

PLY GEM WINDOWS - AMERICAN CRAFTSMAN 30 / SERIES 4700

ALUMINUM SINGLE-HUNG (HVHZ - NON-IMPACT)

NOTES:

1. THIS INSTALLATION HAS BEEN EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE INCLUDING THE HVHZ, AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES DO NOT EXCEED THE DESIGN PRESSURE RATINGS HEREIN.
2. WHEN USED IN AREAS REQUIRING IMPACT PROTECTION, THIS PRODUCT REQUIRES THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).
3. ANCHOR TYPE, SIZE, SPACING, EMBEDMENT, AND EDGE DISTANCE SHALL BE AS SPECIFIED IN THESE DRAWINGS. USE APPROPRIATE ANCHORAGE FROM TABLE I ACCORDING TO SUBSTRATE TYPE. A MINIMUM CENTER-TO-CENTER SPACING OF 3" SHALL BE MAINTAINED BETWEEN ALL INSTALLATION FASTENERS IN ANY DIRECTION.
4. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR MASONRY OPENINGS WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, AND INTO MASONRY SUBSTRATE. WOOD BUCKS WITH MASONRY ARE OPTIONAL.
5. WOOD, METAL, OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED BY OTHERS TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVED THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR AUTHORITY HAVING JURISDICTION (AHJ).
6. IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AHJ TO SELECT PLY GEM PRODUCTS TO MEET ALL APPLICABLE LOCAL LAWS, BUILDING CODES, ORDINANCES, OR OTHER SAFETY REQUIREMENTS FOR EACH INSTALLATION.
7. SHIMS ARE REQUIRED WHERE GAPS OF GREATER THAN 1/16" EXIST BETWEEN OPENING AND FRAME. MAX. SHIM STACK IS 1/4". SHIMS SHALL BE LOAD-BEARING AND CAPABLE OF TRANSFERRING LOADS TO THE SUBSTRATE.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS USING ASTM E 2112 AND IS NOT ADDRESSED BY THIS DOCUMENT.
9. INSTALLED GLAZING SHALL COMPLY WITH ASTM E 1300.
10. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
ANY DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH CODE REQUIREMENTS.
11. A WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
12. PRODUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS INTERTEK BUILDING AND CONSTRUCTION I9308.01-550-I8-RI, J2927.02-550-I8-R0 AND J8133.02-550-I8-R0.
13. DESIGNATION "X" IS FOR OPERABLE PANEL AND "O" IS FOR FIXED PANEL.
14. USE A BACKER ROD ON ALL JOINTS >3/4" DEEP AND/OR WIDER THAN 1/4". FINISHED CAULK JOINT SHOULD BE A MINIMUM OF 3/8" DEEP.

SIZE CHART				
PRODUCT	OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE
	WIDTH	HEIGHT		
4712FL	52-1/8"	71"	LC-PG50	+50/-50 PSF

TABLE OF CONTENTS	
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2	ELEVATIONS & ANCHOR LAYOUTS
3	4712FL VERTICAL & HORIZONTAL SECTIONS
4	GLAZING DETAIL & MEETING RAIL SECTION
5	BILL OF MATERIALS

Lucas Turner

2023.03.13

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TABLE 1: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DISTANCE
A	CONCRETE (2 KSI MIN.)	1/4" ITW TAPCON-PFH or 1/4" ITW TAPCON-12 PFH	1-1/2"	1-1/8"
B	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	1/4" ITW TAPCON-PFH or 1/4" ITW TAPCON-12 PFH	1"	2"
C	2X MIN. SOUTHERN PINE WOOD (G=0.55)	1/4" ITW TAPCON-PFH or 1/4" ITW TAPCON-12 PFH	1-3/8"	7/8"
D	CONCRETE (2.85 KSI MIN.)	1/4" ELCO ULTRACON or 1/4" ELCO ULTRACON TRIMFIT FLAT	1-3/4"	1-1/8"
E	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	1/4" ELCO ULTRACON or 1/4" ELCO ULTRACON TRIMFIT FLAT	1-1/4"	2-1/2"
F	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#12 WOOD SCREW	1-3/8"	7/8"
G	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#12-14 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

*NOTE: 1/4" SCREWS IN TABLE 1 MAY HAVE 1/4" HEAD SIZE OR #12 HEAD SIZE.

PlyGem

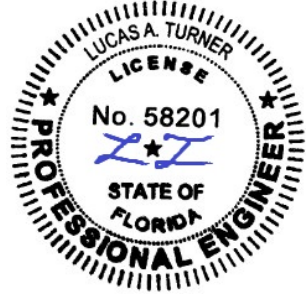
RESIDENTIAL SOLUTIONS

A division of Cornerstone Building Brands

433 N. MAIN ST.,
PO BOX 559,
ROCKY MOUNT, VA 24151

PH: 540-484-6348
FX: 540-484-6683

TITLE: SERIES 4712FL SINGLE HUNG HVHZ NON-IMPACT GENERAL AND INSTALLATION NOTES				
DATE:	DWN BY:	CHK BY:	SCALE:	REVISION DESCRIPTION
				BY DATE
12.10.18	LMH	.	NTS	LMH 09.20.19
				LMH 11.30.20
				LMH 01.09.23
				LMH 03.08.23



03/08/2023

LUCAS A. TURNER, P.E.

FL PE # 58201

TURNER ENGINEERING & CONSULTING, INC.

