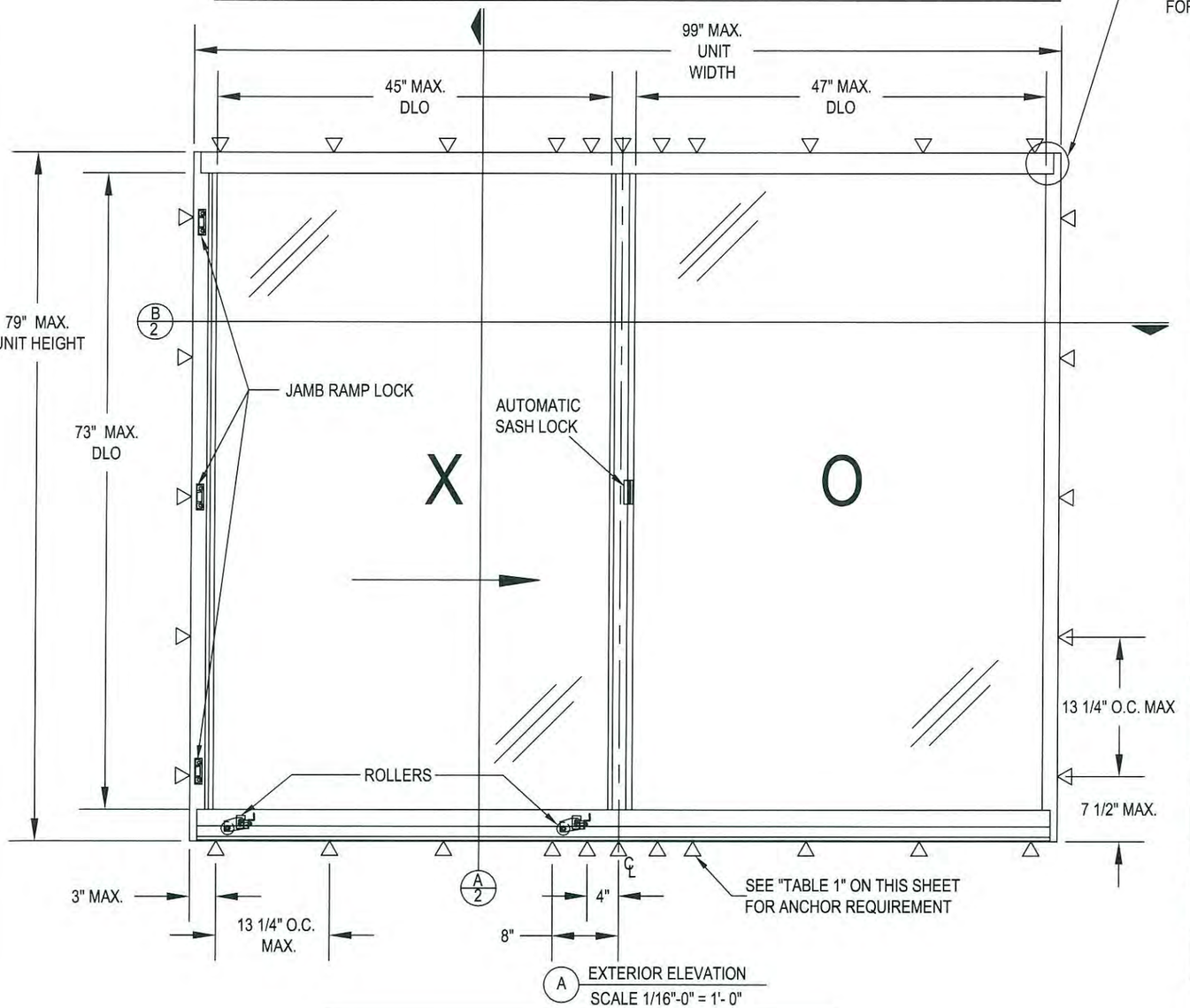
TR6800 - HORIZONTAL SLIDING WINDOW (NON-IMPACT)



SEE "CORNER CONSTRUCTION"
ON THIS SHEET
FOR CORNER DESCRIPTION

GENERAL NOTES

1. THIS PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440-08, 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: XO OR OX (ONE FIXED LITE, ONE 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.

