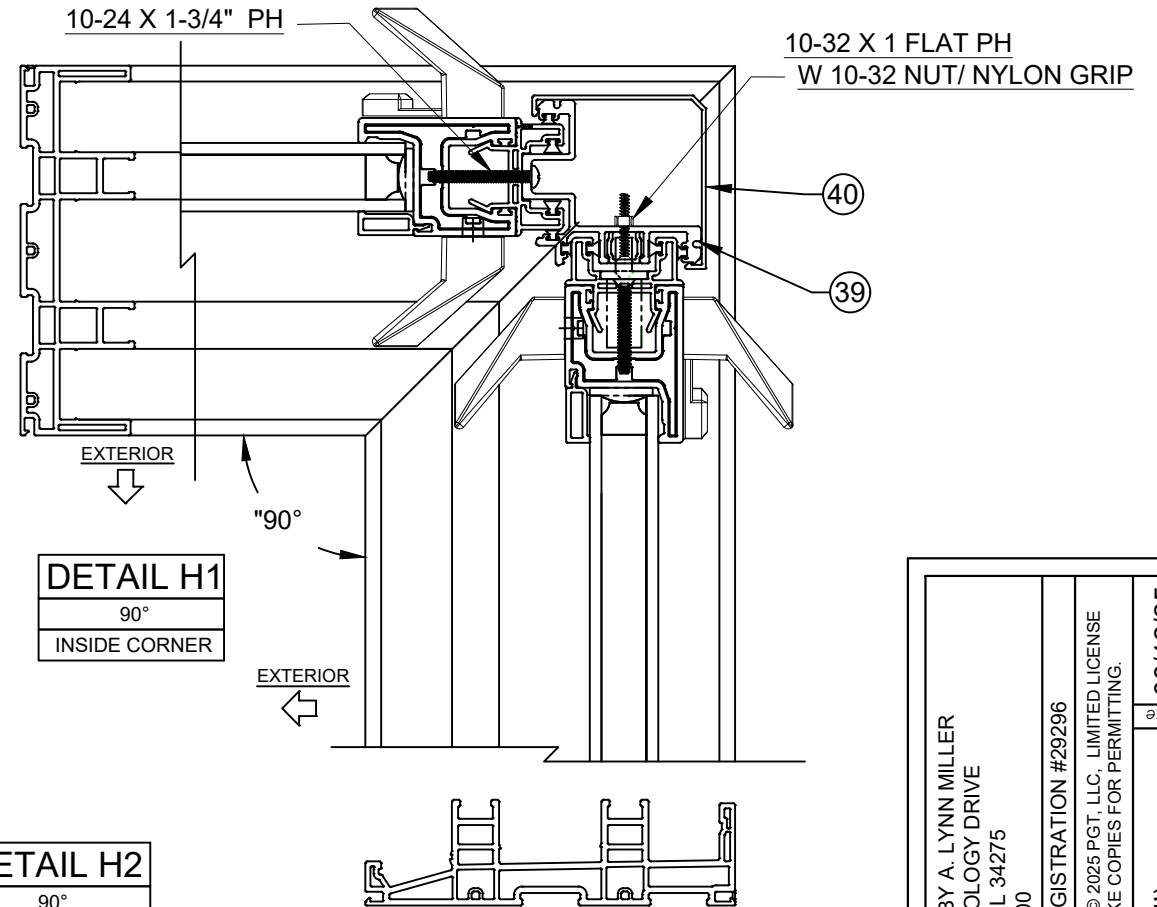


DETAIL G2
90°
INSIDE/OUTSIDE
CORNER

10-32 X 1 FLAT PH
W 10-32 NUT/ NYLON GRIP



DETAIL H2
90°
OUTSIDE CORNER

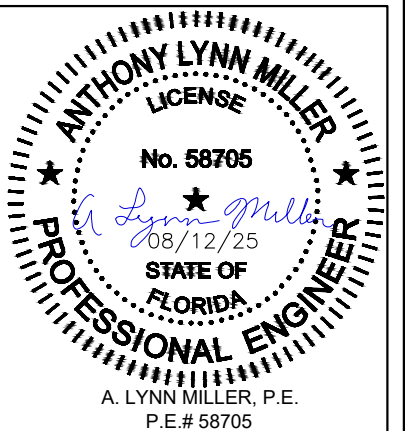


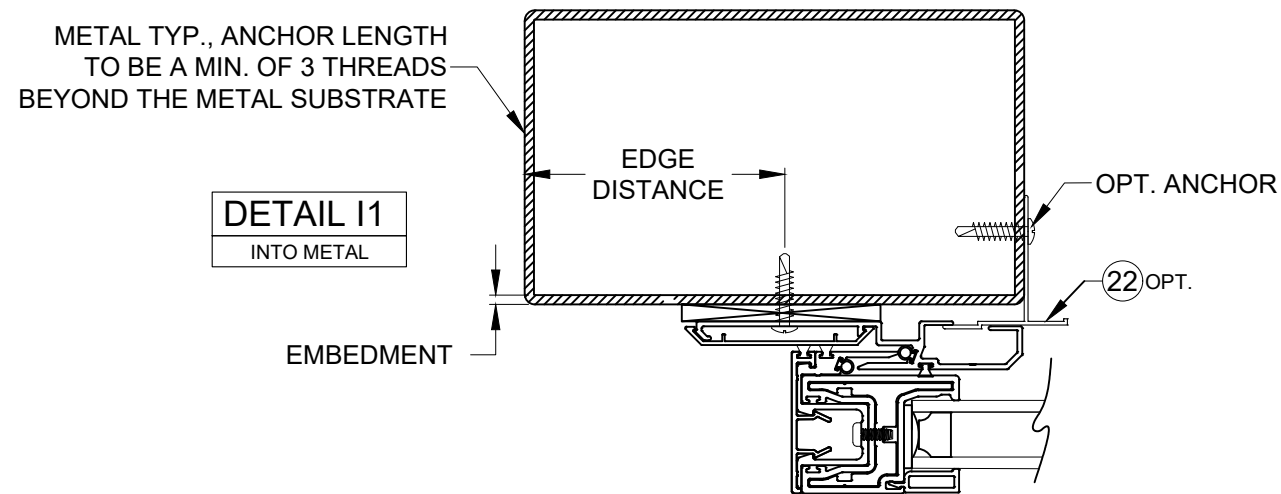
DETAIL H1
90°
INSIDE CORNER

NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) SEE SHEETS 13 & 14 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.

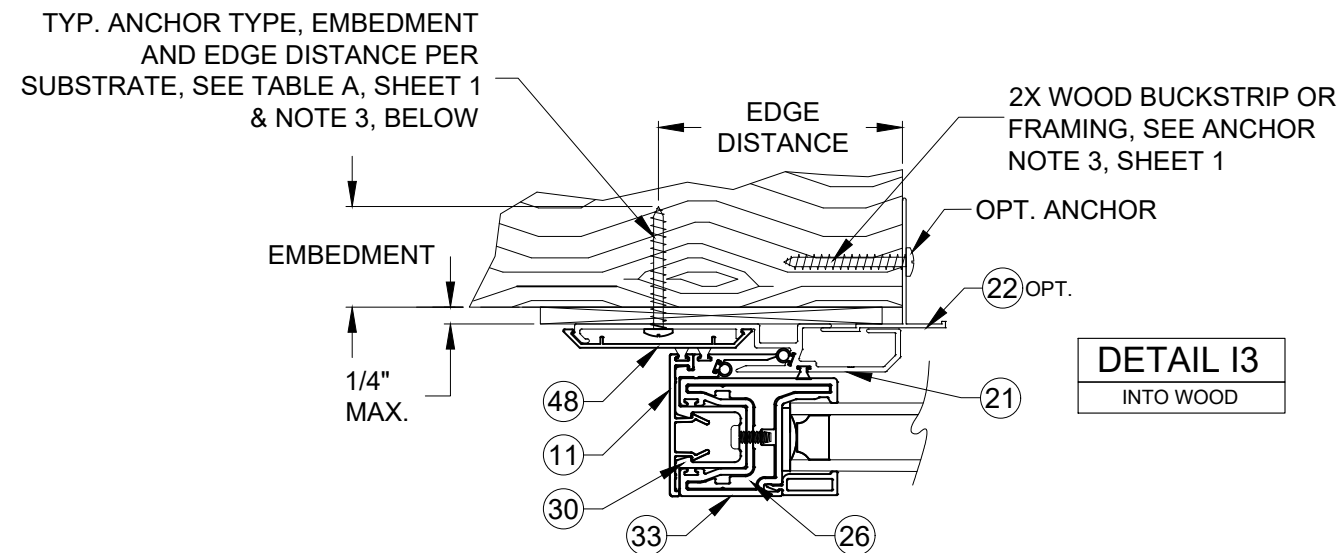
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VINYL SLIDING GLASS DOOR (NI)				Date		08/12/25	
CORNER ASTRAGAL				Drawn By		COLTON KEMP	
SGD5470NS		5 OF 18		DWG No.		SGD5470NS AAMA ANCHORAGE	
Sheet							
Series		Desc.		Title			





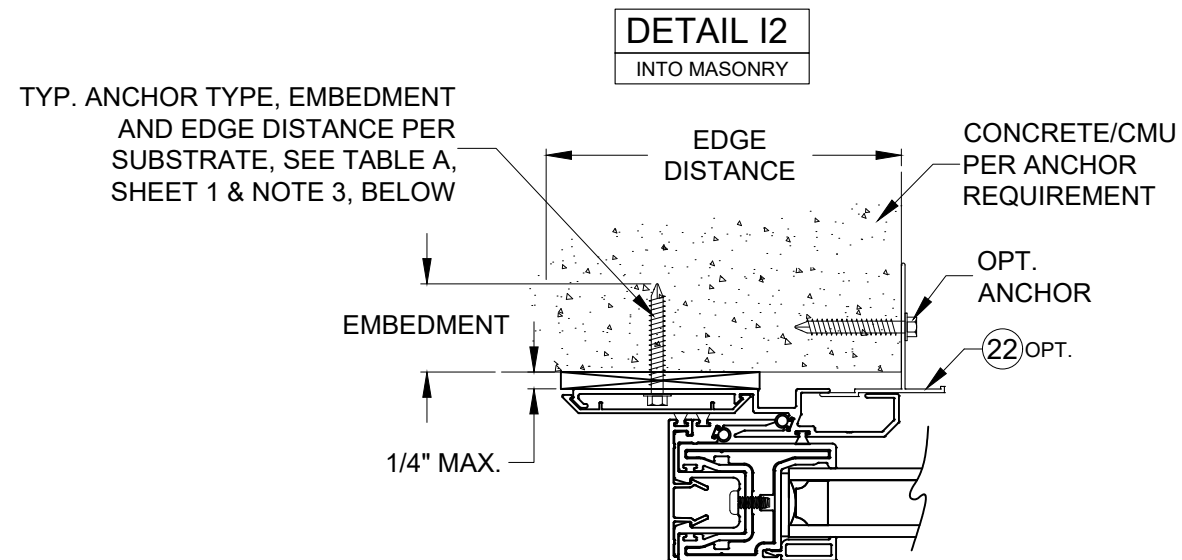
EXTERIOR

EXTERIOR POCKET



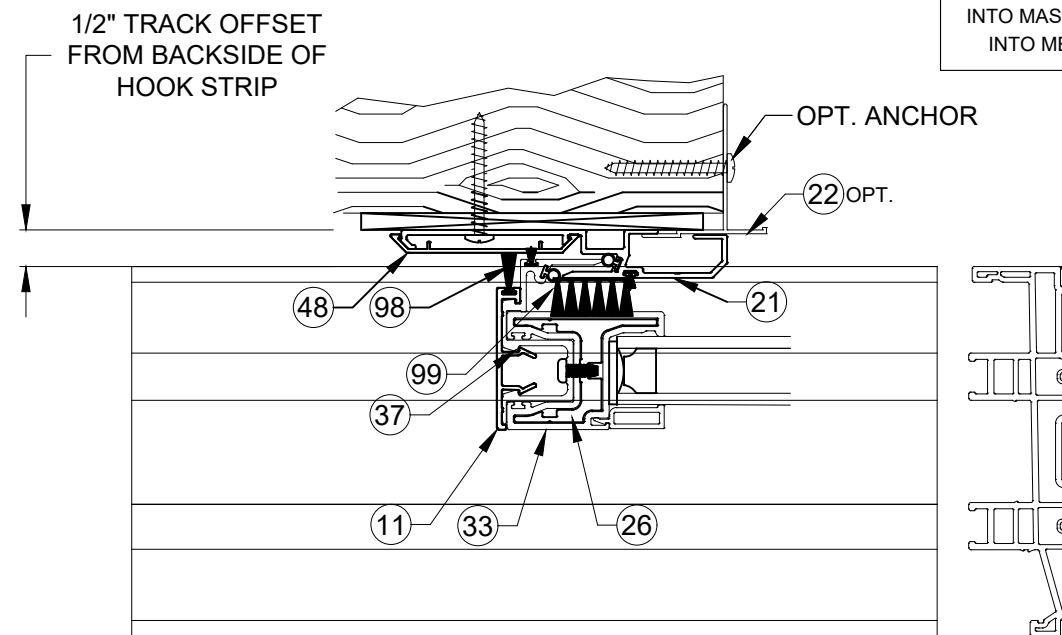
EXTERIOR

EXTERIOR POCKET



EXTERIOR

EXTERIOR POCKET



EXTERIOR

EXTERIOR POCKET

DETAIL I4
HD POCKET
INTO WOOD
INTO MASONRY
INTO METAL

NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) REFER TO ANCHOR NOTES, SHEET 1.
- 3) SEE SHEET 10-14 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 AND 2.
- 4) SEE TABLES 1 AND 2 FOR REINFORCEMENT REQUIREMENTS.
- 5) 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.