(COA # 29779)

2428 OLD NATCHEZ TRACE

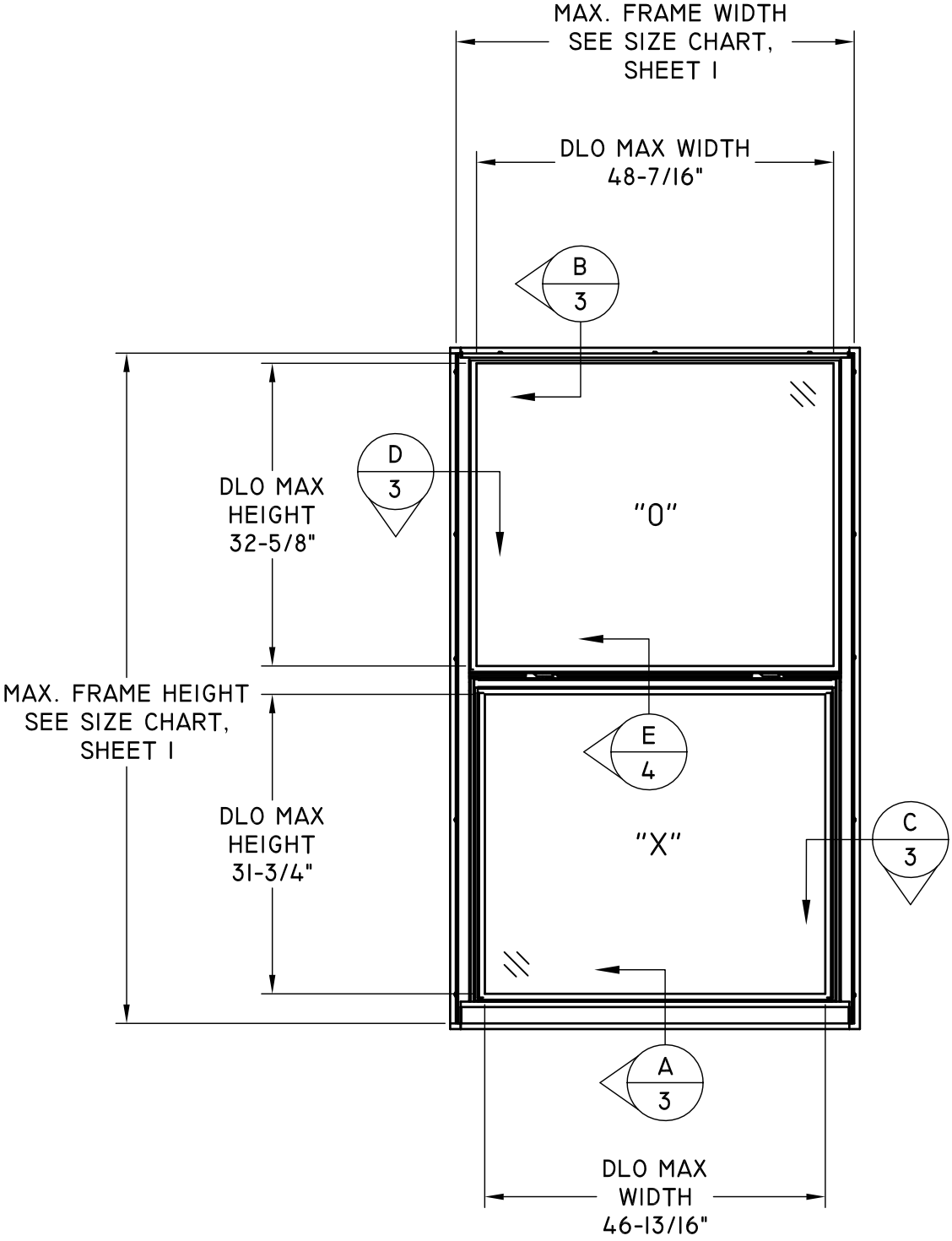
TRAIL, CAMDEN, TN 38320

PH. 941-380-1574

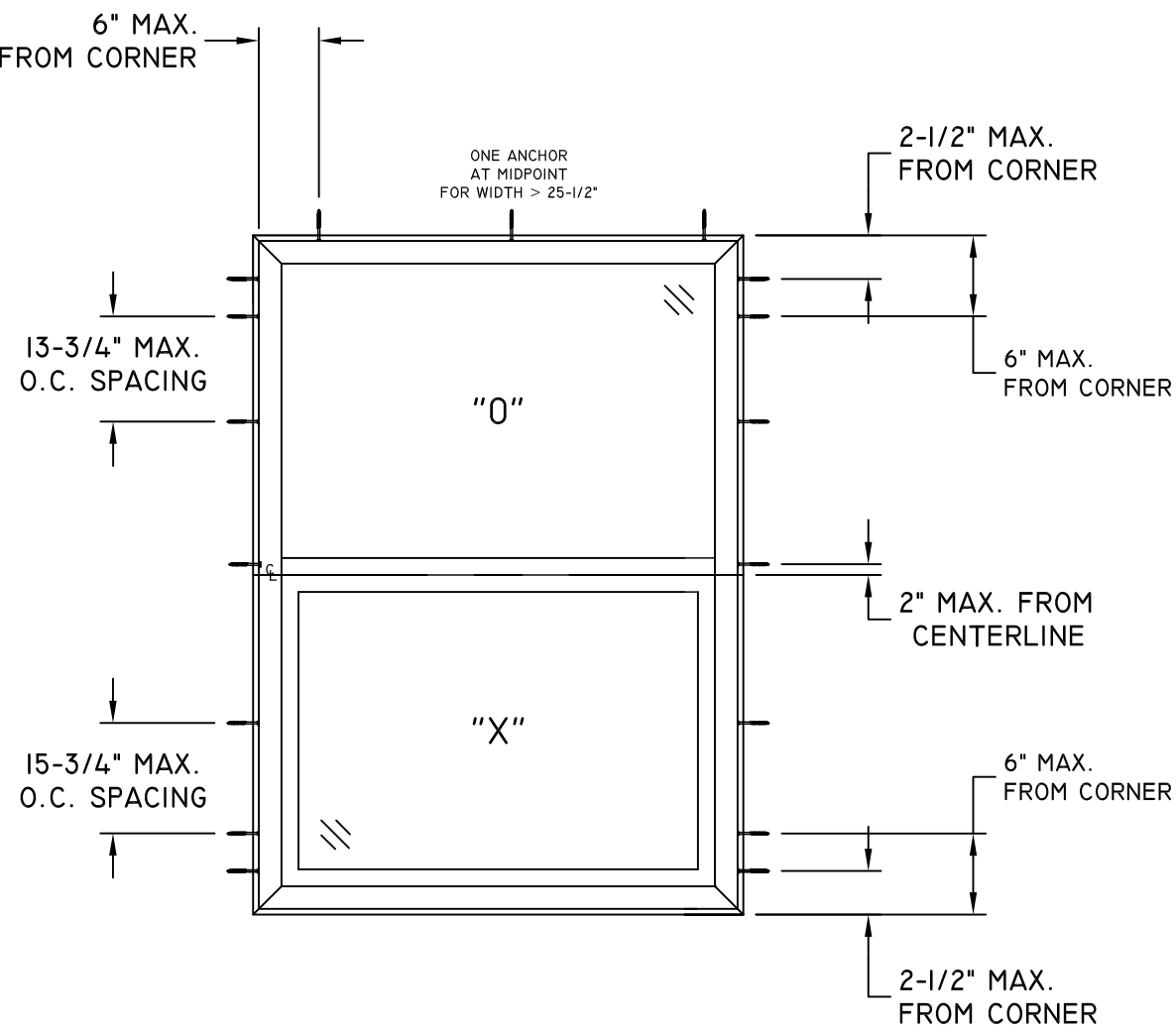
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DWG #: PGW312