DESIGN PRESSURE = +50/- 50 PSF

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 JAMB MEMBERS RUN THROUGH. HORIZONTAL MEMBERS ARE COPED AND FASTENED TO THE VERTICAL MEMBERS USING #8 -18 X 1" PPH STAINLESS STEEL FASTENERS. EACH SILL CORNER SECTION RECEIVING FOUR SCREW FASTENERS AND EACH HEAD CORNER RECEIVING TWO FASTENERS. JOINTS ARE SEALED WITH SEALANT.

SASH: VERTICAL STILES RUN THROUGH. HORIZONTAL RAILS ARE COPED AND FASTENERS TO THE VERTICAL STILES USING (2)#8 -18 X 1" PPH STAINLESS STEEL FASTENERS AT EACH JOINT. JOINTS ARE SEALED WITH SEALANT.

NOTE: THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
X = OPERABLE
O = FIX

HARDWARE TYPES & LOCATIONS

AUTOMATIC SASH LOCK & KEEPER (ITEM #25 & 29): ONE @ MID-SPAN ON THE INTERIOR LOCKING RAIL

JAMB RAMP(ITEM #30): TOTAL OF THREE, ONE @ 8" FROM EACH END OF OPERABLE SASH AND ONE @ MID-SPAN

ROLLERS(ITEM #26): ONE @ EACH END OF OPERABLE BOTTOM RAIL

REV.	DATE	DESCRIPTION	BY

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

5/15/2013

ROBERT L. CLARK, TX P.E. #74072
823 HARROWOOD CT
SARASOTA, FL PH. 941-504-0619

STATE OF TEXAS
ROBERT L. CLARK
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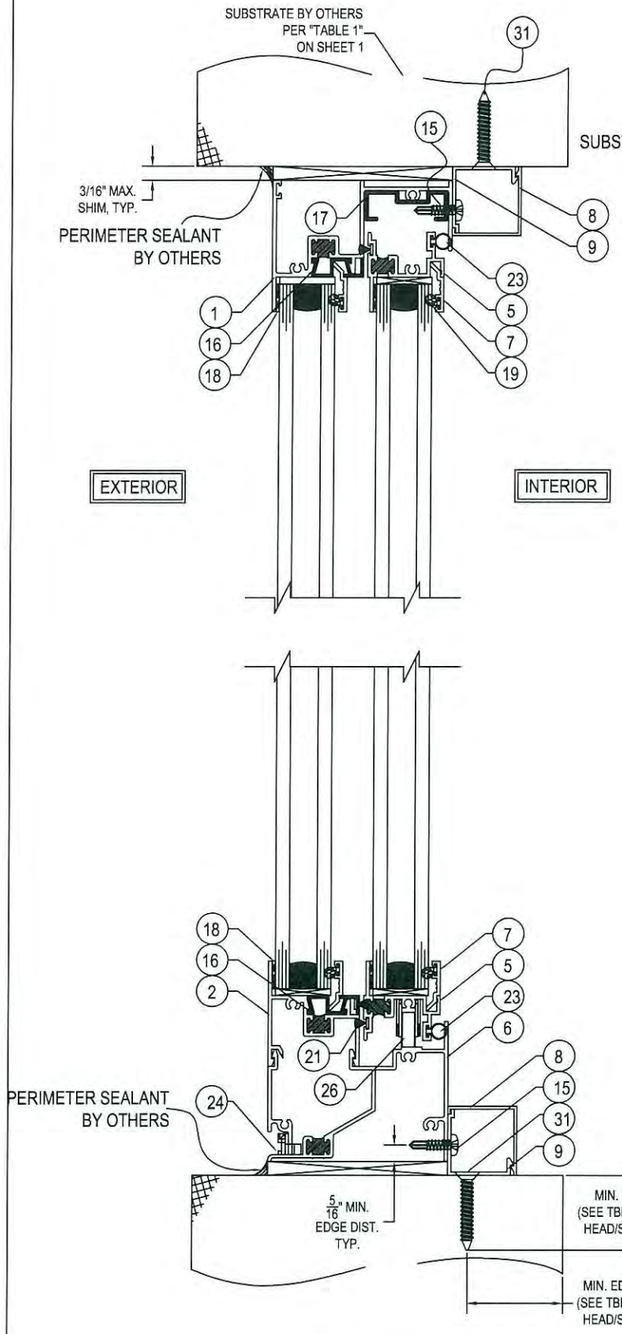
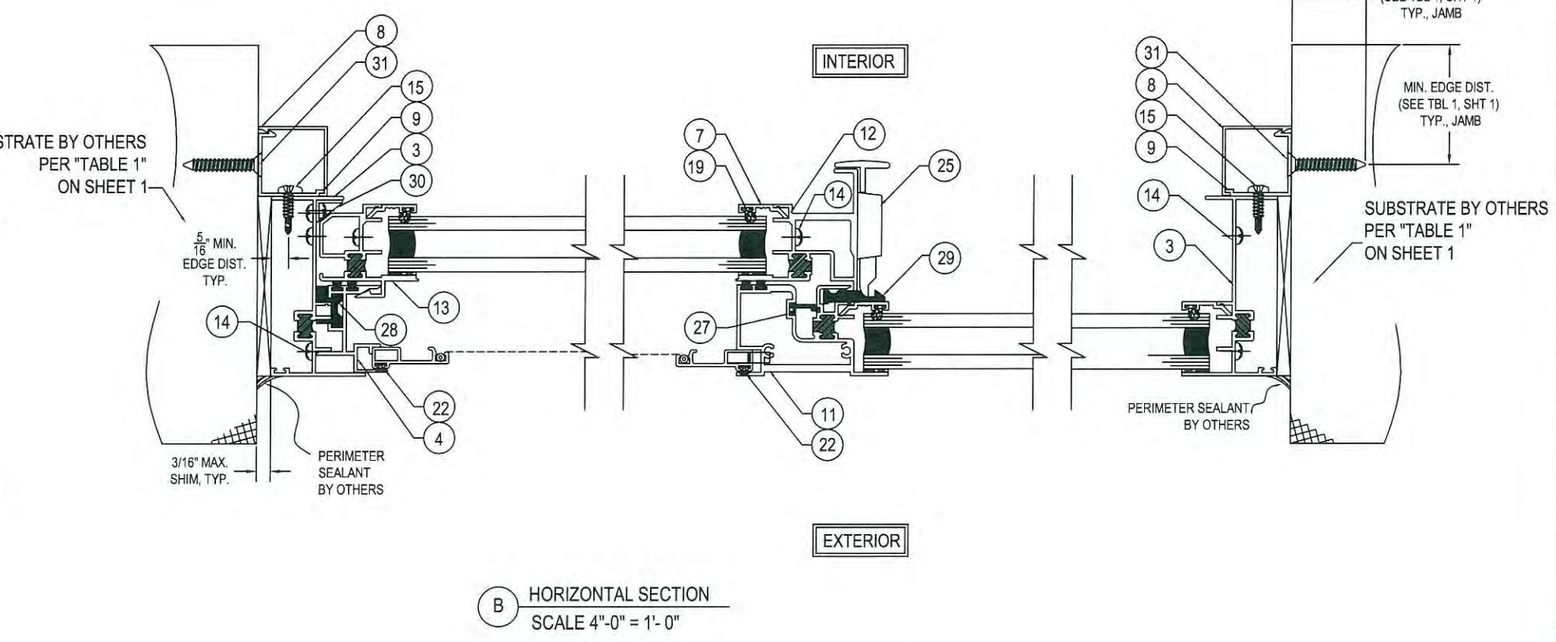
TR-6800 - HORIZONTAL SLIDING WINDOW
NON-IMPACT

SCALE: NONE

DRAWN BY: YSE
DATE: 07/17/12
DRWG. NO.: I-NI6800-001
SHEET: 1 OF 03



A VERITICAL SECTION
SCALE 4"-0" = 1'- 0"



B HORIZONTAL SECTION
SCALE 4"-0" = 1'- 0"

GLAZING NOTE:

UNITS MUST BE GLAZED WITH 1" INSULATED GLASS UNIT CONSISTING OF:
(2) 1/4" CLEAR ANNEALED LITES WITH 1/2" TPS THERMOPLASTIC SPACER.