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	3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI) Title		INSTALLATION, P-HOOK Desc.		6 OF 18 Sheet	
	Custom Windows and Doors		SGD5470NS		6 OF 18		No. DWG	

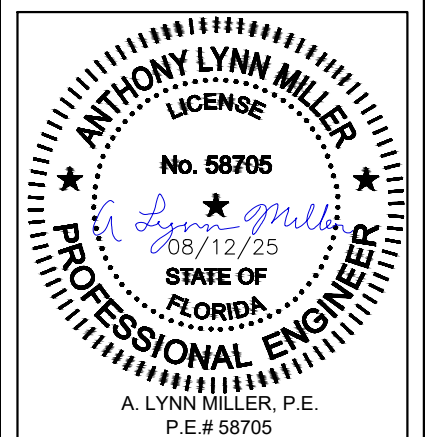


TABLE 1:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)																											
Use this table for: Glass Type 1 Standard Interlock Stile				Door Unit Height																							
				80"				84"				96"				98"				108"				120"			
				72-3/16" DLO Height				76-3/16" DLO Height				88-3/16" DLO Height				90-3/16" DLO Height				100-3/16" DLO Height				112-3/16" DLO Height			
				Anchor Group				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	A	B	C	D
Nominal Panel Width	24"	19-1/8" DLO Width	Design Pressure	+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1
			Jamb	5	5	8	5	5	5	8	5	5	5	8	5	5	5	8	5	6	6	7	6	6	6	7	6
			P-hook	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
	30"	25-1/8" DLO	Design Pressure	+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1
			Jamb	5	5	8	5	5	5	8	5	5	5	8	5	5	5	8	5	6	6	7	6	6	6	7	6
			P-hook	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
	36"	31-1/8" DLO Width	Design Pressure	+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1
			Jamb	5	5	8	5	5	5	8	5	5	5	8	5	5	5	8	5	6	6	7	6	6	6	7	6
			P-hook	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
	42"	37-1/8" DLO Width	Design Pressure	+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1
			Jamb	5	5	8	5	5	5	8	5	5	5	8	5	5	5	8	5	6	6	7	6	6	6	7	6
			P-hook	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
	48"	43-1/8" DLO Width	Design Pressure	+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1
			Jamb	5	5	8	5	5	5	8	5	5	5	8	5	5	5	8	5	6	6	7	6	6	6	7	6
			P-hook	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
	54"	49-1/8" DLO Width	Design Pressure	+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -80 psf											
			Head/Sill	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2				
			Jamb	6	5	9	5	6	5	9	5	6	5	9	5	6	5	9	5	6	5	9	5				
			P-hook	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
	60"	55-1/8" DLO Width	Design Pressure	+60 / -80 psf				+60 / -80 psf				+60 / -80 psf				+60 / -80 psf											
			Head/Sill	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2				
			Jamb	6	5	9	5	6	5	9	5	6	5	9	5	6	5	9	5	6	5	9	5				
			P-hook	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES 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 NOTES:

- 1) THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B1 DETERMINES THE WATER LIMITED (+) DP.
- 2) SEE SILL RISER TYPES ON SHEET 4.
- 3) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 4) REFER TO ANCHOR NOTES, SHEET 1.
- 5) SEE SHEETS 10-14 FOR ANCHOR LOCATION & SPACING.

USED IN EXAMPLE ON SHEET 9

DLO WIDTH = NOMINAL PANEL WIDTH - 4-7/8"
GLASS WIDTH = DLO WIDTH + 1.5"
DLO HEIGHT = DOOR UNIT HEIGHT - 7-13/16"
GLASS HEIGHT = DLO HEIGHT + 1.5"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2-13/16"

TABLE B1:

Water-Limited (+) Design Pressure			
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed	Water Test Pressure
42	2-1/2"	+35.0 psf	+5.8 psf
43	3-1/2"	+60.0 psf	+9.0 psf

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DP AND ANCHORAGE		COLTON KEMP		SGD5470NS AAMA ANCHORAGE	
SGD5470NS		7 OF 18		Sheet	
Series		Desc.		Title	

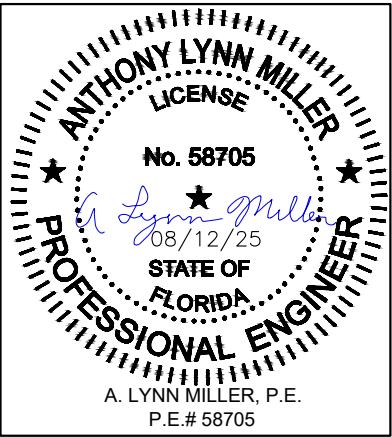
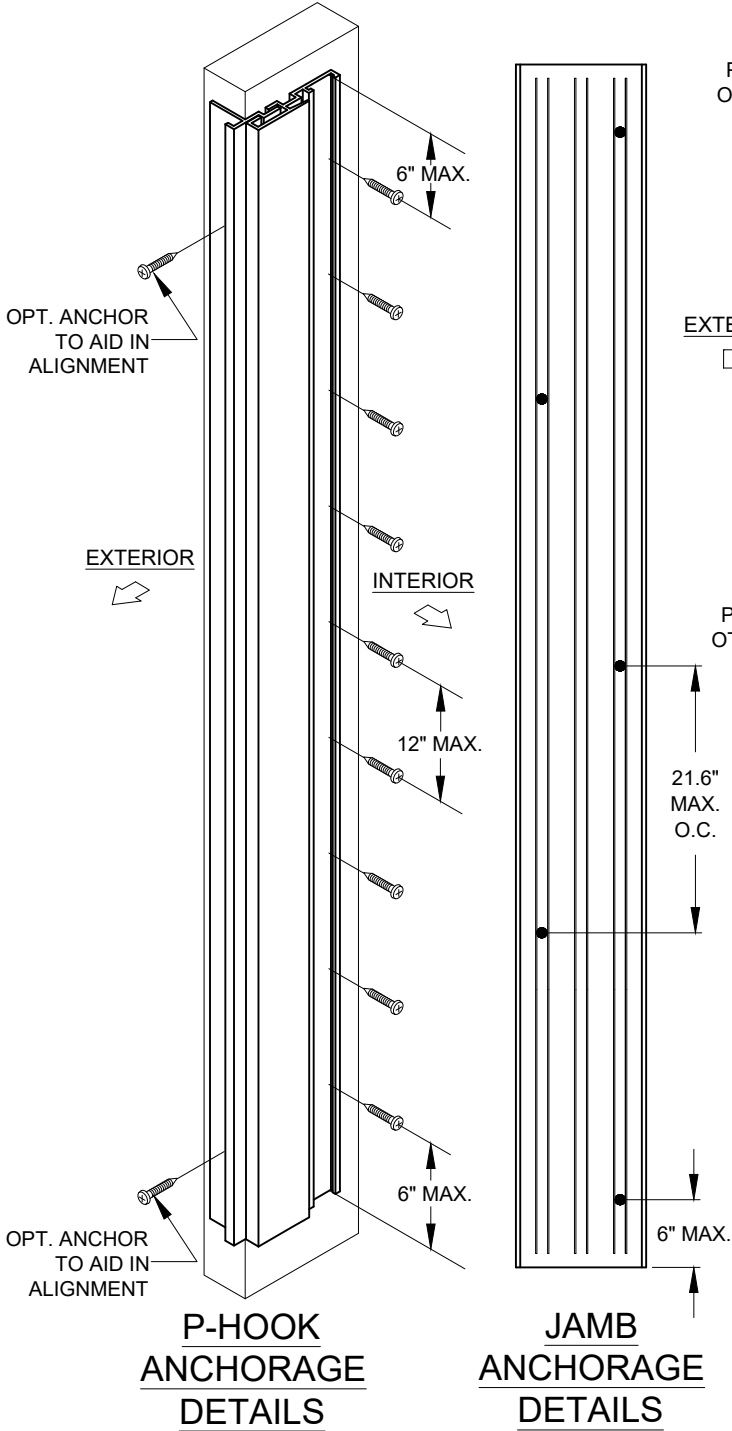


TABLE 2:

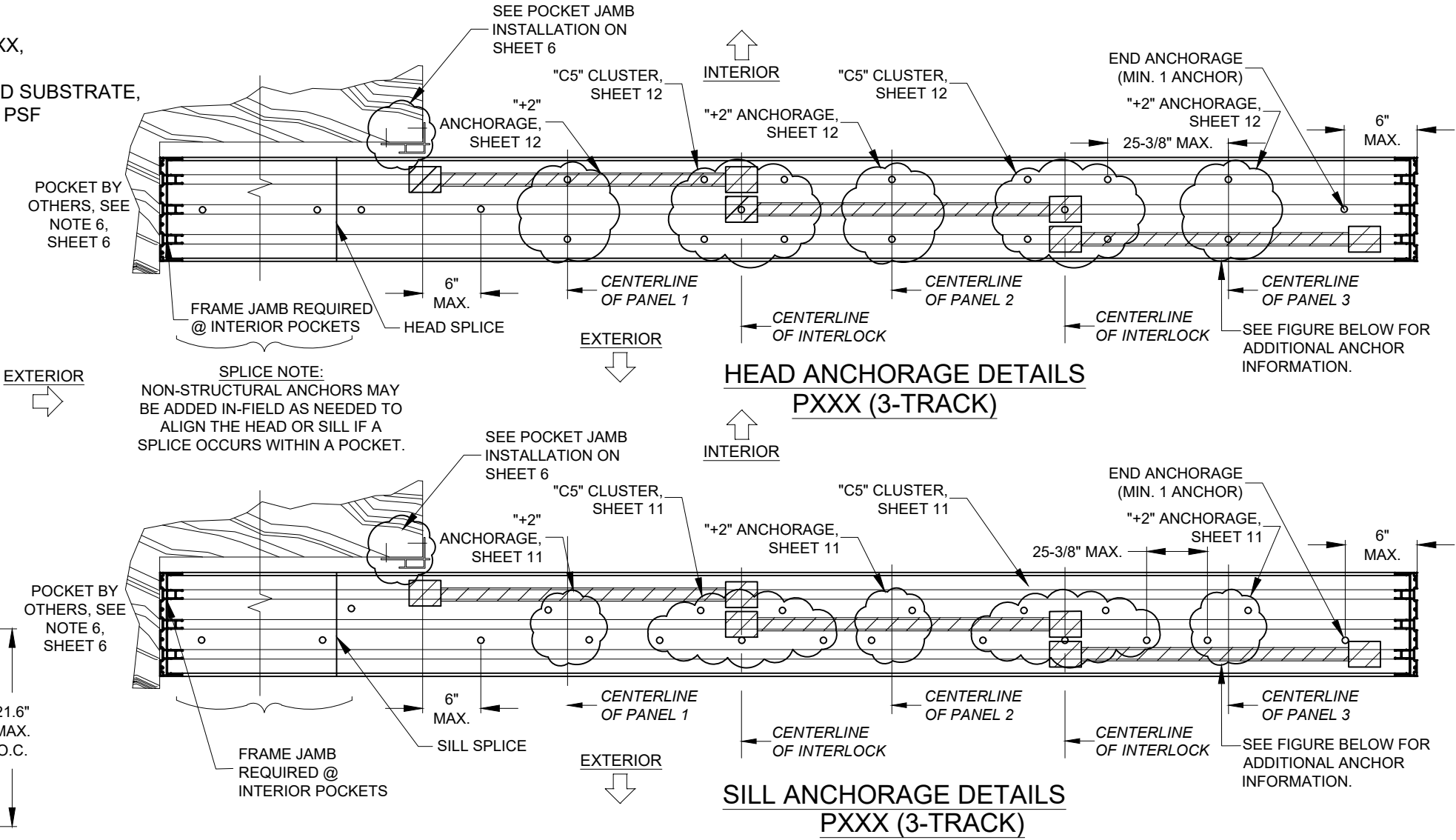
Design Pressure (DP) and Anchor Quantities Required. (for all approved configurations on Sheet 2)																											
Use this table for: Glass Type 1 HD Interlock Stile				Door Unit Height																							
				80"				84"				96"				98"				108"				120"			
				72-3/16" DLO Height				76-3/16" DLO Height				88-3/16" DLO Height				90-3/16" DLO Height				100-3/16" DLO Height				112-3/16" DLO Height			
				Anchor Group				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	A	B	C	D
Nominal Panel Width	24"	19-1/8" DLO Width	Design Pressure	For these sizes: see table1 on sheet 7																							
			Head/Sill																								
			Jamb																								
			P-hook																								
	30"	25-1/8" DLO	Design Pressure																								
			Head/Sill																								
			Jamb																								
			P-hook																								
	36"	31-1/8" DLO Width	Design Pressure																								
			Head/Sill																								
			Jamb																								
			P-hook																								
	42"	37-1/8" DLO Width	Design Pressure																								
			Head/Sill																								
			Jamb																								
			P-hook																								
	48"	43-1/8" DLO Width	Design Pressure																								
			Head/Sill																								
			Jamb																								
			P-hook																								
	54"	49-1/8" DLO Width	Design Pressure																								
			Head/Sill																								
			Jamb																								
			P-hook																								
	60"	55-1/8" DLO Width	Design Pressure																								
			Head/Sill																								
			Jamb																								
			P-hook																								

+60 / -60 psf				+60 / -60 psf			
C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1
6	6	9	6	6	6	9	6
10	10	10	10	10	10	10	10
+60 / -60 psf				+60 / -60 psf			
C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1
6	6	9	6	6	6	9	6
10	10	10	10	10	10	10	10

EXAMPLE:
3-PANEL, 3 TRACK, STRAIGHT CONFIGURATION - PXXX,
EXTERIOR 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 1 FOR SPECIFIC GLAZING TYPES.
C) SHEET 15 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
D) SHEETS 17 FOR EXTRUSION DRAWINGS.
E) SHEET 18 FOR A BILL OF MATERIALS.