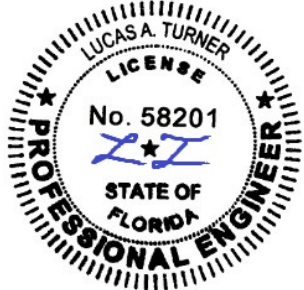
SHEET: 1 OF 5

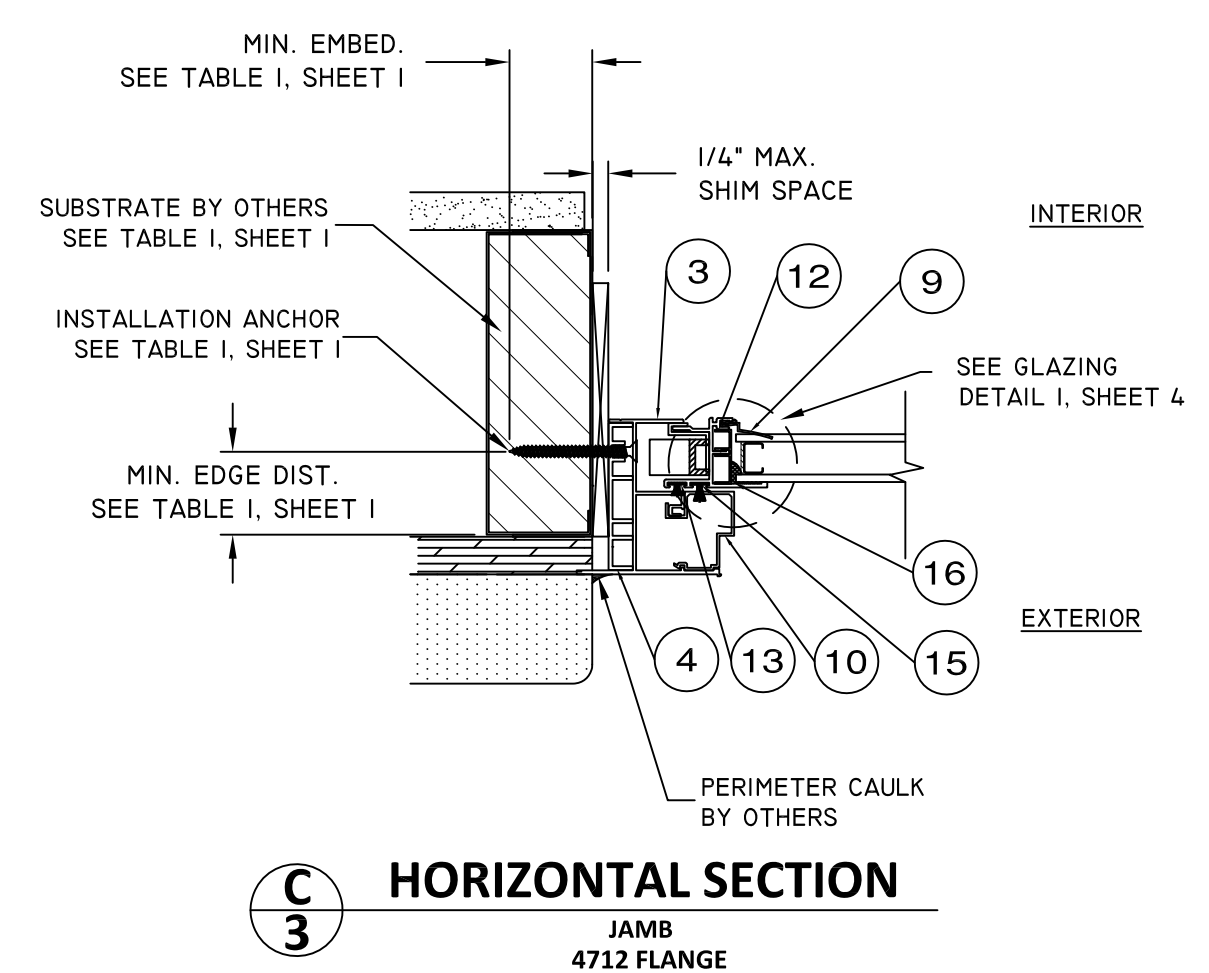
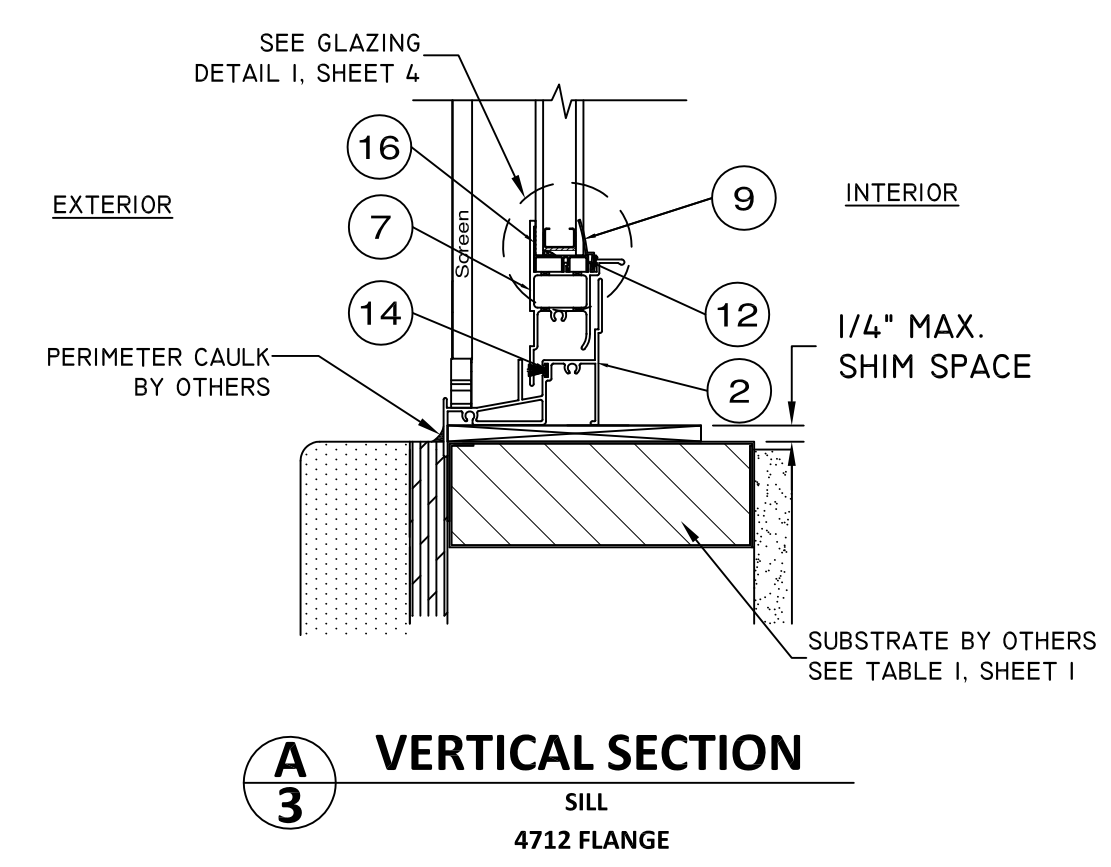
