



MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Master Security Doors Inc.,
2179 N. Powerline Road, Suite #2
Pompano Beach, FL 33069

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "EX3" Single Outswing Steel Door -L.M.I.

APPROVAL DOCUMENT: Drawing No. **12-060 (old # 11-037)**, titled "EX3 USA Outswing Door Large Missile Impact Resistant", sheets 1 through 11 of 11, dated 03/12/12, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. Refer to sheet 3 of the Dwgs for Design Pressure Vs anchor type and anchor spacing "S"
2. Min (5) retention clip per side jamb required (Max 28.74" OC), See detail X/11 in sheets 3 and 11.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **11-0420.01** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No 12-0320.21
Expiration Date: April 20, 2016
Approval Date: June 14, 2012
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (transferred from file # **11-0420.01**)
2. Drawing No. **12-060 (old # 11-037)**, titled "EX3 USA Outswing Door Large Missile Impact Resistant", sheets 1 through 11 of 11, dated 03/12/12, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

Note: This revision consists of FBC 2010 notes only.

B. TESTS (Submitted under file # 11-0420.01/ 05-1121.03)

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of outswing steel door, prepared by American Test Lab of South Florida, Test Report No. **ATL# 0531.01-05**, dated 11/09/05, signed and sealed by William R. Mehner, P.E. and Henry Hattem, P. E.

C. CALCULATIONS

1. Anchor Calculation and Structural analysis complying w/ FBC 2004, prepared by Tilteco, Inc., dated 09/09/05, signed and sealed by Walter A. Tillit Jr., P.E. (submitted under # **05-1121.03**)

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

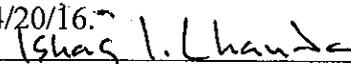
1. Tensile test report # 5GM-704 dated July 28, 2005 per ASTM E-8, issued by Metallurgical Inc, signed by Frank Grate(submitted under # **05-1121.03**)

F. STATEMENTS

1. Statement letter of compliance to FBC 2010, dated 03/12/12 issued by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.
2. Statement letter of compliance to FBC 2007, dated 04/14/11 issued by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E. (submitted under # **11-0420.01**)
3. Statement letter of compliance to FBC 2004 & "No financial interest", dated 04/14/11 issued by Tilteco Inc., both signed and sealed by Walter A. Tillit Jr., P.E. (submitted under # **05-1121.03**).
4. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA revises NOA # **11-0420.01**, expiring on 04/20/16.


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0320.21
Expiration Date: April 20, 2016
Approval Date: June 14, 2012

GENERAL NOTES

1. EX-3 USA, Outswing single door, large missile impact resistant shown on this Product Approval Document (P.A.D.) has been verified for compliance in accordance with the 2007 & 2010 editions of the Florida Building Code. Door may be installed at High Velocity Hurricane Zones (H.V.H.Z.). Design wind loads shall be determined as per section 1620 of the above mentioned codes, using ASCE 7-05 standar for installations under 2007 FBC & ASCE 7-10 standard for installations under 2010 FBC and shall not exceed the maximum (A.S.D.) design pressure rating indicated on note 2 on this sheet & sheet 3. **In order to verify the above condition, ultimate design wind loads determined per ASCE 7-10 shall be first reduced to A.S.D design wind loads by multiplying them by 0.6 in order to compare these w/ max. (A.S.D) design pressure rating indicated on note 2 on this sheet & sheet 3.**

In order to verify that anchors on this P.A.D., as tested, were not overstressed, a 33% increase in allowable stresses for wind loads was not used in their analysis. A duration factor $C_D = 1.60$ was used to verify fasteners in wood. This door's adequacy for impact and cyclic resistance has been verified in accordance with section 1626 of the above mentioned code, as per TAS 201, 202 and 203 protocols, per ATL Report #0531.01-05, and as per submitted calculations performed as per section 1612 of the Florida Building Code.

2. **Max A.S.D. Design Pressure Rating: + 150, -200 psf**
This A.S.D. design pressure rating is only valid if door is assembled with required hardware indicated on sheet 2 of this drawing.

3. **This Door is approved for Air and Water Infiltration.**
This approval is only valid if door is sealed with required gasketing and weather stripping as indicated on Bill of Materials on sheet 3, and sealant specified on General Note 10 below.

4. **This Door will not require a Hurricane Protective Device.**

5. Wood bucks by others, and must be properly anchored to transfer loads to the existing structure. Wood bucks must be Southern Pine #2, with specific Gravity G equal or greater than 0.55. and shall comply w/ sections 2411.3.3.3. & 2326 of the 2007 & 2010 editions of the Florida Building Code & must sustain loads imposed by door and transfer them to the Building Structure.

6. Anchors for fastening door subframe to existing structure must be as indicated on sheet 3.

7. All welding to conform to the American welding Society AWS D1.3 and AWS D9.1. Regulations per Florida Building Code section 2214.3. Use certified welders.

8. All screws used for assembly connections (metal to metal) to be stainless steel 304 or 316 series or corrosion resistant coated carbon steel as per DIN 50018 with 50 ksi minimum yield strength and 90 ksi tensile strength and shall comply with Florida Building Code section 2411.3.3.4

9. Remaining components for this door system shall be as indicated on Bill of Materials on sheet 2 of this drawing.

10. Sealing of door components shall be as follows:

Sealant:
Frame: The interior and exterior perimeter joints and all frame connections shall be sealed with silicone sealant. The two sheet metal 45° angle shaped sections at the corner key shall be sealed to each other and to the sheet metal fabricated corner section with silicone sealant. The two steel sections at the sill shall be sealed with silicone sealant. Hinges shall be also sealed to hinge jamb with silicone sealant.

Sub-frame: The interior and exterior perimeter joints and all sub-frame connections shall be sealed with silicone sealant. Sub-frame shall be also sealed to the frame with silicone sealant around the exterior perimeter. Sub-frame shall be sealed to the wood buck using silicone sealant.

Door: The interior and exterior perimeter joints and all door connections to the main casing at the top rail, bottom rail and stiles shall be sealed with silicone sealant. Hinges shall also be sealed to hinge stile with silicone sealant. The plywood panel on exterior side of door shall be sealed around perimeter of the top rail, bottom rail and stiles with silicone sealant.

11. **Frame and Sub-frame Material:** Hot rolled steel DD12 Reference EN 10111 with Tensile Strength = 59,100 psi; Yield Strength at 0.2% = 52,300 psi; Ultimate Elongation 33%.

12. **Door Material:** Hot rolled zinc plated DX51 + Z100 (275 G/M ± 0.6 Oz/Ft²) Reference EN 10142 + A1-97 with Tensile Strength = 54300 psi, Yield Strength at 49,600 psi; Ultimate Elongation = 23%.

13. **ASTM Designation for Steel:** Equivalent to ASTM A 653 CQ Grade 50 at frame and ASTM A 653 CQ Grade 50 at door.

14. **Galvanizing type:** G60 (initial shop coated), followed by a second coat of asphalt paint in accordance w/ 2007 & 2010 Florida Building Code, section 2220.2

15. **Decorative Wood Clad Panels:** 0.250 (1/4") thick plywood (min. E=1300 ksi.), oak (min. E=1573 ksi.), pine (min. E=1417 ksi.), mahogany (min. E=1204 ksi.), Douglas fir (min. E=1390 ksi.) with 10-12% maximum moisture content, painted with minimum of two (2) coats of water based varnishes, protective impregnators and coatings for outdoor installations.

16. Door's manufacturer label shall be placed on the exposed surface of door's frame or sub-frame. One Label shall be placed for every door. Label shall read as follows:

Master Security Doors, Inc.
Deerfield Beach, Fl
Miami Dade County Product Control Approved.

17.

a. This P.A.D. prepared by this engineer is generic and does not provide information for a specific project; i.e., where the site conditions deviate from the P.A.D.

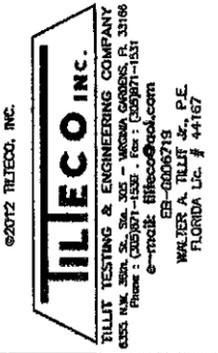
b. Contractor to be responsible for the selection, purchase and installation, including life safety of this product, based on this P.A.D., provide he/she does not deviate from the conditions detailed on this document. Construction safety at site is the contractor's responsibility.

c. This P.A.D. will be considered invalid if altered by any means.

d. Original P.A.D. shall bear the date and original seal and signature of the professional engineer of record that prepared it.

18. Materials, included but not limited to steel / metal screws, that come in contact with other dissimilar materials shall meet the requirements of 2007 & 2010 Florida Building Code section 2003.8.4.

19. Provide 1/4" max. bearing shim space.



MASTER SECURITY DOORS, INC.
2179 N POWER LINE ROAD
SUITE 2
POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925

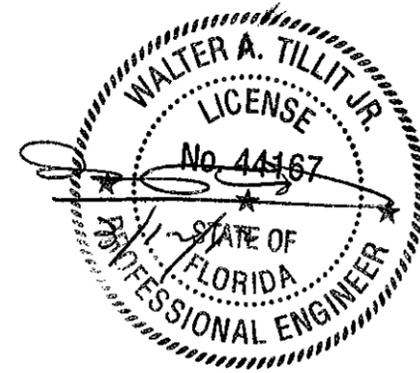
MODEL: EX3 USA
OUTSWING DOOR
LARGE MISSILE
IMPACT RESISTANT

DRAWING: ELEVATION

SCALE: NONE

DRAWN BY: KP, RE.A.G.

DATE DWN: OLD 11-037 02/29/12

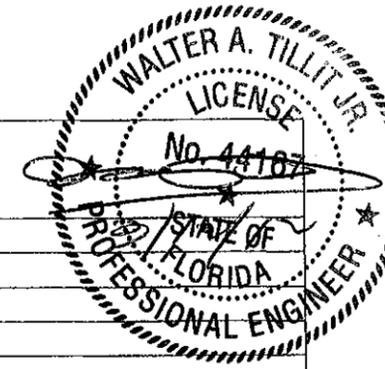


PRODUCT REVISED
in complying with the Florida
Building Code
Acceptance No. 12-0320-01
Expiration Date: Apr 20, 2016
Islyl. Uguj
Miami Dade Product Control

12-060
DRAWING N°
SHEET 1 OF 11

BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL	QTY	COMMENTS
1	HANDLE SET W/DEAD BOLT	MISC.	1	NOT APPLICABLE
2	EXTERIOR PANEL (SEE NOTE 15)	0.250 THK. WOOD $G \geq 0.55$	1	ATTACHED TO ITEM 11 WITH LIQUID NAIL GLUE
3	INTERIOR PANEL (SEE NOTE 15)	0.250 THK. WOOD $G \geq 0.55$	1	ATTACHED TO ITEM 11 WITH LIQUID NAIL GLUE
4	FRAME JAMBS, HEAD	HR STL W/ A52 PVC FILM	3	NOT APPLICABLE
5	FRAME CORNER KEY	GALV. STEEL	2	REFER TO SHEET 8
6	HINGE ASSEMBLY	STEEL	3	REFER TO SHEET 10
7	ROCKWOOL INSULATION	FIBERGLASS	A/R	PANEL CAVITY
8	REINF (MULTI-POINT LOCK HOUSING)	STEEL	1	AT LOCK STILE
9	9/16" X 1/8" THK OPEN CELL FOAM	EPS	A/R	W/ADHESIVE BACKING AND GLUED TO COMPRESSION GASKET
10	PANEL REINF (HINGE STILE)	STEEL	1	AT HINGE STILE
11	PANEL TOP, BOTTOM & STILE RAILS	HR STL W/ A52 PVC FILM	4	NOT APPLICABLE
12	#5 X 1/2" PPHSMS	STEEL	19	PANEL ASS'Y SCREW
13	CISA CYLINDER ASSEMBLY LOCK	STEEL	1	REFER TO SHEET 9
14	BACKING TOBAR	GALV. STEEL	2	NOT APPLICABLE
15	ELEVATED FRAME SILL	HR STL W/ A52 PVC FILM	1	REFER TO SHEET 6
16	FRONT PANEL PLATE	HOT ROLLED STEEL	1	0.059" THK, WELDED TO THE STEEL FORMED SECTION AROUND THE ENTIRE PERIMETER ON INTERIOR AND EXTERIOR SIDE, (20) WELDS AT EACH STILE, LOCATED AT (1) AT 1/1/8" FROM TOP RAIL, THEN (19) WELDS AT 4 3/4" O-C. (8) WELDS AT TOP AND BOTTOM RAIL, EACH LOCATED (1) AT 1" FROM LOCK STILE, THEN (7) AT 5" O-C.
17	REAR PANEL FORMED PLATE	HOT ROLLED STEEL	1	0.059" THK, SPOT WELDED TO ITEM 8 IN THE LOCK STILE WITH TWO ROWS OF SPOT WELDS, 4" APART, FIRST ROW AT 5/8" FROM LOCK STILE. EACH ROW WITH (8) WELDS, LOCATED (1) AT 1 1/2" FROM TOP RAIL, BALANCE AT 13 1/8", 17 1/4", 18", 3 3/4", 11", 10 3/4", 16" AND ALSO SPOT WELDED TO ITEM 10 IN THE HINGE STILE WITH ONE ROW OF (6) SPOT WELDS AT 2 1/2" FROM HINGE STILE, AND AT 2 1/2" FROM TOP RAIL, WITH BALANCE AT 14 1/2", 17", 17 7/8", 18" AND 19 1/2".
18	SUBFRAME HEAD	HOT ROLLED STEEL	1	REFER TO DETAIL 18, SHEET 7
19	SUBFRAME JAMBS	HOT ROLLED STEEL	2	REFER TO DETAIL 19, SHEET 7
20	LOWER FRAME SILL	HR STL W/ A52 PVC FILM	1	REFER TO DETAIL 20, SHEET 7
21	SUBFRAME CORNER KEY	GALV. STEEL	2	REFER TO DETAIL 21, SHEET 7 AND DETAIL 5, SHEET 8
22	FRAME GASKET	VINYL	A/R	REFER TO DETAIL 22, SHEET 11
23	COMPRESSION GASKET	VINYL	A/R	REFER TO DETAIL 23, SHEET 11
24	BLOT W/THREADED SLEEVE	STEEL	5	REF DET 24, SHEET 6 AND REF DET 28, SHEET 7. LOCATED AT 1 3/8" WIDE X 1 1/8" HIGH CUT OUTS COVERED WITH VINYL COVER (5) AT HINGE JAMB
25	RETENTION CLIP HOUSING	GALV STEEL	10	5 PER JAMB. SEE LOCATIONS ON SHEET 3. REF. DET 25, SHEET 11
26	RETENTION CLIP	GALV. STEEL	10	5 PER JAMB. SEE LOCATIONS ON SHEET 3. REF. DET 26, SHEET 11
27	M8 X 30MM ALLEN HEAD BOLT	STEEL	5	SEE SHEET 3 FOR LOCATIONS
28	BLOT KEEPER	PLASTIC	5	REF DET 28, SHEET 7. USE 5 AT HINGE JAMB AT ITEM 24.



