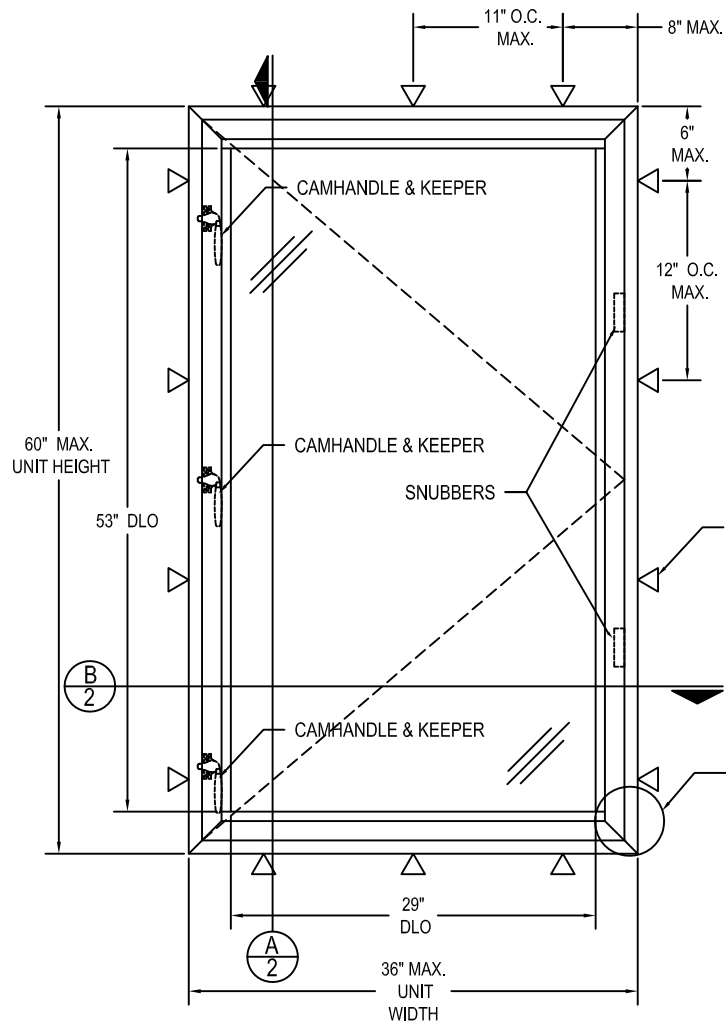


NX3100 - OUTSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)



A EXTERIOR ELEVATION
SCALE 3/4"=0" = 1'-0"