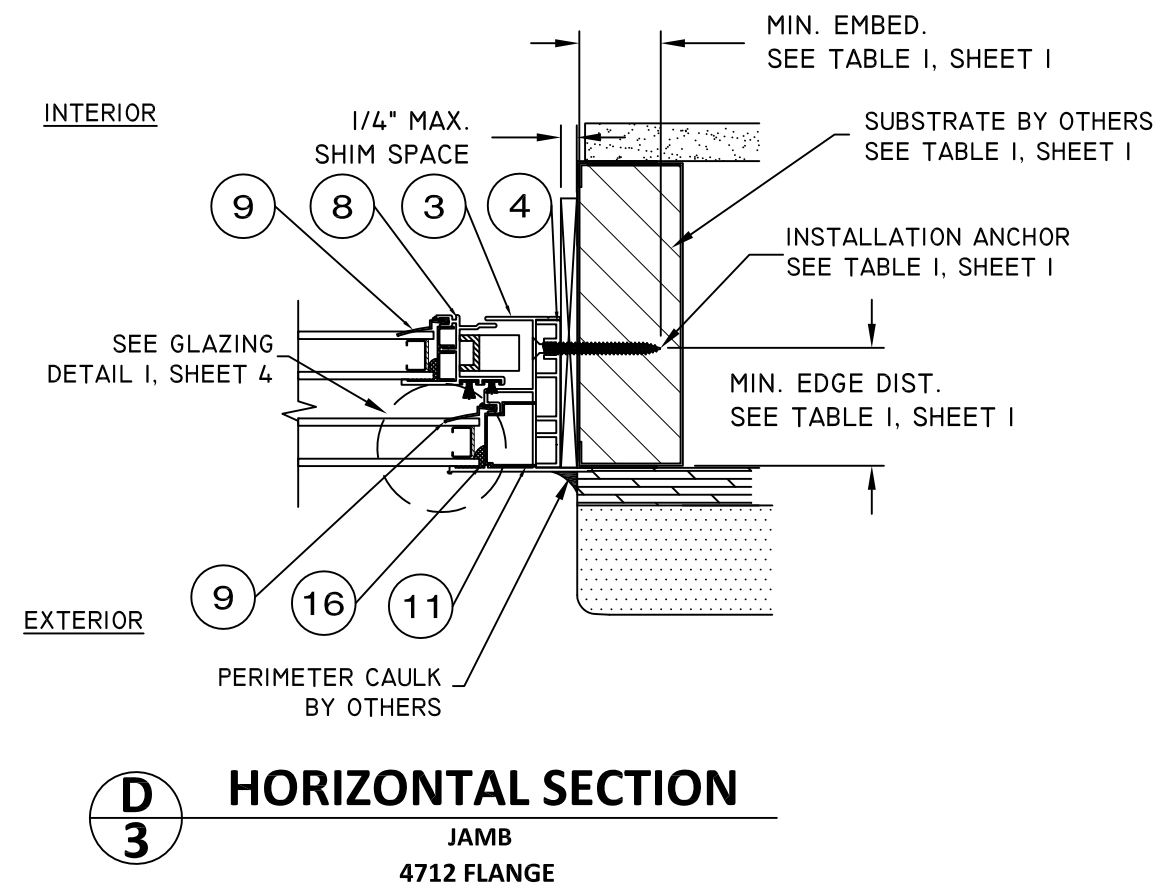
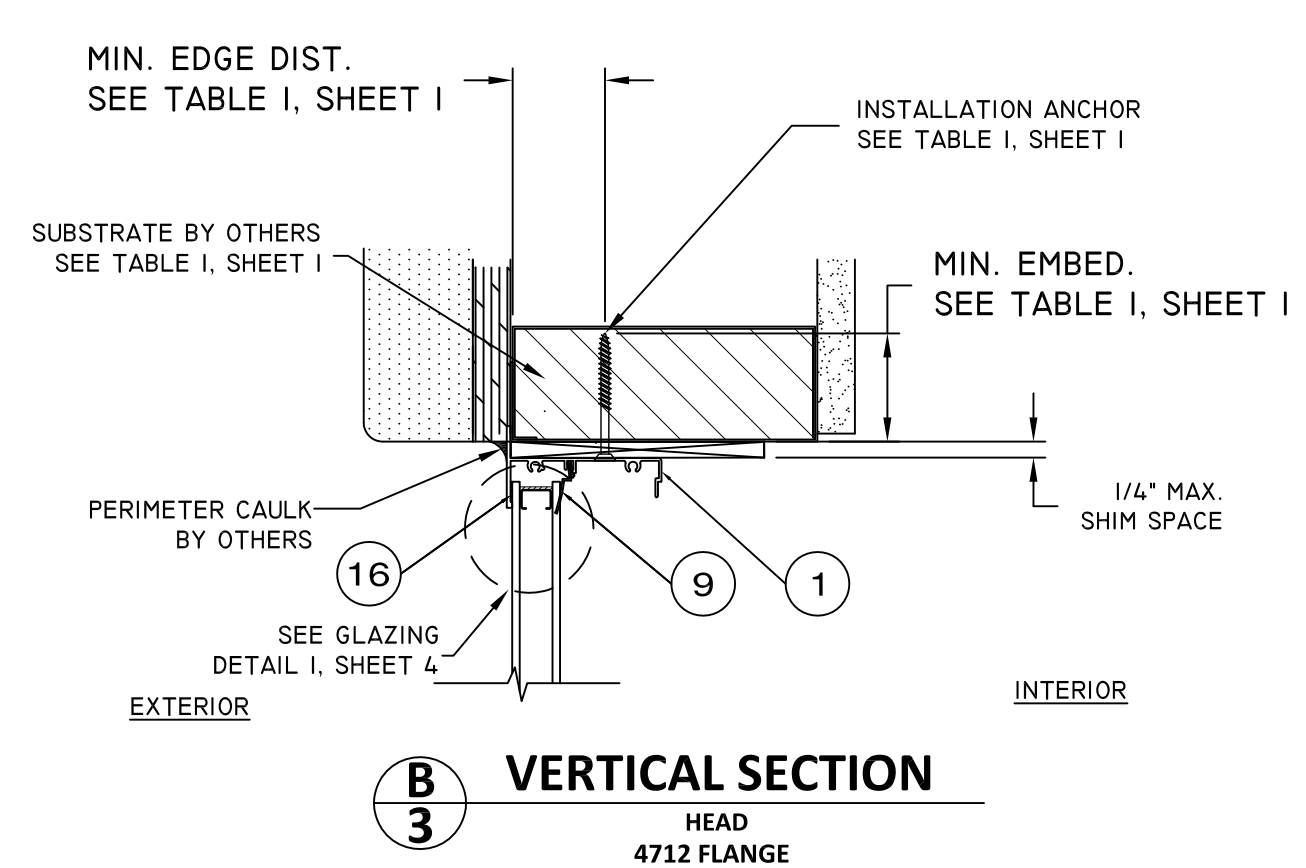