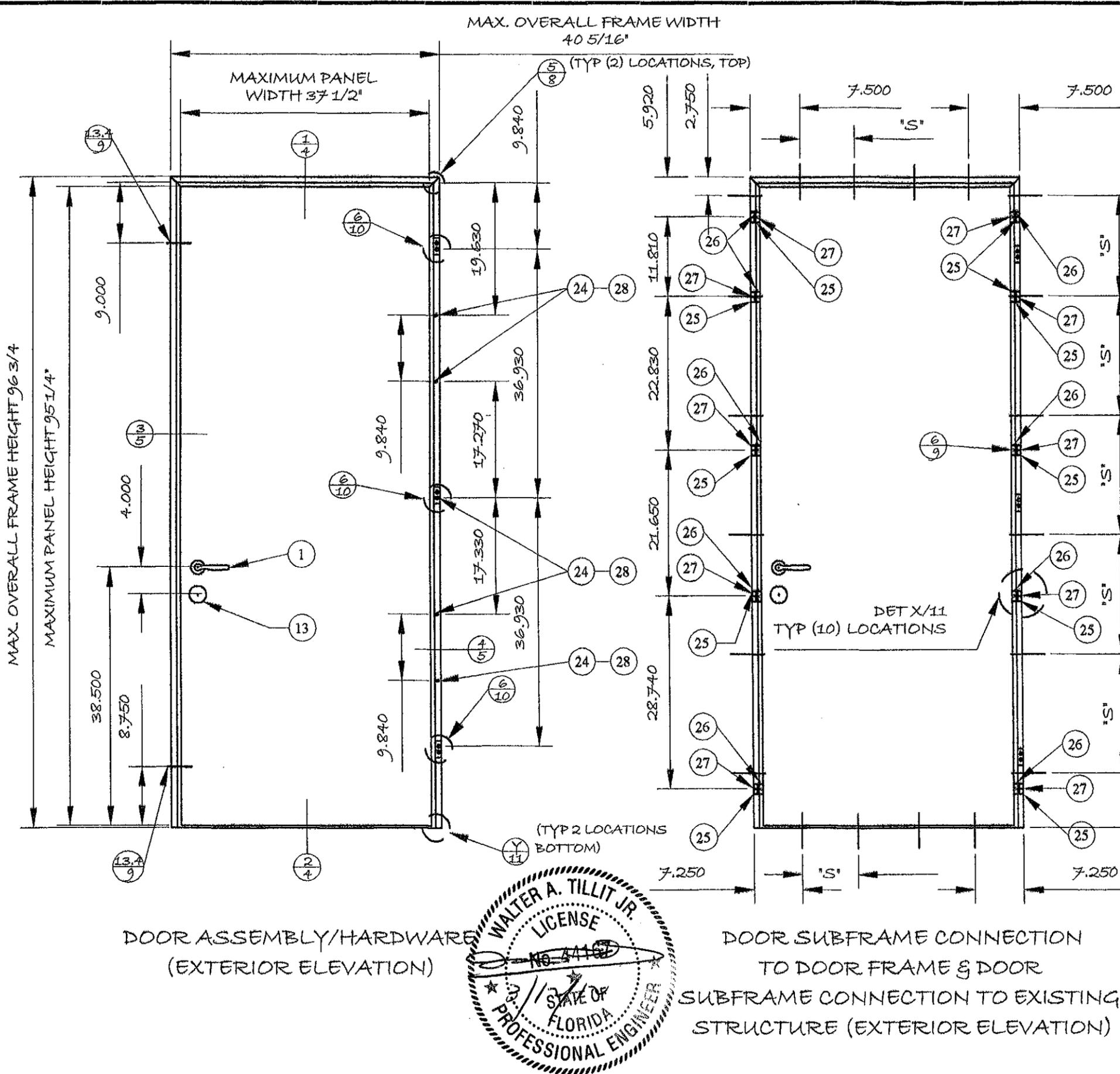
TILECO INC.
©2012 TILECO, INC.
 TILLIT TESTING & ENGINEERING COMPANY
635 W. PALM BLVD., SUITE 150, POMPANO BEACH, FL 33069
 Phone: (954) 971-4747, Fax: (954) 971-4747
 e-mail: tileco@tdl.com
 EB-0006719
 WALTER A. TILLIT JR., P.E.
 FLORIDA Lic. # 44167

MASTER SECURITY DOORS, INC
 2179 N POWER LINE ROAD
 SUITE 2
 POMPANO BEACH, FL 33069
 TELEPHONE: 954-971-4747
 FAX: 954-971-4925

MODEL: EX3 USA
 OUTSWING DOOR
 LARGE MISSILE
 IMPACT RESISTANT
 DRAWING: ELEVATION
 SCALE: NONE
 DRAWN BY: KP, RE, A.G.
 DATE DWN: OLD 11-037 02/29/12

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0320.21
 Expiration Date 4/20/16

12-060
 DRAWING N°
 SHEET 2 OF 11



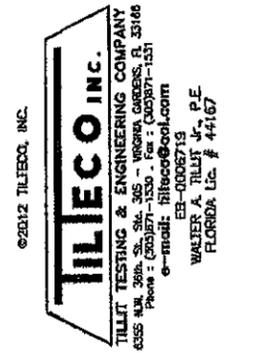
MAXIMUM ANCHOR
SPACING 'S' SCHEDULE
FOR SUBFRAME ANCHORAGE
TO EXISTING STRUCTURE

DOOR FRAME	MAX. A.S.D. DESIGN PRESSURE RATING	ANCHOR TYPE	
		1	2
JAMBS	UP TO 100 PSF	10' O.C.	17 3/4' O.C.
	>100 TO 200 PSF	5' O.C.	9' O.C.
HEAD & SILL	UP TO 100 PSF	12 3/4' O.C.	25' O.C.
	>100 TO 200 PSF	6 3/8' O.C.	8 3/8' O.C.

* VALID FOR EITHER POURED CONCRETE, CONCRETE BLOCK, OR WOOD SUBSTRATES (REFER TO ANCHOR LEGEND)

ANCHOR LEGEND:

- 1/4" TAPCON ANCHORS, BY ELCO TEXTRON W/ 1 1/4" MIN. EMBEDMENT TO F_c = 3.32 KSI CONCRETE, OR ASTM C-90 CONCRETE BLOCK AND WITH 3" MIN. EMBEDMENT TO WOOD SUBSTRATE W/ G ≥ 0.55 MIN EDGE DISTANCE = 2 1/2" (MASONRY) AND MIN. EDGE DISTANCE 1" (WOOD).
- 3/8" TAPPERS BY POWER FASTENERS, INC; W/ 1 1/4" MIN. EMBEDMENT TO F_c = 3.0 KSI CONCRETE OR ASTM C-90 CONCRETE BLOCK WALL AND WITH 3" MIN. EMBED. TO WOOD SUBSTRATE W/ G ≥ 0.55 MIN EDGE DISTANCE = 4 1/2" (MASONRY), MIN. EDGE DISTANCE = 1 1/2" (WOOD).

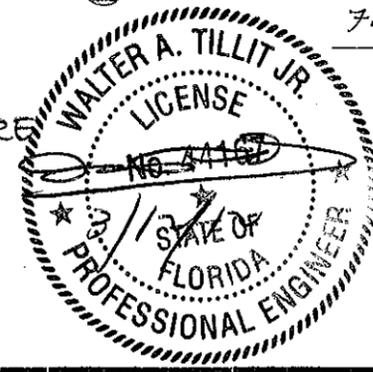


MASTER SECURITY DOORS, INC
2179 N POWER LINE ROAD
POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925

MODEL: EX3 USA
OUTSWING DOOR
LARGE MISSILE
IMPACT RESISTANT
DRAWING: ELEVATION
SCALE: NONE
DRAWN BY: KP, RE.A.G.
DATE DWN: OLD 11-037 02/29/12

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in complying with the Florida
Building Code
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Expiration Date 4/24/16
[Signature]
Product Control

12-060
DRAWING N°
SHEET 3 OF 11

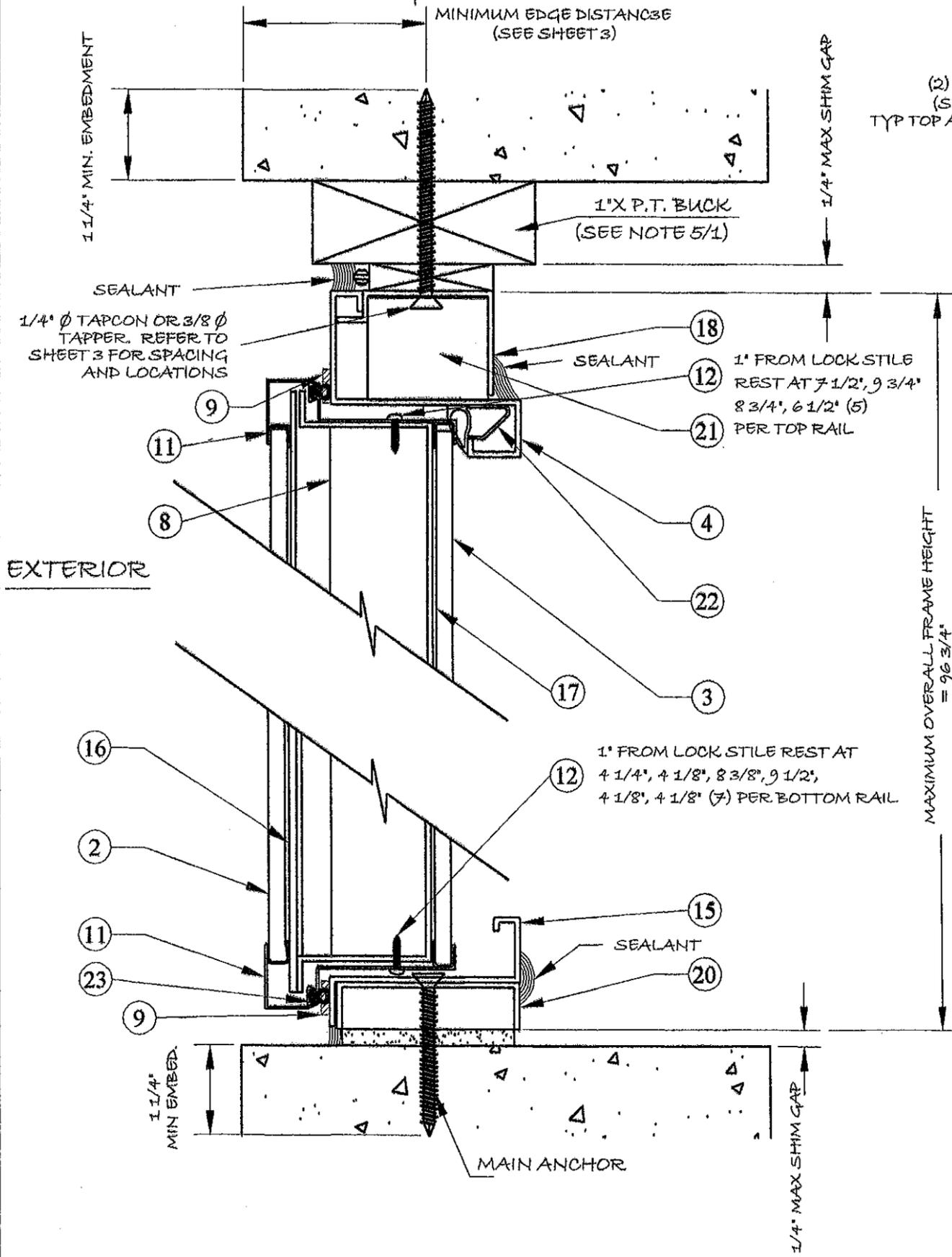


DOOR ASSEMBLY/HARDWARE
(EXTERIOR ELEVATION)