DESIGN PRESSURE WITH
TRIM & CLIP = +/-100 PSF

HARDWARE LOCATION

CAMHANDLE & KEEPER, (2) @ 8" FROM EACH END AND (1) @ MID-SPAN
METAL SNUBBER @ 15" FROM EACH END

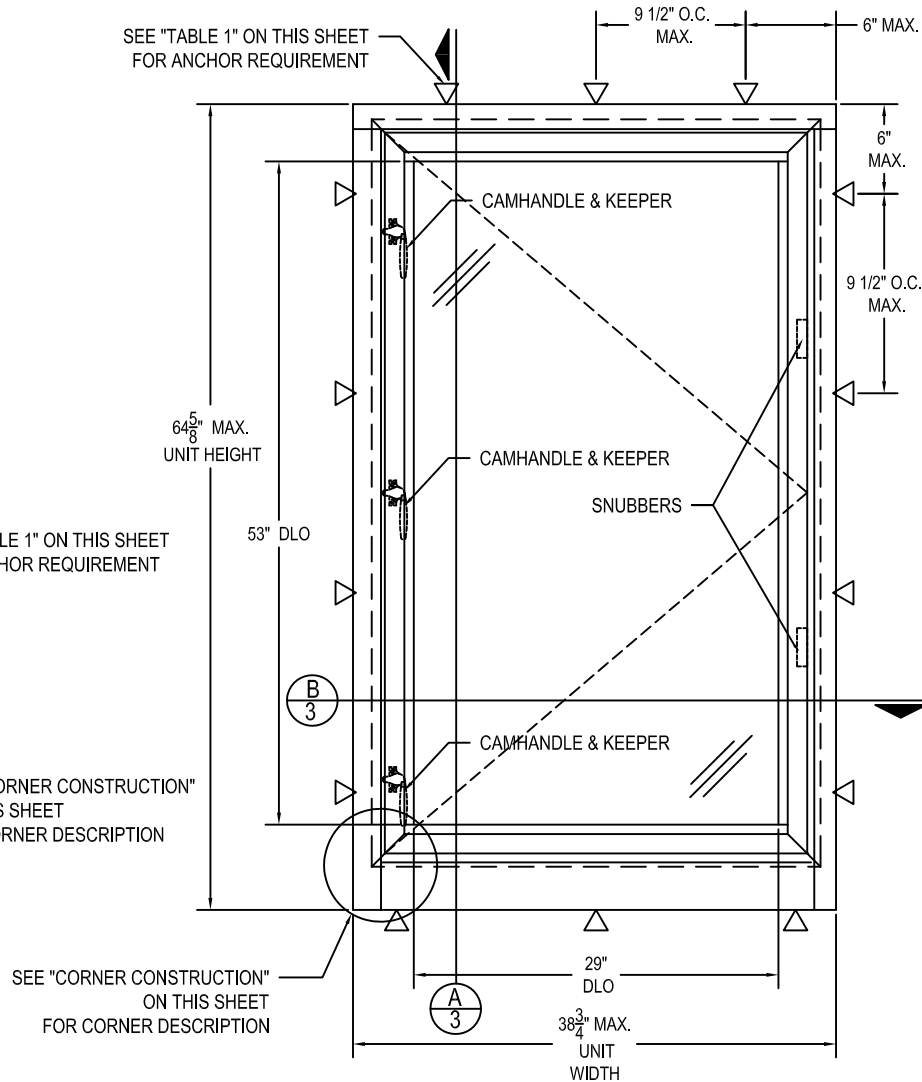
CORNER CONSTRUCTION:

FRAME: VERTICAL AND HORIZONTAL MEMBERS ARE MITERED AND JOINED TOGETHER WITH CORNER KEYS, CRIMPED AND SEALED WITH SEALANT.

VENT: VERTICAL AND HORIZONTAL MEMBERS ARE MITERED AND JOINED TOGETHER WITH CORNER KEYS, CRIMPED AND SEALED WITH SEALANT.

RECEPTOR: RECEPTOR HEAD RUNS THROUGH. VERTICAL JAMB RECEPTORS ARE SQUARED CUT AND BUTTED TO HEAD RECEPTOR. JOINTS ARE SEALED WITH SEALANT.

RECEPTOR TO SUB-SILL: VERTICAL JAMB RECEPTORS RUN THROUGH. HORIZONTAL SUB-SILL IS SQUARED CUT AND BUTTED TO JAMB RECEPTORS. JOINTS ARE SEALED WITH SEALANT.



B EXTERIOR ELEVATION W/ RECEPTOR & SUB-SILL
SCALE 3/4"=0" = 1'-0"

DESIGN PRESSURE WITH
RECEPTOR & SUB-SILL = +/-95 PSF

GENERAL NOTES

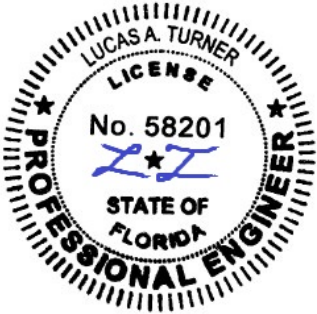
1. THIS PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440 AND TAS 201/202/203-94, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (IN HVHZ MAY ONLY BE INSTALLED UP TO 30 FT ABOVE GRADE).
2. THIS PRODUCT, FABRICATED, GLAZED, AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF SHUTTERS.
3. ALLOWABLE CONFIGURATION: X (SINGLE OUTSWING VENT)
4. THE DESIGN PRESSURE RATINGS INDICATED IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, AND TESTED PRESSURES.
5. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING BUT NOT LIMITED TO PRESSURE TREATED WOOD BUCKS, SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS.
6. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE SHALL BE THE RESPONSIBILITY OF OTHERS.
7. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF WOOD SUBSTRATE.
8. STRUCTURAL INTEGRITY OF SUBSTRATE MATERIALS TO RECEIVE THE LOADS FROM THIS PRODUCT, AND INSTALLATION OF WOOD BUCKS TO THE SUBSTRATE, TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
9. THIS PRODUCT SHALL BE INSTALLED USING ONE OF THE APPROVED FASTENERS IN TABLE 1 APPROPRIATE FOR THE SUBSTRATE TYPE, AT THE MINIMUM SPACING SHOWN IN THE ELEVATION VIEW ON THIS PAGE.
10. MINIMUM ANCHOR EMBEDMENT LISTED IN TABLE 1 SHALL BE BEYOND WALL DRESSING OR STUCCO AND FULLY INTO SUBSTRATE.
11. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1. CONCRETE OR MASONRY SUBSTRATES SHALL NOT BE CRACKED. FOR INSTALLATION TO METAL SUBSTRATES, ANCHORS SHALL BE LONG ENOUGH TO BE FULLY THREADED THROUGH THE METAL THICKNESS WITH AN ADDITIONAL 3 THREADS BEYOND.
12. SHIMS SHALL BE STRUCTURAL (PLASTIC OR METAL) AND CAPABLE OF TRANSFERRING LOADS FROM PRODUCT TO SUBSTRATE.