ELEVATION



FLANGE ANCHOR
LAYOUT

TITLE: SERIES 4712FL SINGLE HUNG HVHZ NON-IMPACT ELEVATIONS & ANCHOR LAYOUTS		DATE	BY		DATE
		12.10.18	LMH		09.20.19
		DWN BY:		LMH	11.30.20
		CHK BY:		LMH	01.09.23
		SCALE:		NTS	03.08.23
 03/08/2023 LUCAS A. TURNER, P.E. FL PE # 58201 TURNER ENGINEERING & CONSULTING, INC. (COA # 29779) 2428 OLD NACHEZ TRACE TRAIL, CAMDEN, TN 38320 PH. 941-380-1574					
FL#:		15329			
DWG #:		PGW312			
SHEET:		2 OF 5			

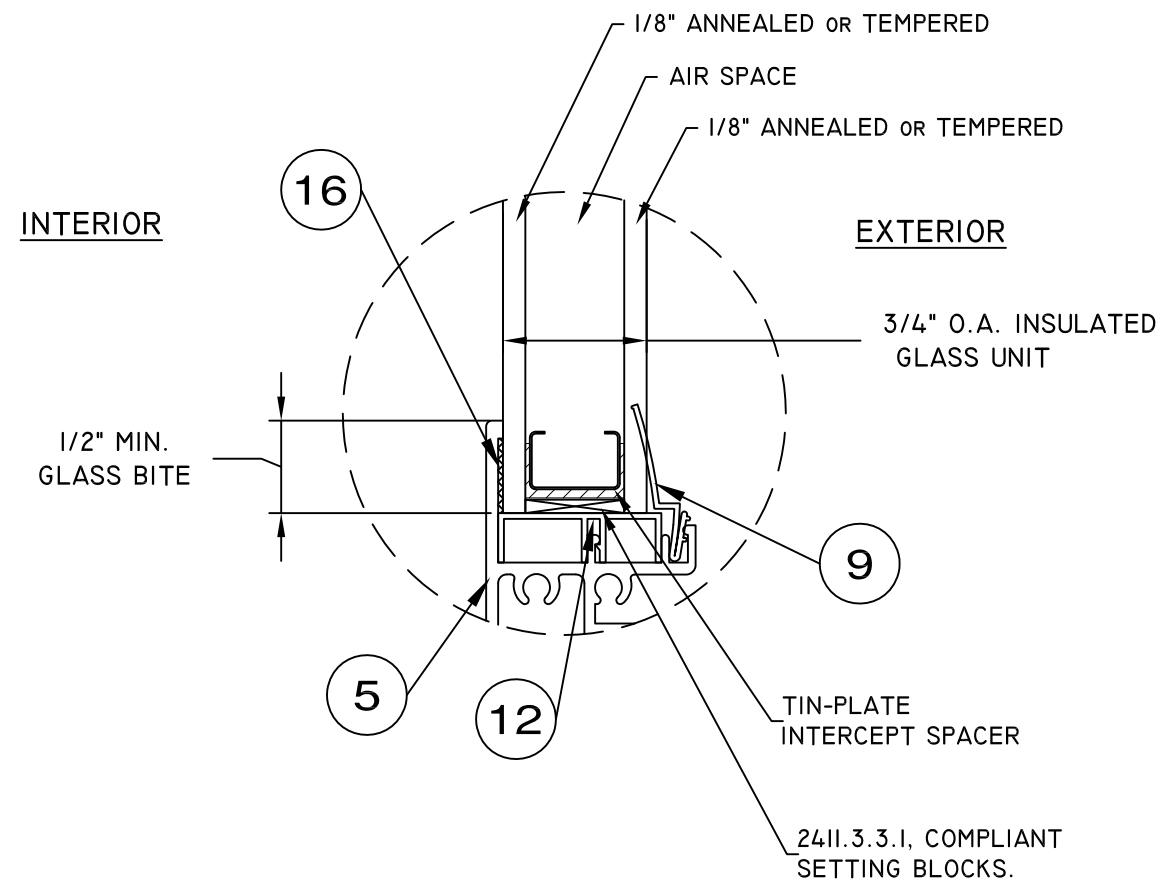
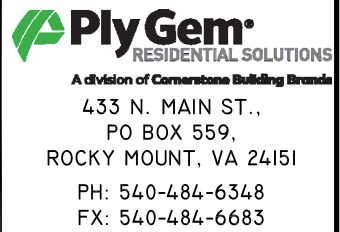


TITLE: SERIES 4712FL SINGLE HUNG HVHZ NON-IMPACT VERTICAL SECTIONS & HORIZONTAL SECTIONS			
DATE: 12.10.18	DWN BY: LMH	CHK BY:	SCALE: NTS
NO.	REVISION DESCRIPTION	BY	DATE
A	UPDATED CORNER ANCHOR SPACING.	LMH	09.20.19
B	7TH EDITION (2020) FBC	LMH	11.30.20
C	ADDED SETTING BLOCK TO GLAZING DETAIL I.	LMH	01.09.23
D	UPDATE SHEET 2, NPD# 18-005.01	LMH	03.08.23