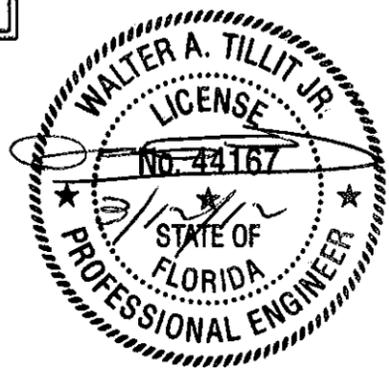
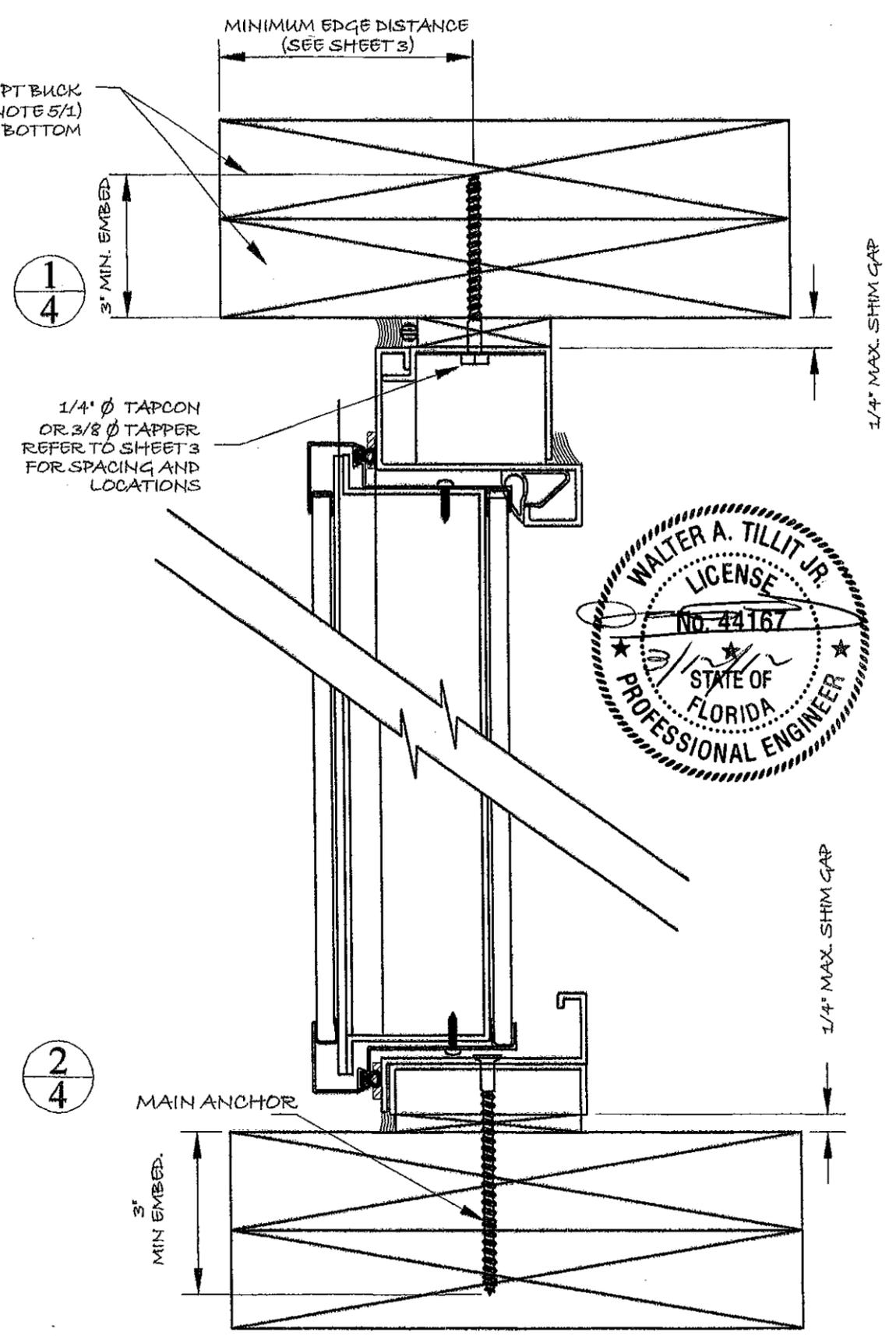
DOOR SUBFRAME CONNECTION
TO DOOR FRAME & DOOR
SUBFRAME CONNECTION TO EXISTING
STRUCTURE (EXTERIOR ELEVATION)

— = PERIMETER FASTENER LOCATIONS
(SEE ANCHOR LEGEND, THIS SHEET)

MASONRY INSTALLATION



WOOD INSTALLATION



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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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EB-0006719
WALTER A. TILLIT JR., P.E.
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2179 N POWER LINE ROAD
SUITE 2
POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925

MODEL: EX3 USA
OUTSWING DOOR
LARGE MISSILE
IMPACT RESISTANT

DRAWING: VERT. CROSS SECT

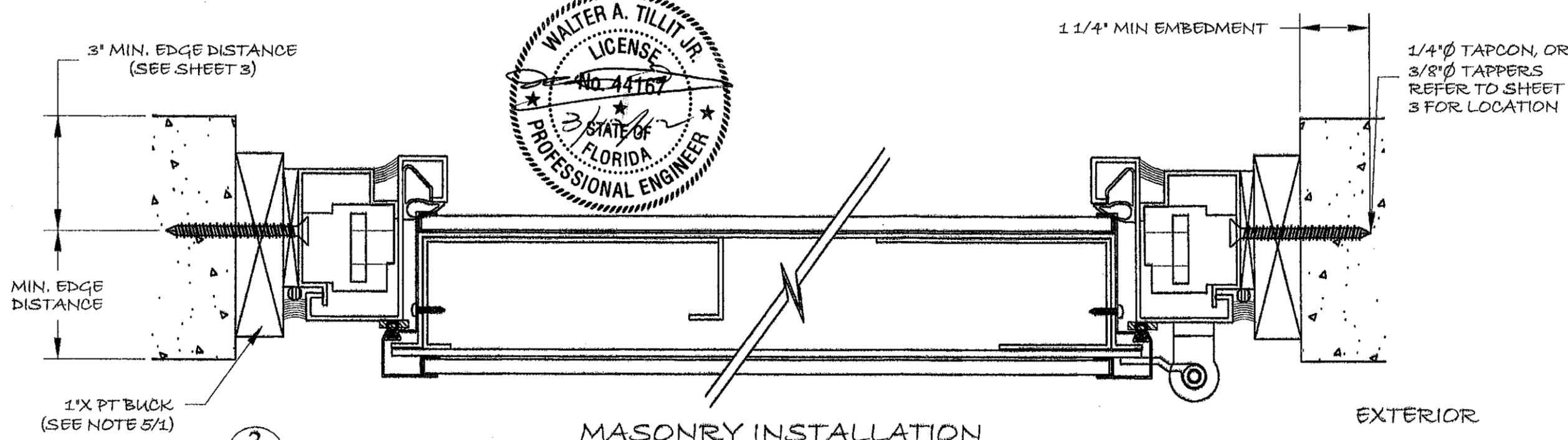
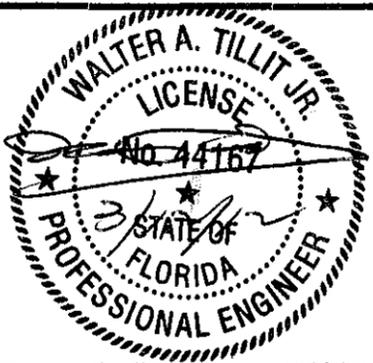
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DRAWN BY: KP, RE.A.G.

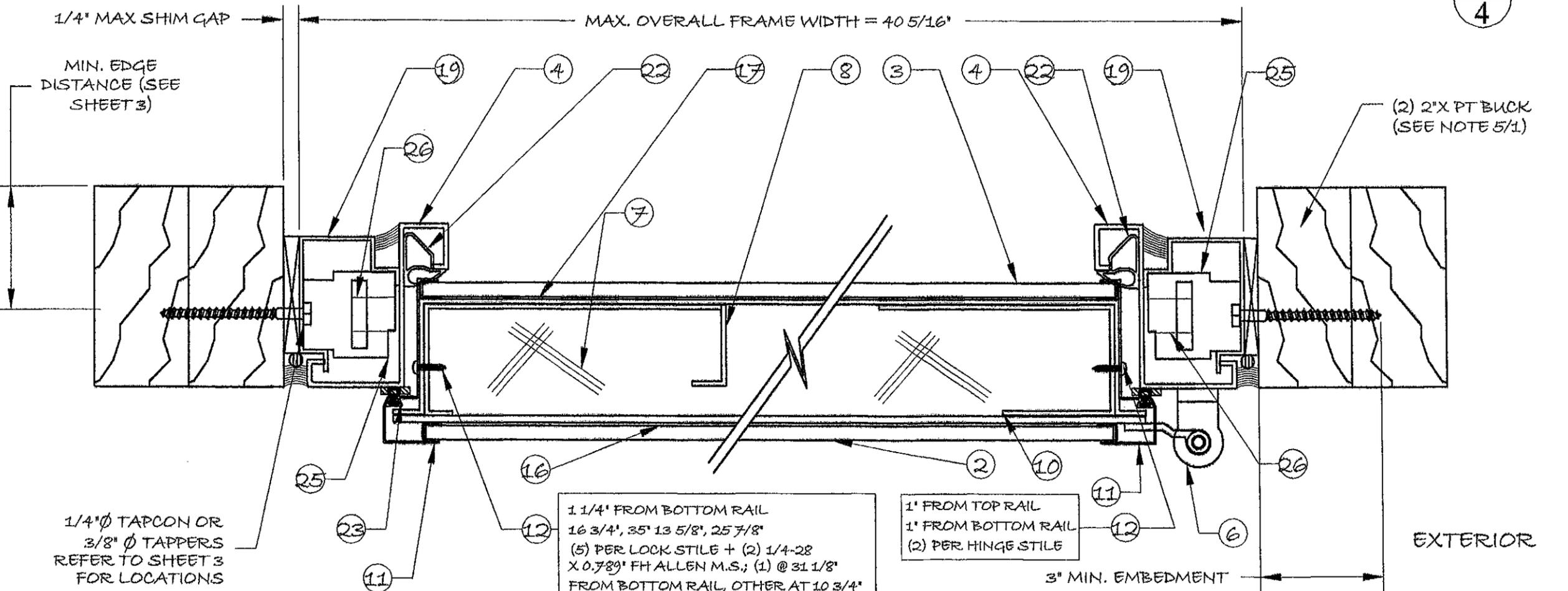
DATE DWN: OLD 11-037 02/29/12

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Acceptance No 12-0320-21
Expiration Date 4/20/16
Walter A. Tillit Jr.
Master Door Product Control