1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1 AND 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/-80 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

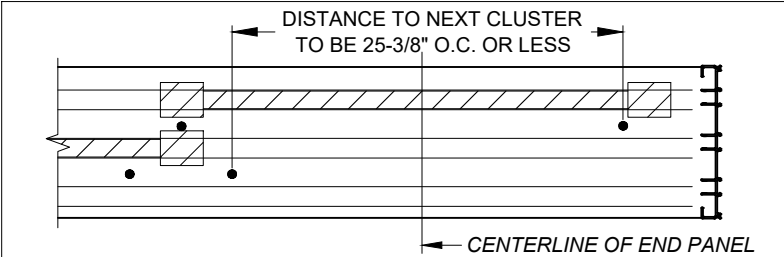
FOR WOOD INSTALLATION USING ANY ANCHOR IN GROUP A (SEE TABLE A), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF

Head/Sill	C5+2
Jamb	5
P-hook	9

2) ANCHOR LOCATION DETAILS, CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 11 FOR THE "C5" CLUSTER ANCHORS AT THE INTERLOCK.
HEAD (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
SILL (CLUSTER ANCHORS): SHEET 10 FOR THE "C5" CLUSTER ANCHORS AT THE INTERLOCK.
SILL (INTERMEDIATE ANCHORS): SHEET 10 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
JAMB: 5 ANCHORS, SHEET 12 FOR GEN. LAYOUT.
P-HOOK: 9 ANCHORS, SHEET 12 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:



FOR SILL (SHOWN) AND HEAD, ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 25-3/8", OTHERWISE ANCHORS ARE NOT REQUIRED AS PER THE FIGURE ABOVE:

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COLTON KEMPf
By

SGD5470NS AAMA
ANCHORAGE

9 OF 18
No.

SGD5470NS
Sheet

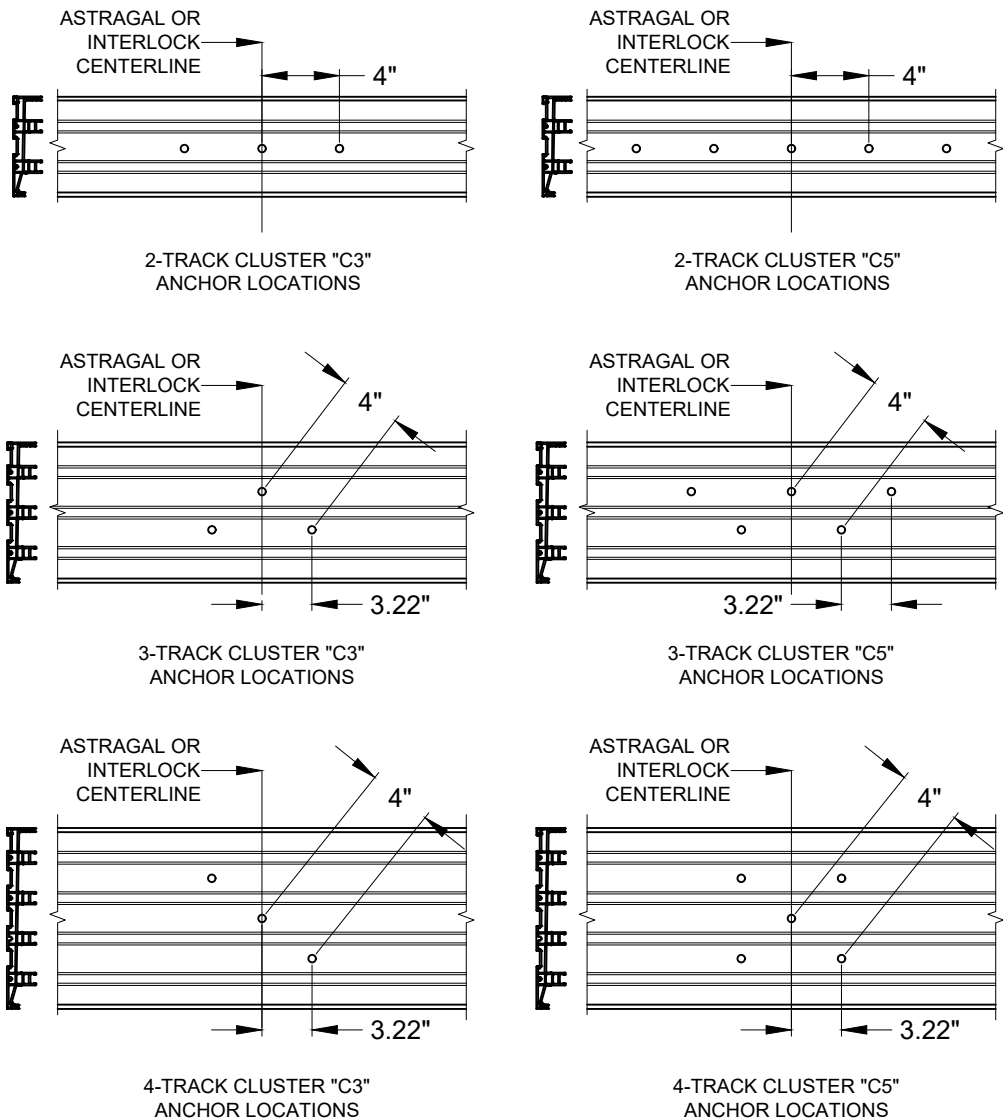
VINYL SLIDING GLASS DOOR (NI)
Title

ANCHOR SPACING & EXAMPLE

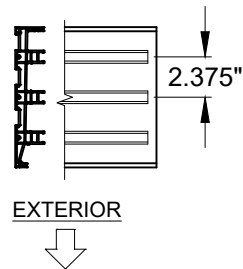
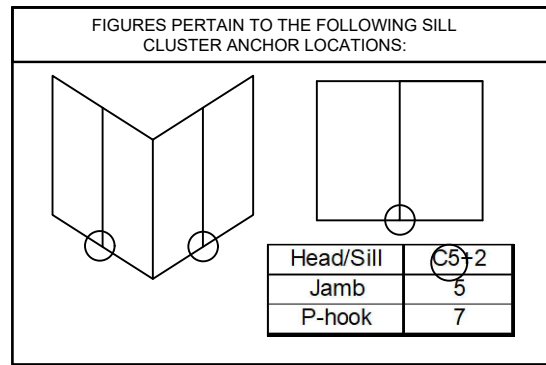
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P.E.# 58705

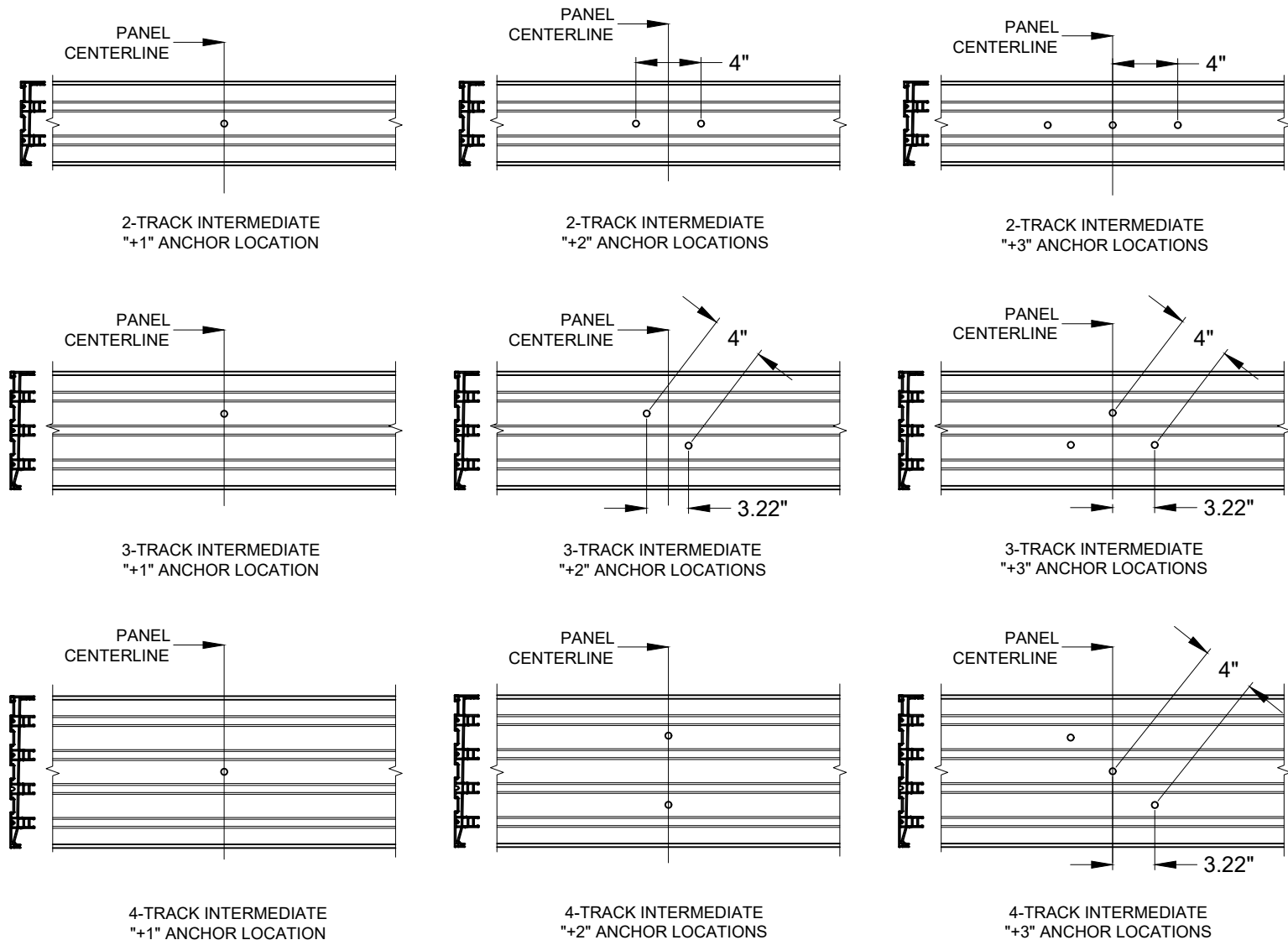
SILL CLUSTER ANCHORS LAYOUT:



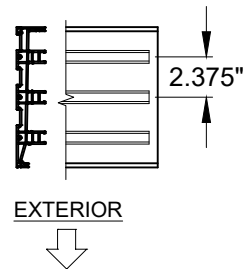
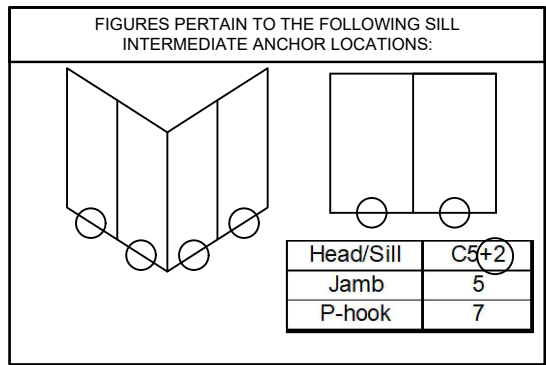
- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 - 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



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

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08/12/25

By

COLTON KEMP

SGD5470NS AAMA
ANCHORAGE

10 OF 18

Sheet

Rev.

