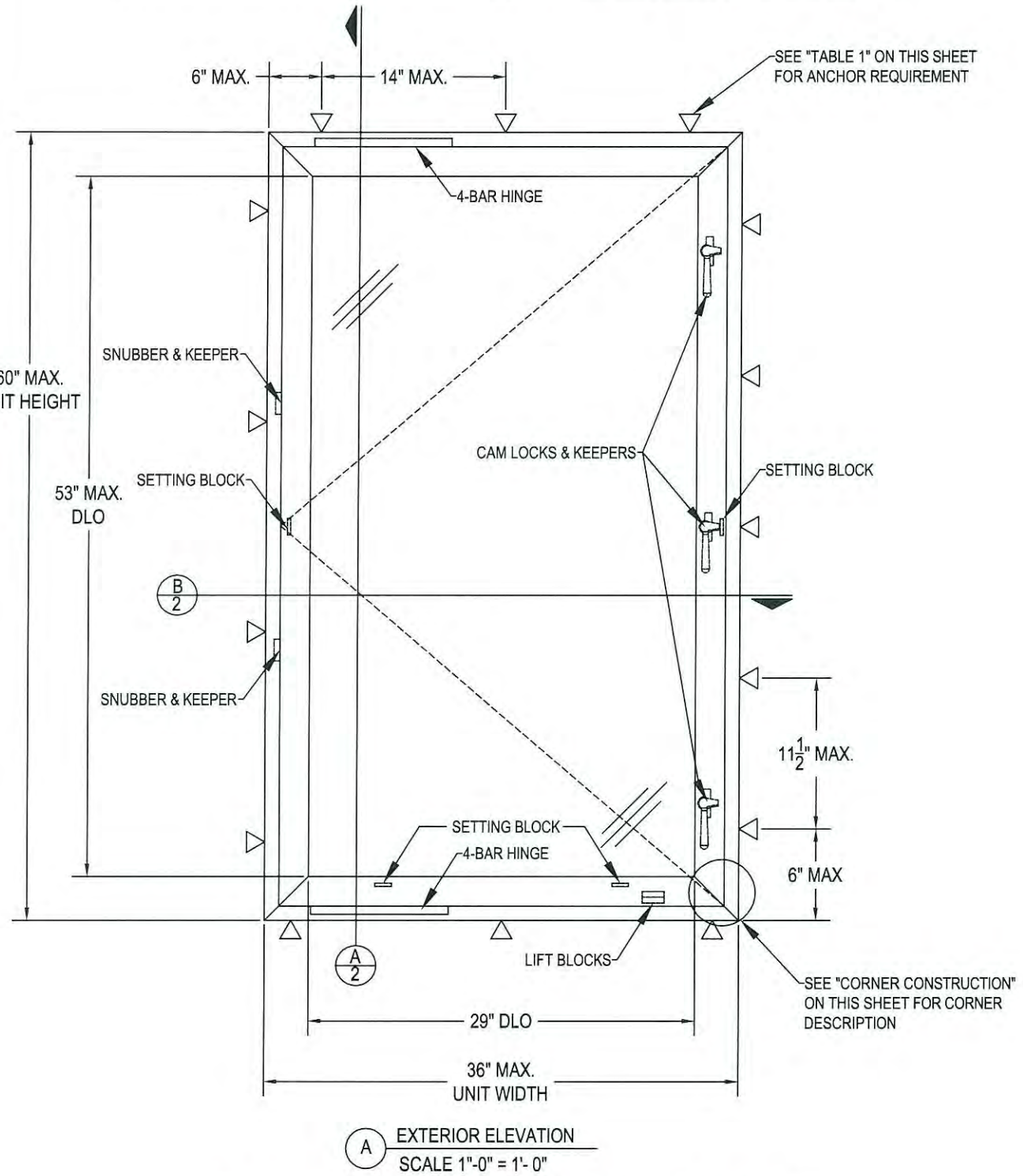
TR3100 - CASEMENT WINDOW (NON-IMPACT)



A EXTERIOR ELEVATION
SCALE 1"-0" = 1'- 0"