TABLE 1: INSTALLATION ANCHOR REQUIREMENTS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DIST.
A	CONCRETE (2.0 KSI MIN)	1/4" ITW TAPCON	1"	1 1/2"
B	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	1/4" ITW TAPCON	1"	2"
C	CONCRETE (3.05 KSI MIN.)	1/4" DEWALT ULTRACON+	1 3/4"	2 1/2"
D	HOLLOW OR GROUT-FILLED CMU (ASTM C90)	1/4" DEWALT ULTRACON+	1-1/4"	2 1/2"
E	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	1/4" DEWALT ULTRACON+ OR 1/4" ITW TAPCON	1-3/8"	1"
F	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	#12 WOOD SCREW	1-3/8"	1"
G	16 GAUGE (0.060") MIN. STEEL STUD 33KSI YIELD MIN.	#12-24 ITW TEKS SELF-DRILLING SCREW	SEE NOTE 11	1/2"
H	1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 36 KSI MIN.	#12 GRADE 5 SELF-TAPPING/ DRILLING SCREW	SEE NOTE 11	1/2"

INSTALL ONE ANCHOR PER LOCATION INDICATED IN ELEVATION VIEW

REV.	DATE	DESCRIPTION	BY
E.C. NO.	xxxx-xx	XX/XX/XX	



8/17/2023

LUCAS A. TURNER, FL P.E. #58201
TURNER ENGINEERING & CONSULTING, INC.
2428 OLD NATCHEZ TRACE TRAIL
CAMDEN, TN 38320
PH. 941-380-1574

Lucas Turner
2023.08.17
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-05'00'