Date

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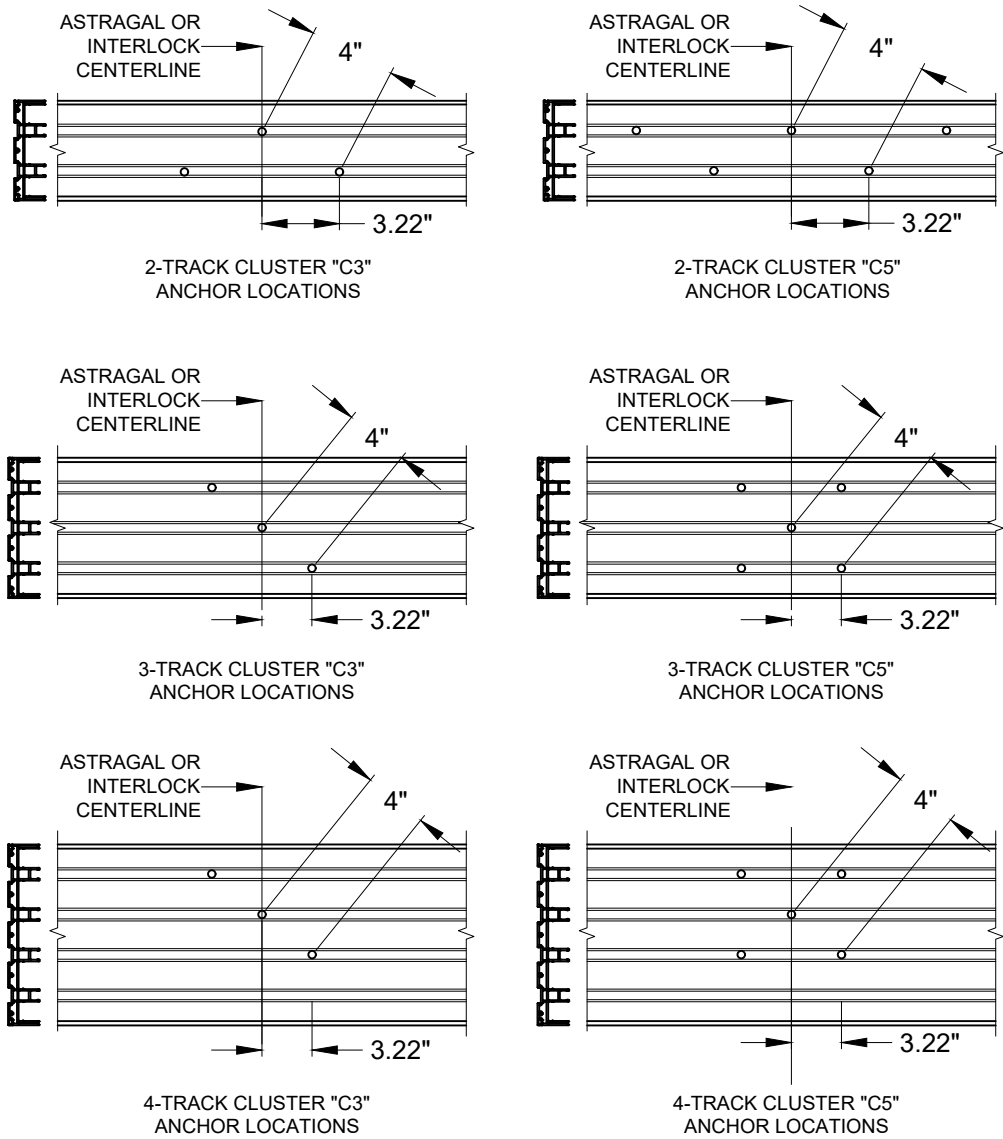
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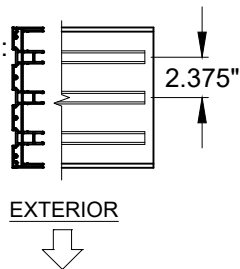
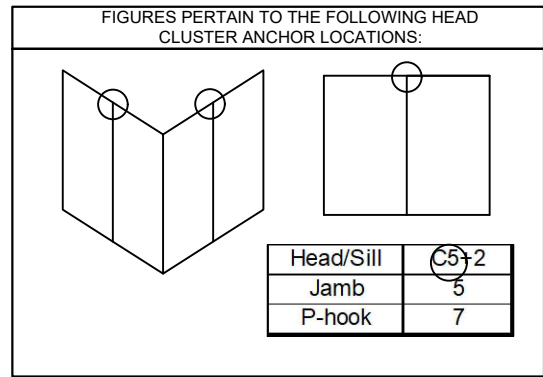
A. LYNN MILLER, P.E.
P.E.# 58705

HEAD CLUSTER ANCHORS LAYOUT:

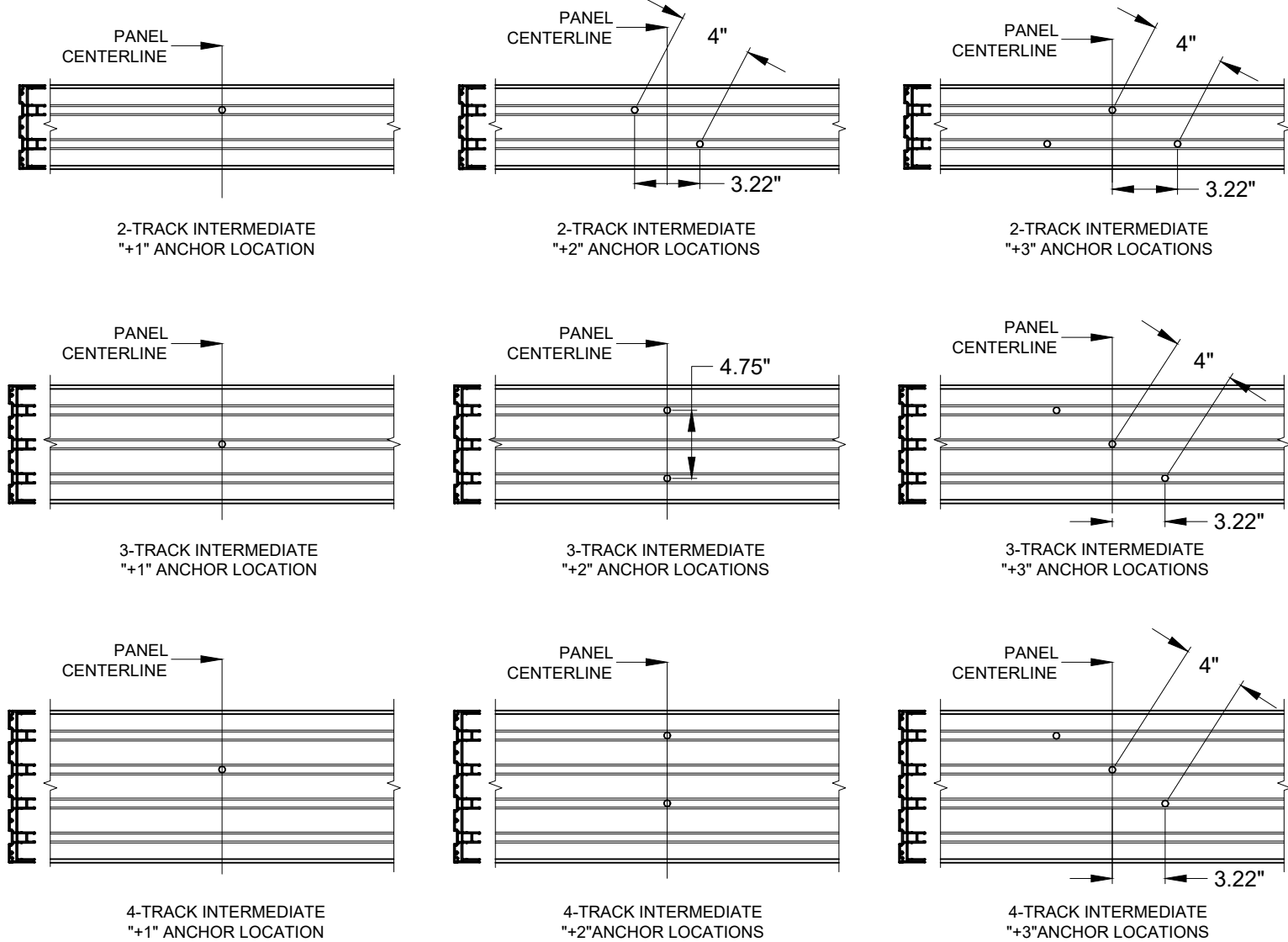


NOTES:

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

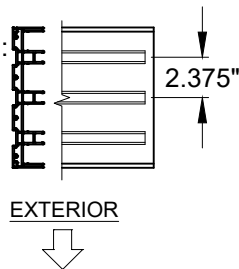
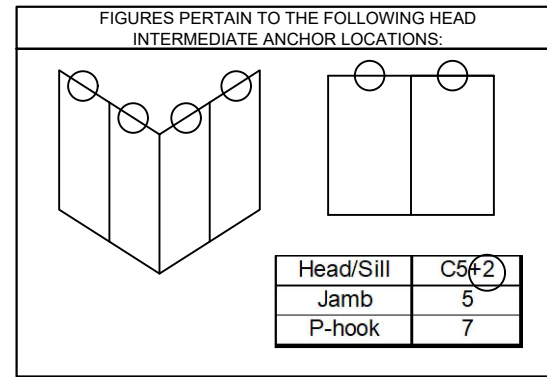


HEAD "+" INTERMEDIATE ANCHORS LAYOUT:

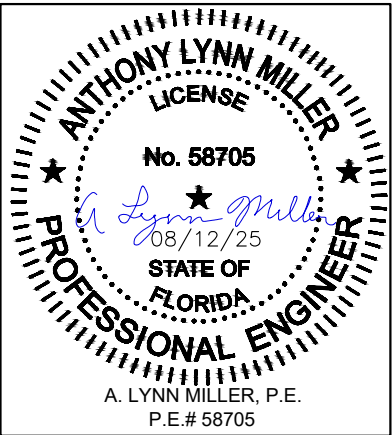


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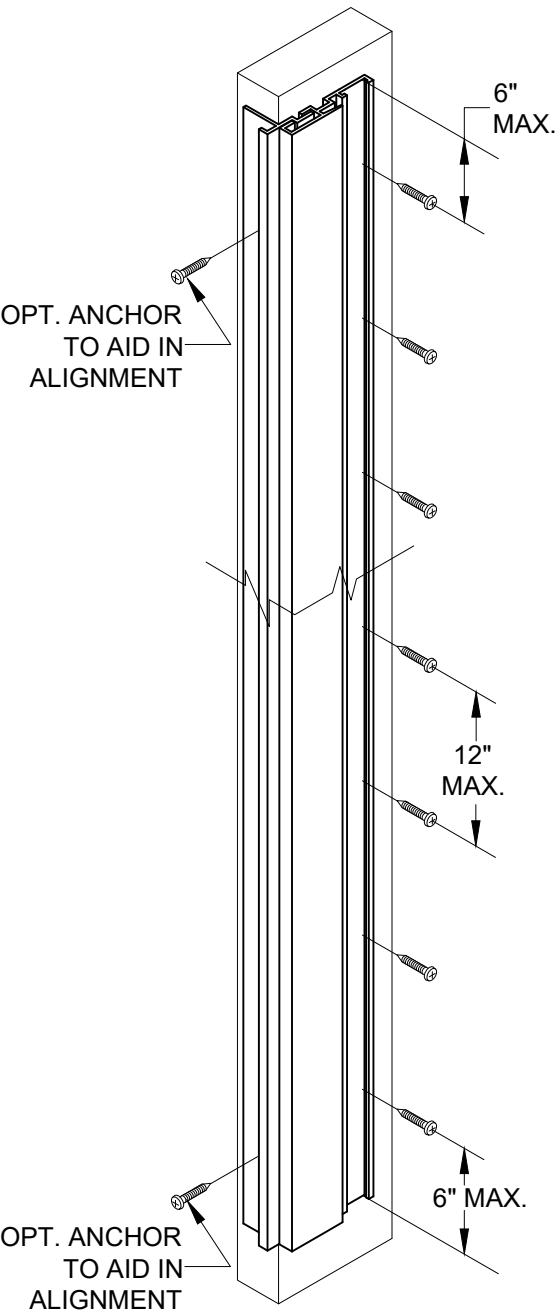
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



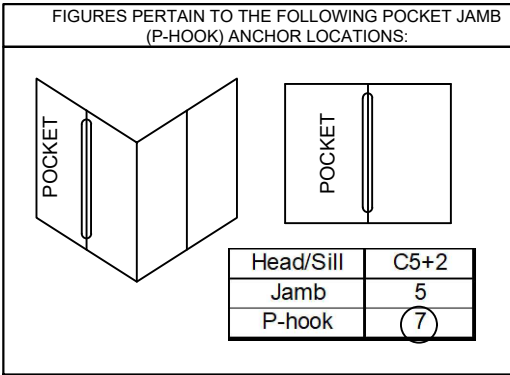
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	VINYL SLIDING GLASS DOOR (NI)		COLTON KEMP	
	ANCHOR LOCATIONS B		SGD5470NS AAMA ANCHORAGE	
11 OF 18		Sheet		Dwg No.
SGD5470NS		Anchor Locations B		By
Title		Date		Rev.