DESIGN PRESSURE = +80/- 80 PSF

HARDWARE TYPES AND LOCATIONS

CAMHANDLE & KEEPER (ITEM #16 & 17) , TWO @ 9" FROM EACH END AND ONE @ MID-SPAN

4-BAR HINGES (ITEM #18), ONE EACH @ HEAD AND SILL

SNUBBERS & KEEPERS (ITEM #19), TWO @ 19-1/2" FROM EACH END OF HINGE STILE

LIFT BLOCKS (ITEM #21), ONE @ 6" FROM END OF LOCK JAMB

SETTING BLOCKS (ITEM #11), TWO @ 1/4 POINT FROM EACH END FOR SILL AND ONE @ MID-SPAN FOR EACH JAMB

GENERAL NOTES

1. THIS PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440-05, AND MEETS THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND INTERNATIONAL RESIDENTIAL CODE, WITH 2006 TEXAS REVISIONS EFFECTIVE JANUARY 1, 2008.
2. THIS PRODUCT, FABRICATED, GLAZED, AND ANCHORED AS DETAILED IN THIS DRAWING, IS NON-IMPACT AND REQUIRES THE USE OF SHUTTERS IN WINDBORNE DEBRIS REGIONS.
3. ALLOWABLE CONFIGURATION: X (SINGLE OPERABLE SASH)
4. THE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300-04 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 PER IBC/IRC REQUIREMENTS 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 EMBEDMENTS LISTED IN TABLE 1 SHALL BE BEYOND WALL DRESSING OR STUCCO AND FULLY INTO SUBSTRATE.
11. SUBTRATES 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 3/16" MIN. OF THREADS BEYOND.

TABLE 1: INSTALLATION ANCHOR REQUIREMENTS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DIST.
A	CONCRETE (2.0 KSI MIN)	3/16" ITW TAPCON	1"	1 1/8"
B	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
C	CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
D	HOLLOW OR GROUT-FILLED CMU (ASTM C90)	3/16" ELCO ULTRACON	1-1/4"	2 1/2"
E	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	3/16" ELCO ULTRACON	1-3/8"	1"
F	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	#10 WOOD SCREW	1-3/8"	1"
G	16 GAUGE (0.060") MIN. STEEL STUD 33KSI YIELD MIN.	#10-16 ITW TEKS SELF-DRILLING SCREW	SEE NOTE 11	1/2"
H	1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 36 KSI MIN.	#10 GRADE 5 SELF-TAPPING/ DRILLING SCREW	SEE NOTE 11	1/2"

INSTALL ONE ANCHOR PER LOCATION INDICATED IN ELEVATION VIEW

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 KEY, CRIMPED AND SEALED WITH SEALANT.

REV.	DATE	DESCRIPTION	BY

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

5/15/2013

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TR-3100 - CASEMENT WINDOW NON-IMPACT