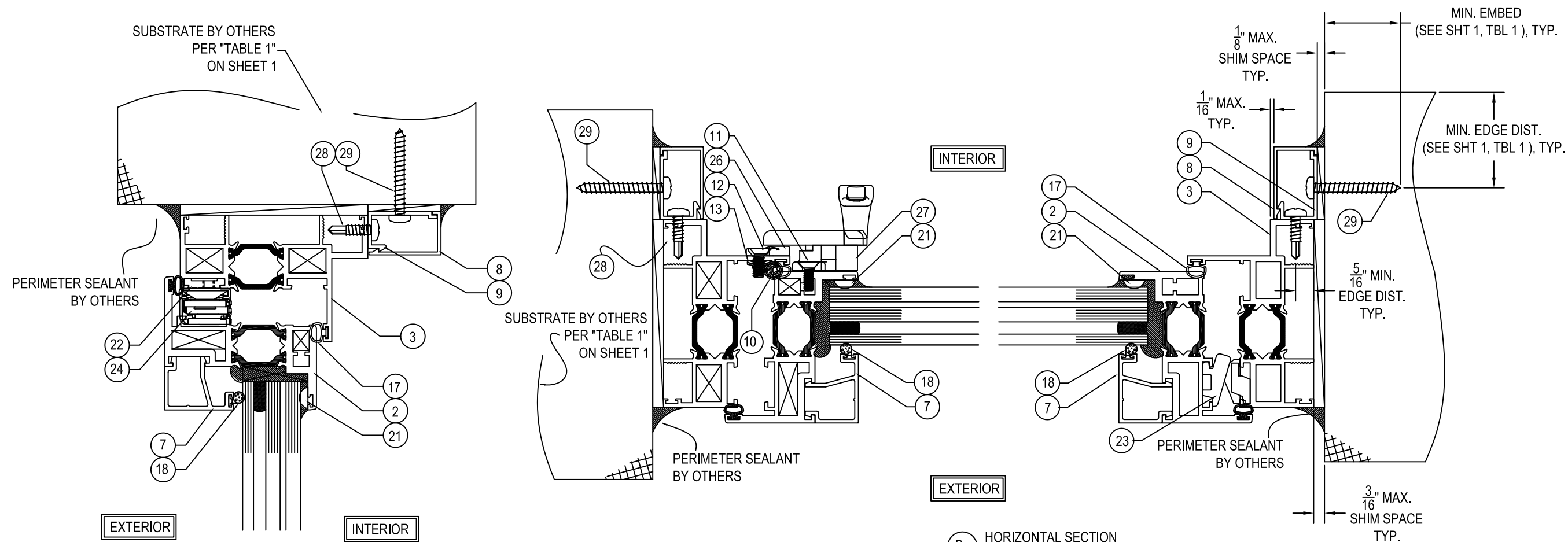


71 PROGRESS AVENUE
CRANBURY TOWNSHIP, PA 16066
PHONE (724) 776-7000
FAX (724) 776-7114

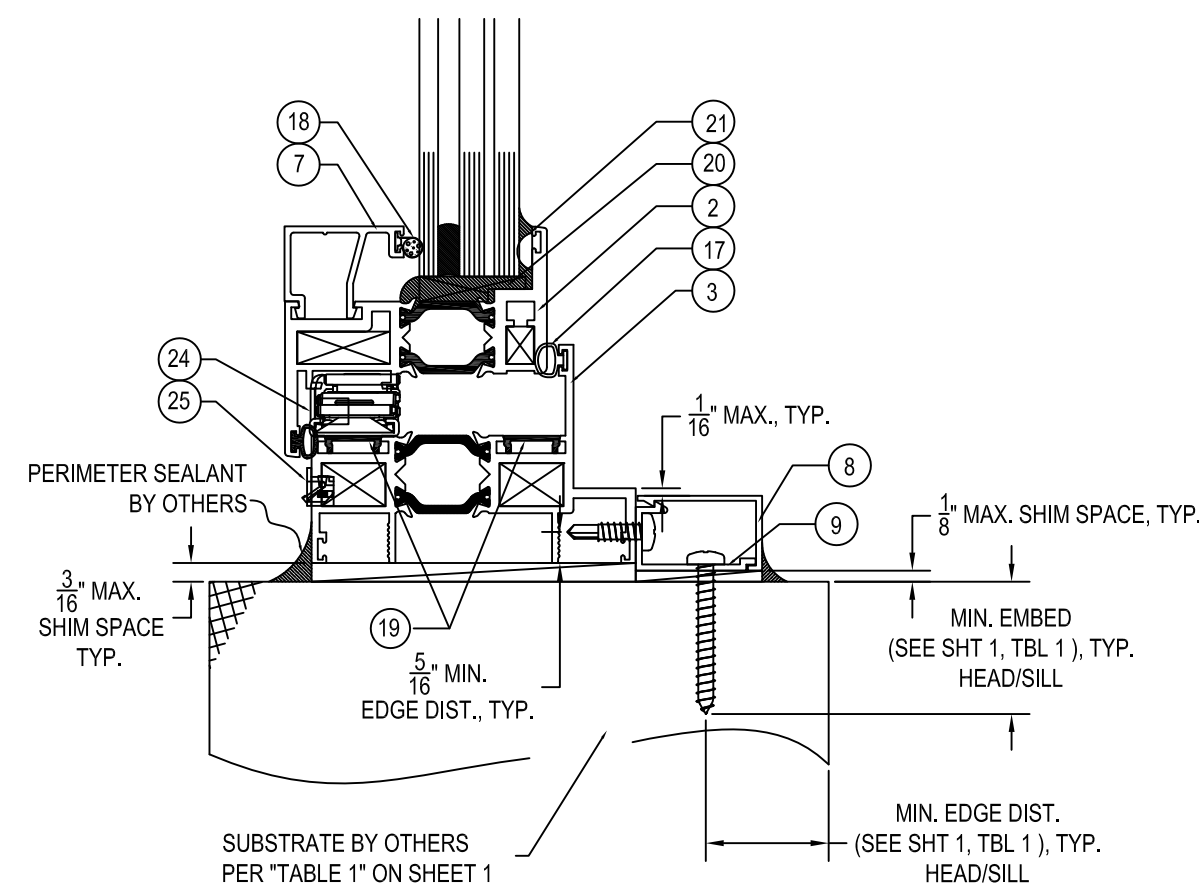
NX-3100 - OUTSWING CASEMENT WINDOW
LARGE MISSILE IMPACT