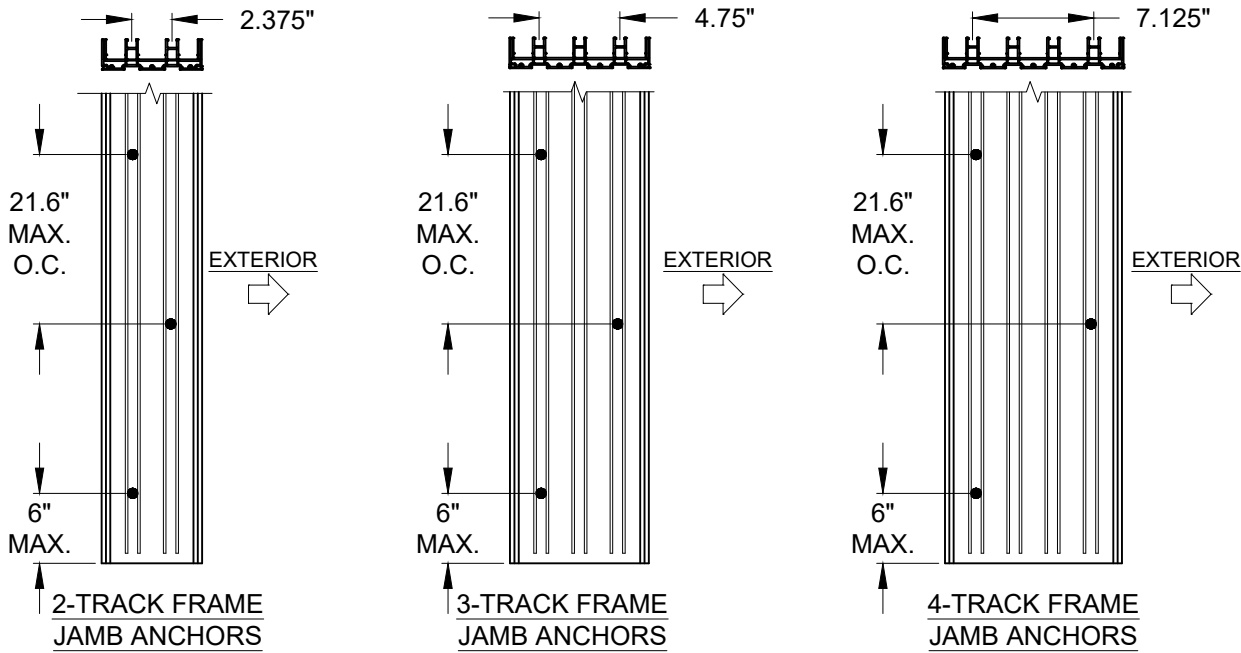
P-HOOK ANCHORS LAYOUT:



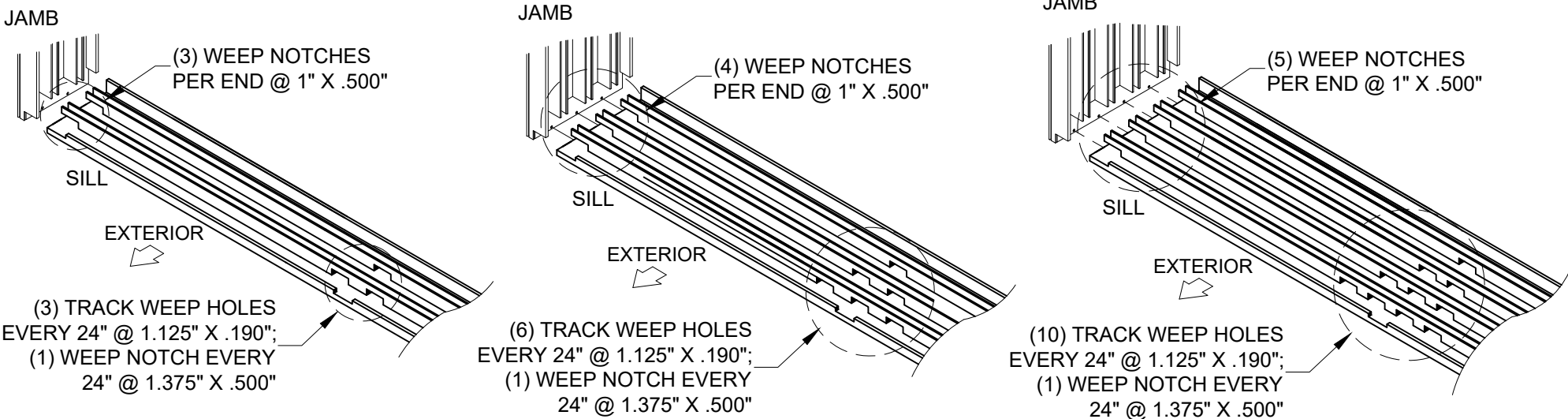
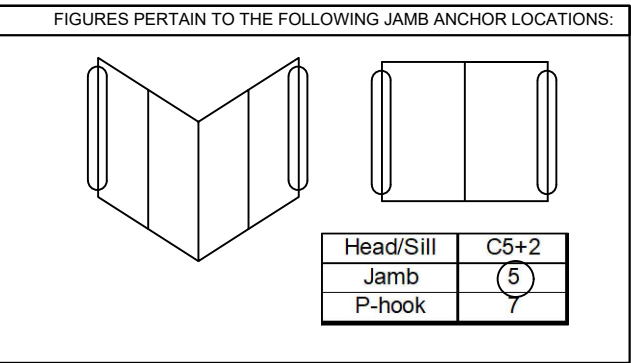
NOTES:
1) SEE TABLES 1 & 2 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.



JAMB ANCHORS LAYOUT, (PARTIAL VIEW):

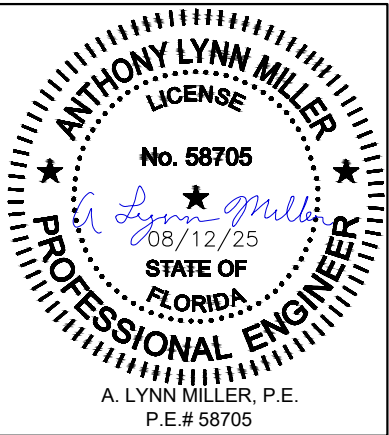


NOTE:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS MAY BE LOCATED IN ADJACENT TRACKS (SIMILAR TO THE 2-TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS.

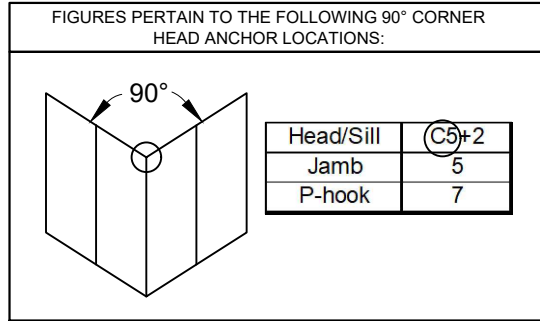
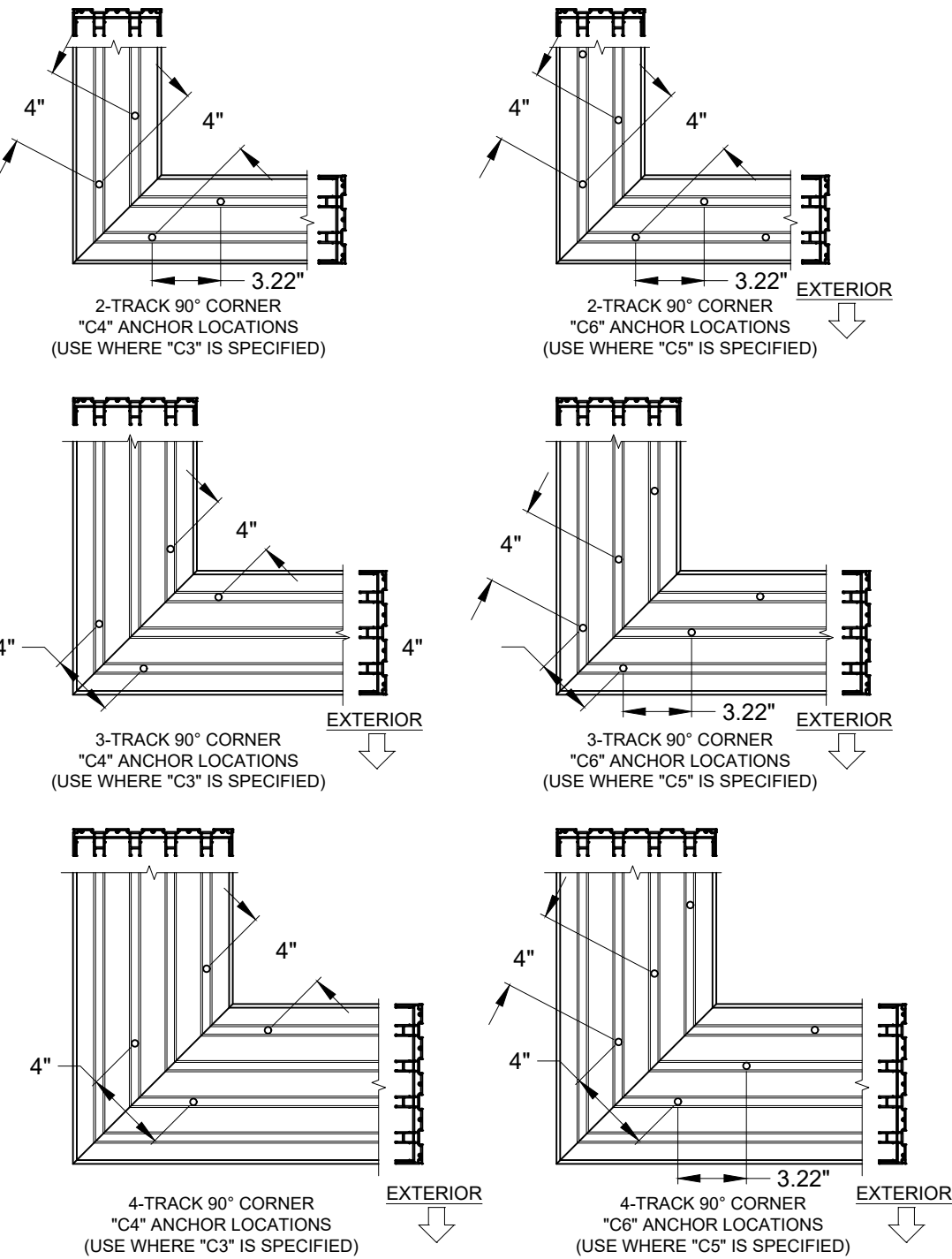


SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)

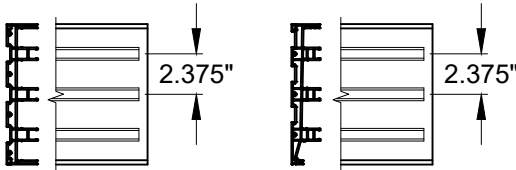
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ANCHOR LOCATIONS C		Drawn By		COLTON KEMPF	
SGD5470NS		12 OF 18		No. DWG	
Sheet				SGD5470NS AAMA ANCHORAGE	
Series		Desc.		Title	



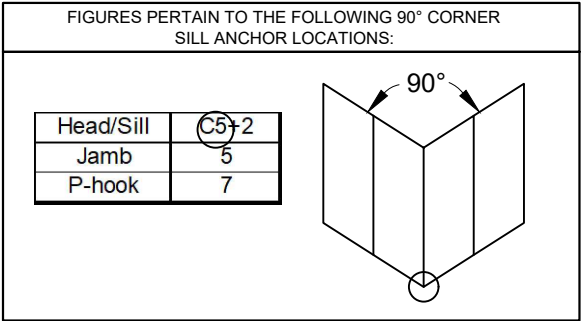
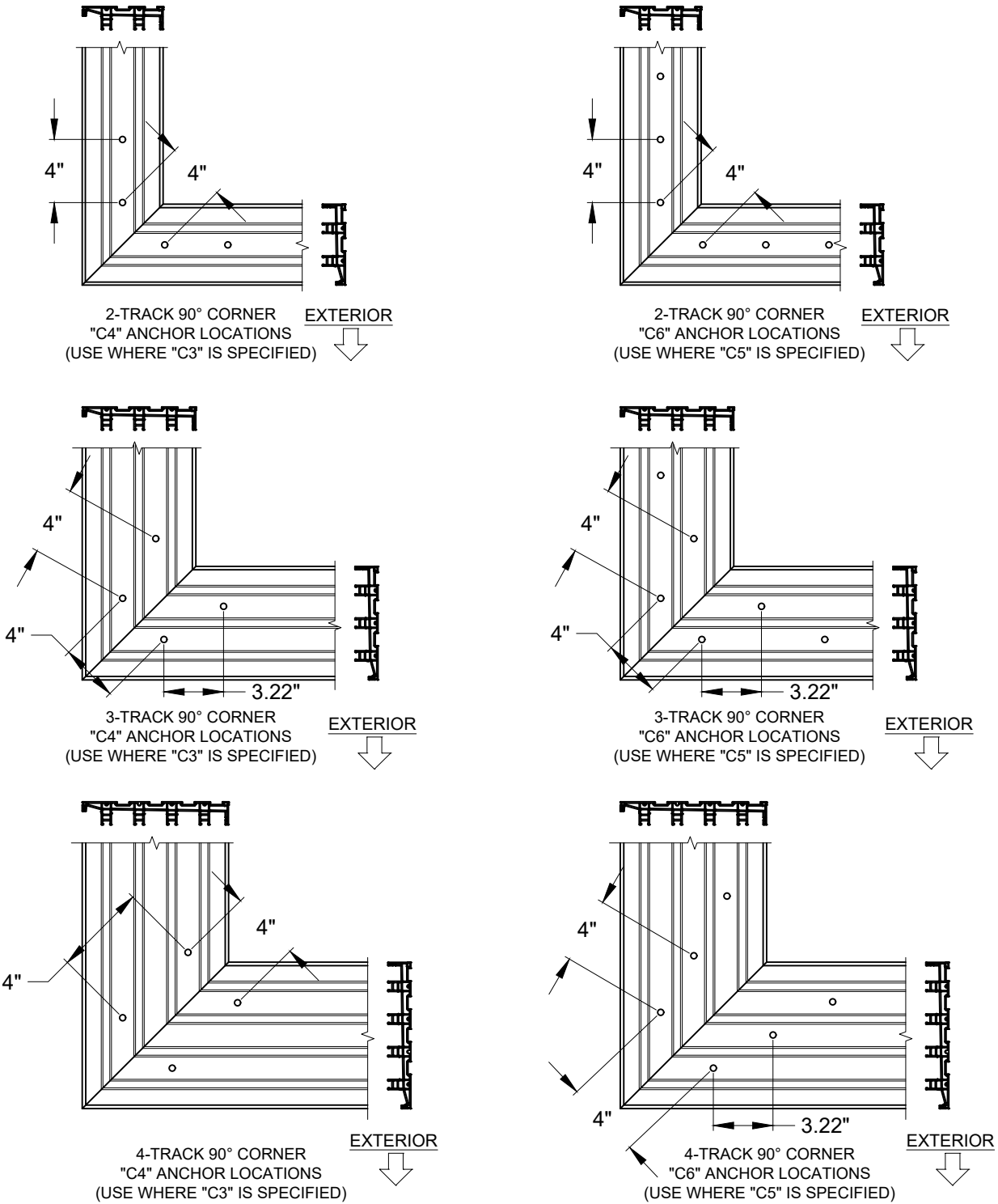
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT:



- 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:



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VINYL SLIDING GLASS DOOR (NI)

ANCHOR LOCATIONS D

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SGD5470NS AAMA
ANCHORAGE

13 OF 18

Sheet

DWG

No.