12-060
DRAWING N°
SHEET 4 OF 11



MASONRY INSTALLATION



WOOD INSTALLATION

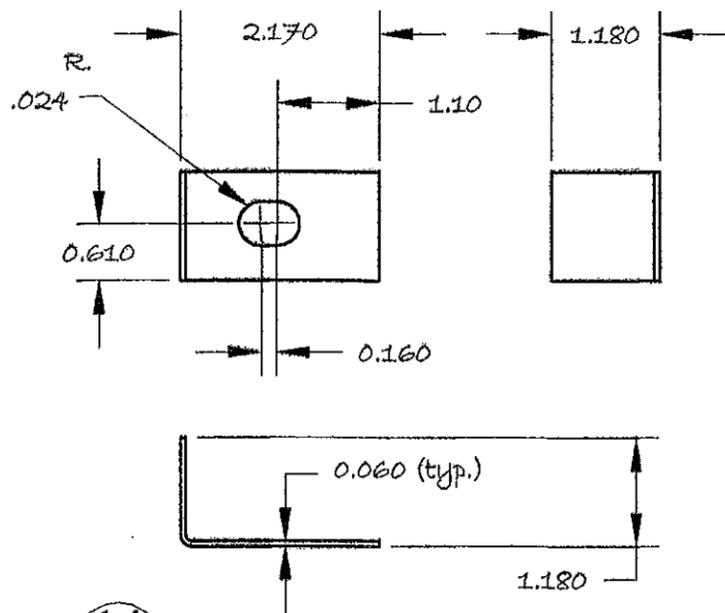
©2012 TILTECO, INC.
TILTECO INC.
 TILIT TESTING & ENGINEERING COMPANY
 5235 N.W. 25th St., Suite 205 - Vertical, Dade County, FL 33166
 Phone: (305) 971-1305 Fax: (305) 971-1531
 e-mail: tiliteco@ttilco.com
 EB-0006719
 WALTER A. TILLIT JR., P.E.
 FLORIDA Lic. # 44167

MASTER SECURITY DOORS, INC
 2179 N POWER LINE ROAD
 SUITE 2
 POMPANO BEACH, FL 33069
 TELEPHONE: 954-971-4747
 FAX: 954-971-4925

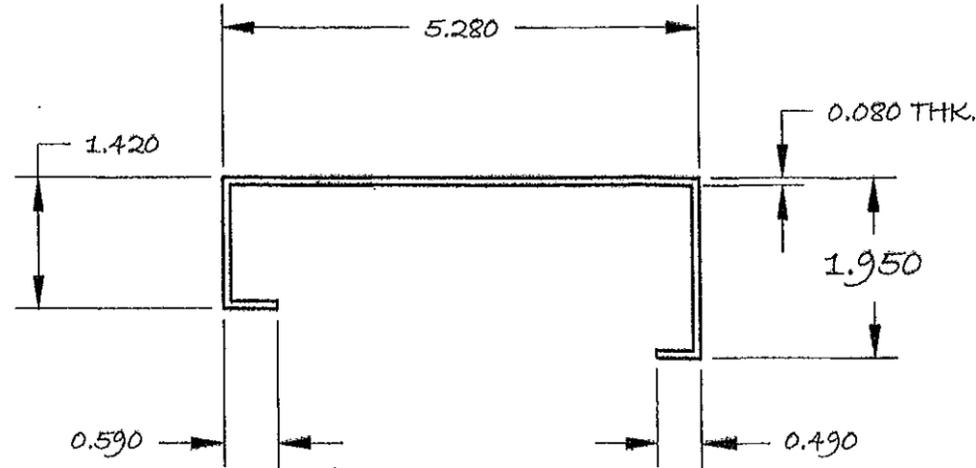
MODEL: EX3 USA
 OUTSWING DOOR
 LARGE MISSILE
 IMPACT RESISTANT
 DRAWING: HORIZ. CROSS SECT
 SCALE: NONE
 DRAWN BY: KP, RE.A.G.
 DATE DWN: OLD 11-037 02/29/12

PRODUCT REVISED
 to comply with the Florida
 Building Code
 Acceptance No. 12-0320.21
 Expiration Date 4/22/16
 Ishag L. Chaudhry
 Miami Dade Product Control

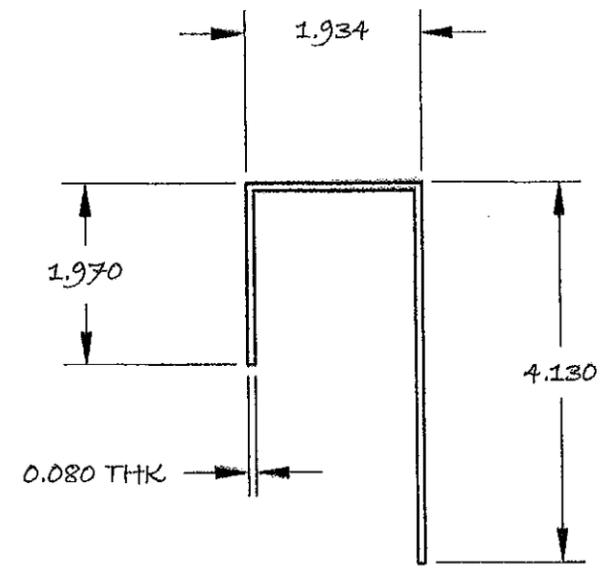
12-060
 DRAWING N°
 SHEET 5 OF 11



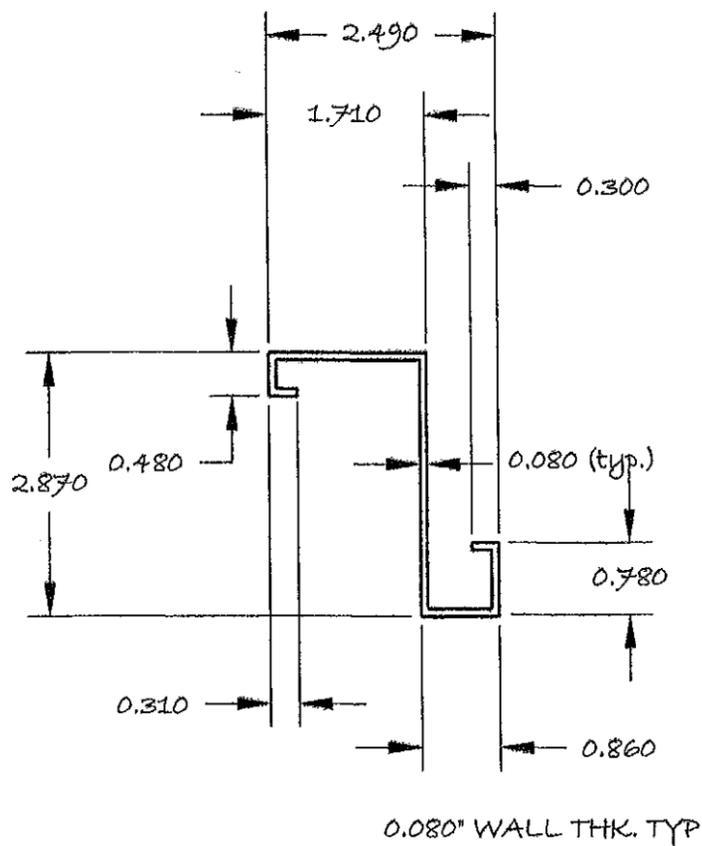
14/6 BACKING TOBAR



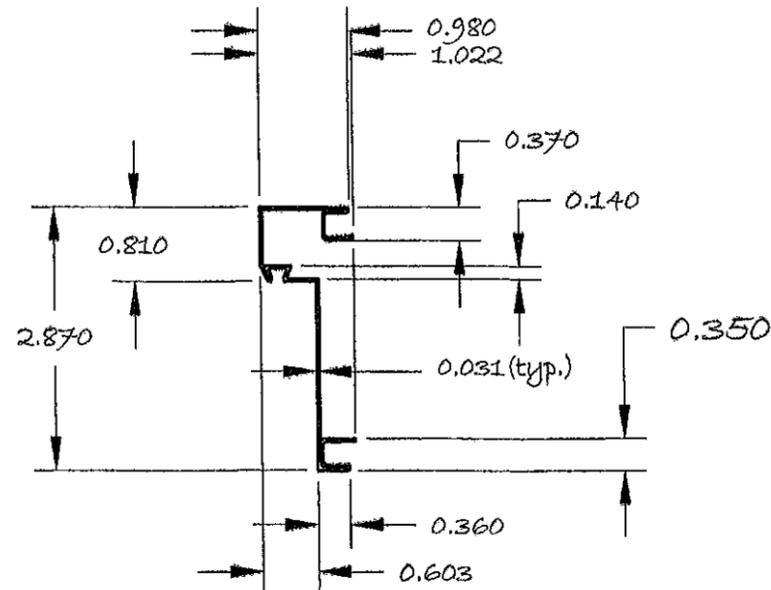
8/6 REINFORCEMENT LOCK STILE (FULL LENGTH)



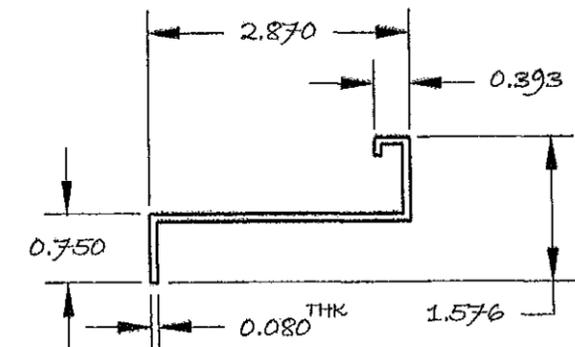
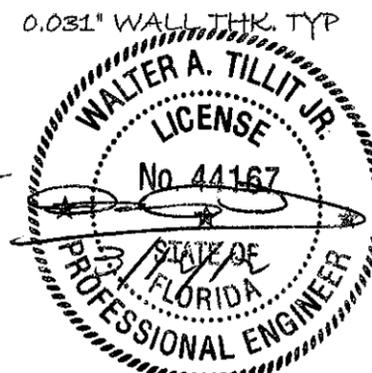
10/6 REINF HINGE STILE (FULL LENGTH)



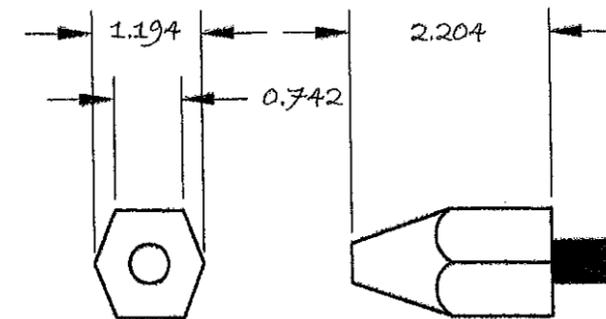
4/6 FRAME: JAMBS & HEAD



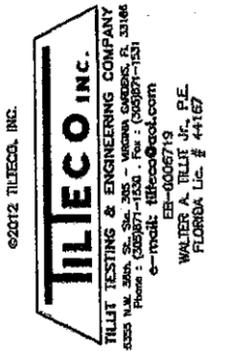
11/6 DOOR PANEL TOP RAIL BOTTOM RAIL AND VERTICAL STILES



15/6 ELEVATED FRAME SILL



24/6 BLOT

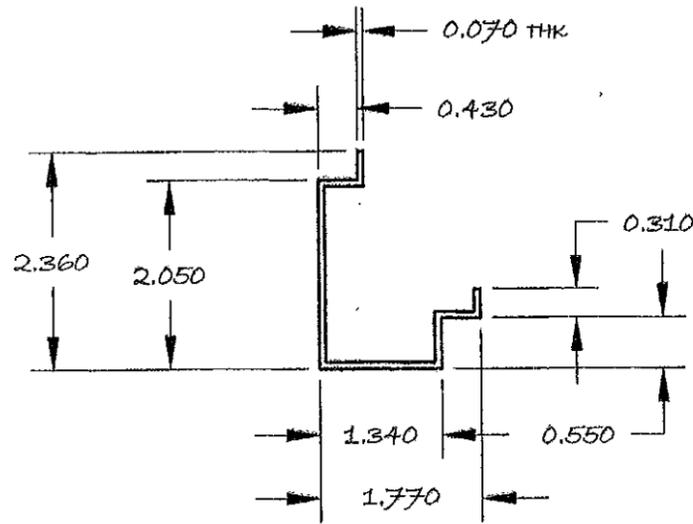


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2179 N POWER LINE ROAD
SUITE 2
POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925

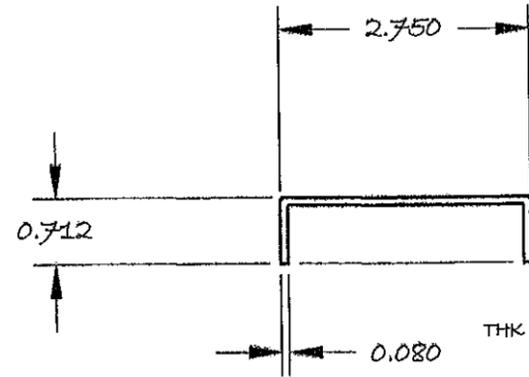
MODEL: EX3 USA
OUTSWING DOOR
LARGE MISSILE
IMPACT RESISTANT
DRAWING: DETAILS
SCALE: NONE
DRAWN BY: KP, RE.A.G.
DATE DWN: OLD 11-037 02/29/12

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0320-21
Expiration Date 11/2011
Walter A. Tillit Jr.