SCALE: NONE

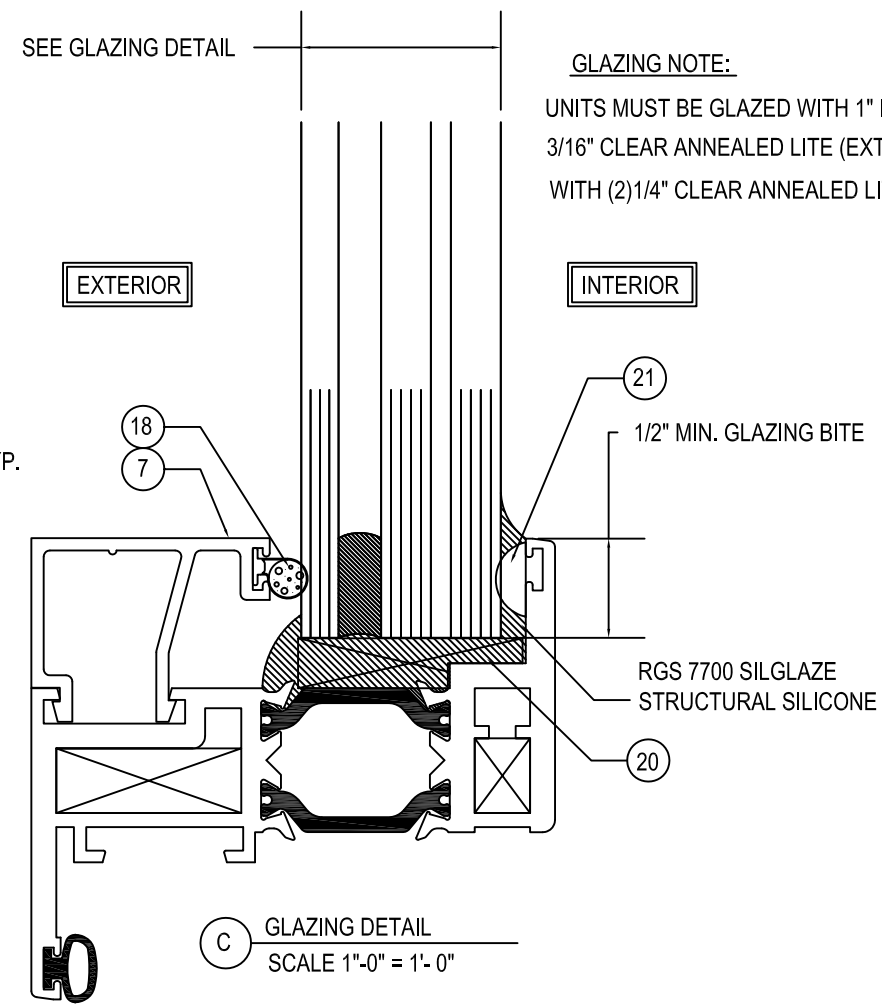
DRAWN BY	YSE	DATE	06/01/12
DRWG. NO.	I-LMNx3100-001		
SHEET	1 OF 04		



B HORIZONTAL SECTION
SCALE 6"-0" = 1'-0"



A VERTICAL SECTION
SCALE 6"-0" = 1'-0"



C GLAZING DETAIL
SCALE 1"-0" = 1'-0"