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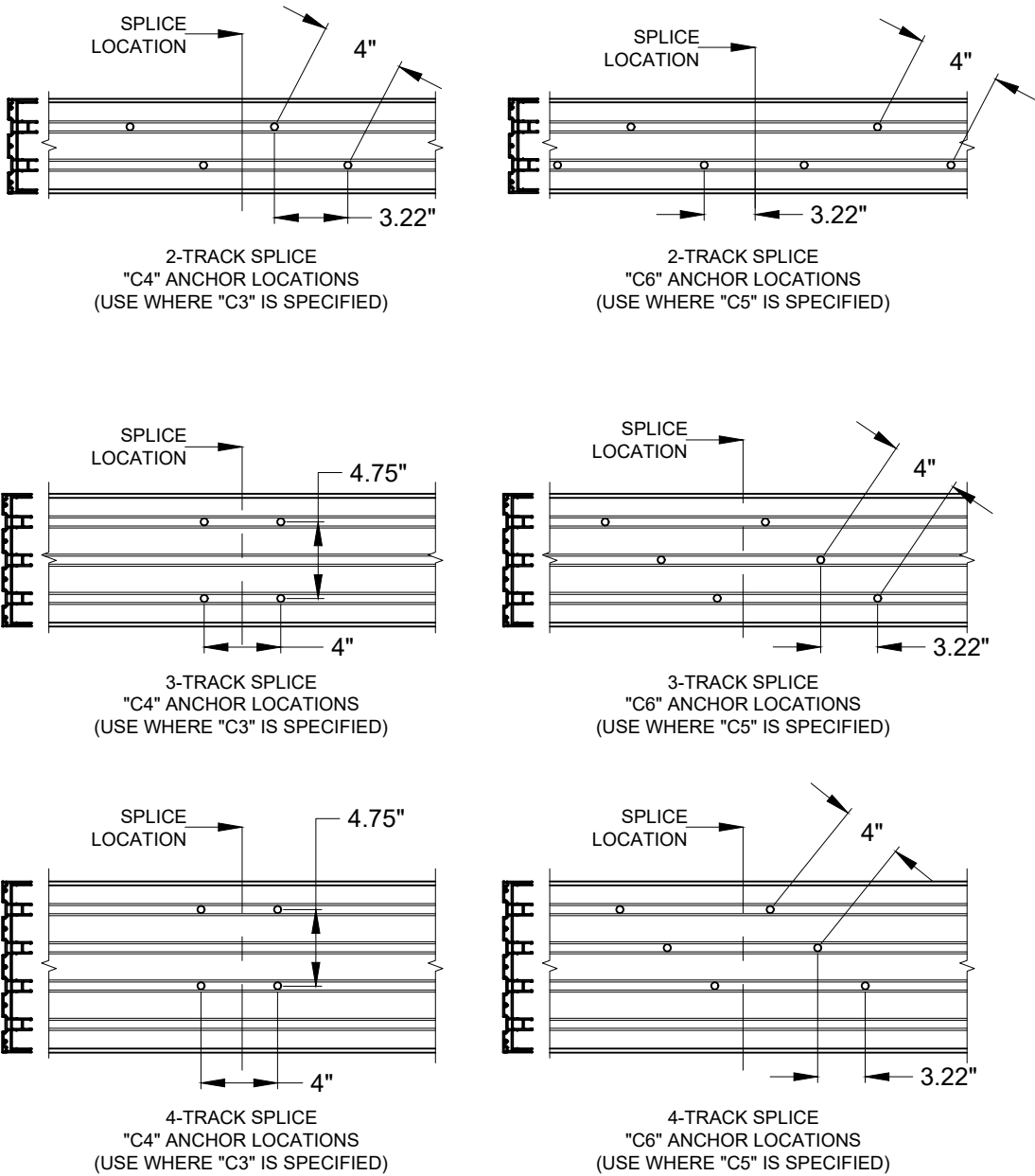
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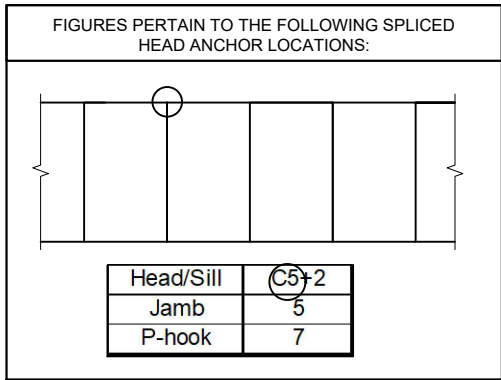
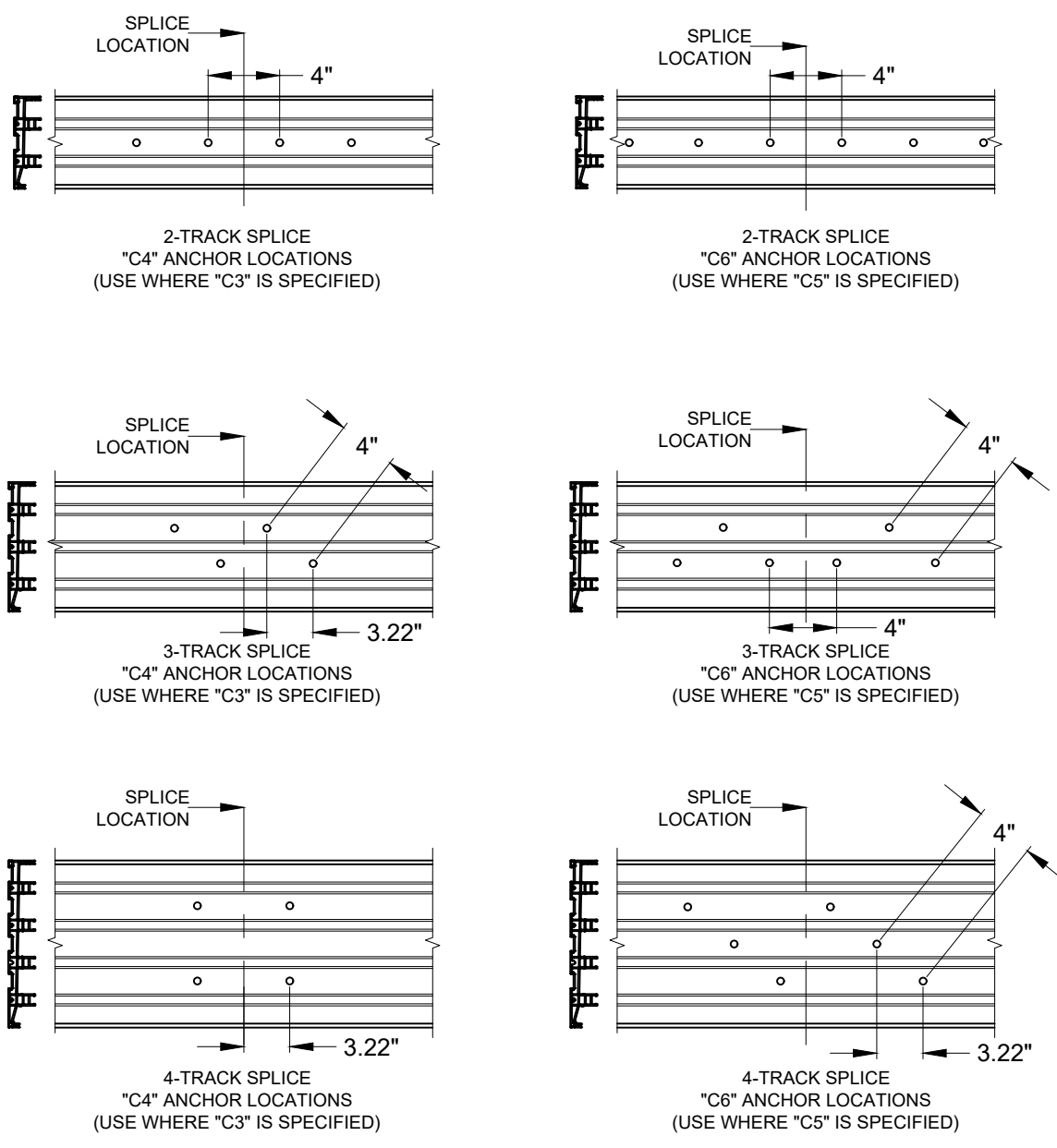
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P.E.# 58705

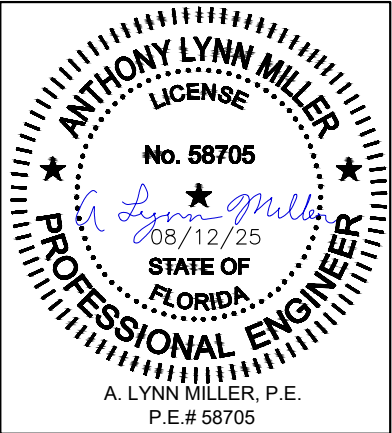
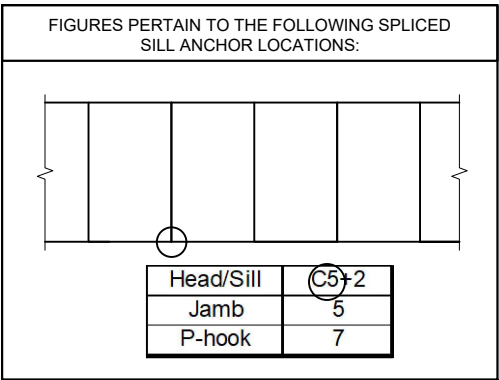
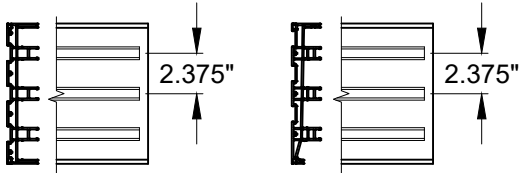
HEAD SPLICE ANCHORS @ INTERLOCK



SILL SPLICE ANCHORS @ INTERLOCK



- NOTES:
- 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) 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) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:

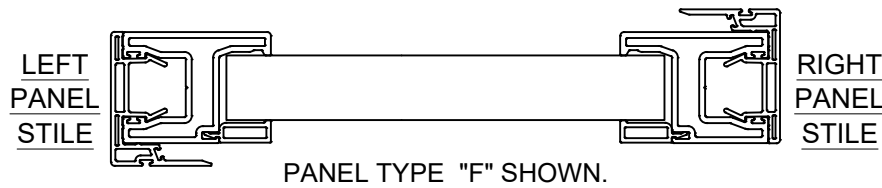


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	VINYL SLIDING GLASS DOOR (NI)		Date 08/12/25
	ANCHOR LOCATIONS F	By COLTON KEMP	DWG No. SGD5470NS AAMA ANCHORAGE
	SGD5470NS	14 OF 18	Sheet

Rev.	Date

PANEL STILE TYPES			
<i>EF</i>	L.H. INTERLOCK		R.H. INTERLOCK
<i>F</i>	L.H. INTERLOCK.		L.H. INTERLOCK
<i>PP</i>	L.H. INTERLOCK		FIXED STILE
<i>K</i>	L.H. INTERLOCK		LOCKSTILE W/ HANDLE
<i>L</i>	L.H. INTERLOCK		ASTRAGAL BOX OUT
<i>SM</i>	SINGLE INTERLOCK OUT		ASTRAGAL BOX IN

PANEL STILE TYPES			
<i>B</i>	R.H. INTERLOCK		R.H. INTERLOCK
<i>E</i>	R.H. INTERLOCK		L.H. INTERLOCK
<i>P</i>	P.H. INTERLOCK		FIXED STILE
<i>A</i>	R.H. INTERLOCK		LOCKSTILE W/ HANDLE
<i>CO</i>	R.H. INTERLOCK		ASTRAGAL BOX OUT
<i>C</i>	R.H. INTERLOCK		ASTRAGAL BOX IN



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".