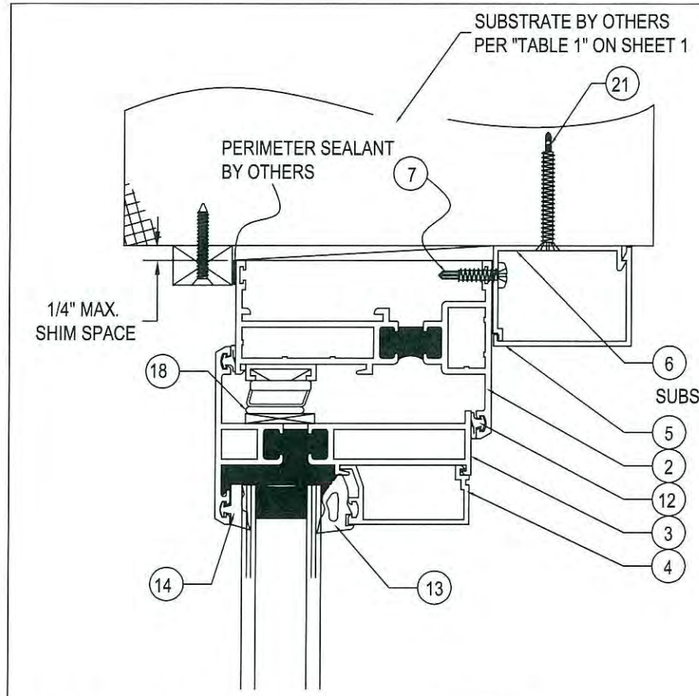
SCALE: NONE

DRAWN BY YSE

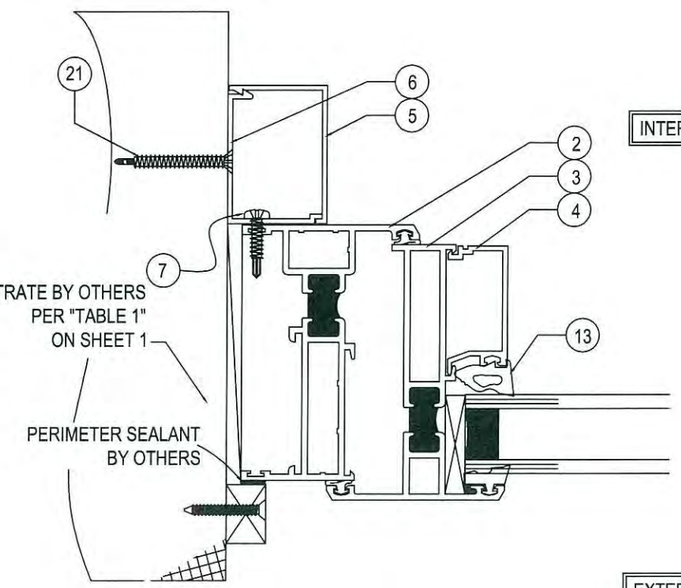
DATE 05/31/12

DRWG. NO. I-NI3100-001