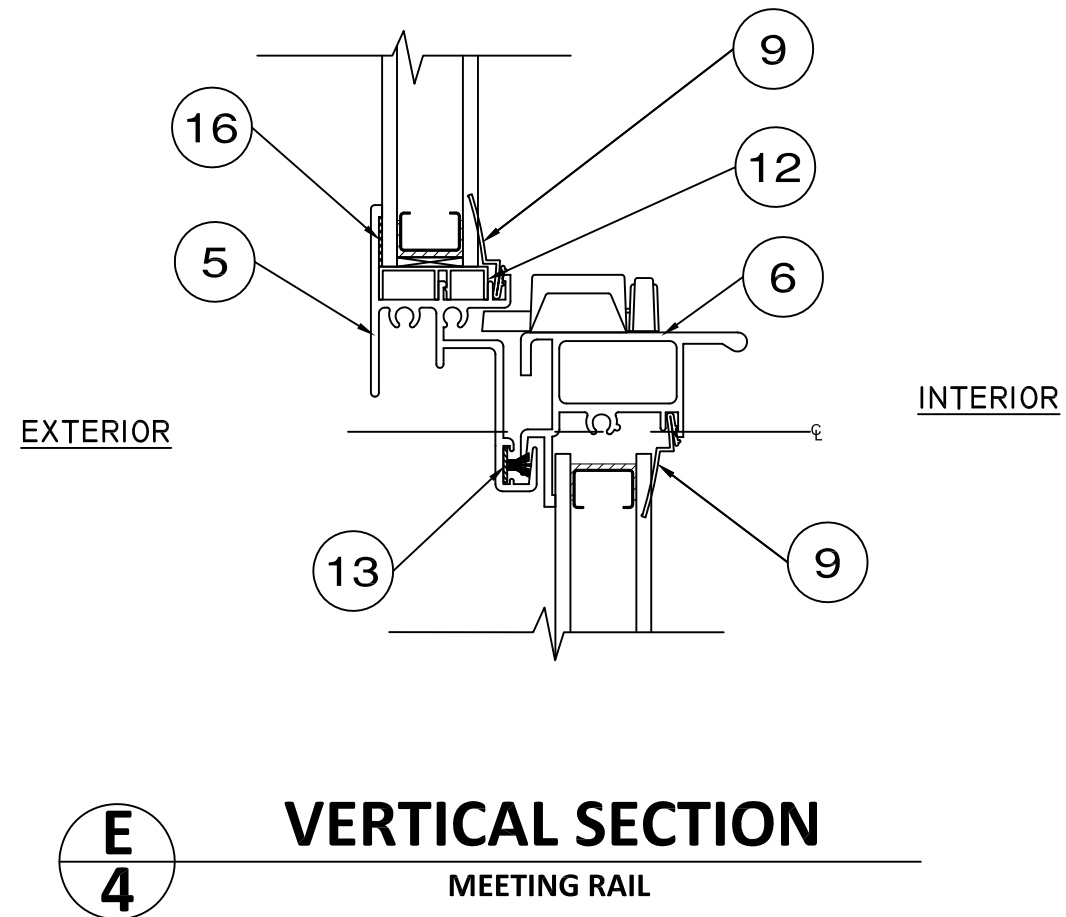


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(COA # 29779)
2428 OLD NACHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

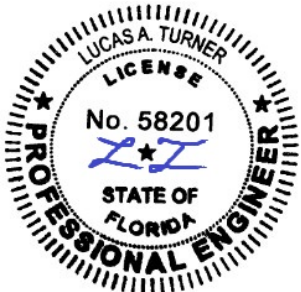
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DWG #: **PGW312**
SHEET: **3 OF 5**



GLAZING DETAIL 1



DATE: 12.10.18		TITLE: SERIES 4712FL SINGLE HUNG HVHZ NON-IMPACT GLAZING DETAIL & MEETING RAIL VERTICAL SECTION			
DWN BY: LMH		NO.	REVISION DESCRIPTION	BY	DATE
CHK BY:		A	UPDATED CORNER ANCHOR SPACING.	LMH	09.20.19
		B	7TH EDITION (2020) FBC	LMH	11.30.20
SCALE:		C	ADDED SETTING BLOCK TO GLAZING DETAIL I.	LMH	01.09.23
NTS		D	UPDATE SHEET 2. NPD# 18-005.01	LMH	03.08.23



03/08/2023
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TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

FL#: 15329

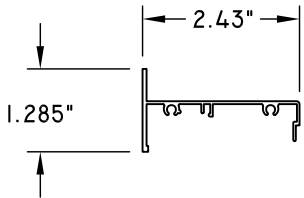
DWG #: PGW312

SHEET: 4 OF 5

BILL OF MATERIALS		
ITEM #	DESCRIPTION	SUPPLIER
1	11068 ALUMINUM FRAME, HEAD, FLANGE	ALENCO
2	11929 ALUMINUM FRAME, SILL, FLANGE	ALENCO
3	11070 ALUMINUM FRAME, JAMB, FLANGE	ALENCO
4	13035 ALUMINUM JAMB ANCHOR, 2 1/2" EACH	ALENCO
5	11623 ALUMINUM MEETING RAIL	ALENCO
6	11622 ALUMINUM SASH HEAD	ALENCO
7	11926 ALUMINUM SASH SILL	ALENCO
8	10377 ALUMINUM SASH JAMB	ALENCO
9	V-490 VINYL GLAZING BEAD FOR 3/4" IG	PEPCO
10	V-7140 VINYL SCREEN RETAINER	PEPCO
11	V-7145 VINYL GLAZING SHIM, JAMB, 2" EACH x 4	PEPCO
12	V-7139 VINYL GLAZING SHIM, SASH, 2" EACH x 8	PEPCO
13	MEETING RAIL & SASH JAMB FINSEAL, .200" X .270"	AMESBURY
14	SILL FINSEAL, .300" X .187"	AMESBURY
15	SASH JAMB FINSEAL, .280" X .270", 1 1/2" long	AMESBURY
16	NOVA FLEX M150 SILICONE	NOVAGARD