REV.	DATE	DESCRIPTION	BY
E.C. NO.	XXXX-XX	XX/XX/XX	

LUCAS A. TURNER
LICENSE
No. 58201
STATE OF FLORIDA
PROFESSIONAL ENGINEER

8/17/2023

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TURNER ENGINEERING & CONSULTING, INC.
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TRACO
A DIVISION OF KAWNEER

71 PROGRESS AVENUE
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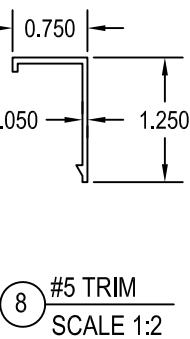
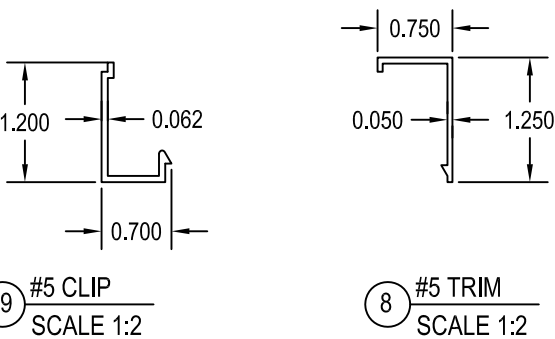
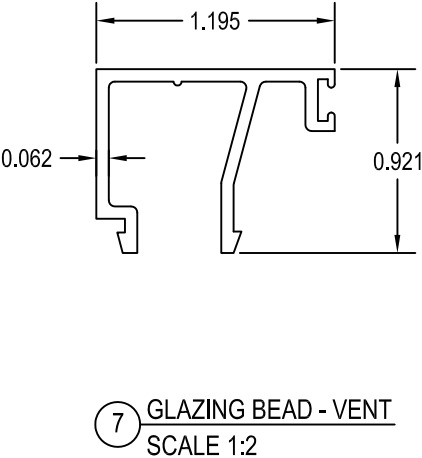
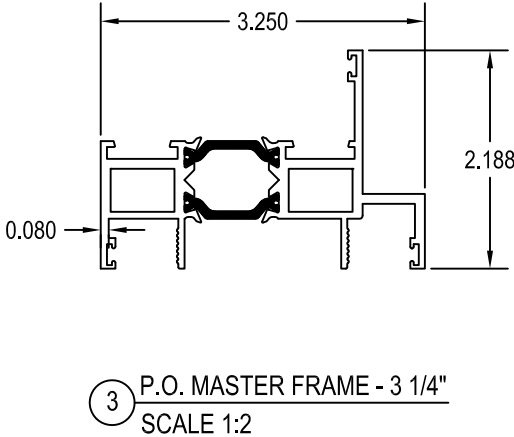