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

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

5/15/2013

ROBERT L. CLARK, TX P.E. #74072
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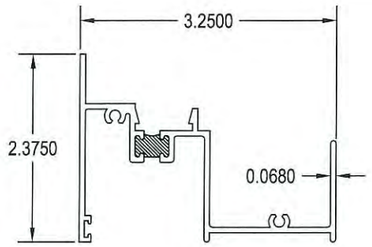
NI-6800- HORIZONTAL SLIDING WINDOW
NON-IMPACT

SCALE: NONE

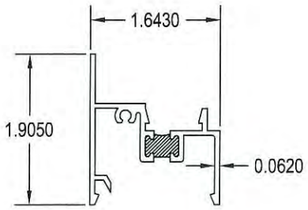
DRAWN BY: YSE
DATE: 07/17/12
DRWG. NO.: I-NI6800-002
SHEET: 2 OF 03

MATERIAL PARTS LIST

ITEM#	PART #	DESCRIPTION	MATERIAL
		EXTRUSIONS	
1	S-1325	HEAD	6063-T6 ALUMINUM
2	S-1327	SILL INSERT	6063-T6 ALUMINUM
3	S-1328	JAMB	6063-T6 ALUMINUM
4	S-1329	JAMB INSERT	6063-T6 ALUMINUM
5	S-1330	TOP & BOTTOM RAIL	6063-T6 ALUMINUM
6	S-2269	SILL	6063-T6 ALUMINUM
7	S-10160	GLAZING BEAD	6063-T6 ALUMINUM
8	S-015	#4 TRIM	6063-T6 ALUMINUM
9	S-016	# 4 CLIP	6063-T6 ALUMINUM
10	H-4216	SCREEN RAIL	6063-T6 ALUMINUM
11	H-2270	FIXED INTERLOCK	6063-T6 ALUMINUM
12	H-1332	LOCK STILE	6063-T6 ALUMINUM
13	H-1331	JAMB STILE	6063-T6 ALUMINUM
		HARDWARE, GASKET AND MISC. PARTS	
14	15-0006	#8-18 X 1" PPH 3/16" LP 410 SS	410 STAINLESS STEEL
15	15-0073	#10-16 X 3/4" PPH "TEK" 410 SS	410 STAINLESS STEEL
16	20-0051	PVC HEAD / SILL FXD INSERT	RIGID PVC
17	20-0052	TAKE-OUT STOP	RIGID PVC
18	20-0706	1/4" X 1/16" DOUBLE SIDED GLAZING TAPE	CLOSE CELL FOAM
19	20-4069	OFFSET BULB, 0.275 DIA	TPE SKIN & FOAM CORE
20	20-6031	1/8" X 1" X 2" SETTING BLOCK	EPDM
21	20-7006	0.25" X 0.187" FIN SEAL GRAY	FINSEAL WEATHERSTRIP
22	20-7050	0.130" X 0.187" WOOL PILE WEATHER STRIP	WOOLPILE
23	20-7051	0.187" X 0.375" FOAM FILLED BULB	TPE SKIN & FOAM CORE
24	30-1401	WEEP COVER	NYLON 69
25	30-2762	AUTOMATIC SASH LOCK	ZAMAC
26	30-2971	ALL SS ROLLER ASSEMBLY	STAINLESS STEEL
27	20-0015	MEETING RAIL VINYL	RIGID VINYL
28	20-0053	PVC JAMB SPACER INSERT	RIGID PVC
29	50-0113	KEEPER	6063-T6 ALUMINUM
30	30-1377	JAMP RAMP	NYLON
31	-	ANCHOR (PER TABLE 1 ON SHEET 1)	PER TABLE 1



1 HEAD
SCALE 1:2



2 SILL INSERT
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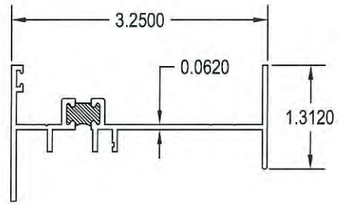
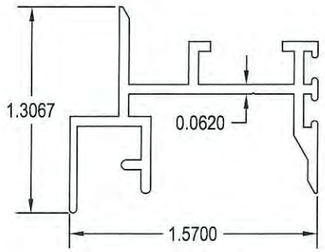
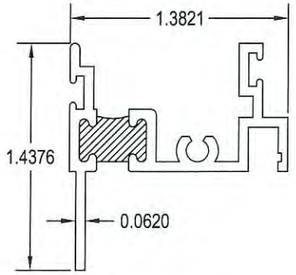