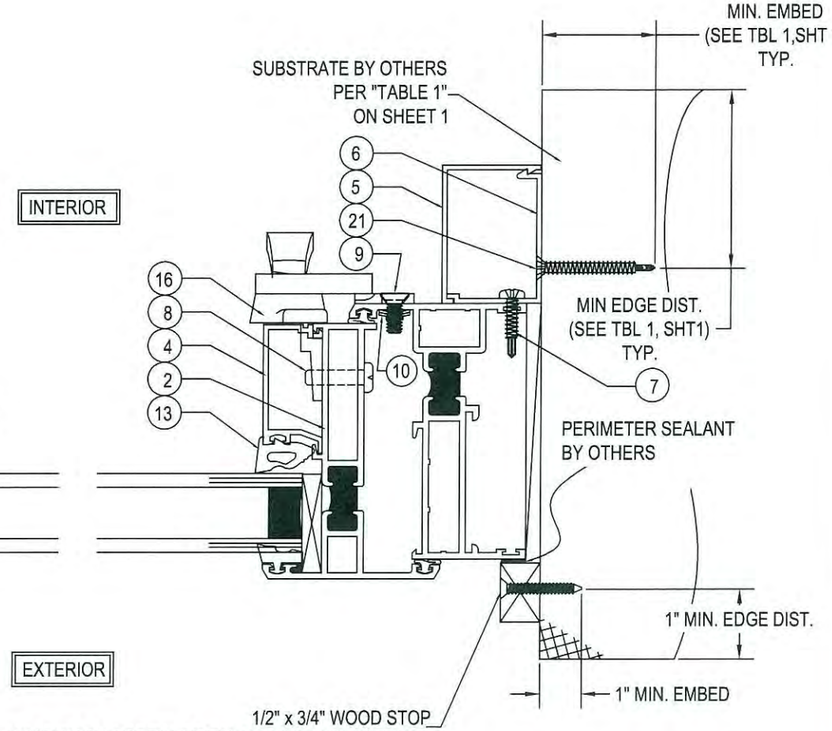
SHEET 1 OF 03

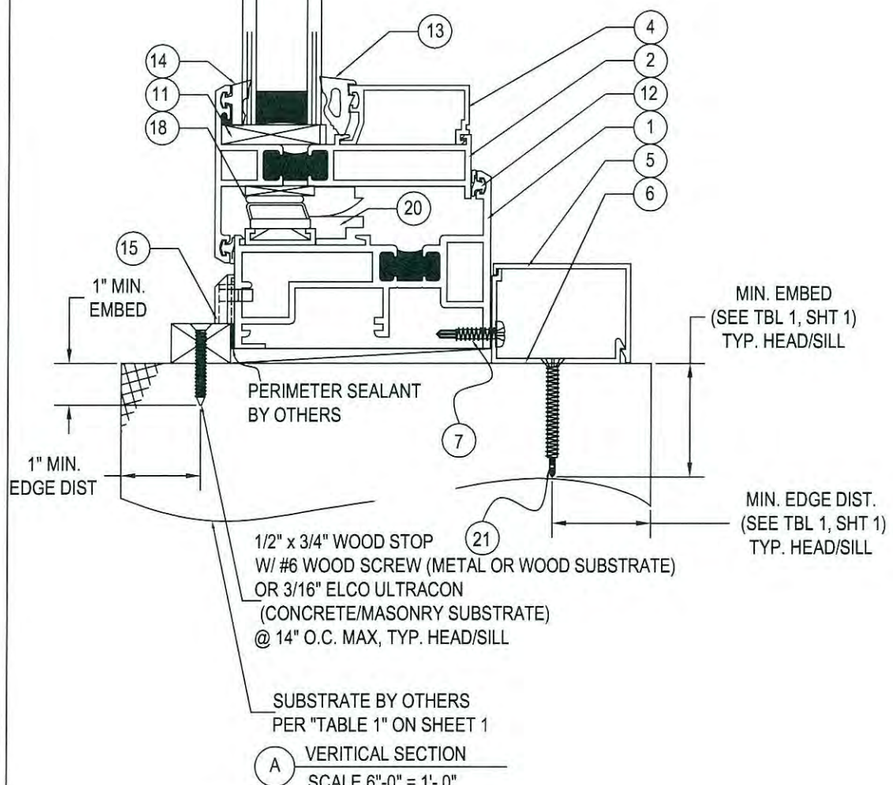


A VERITICAL SECTION
SCALE 6"-0" = 1'- 0"