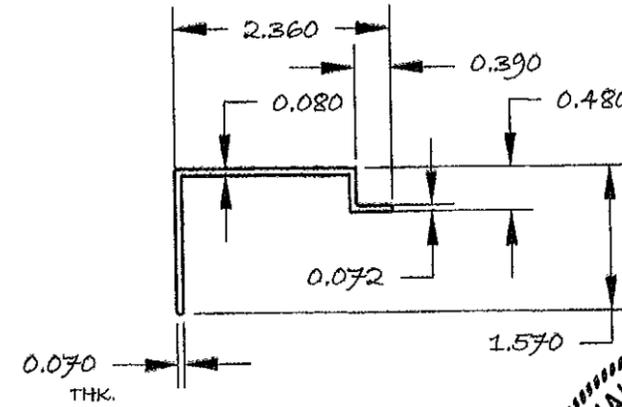
12-060
DRAWING N°
SHEET 6 OF 11



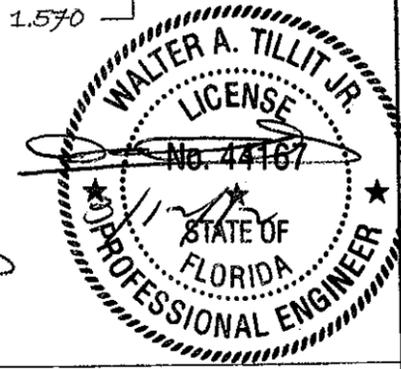
19
7 SUBFRAME JAMBS
SCALE: 1/2



20
7 LOWER FRAME SILL
SCALE: 1/2

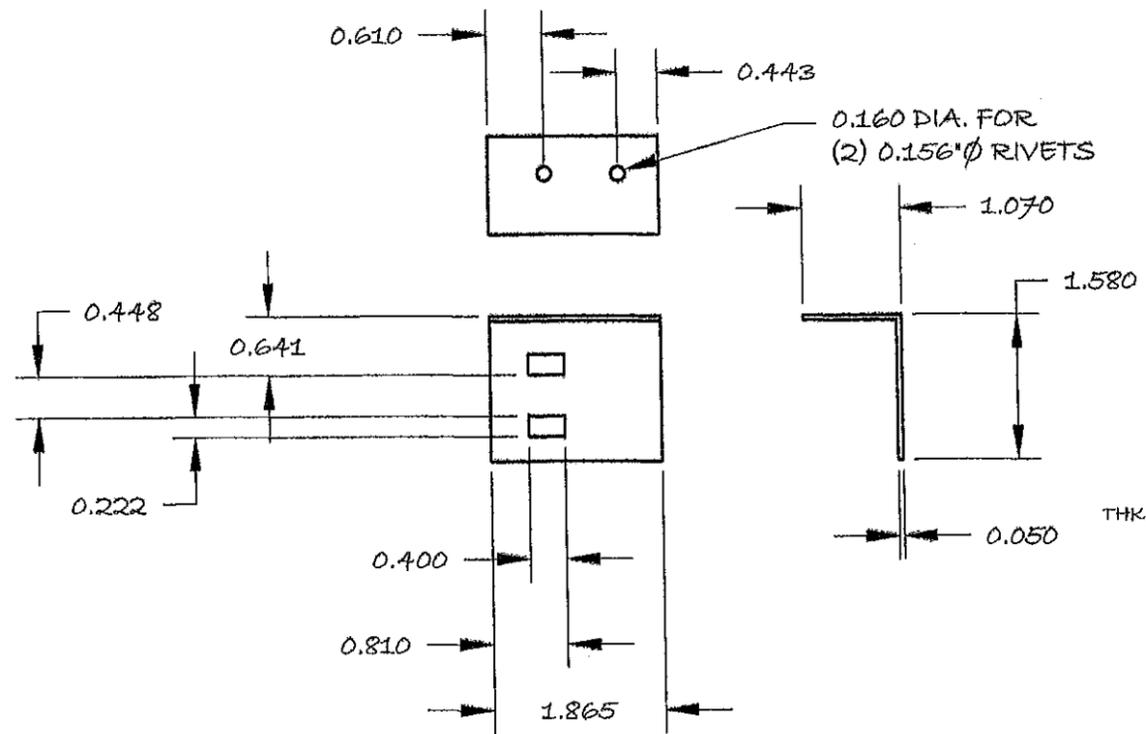


18
7 SUB FRAME HEAD
SCALE: 1/2

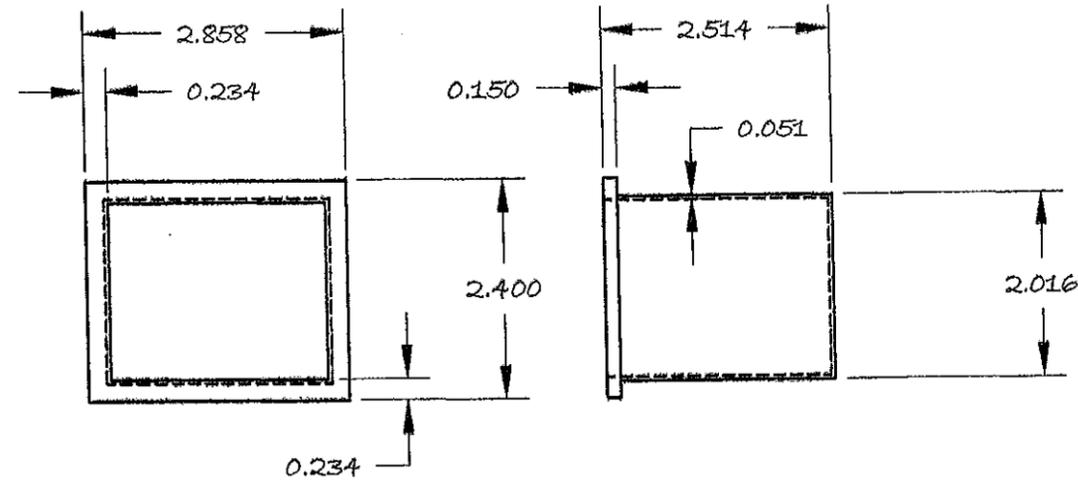


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e-mail: tiliteco@aol.com
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA LIC. # 44167

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2179 N POWER LINE ROAD
SUITE 2
POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925



21
7 SUB FRAME CORNER KEY
SCALE: 1/2

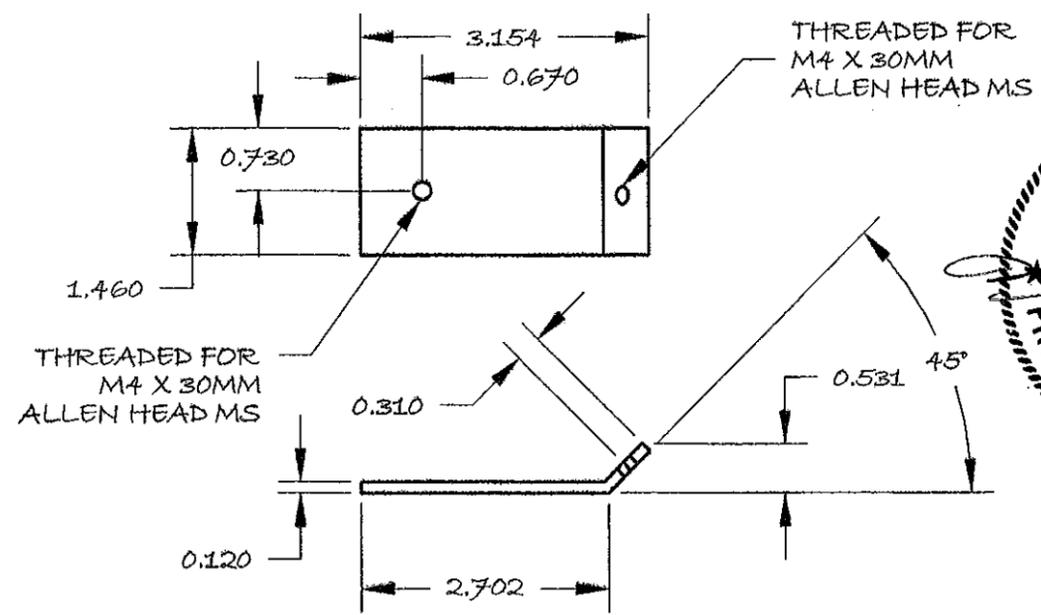


28
7 BLOT KEEPER
SCALE: FULL

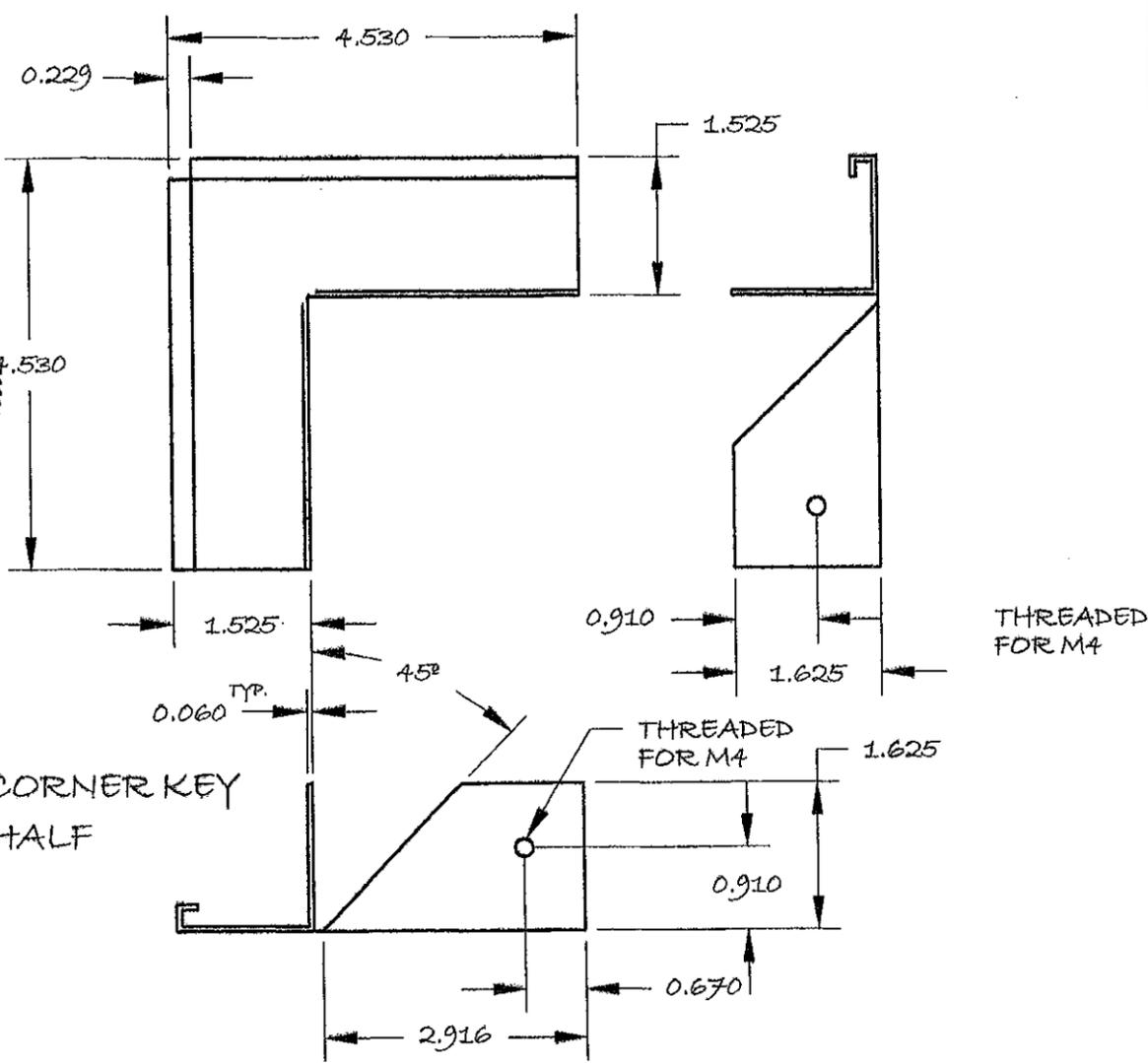
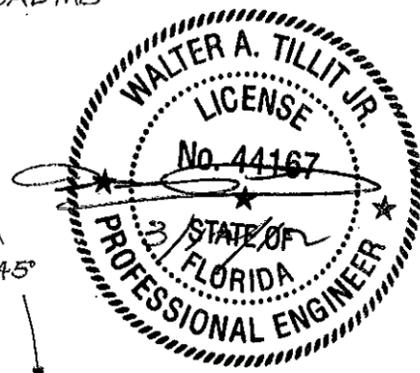
MODEL: EX3 USA
OUTSWING DOOR
LARGE MISSILE
IMPACT RESISTANT
DRAWING: SUBFRM DETAILS
SCALE: NONE
DRAWN BY: KP, RE.A.G.
DATE DWN: OLD 11-037 02/29/12