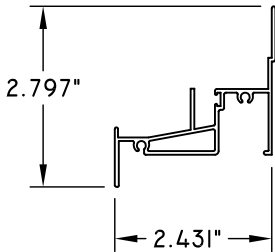
1

4712FL FRAME - HEAD
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .062"



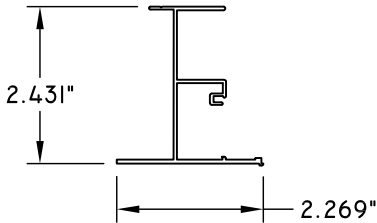
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4712FL FRAME - SILL
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .062"



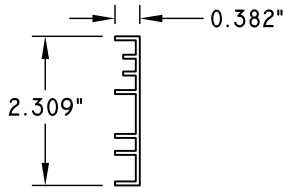
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4712FL FRAME - JAMB
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .062"



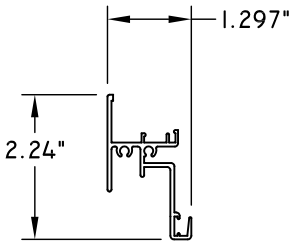
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4712FL - JAMB CLIP
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .062"



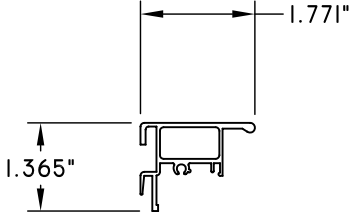
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MEETING RAIL
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .062"



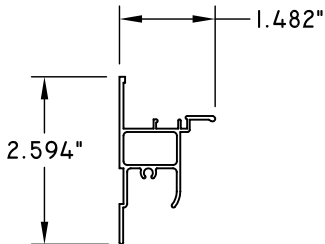
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SASH - HEAD
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .062"



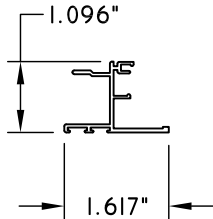
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SASH - SILL
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .053"



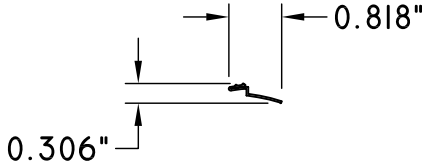
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SASH - JAMB
ALUMINUM 6063-T5
TYPICAL WALL THICKNESS: .056"



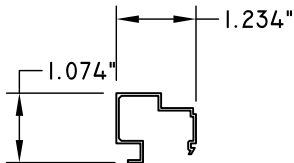
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GLAZING BEAD
VINYL
TYPICAL WALL THICKNESS: .028"



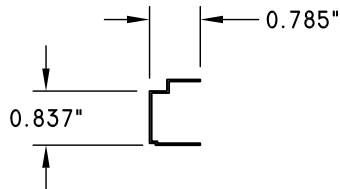
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SCREEN RETAINER
VINYL
TYPICAL WALL THICKNESS: .040"



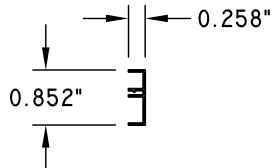
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GLAZING SHIM - JAMB
VINYL (4 PER TOP LITE)
TYPICAL WALL THICKNESS: .030"



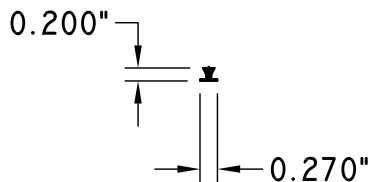
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GLAZING SHIM - SASH
VINYL (2 PER TOP LITE, 6 PER BOTTOM LITE)
TYPICAL WALL THICKNESS: .030"



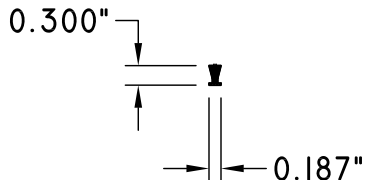
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FINSEAL-MTG RAIL & SASH JAMB
.200" X .270"



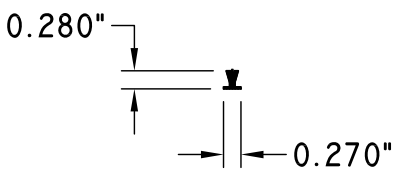
14

FINSEAL - SILL
.300" X .187"



15

FINSEAL - SASH JAMB
.280" X .270"





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PO BOX 559,

ROCKY MOUNT, VA 24151

PH: 540-484-6348

FX: 540-484-6683

TITLE: SERIES 4712FL SINGLE HUNG HVHZ NON-IMPACT BILL OF MATERIALS		DATE	BY	NO.	REVISION DESCRIPTION	DATE	BY	NO.
		12.10.18	LMH	A	UPDATED CORNER ANCHOR SPACING.	09.20.19	LMH	
				B	7TH EDITION (2020) FBC	11.30.20	LMH	
				C	ADDED SETTING BLOCK TO GLAZING DETAIL I.	01.09.23	LMH	
				D	UPDATE SHEET 2, NPD# 18-005.01	03.08.23	LMH	



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DWG #: PGW312

SHEET: 5 OF 5