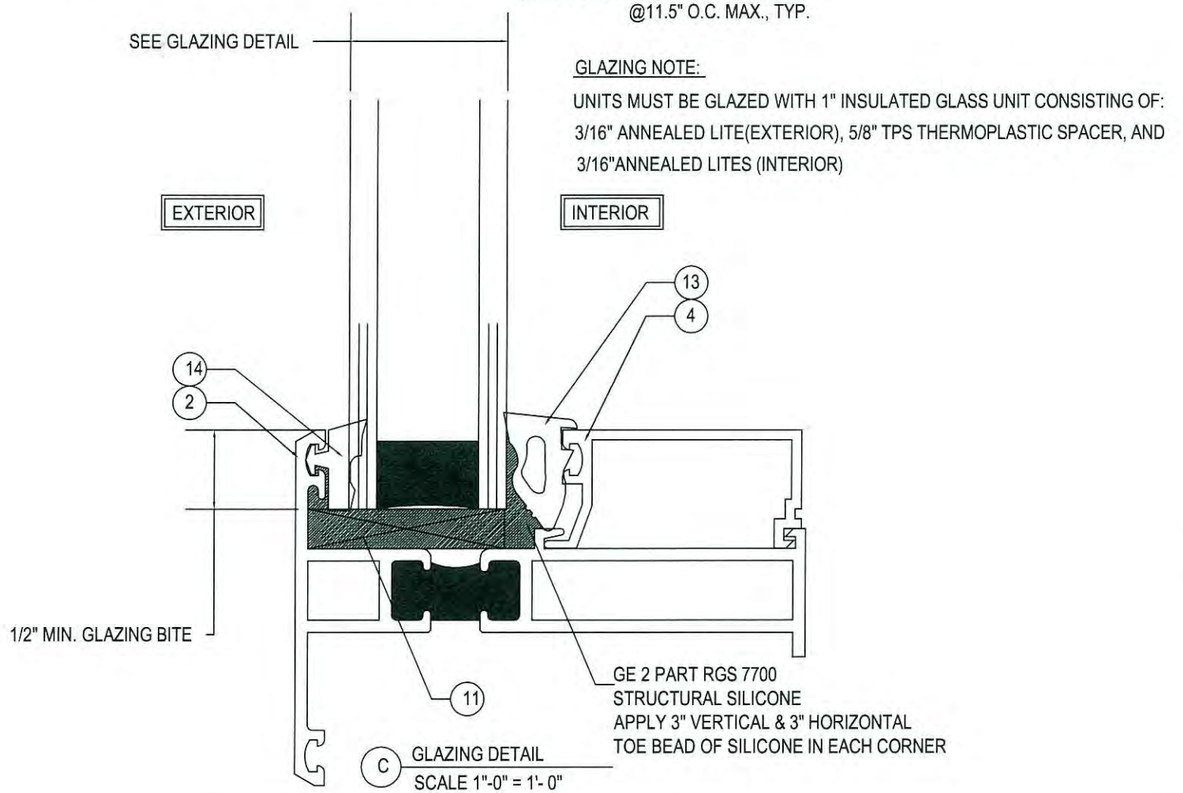


B HORIZONTAL SECTION
SCALE 6"-0" = 1'- 0"





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



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

GLAZING NOTE:

UNITS MUST BE GLAZED WITH 1" INSULATED GLASS UNIT CONSISTING OF:
3/16" ANNEALED LITE(EXTERIOR), 5/8" TPS THERMOPLASTIC SPACER, AND
3/16"ANNEALED LITES (INTERIOR)

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

5/15/2013

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TR-3100 - CASEMENT WINDOW
NON - IMPACT

SCALE: NONE

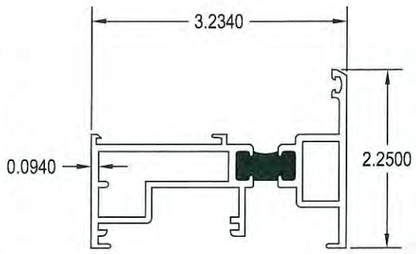
DRAWN BY	DATE
YSE	05/31/12

DRWG. NO.
I-NI3100-002

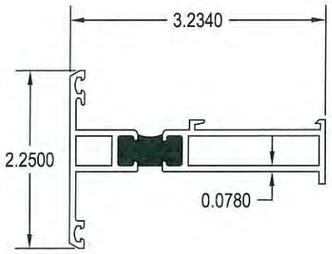
SHEET
2 OF 03

MATERIAL PARTS LIST

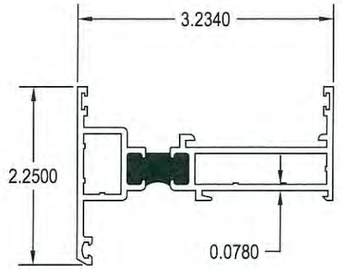
ITEM#	PART #	DESCRIPTION	MATERIAL
		EXTRUSIONS	
1	H-391	PROJECT OUT SILL W/O LEG	6063-T6 ALUMINUM
2	H-377	HEAD - JAMB FRAME	6063-T6 ALUMINUM
3	H-380	PROJECT-OUT VENT	6063-T6 ALUMINUM
4	S-125	1" BEAD	6063-T6 ALUMINUM
5	S-019	#36 TRIM	6063-T6 ALUMINUM
6	S-020	#36 CLIP	6063-T6 ALUMINUM
		GASKETS, HARDWARES & MISC. PARTS	
7	15-0073	#10-16 X 3/4" PPH "TEK" 410 SS	410 STAINLESS STEEL
8	15-0065	#10- 24 X 3/4" PPH "MS" SS	18-8 STAINLESS STEEL
9	15-0066	#10- 24 X 1/2" PFH "MS" 18-8 SS	18-8 STAINLESS STEEL
10	15-0067	#10-24 P-M NUT	STAINLESS STEEL
11	20-6050	SHALLOW POCKET EDGE BLOCK	EPDM
12	20-4024	PUSH IN GASKET	EPDM
13	20-4005	WEDGE GASKET	EPDM
14	20-4006	EXTERIOR GLAZING	NEOPRENE
15	30-0907	WEEP HOLE COVER	MOULDED PLASTIC
16	30-0401	P.O. LOCK HANDLE RIGHT	WHITE BRONZE
17	30-0403	P.O. CAM HANDLE STRIKE	WHITE BRONZE
18	30-2674	12" MAGNUM CASEMENT HINGE	STAINLESS STEEL
19	30-1382	SNUBBER	NYLON 6/6
20	30-0418	GUIDE LIFT BLOCK	NYLON
21	-	ANCHOR (PER TABLE 1 ON SHEET 1)	PER TABLE 1