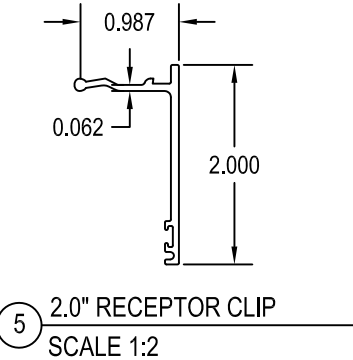
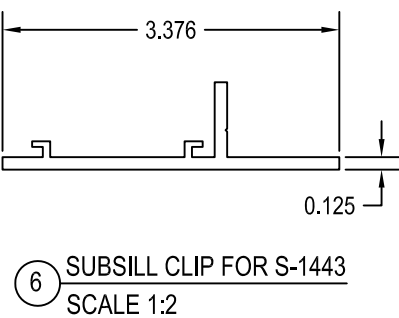
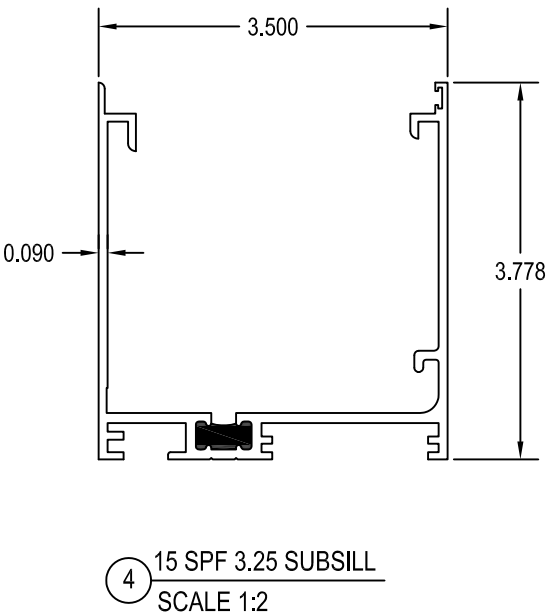
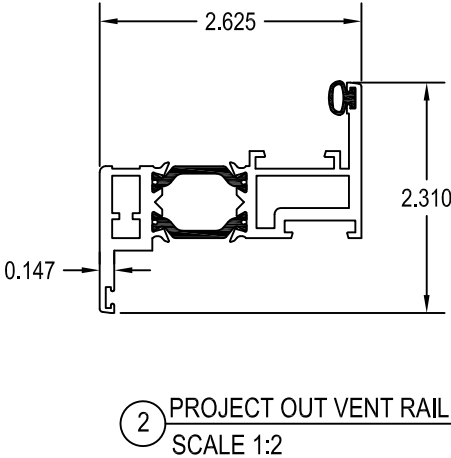
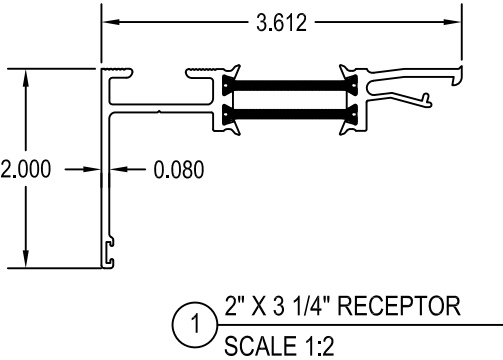
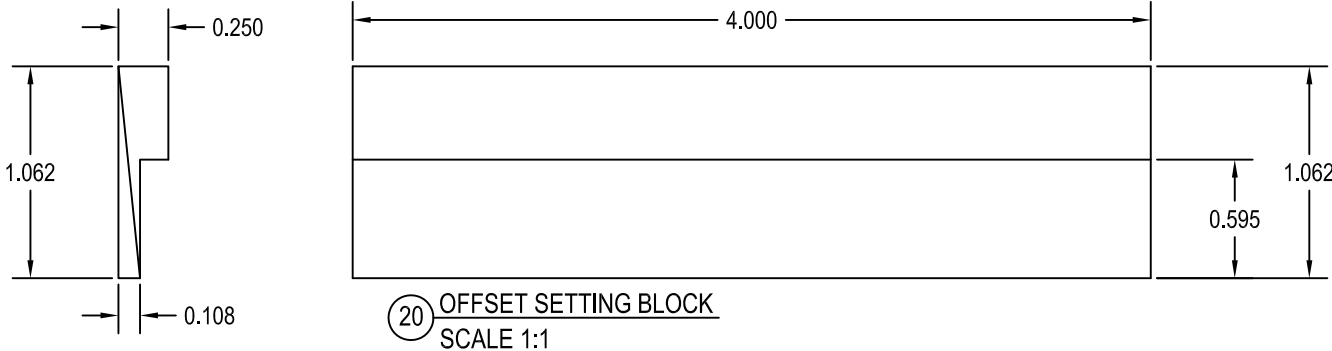
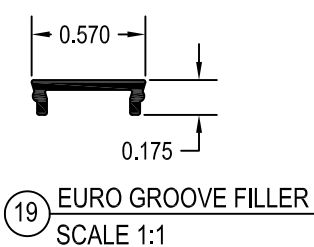
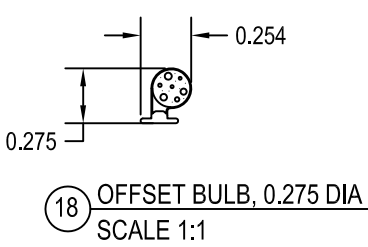
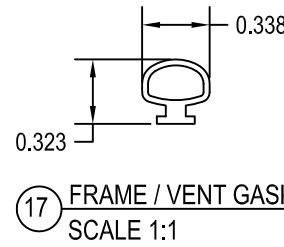
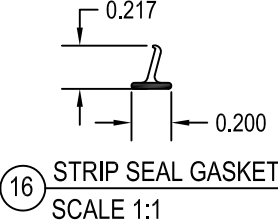
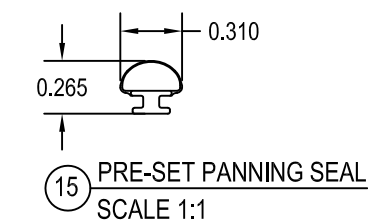
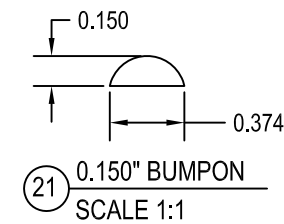
NX-3100 - OUTSWING CASEMENT WINDOW
LARGE MISSILE IMPACT