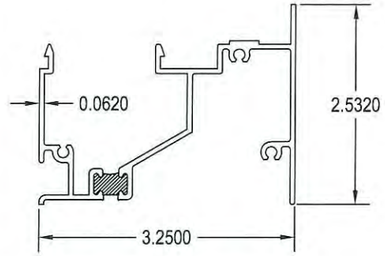
3 JAMB
SCALE 1:2



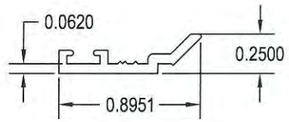
4 JAMB INSERT
SCALE 1:1



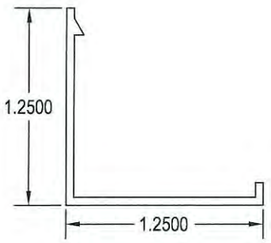
5 TOP & BOTTOM RAIL
SCALE 1:1



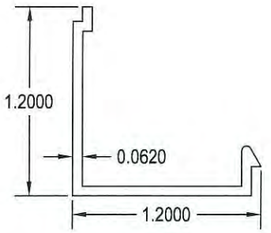
6 SILL
SCALE 1:2



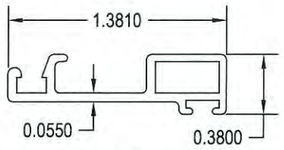
7 GLAZING BEAD
SCALE 1:1



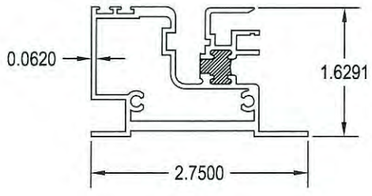
8 # 4 TRIM
SCALE 1:1



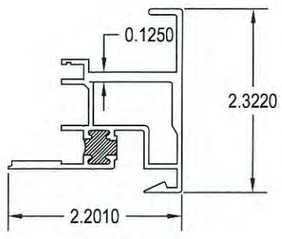
9 #4 CLIP
SCALE 1:1



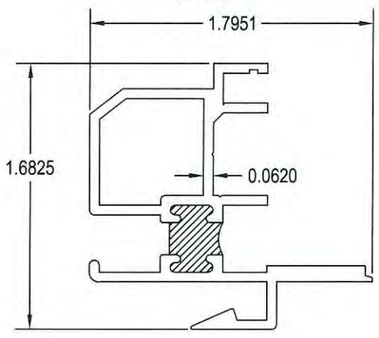
10 SCREEN RAIL
SCALE 1:1



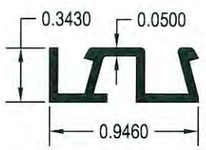
11 FIXED INTERLOCK
SCALE 1:2



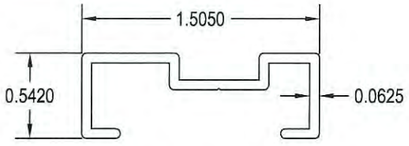
12 LOCK STILE
SCALE 1:2



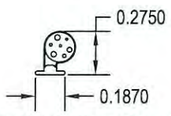
13 JAMB STILE
SCALE 1:1



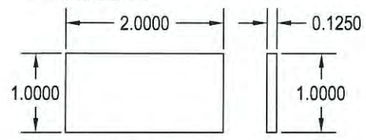
16 PVC HEAD / SILL FXD INSERT
SCALE 1:1



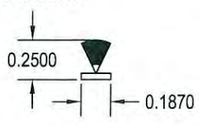
17 TAKE-OUT STOP
SCALE 1:1



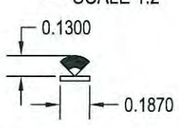
19 OFFSET BULB, 0.275 DIA
SCALE 1:1



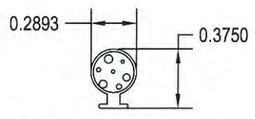
20 1/8" X 1" X 2" SETTING BLOCK
SCALE 1:2



21 0.25" X 0.187" FIN SEAL GRAY
SCALE 1:1



22 0.130" X 0.187" WOOL PILE WEATHER STRIP
SCALE 1:1



23 0.187" X 0.375" FOAM FILLED BULB
SCALE 1:1

REV.	DATE	DESCRIPTION	BY

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

5/15/2013

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TR-6800 - HORIZONTAL SLIDING WINDOW
NON-IMPACT

SCALE: NONE

DRAWN BY: YSE

DATE: 07/17/12

DRWG. NO.: I-NI6800-003

SHEET: 3 OF 03