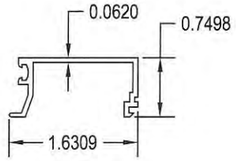
1 PROJECT OUT SILL W/O LEG
SCALE 1:2



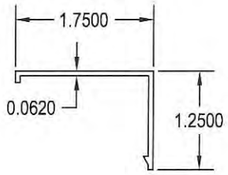
3 PROJECT-OUT VENT
SCALE 1:2



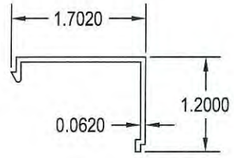
2 HEAD - JAMB FRAME
SCALE 1:2



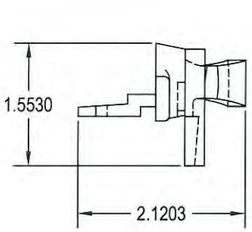
4 1" BEAD
SCALE 1:2

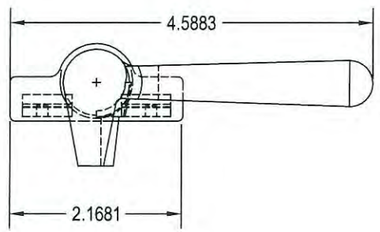


5 #36 TRIM
SCALE 1:2

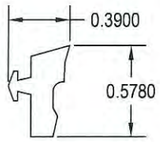


6 #36 CLIP
SCALE 1:2

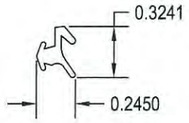




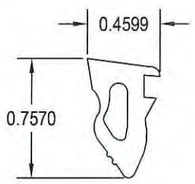
16 P.O. LOCK HANDLE RIGHT
SCALE 1:2



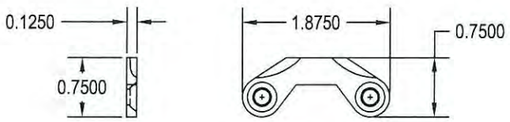
14 EXTERIOR GLAZING
SCALE 1:1



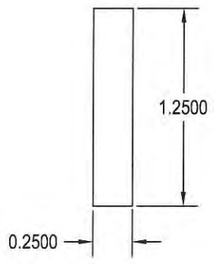
12 PUSH IN GASKET
SCALE 1:1

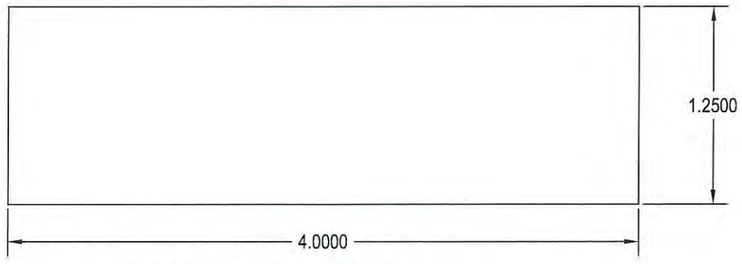


13 WEDGE GASKET
SCALE 1:1



17 P.O. CAM HANDLE STRIKE
SCALE 1:2





11 SHALLOW POCKET EDGE BLOCK
SCALE 1:1

REV.	DATE	DESCRIPTION	BY

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

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TR-3100 - CASEMENT WINDOW
NON-IMPACT

SCALE: NONE

DRAWN BY: YSE

DATE: 05/31/12

DRWG. NO.: I-NI3100-003

SHEET: 3 OF 03