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-0320-21
Expiration Date 9/20/16
Walter A. Tillit Jr.
Professional Engineer

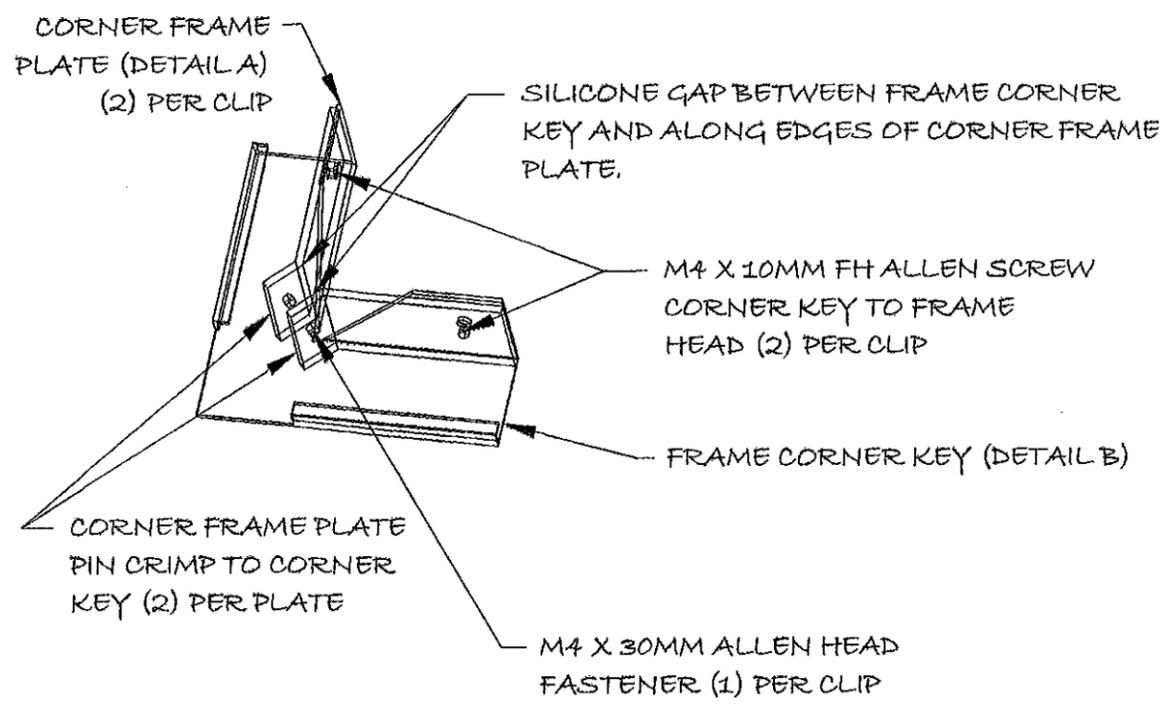
12-060
DRAWING N°
SHEET 7 OF 11



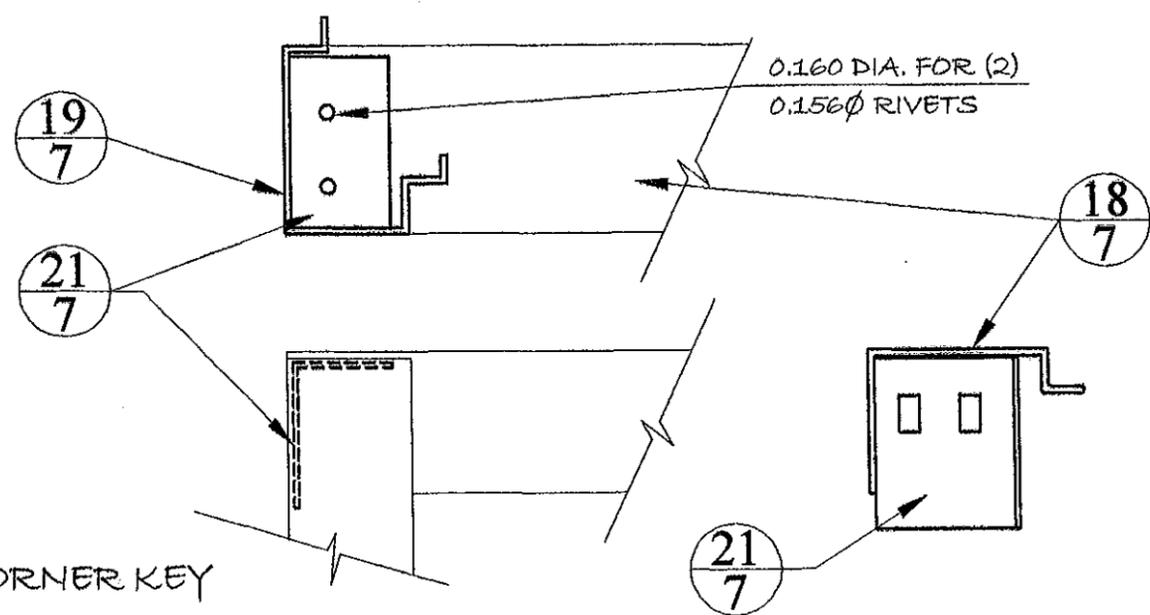
A
8 CORNER FRAME PLATE
SCALE: HALF



B
8 FRAME CORNER KEY
SCALE: HALF



5
8 FRAME CORNER KEY ASS'Y



SUBFRAME CORNER KEY

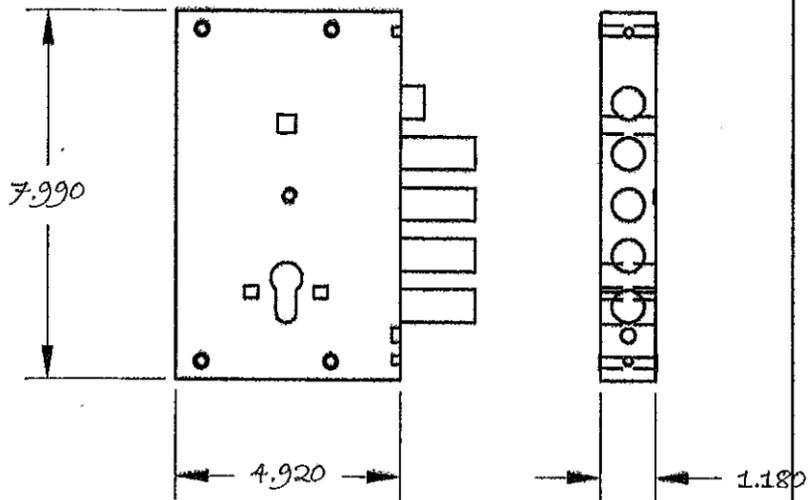
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e-mail: tilteco@aol.com
WALTER A. TILLIT JR., P.E.
FLORIDA LIC. # 44167

MASTER SECURITY DOORS, INC.
2179 N POWER LINE ROAD
SUITE 2
POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925

MODEL: EX3 USA
OUTSWING DOOR
IMPACT RESISTANT
DRAWING: DETAILS
SCALE: NONE
DRAWN BY: KP, RE.A.G.
DATE DWN: OLD 11-037 02/29/12

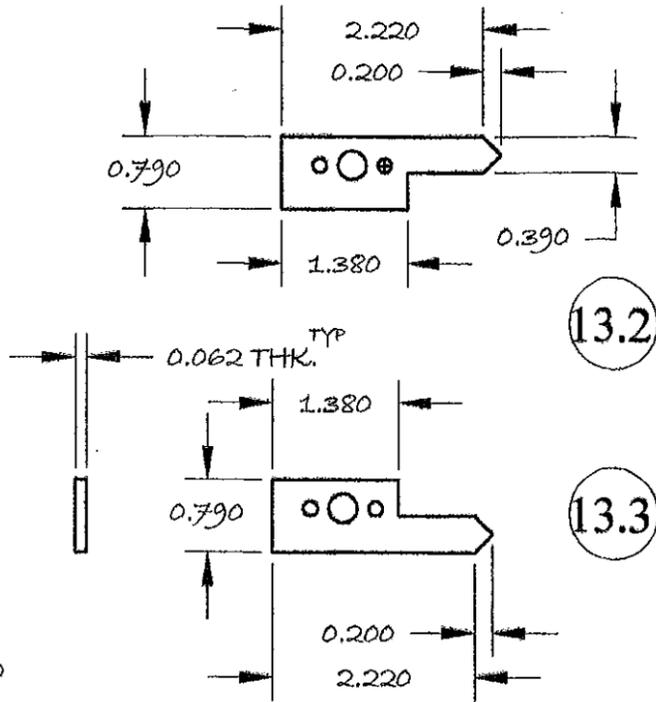
PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 12-0320.21
Expiration Date 4/22/16
By: *[Signature]*
Miami Dept. Product Control

12-060
DRAWING N
SHEET 8 OF 11



13.1 LOCK SCALE: 1/4

ATTACHED TO LOCK STILE W/ (2) 1/4-28 X 1/2" FH ALLEN SCR.



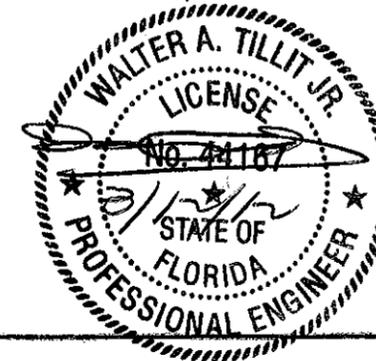
13.2

13.3

TONGUE UPPER AND LOWER SCALE: 1/2

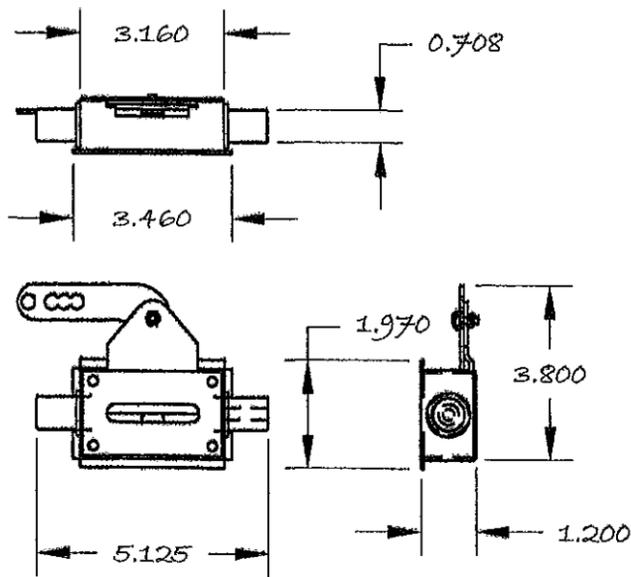
ITEM #	DESCRIPTION	QUANTITY
13.1	LOCK	1
13.2	TONGUE UPPER	1
13.3	TONGUE LOWER	1
13.4	LOCK SLIDE BOLTS	2
13.5	CONNECTOR ROD (NOT SHOWN)	2
13.6	LOCK STRIKE PLATE	1