PANEL STILE TYPES			
<i>RR</i>	FIXED STILE		R.H. INTERLOCK
<i>R</i>	FIXED STILE		L.H. INTERLOCK
<i>SO</i>	FIXED STILE		ASTRAGAL BOX OUT
<i>SI</i>	FIXED STILE		ASTRAGAL BOX IN

PANEL STILE TYPES			
<i>D</i>	LOCKSTILE W/ HANDLE		R.H. INTERLOCK
<i>M</i>	LOCKSTILE W/ HANDLE		L.H. INTERLOCK
<i>JO</i>	LOCKSTILE W/ HANDLE		ASTRAGAL BOX OUT
<i>JI</i>	LOCKSTILE W/ HANDLE		ASTRAGAL BOX IN

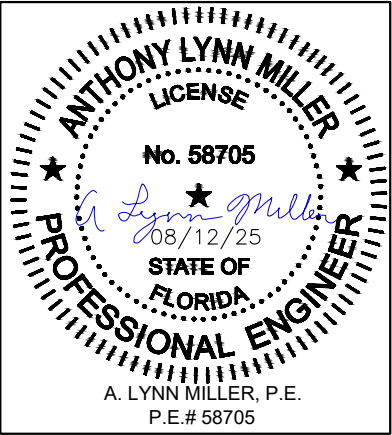
PANEL STILE TYPES			
<i>LR</i>	ASTRAGAL BOX OUT		R.H. INTERLOCK
<i>TO</i>	ASTRAGAL BOX OUT		FIXED STILE
<i>UO</i>	ASTRAGAL BOX OUT		LOCKSTILE W/ HANDLE

PANEL STILE TYPES			
<i>N</i>	ASTRAGAL BOX IN		L.H. INTERLOCK
<i>TI</i>	ASTRAGAL BOX IN		FIXED STILE
<i>UI</i>	ASTRAGAL BOX IN		LOCKSTILE W/ HANDLE
<i>V</i>	FIXED STILE		FIXED STILE

PANEL STILE TYPES			
<i>AT</i>	CORNER ASTRAGAL IN		R.H. INTERLOCK
<i>TA</i>	L.H. INTERLOCK		CORNER ASTRAGAL IN
<i>CS</i>	CORNER ASTRAGAL OUT		L.H. INTERLOCK
<i>SC</i>	R.H. INTERLOCK		CORNER ASTRAGAL OUT
<i>AS</i>	CORNER ASTRAGAL IN		L.H. INTERLOCK
<i>SA</i>	R.H. INTERLOCK		CORNER ASTRAGAL IN
<i>CF</i>	CORNER ASTRAGAL OUT		FIXED STILE
<i>FC</i>	FIXED STILE		CORNER ASTRAGAL OUT
<i>CS</i>	CORNER ASTRAGAL OUT		R.H. INTERLOCK
<i>TC</i>	L.H. INTERLOCK		CORNER ASTRAGAL OUT

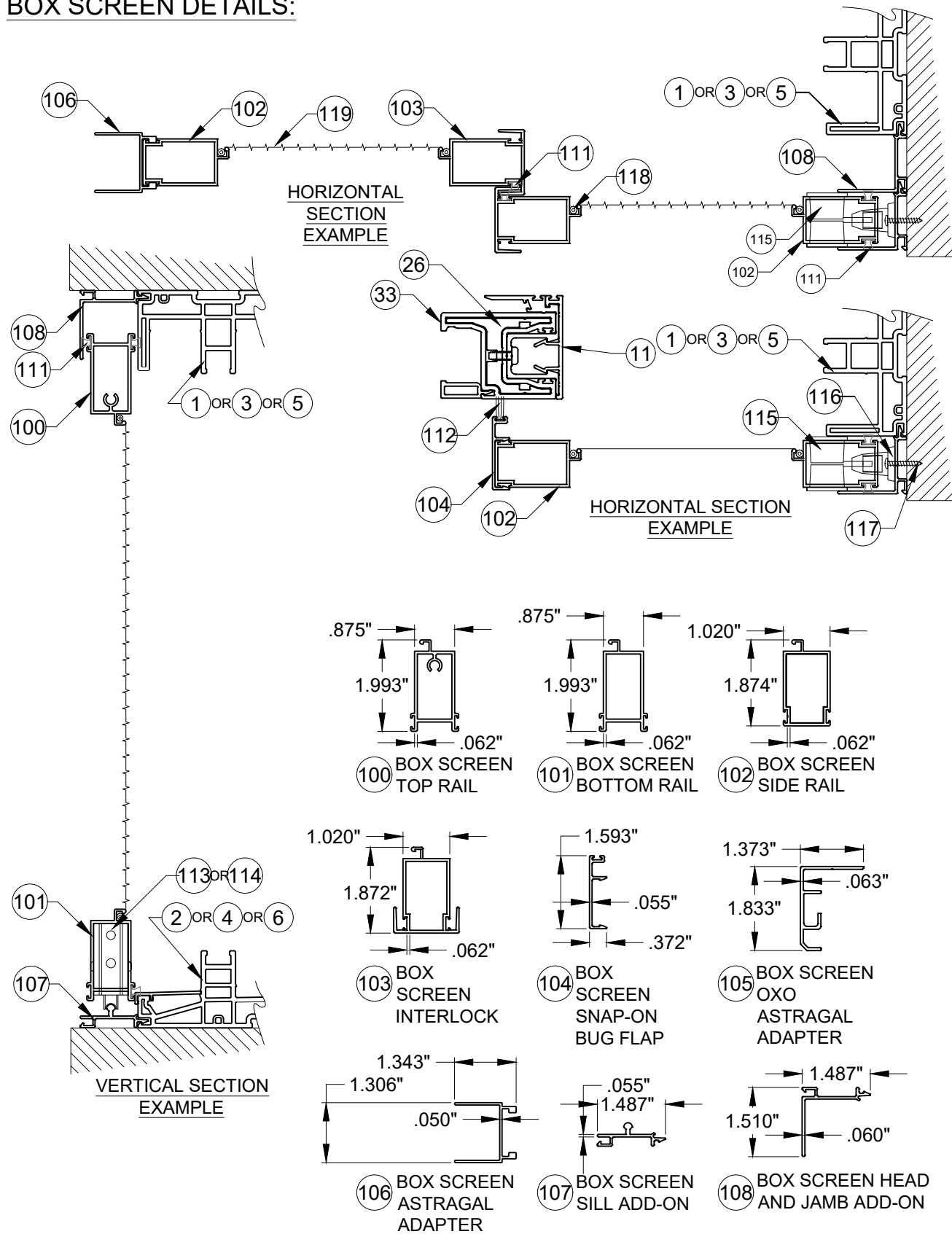
SCREEN PANEL TYPES			
<i>C</i>	SINGLE INTERLOCK		ASTRAGAL
<i>M</i>	LOCKSTILE		SINGLE INTERLOCK
<i>J</i>	LOCKSTILE		ASTRAGAL
<i>SD</i>	SINGLE INTERLOCK		DOUBLE INTERLOCK
<i>A</i>	SINGLE INTERLOCK		LOCKSTILE
<i>U</i>	ASTRAGAL		LOCKSTILE
<i>DS</i>	DOUBLE INTERLOCK		SINGLE INTERLOCK

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PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI)		By		Drawn		No.	
PANEL TYPES		15 OF 18		Sheet		DWG		SGD5470NS	
Series		Desc.		Title		Title		Title	

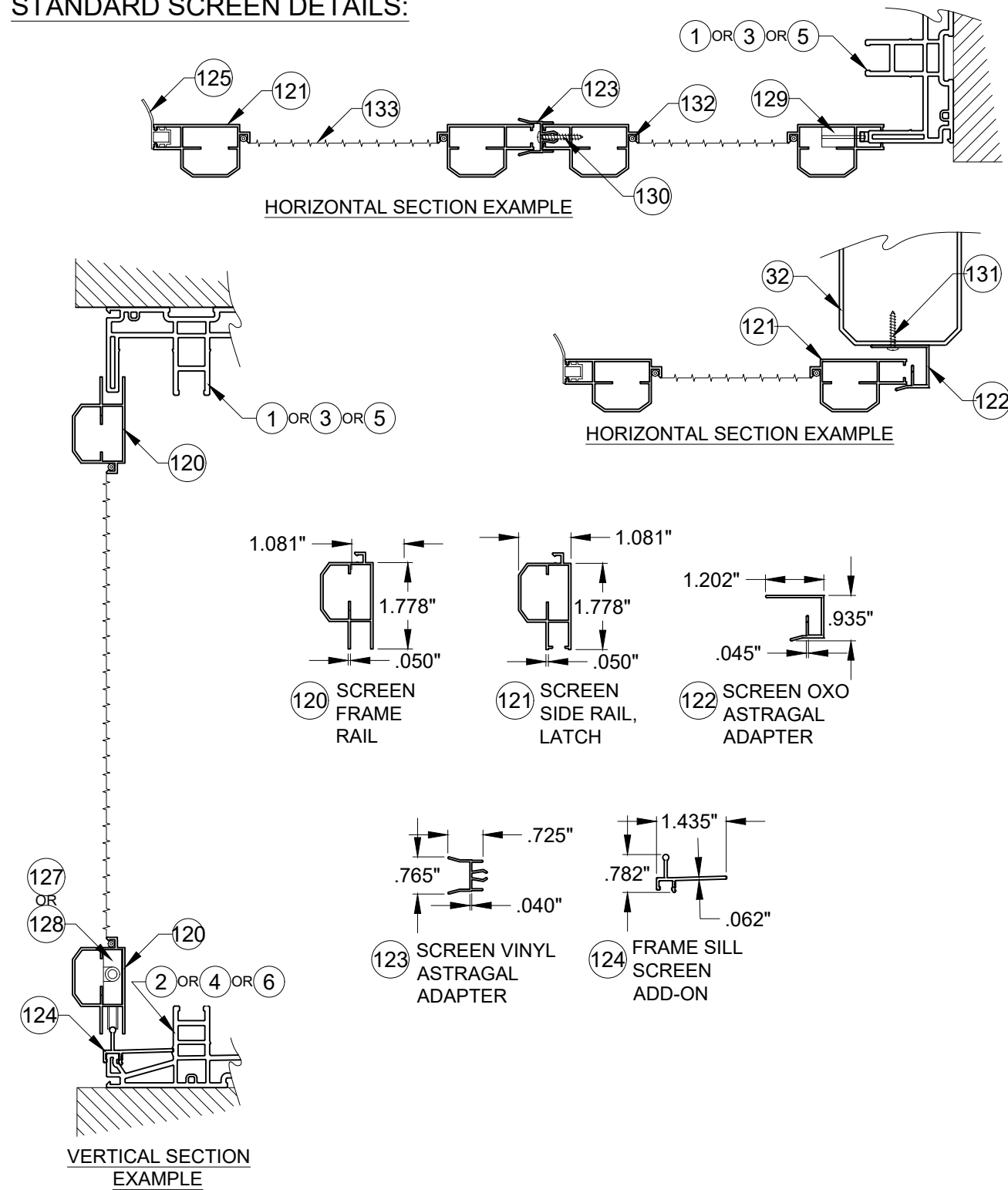


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BOX SCREEN DETAILS:

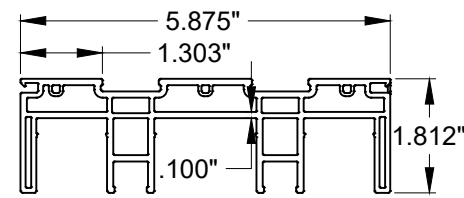


STANDARD SCREEN DETAILS:

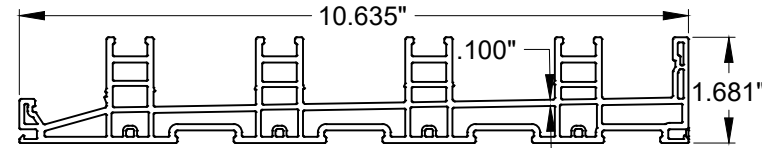


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PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL SLIDING GLASS DOOR (NI)		
COLTON KEMPf Drawn By		ANCHORAGE No.		
SCREEN DETAILS Sheet		16 OF 18 DWG		
SGD5470NS Series		SGD5470NS AAMA Desc.		