SCALE: NONE

DRAWN BY YSE	DATE 05/31/12
DRWG. NO. I-LMN3100-002	
SHEET 2 OF 04	

MATERIAL PARTS LIST

ITEM#	PART #	DESCRIPTION	MATERIAL
1	IF-1001	2" X 3 1/4" RECEPTOR	6063-T6 ALUMINUM
2	IF-1108	PROJECT OUT VENT RAIL	6063-T6 ALUMINUM
3	IF-1105	P.O. MASTER FRAME - 3 1/4"	6063-T6 ALUMINUM
4	S-279	15 SPF 3.25 SUBSILL	6063-T6 ALUMINUM
5	S-071	2.0" RECEPTOR CLIP	6063-T6 ALUMINUM
6	S-3607	SUBSILL CLIP FOR S-1443	6063-T6 ALUMINUM
7	S-4946	GLAZING BEAD - VENT	6063-T6 ALUMINUM
8	S-017	#5 TRIM	6063-T6 ALUMINUM
9	S-018	#5 CLIP	6063-T6 ALUMINUM
10	15-0501	#8-32 AK SERIES THREADED INSERT	410 STAINLESS STEEL
11	15-0555	#8-32 X 1/2" PFH "MS" 18-8 SS w/ #HEAD & LOCTITE	18-8 STAINLESS STEEL
12	15-0066	#10-24 X 1/2" PFH "MS" 18-8 SS	18-8 STAINLESS STEEL
13	15-0067	#10-24 P-M NUT	18-8 STAINLESS STEEL
14	15-0571	#10-16 X 1 3/4" PPH "AB" STL (ZP)	410 STAINLESS STEEL
15	20-4205	PRE-SET PANNING SEAL	FOAM FILLED BULB
16	20-4163	STRIP SEAL GASKET	BULB TO BE TPE BACKING TO BE RIGID POLYPROPYLENE
17	20-4258	FRAME / VENT GASKET	60 SHORE - D - PVC 60 DUROMETER BLACK ALCRYN
18	20-4069	OFFSET BULB, 0.275 DIA	FOAM-TITE BULB
19	20-0730-16	EURO GROOVE FILLER	PVC
20	20-6079	OFFSET SETTING BLOCK	RUBBER POLYMER
21	30-3086	0.150" BUMPON	POLYURETHANE
22	30-3689	SHIM FOR 11" 4-BAR HINGE	18-8 STAINLESS STEEL
23	30-3709	SNUBBER KIT	CAST ZINC
24	30-3640	11" 4-BAR HINGE PROJECTED	18-8 STAINLESS STEEL
25	30-3886	WEEP COVER	NYLON 69
26	30-4270	P.O. SWEEP LATCH KEEPER	WHITE BRONZE
27	30-4267	P.O. CAM LOCK, LH	WHITE BRONZE
28	15-0073	#10-16 X 3/4" PPH "TEK" SS	410 STAINLESS STEEL
29	-	ANCHOR (SEE TABLE 1 ON SHEET 1)	-



REV.

DATE

DESCRIPTION

BY

E.C. NO.	xxxxx-xx	XX/XX/XX	

LUCAS A. TURNER

LICENSE

No. 58201

PROFESSIONAL ENGINEER

STATE OF FLORIDA

8/17/2023

LUCAS A. TURNER, FL P.E. #58201
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NX-3100 - OUTSWING CASEMENT WINDOW
LARGE MISSILE IMPACT

SCALE: NONE

DRAWN BY
YSE

DATE
06/01/12

DRWG. NO.
I-LMNX3100-004

SHEET
4 OF 04