13 MULTI-POINT LOCKING SYSTEM



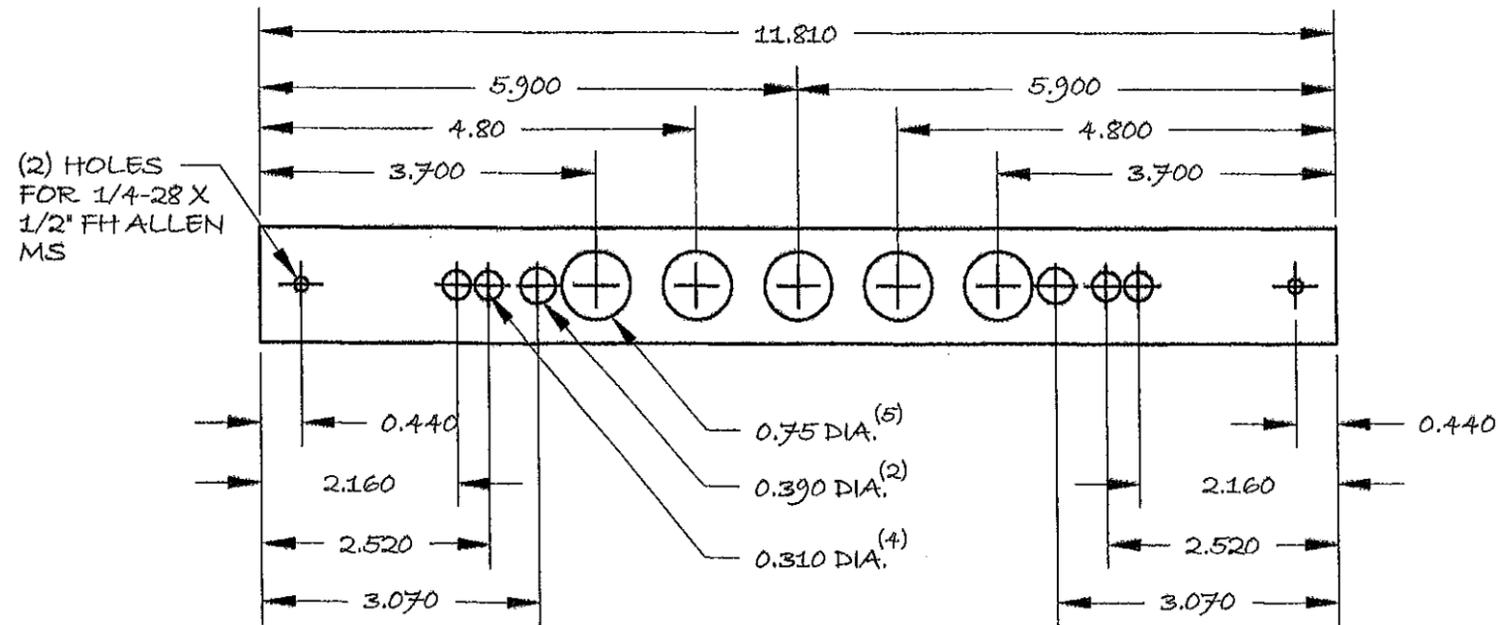
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 e-mail: tilteco@tillit.com
 WALTER A. TILLIT JR., P.E.
 EB-0006719
 FLORIDA Lic # 44167

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 2179 N POWER LINE ROAD
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 TELEPHONE: 954-971-4747
 FAX: 954-971-4925



(2) REQUIRED AT LOCK STILE

13.4 LOCK SLIDE BOLTS SCALE: 1/4

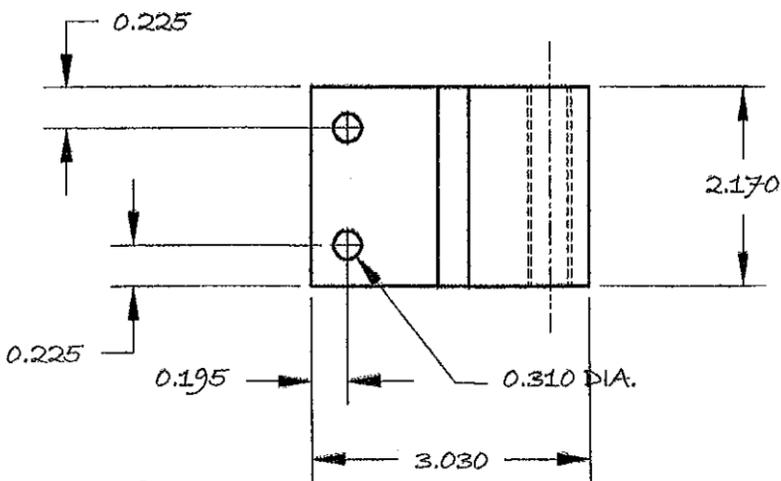
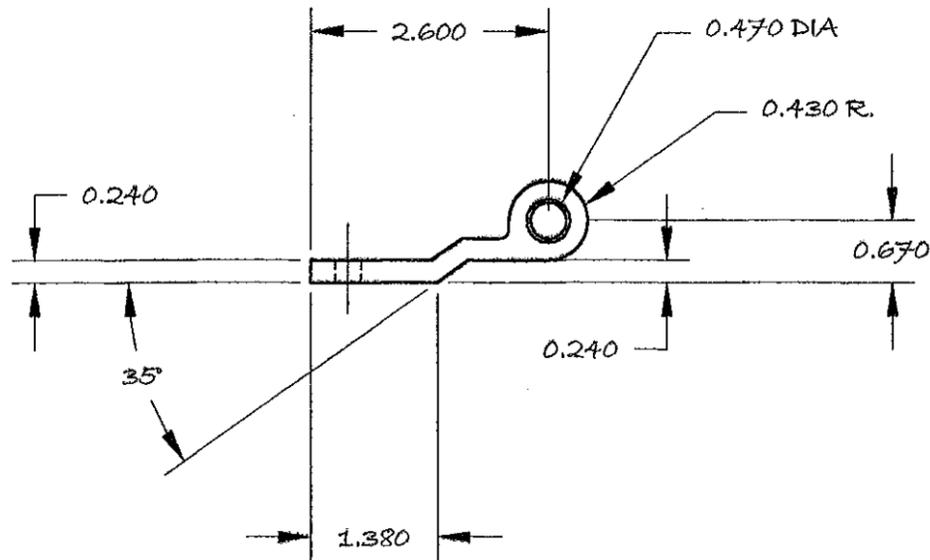


13.6 LOCK STRIKE PLATE SCALE: 1/2

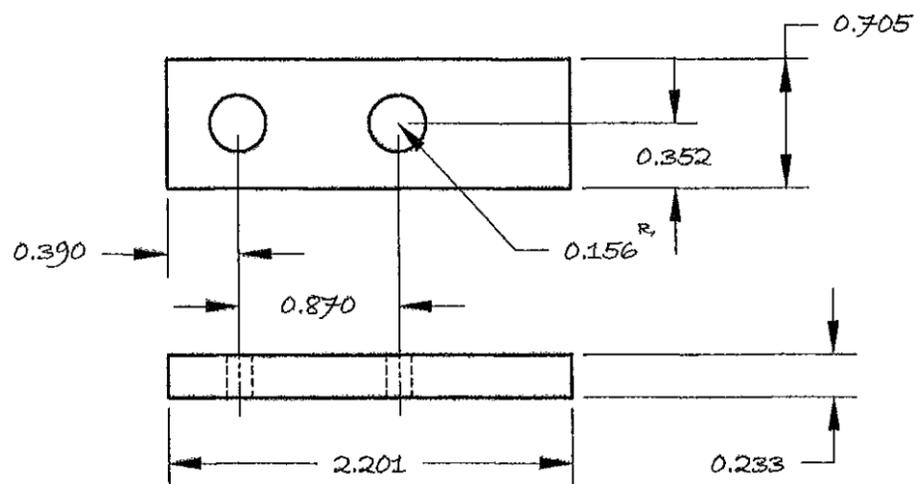
MODEL: EX3 USA
 OUTSWING DOOR
 LARGE MISSILE
 IMPACT RESISTANT
 DRAWING: LOCK SYSTEM
 SCALE: NONE
 DRAWN BY: KP, RE.A.G.
 DATE DWN: OLD 11-037 02/29/12

PRODUCT REVIEW
 Building Code
 Acceptance No. 12-0320-21
 Expiration Date 4/20/16
 By: *Ysheng I. Chande*

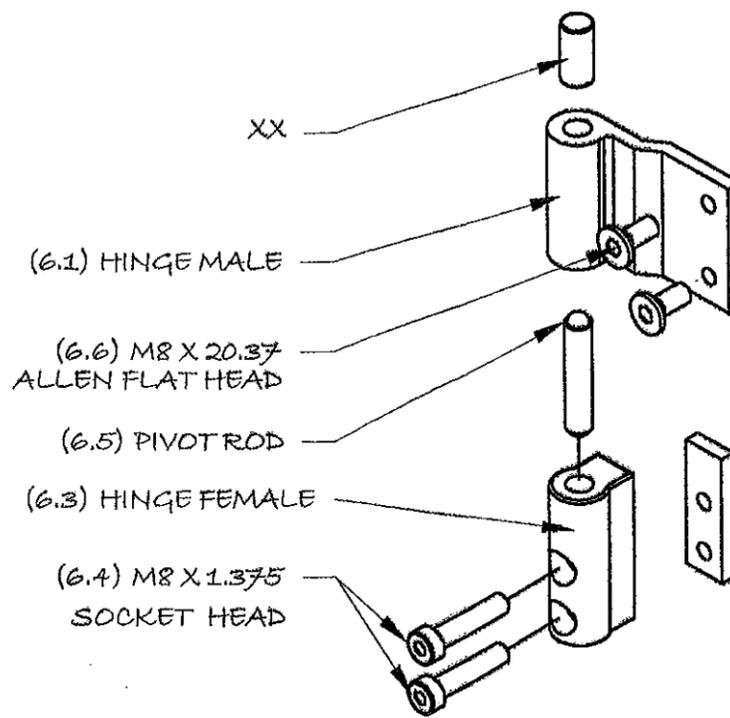
12-060
 DRAWING N°
 SHEET 9 OF 11



6.1 HINGE MALE
SCALE: HALF

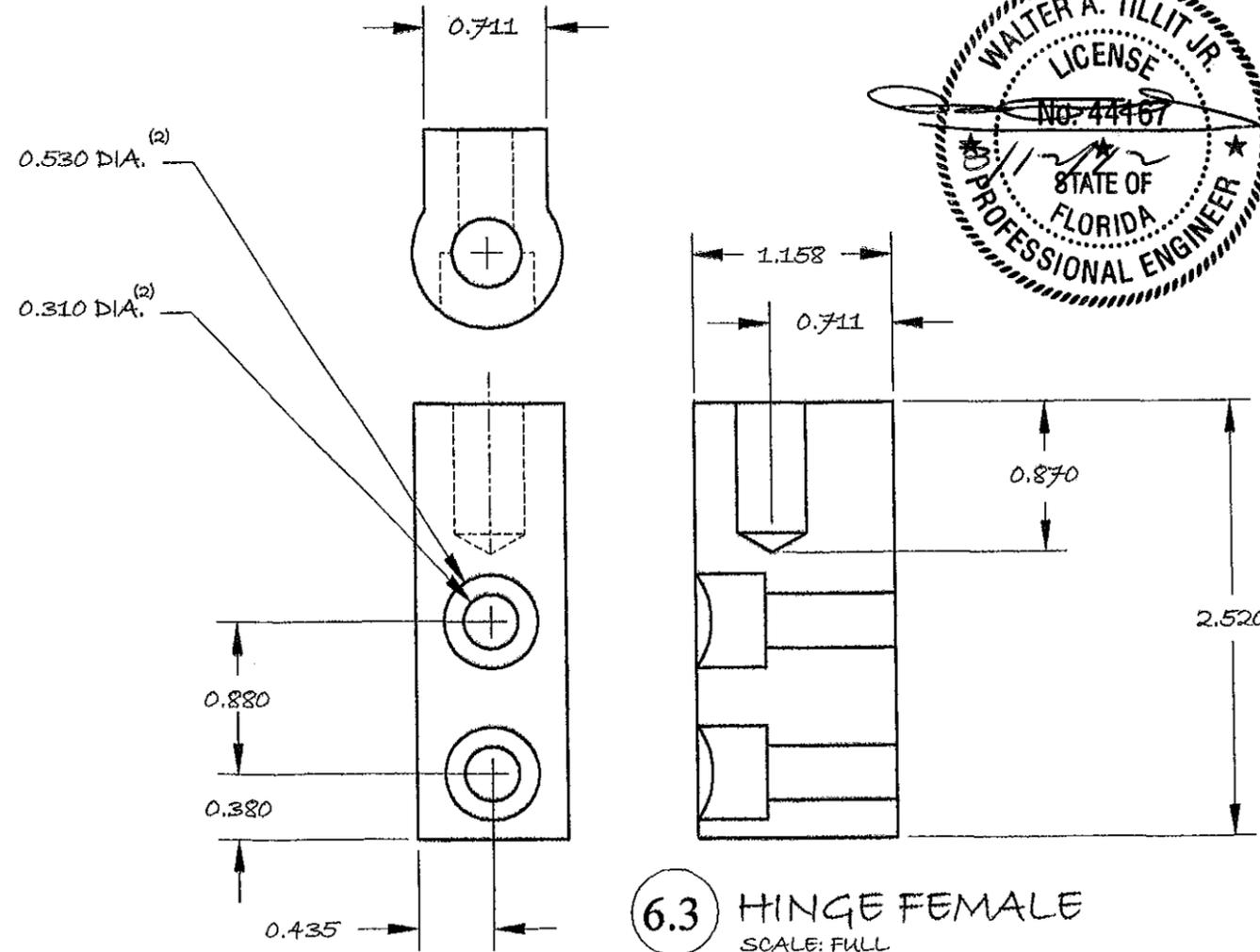


6.2 HINGE BACKER PLATE
SCALE: FULL

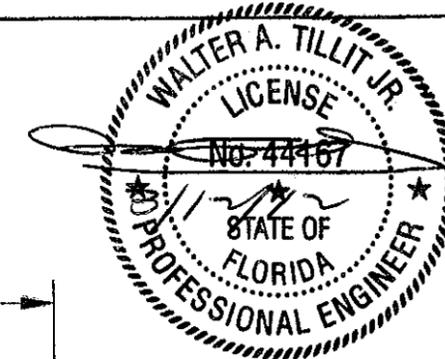


6/10 HINGE ASSEMBLY

ITEM #	DESCRIPTION	QUANTITY
6.1	HINGE MALE	1 / ASSY
6.2	HINGE BACKER PLATE	1 / ASSY
6.3	HINGE FEMALE	1 / ASSY
6.4	M8 X 1.375 SOCKET HEAD	2 / ASSY
6.5	PIVOT ROD	1 / ASSY
6.6	M8 X 20.37 ALLEN FH	2 / ASSY