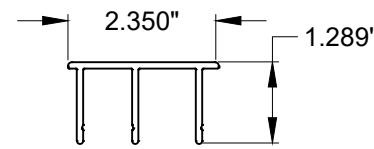
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A. Lynn Miller
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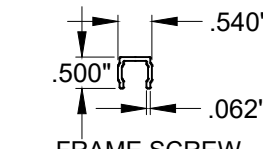
① 2 TRACK HEAD/JAMB



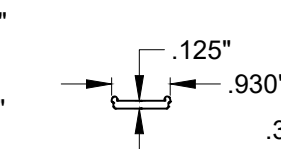
⑥ 4 TRACK SILL



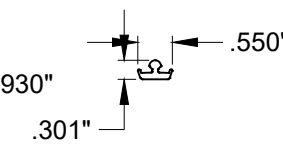
⑱ 4 TRACK EXT. JAMB COVER



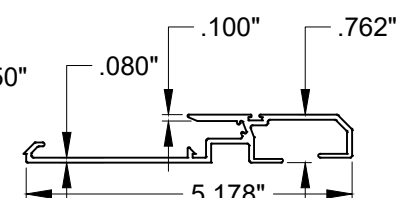
⑦ FRAME SCREW COVER (PVC)



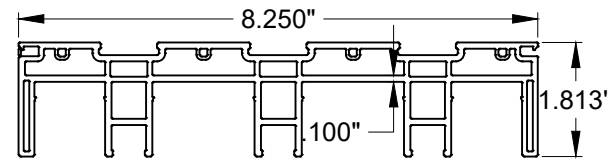
⑧ ANCHOR PLATE



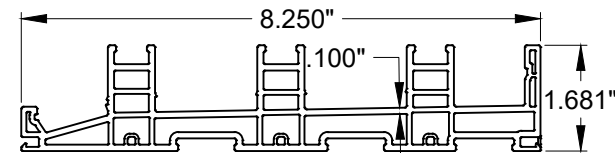
⑭ TRACK INSERT



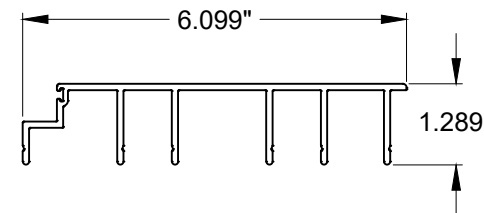
⑳ P-HOOK



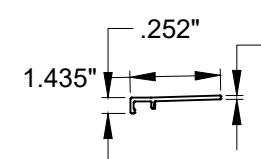
③ 3 TRACK HEAD/JAMB



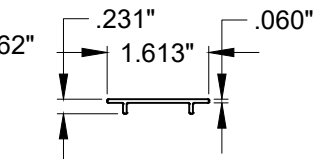
④ 3 TRACK SILL



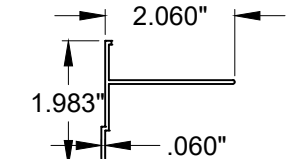
⑱ 3 TRACK EXT. JAMB COVER



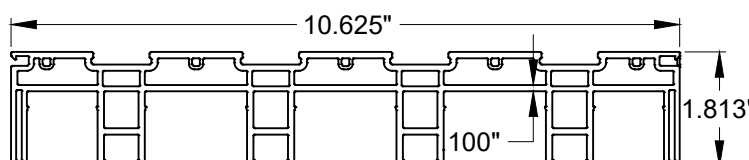
⑫ OUTER SILL COVER



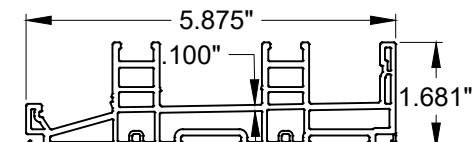
⑬ SILL TRACK COVER



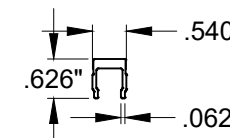
㉒ P-HOOK ADAPTOR



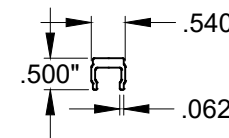
⑤ 4 TRACK HEAD/JAMB



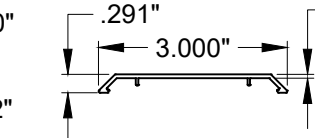
② 2 TRACK SILL



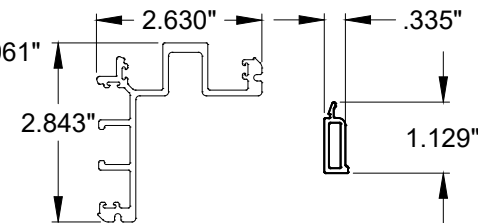
⑱ EXTENDED KEEPER



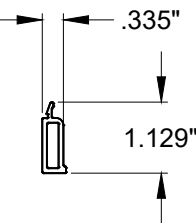
㉒ KEEPER



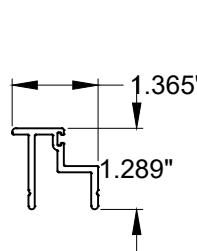
④⑧ P-HOOK COVER



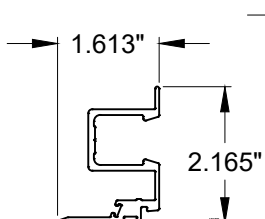
③⑨ NS 90 DEGREE CORNER



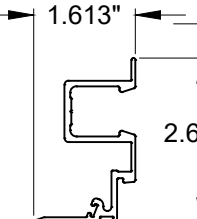
⑧② LIG BEAD CORNER



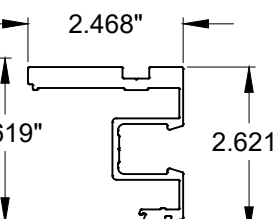
⑩ 2 TRACK INT. JAMB COVER



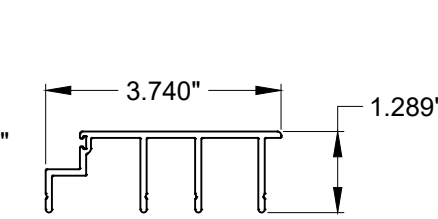
③⑩ NS STD INTERLOCK



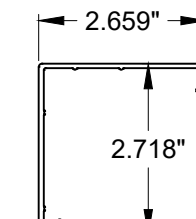
③⑦ P-HOOK INTERLOCK



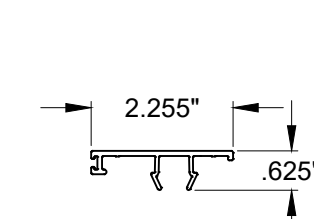
③⑤ NS HD INTERLOCK



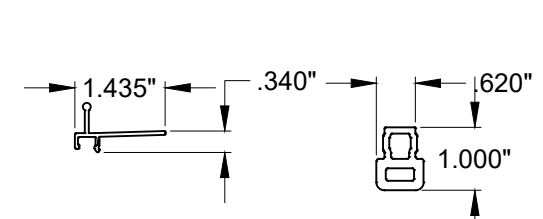
⑨ 2 TRACK EXT JAMB COVER



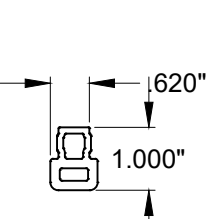
③⑥ NS HD INTERLOCK COVER



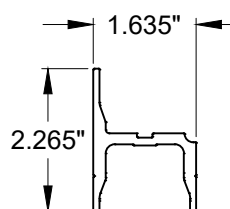
①① NS STD. INTLK COVER



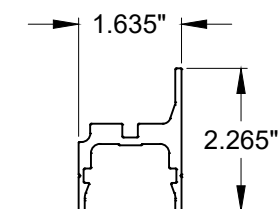
①⑦ OUTER SCREEN TRACK COVER



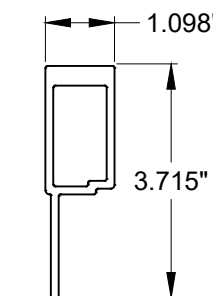
⑥④ HEADER RAIL



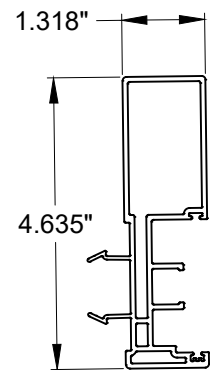
②⑤ NS RAIL REINFORCEMENT



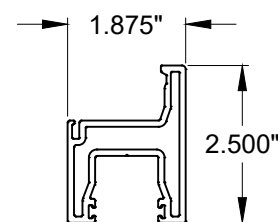
②⑥ NS STILE REINFORCEMENT



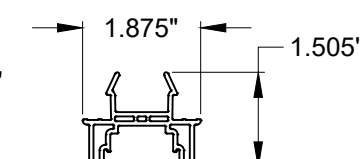
②⑨ ASTRAGAL REINFORCEMENT



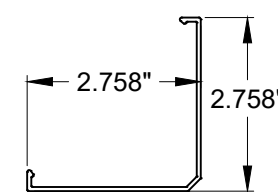
③② ASTRAGAL ADD-ON



③③ NS PANEL STILE



③① NS LOCK ADAPTER



④⑩ 90 DEGREE CORNER COVER

NOTES:
1) SEE SHEET 4 FOR SILL RISERS.
2) SEE SHEET 16 FOR SCREEN PARTS.

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VINYL SLIDING GLASS DOOR (NI)		EXTRUSIONS		17 OF 18		Sheet		SGD5470NS		SGD5470NS AAMA	

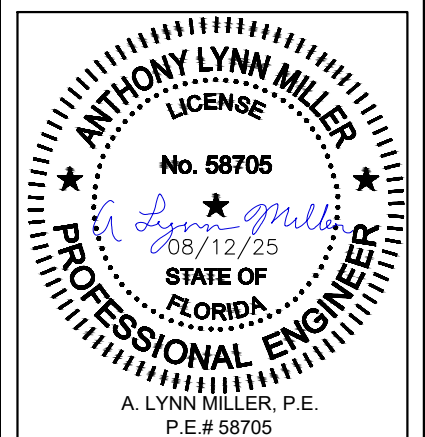


TABLE C1:

#	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	19162	2 Track Jamb Cover	Rigid PVC
10	19161	Jamb Filler	Rigid PVC
11	19154	NS Standard Interlock Cover	Rigid PVC
12	19092	Outer Sill Cover	6063-T6 Alum.
13	19011 / 19104	Mid Sill Cover	Rigid PVC / Alum.
14	19007A	Track Insert	6063-T6 Alum.
17	19012	Outer Screen Track Cover	6063-T6 Alum.
18	19163	3 Track Jamb Cover	Rigid PVC
19	19164	4 Track Jamb Cover	Rigid PVC
20	19029BA	Keeper	6063-T6 Alum.
21	19020	P-Hook	6063-T6 Alum.
22	19032	P-Hook Adapter	6063-T6 Alum.
25	19176	Top / Bottom Rail Reinforcement	6005-T5 Alum.
26	19151	Stile and Lockstile Reinforcement	6005-T5 Alum.
29	19156	Astragal Reinforcement	6005-T5 Alum.
30	19153	NS Strd Interlock	6063-T6 Alum.
31	19152	NS lock Adaptor	Rigid PVC
32	19155	Astragal Add-on	Rigid PVC
33	19150	NS Panel Stile	Rigid PVC
35	19157	NS HD Interlock	6063-T6 Alum.
36	19158	NS HD Interlock Cover	Rigid PVC
37	19166	NS HD P-hook Interlock	6063-T6 Alum.
39	19168	90° Corner Astragal	6063-T6 Alum.
40	19169	90° Corner Astragal Cap	6063-T6 Alum.
42	19085	Sill Riser - (2-1/2")	6063-T6 Alum.
43	19022A	Sill Riser - (3-1/2")	6063-T6 Alum.
48	19014	P-hook Cover	Rigid PVC

TABLE C2:

#	Part #	Description	Material
50	6TP247	T-Slot Bulb Weatherstrip	PVC
51	71984	1/4" x 3/4" x .8" Dust Plug	
52	71983	1-1/2" x 3/4" x 4" Dust Plug	
53	61644	Vertical Weatherstrip	
61	19177	Tandem Roller Assembly	SS
63	102412FP7MFTF	#10-24 x 1/2" FH	SS
64	19165	Header Rail	Nylon
65	71966	Roller Hole Access 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	1032134FP7FTFX	10-32 x 1 3/4" Ph.FH MS @ Lock	SS
71	varies	Handle Kit	Cast Zinc
75		I.G. Spacer	Varies
79		Dow-791, 983, 995 or RGS-7700 Backbedding	Silicone
82	19159	1-1/16" IG Bead	Rigid PVC
85	71725K	Setting Block 1/2" x 4" x 1/16", 85 +/- 5 duro.	Neoprene
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
96	710X1.75PPX	#10 x 2-1/2" Ph. FH SDS @ Keeper	SS
98	61985	5/8 x 187 Back Finseal	
99	71695	1 x 1.5 x .75 Dust Plug with Fin	

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

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

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

PGT
Custom Windows and Doors
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

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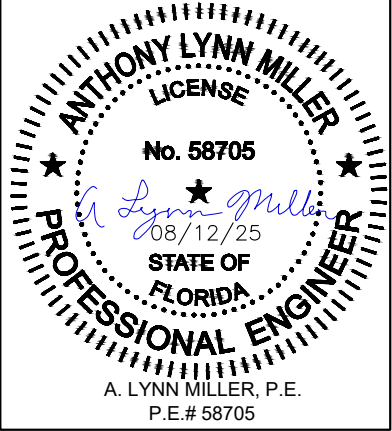
18 OF 18

SGD5470NS

Sheet

Desc.

Series



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