6.3 HINGE FEMALE
SCALE: FULL



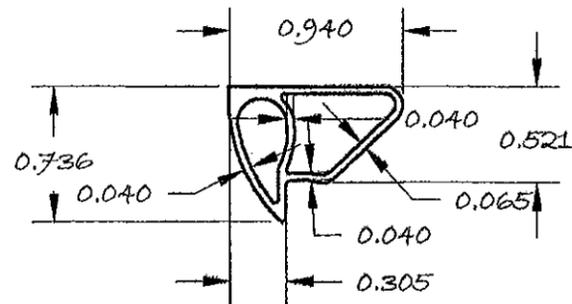
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WALTER A. TILLIT JR., P.E.
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SUITE 2
POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925

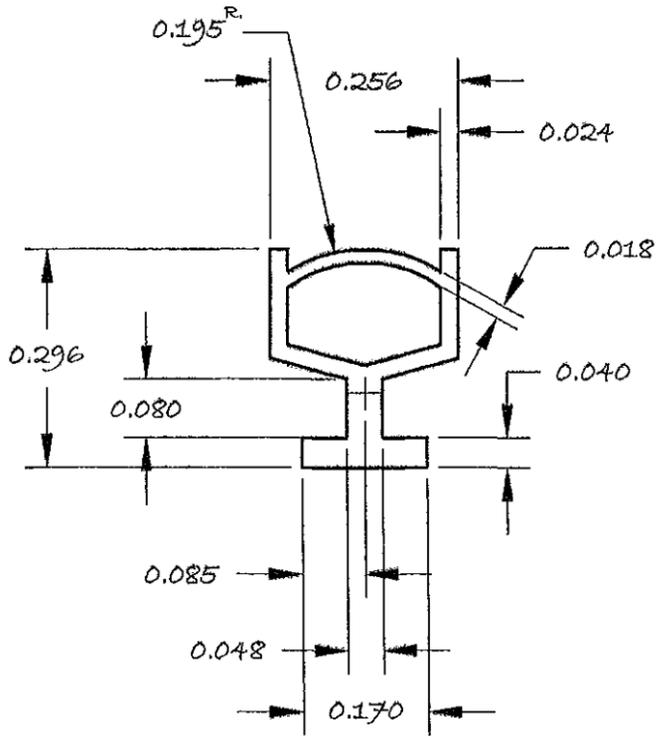
MODEL: EX3 USA
OUTSWING DOOR
LARGE MISSILE
IMPACT RESISTANT
DRAWING: HINGE ASSY
SCALE: NONE
DRAWN BY: KP, RE.A.G.
DATE DWN: OLD 11-037 02/29/12

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No 12-0320-21
Expiration Date 4/26/16
By *Walter A. Tillit Jr.*
Manual Date Product Control

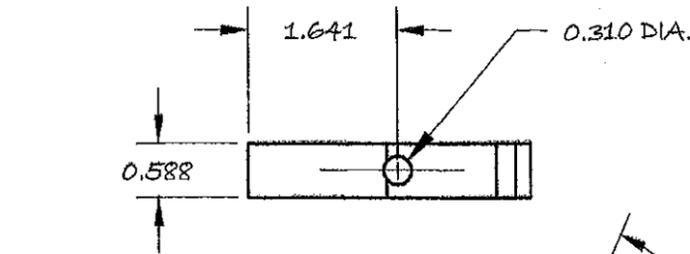
12-060
DRAWING N°
SHEET 10 OF 11



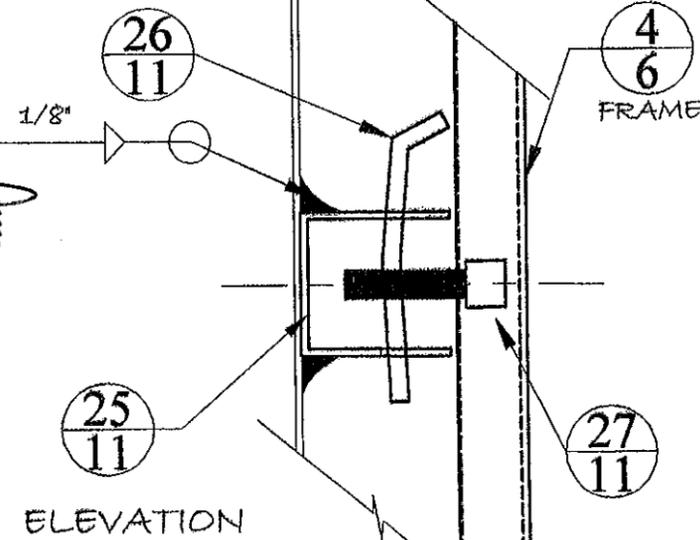
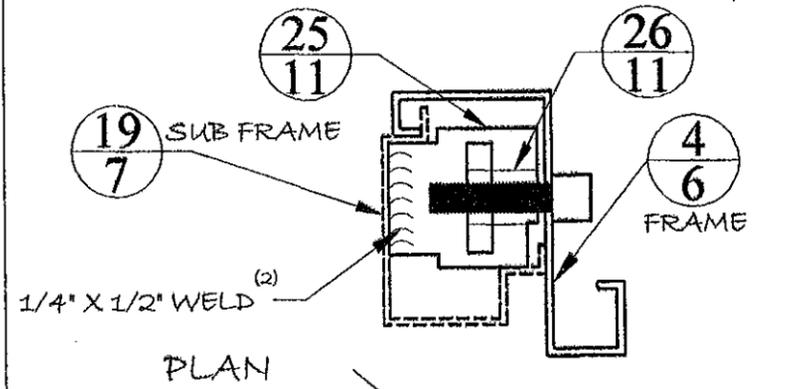
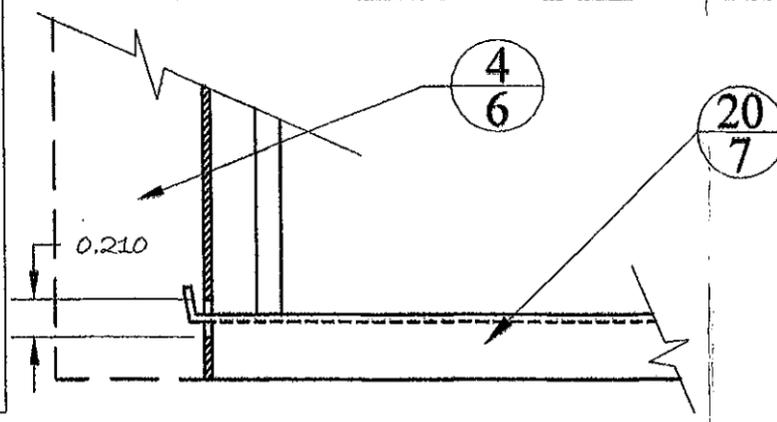
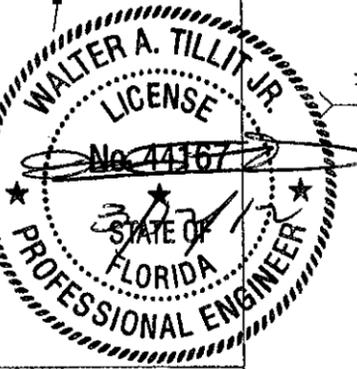
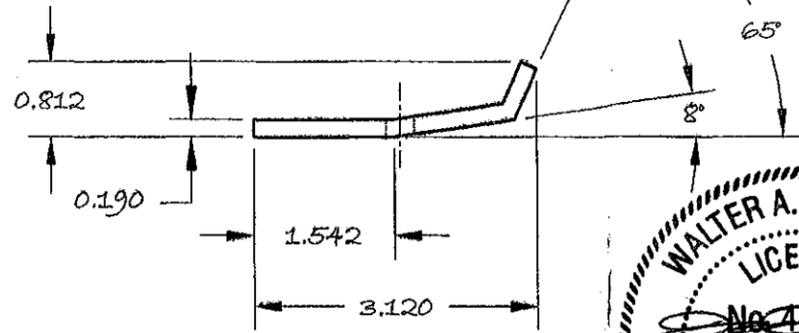
22
11 FRAME GASKET
SCALE: FULL



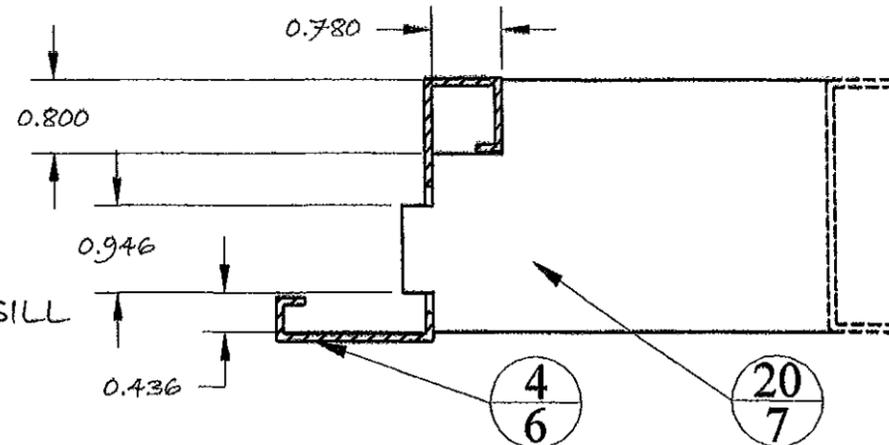
23
11 COMPRESSION GASKET
SCALE: 10X



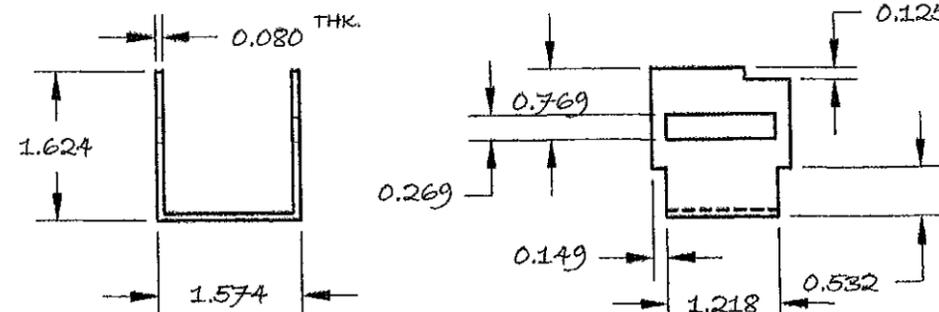
26
11 RETENTION CLIP
SCALE: HALF



X
11 SUBFRAME CONNECTION TO FRAME



Y
11 LOWER FRAME SILL TO FRAME JAMB CONNECTION



25
11 ADJ RETENTION CLIP HOUSING
SCALE: 1/2

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FLORIDA Lic. # 44167

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2179 N POWER LINE ROAD
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POMPANO BEACH, FL 33069
TELEPHONE: 954-971-4747
FAX: 954-971-4925

MODEL: EX3 USA
OUTSWING DOOR
LARGE MISSILE
IMPACT RESISTANT
DRAWING: DETAILS
SCALE: NONE
DRAWN BY: KP, RE.A.G.
DATE DWN: OLD 11-037 02/29/12

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Expiration Date ALL 20/2016
Walter A. Tillit Jr.
Tiliteco Inc. Product Control

12-060
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SHEET 11 OF 11