

## **NOTICE OF ACCEPTANCE (NOA)**

**Moore Custom Woodworking Inc.  
10046 Bavaria Road  
Fort Myers, FL. 33913**

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Section and accepted by the Board of Rules and Appeals (BORA) 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. BORA 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: "Impact" Series Outswing Opaque Wood Doors-L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **NOA-O2010**, titled "NOA Impact series Outswing Opaque Doors" Sheets 1 through 08 of 08, dated 1/14/11 with revision #1, prepared by Liebl & Barrow Structural Engineering, signed and sealed by Brian Liebl, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

### **MISSILE IMPACT RATING: Large Missile Impact Resistant**

#### **Limitation:**

1. Min Wood species to be used is Sapele (S.G.=0.55 & E= 1, 700, 000 psi) or better and only for Jambs min Poplar (S.G.=0.42 & E= 1, 580, 000 psi) or better
2. See sheet 1 for Design pressure ratings based on hardware option I or II

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise 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 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 10-0706.02**

**Expiration Date: February 24, 2016**

**Approval Date: February 24, 2011**

**Page 1**

2/11/11

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's parts drawings and sections
2. Drawing No. **NOA-O2010**, titled "NOA Impact series Outswing Opaque Doors" Sheets 1 through 08 of 08, dated 1/14/11 with revision #1, prepared by Liebl & Barrow Structural Engineering, signed and sealed by Brian Liebl, P.E.

**B. TESTS**

1. Test report 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 and TAS 202-94

Along with the manufacturers' parts drawings, installation diagram and marked-up drawings of opaque/glazed outswing wood doors prepared by Architectural Testing, Inc., Test Report No. **99385.01-401-18** dated 05/28/10, signed and sealed by Joseph A. Reed, P.E.

Note: The test report was revised & reissued on 11/11/10, signed and sealed by Joseph A. Reed, P.E.

2. Additional verification test report No. **99385.02-401-18**, dated 11/23/10 per TAS 201 & 202-94, issued by Architectural Testing, signed by Shawn G. Collins, P. E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, prepared by Liebl & Barrow Structural Engineering, dated 06/28/10 and last revised on 12/10/10, signed and sealed by Brian Liebl, P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building and Neighborhood Compliance Department (BNC).

**E. MATERIAL CERTIFICATIONS**

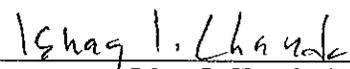
1. None.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2007 and statement of no financial interest dated 06/28/10 as part of evaluation report, prepared, signed and sealed by Brian Liebl, P.E.
2. Statement of lab compliance, as part of above referenced test reports

**G. OTHER**

1. Test proposal dated 09/21/10, approved by BCCO.



Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 10-0706.02

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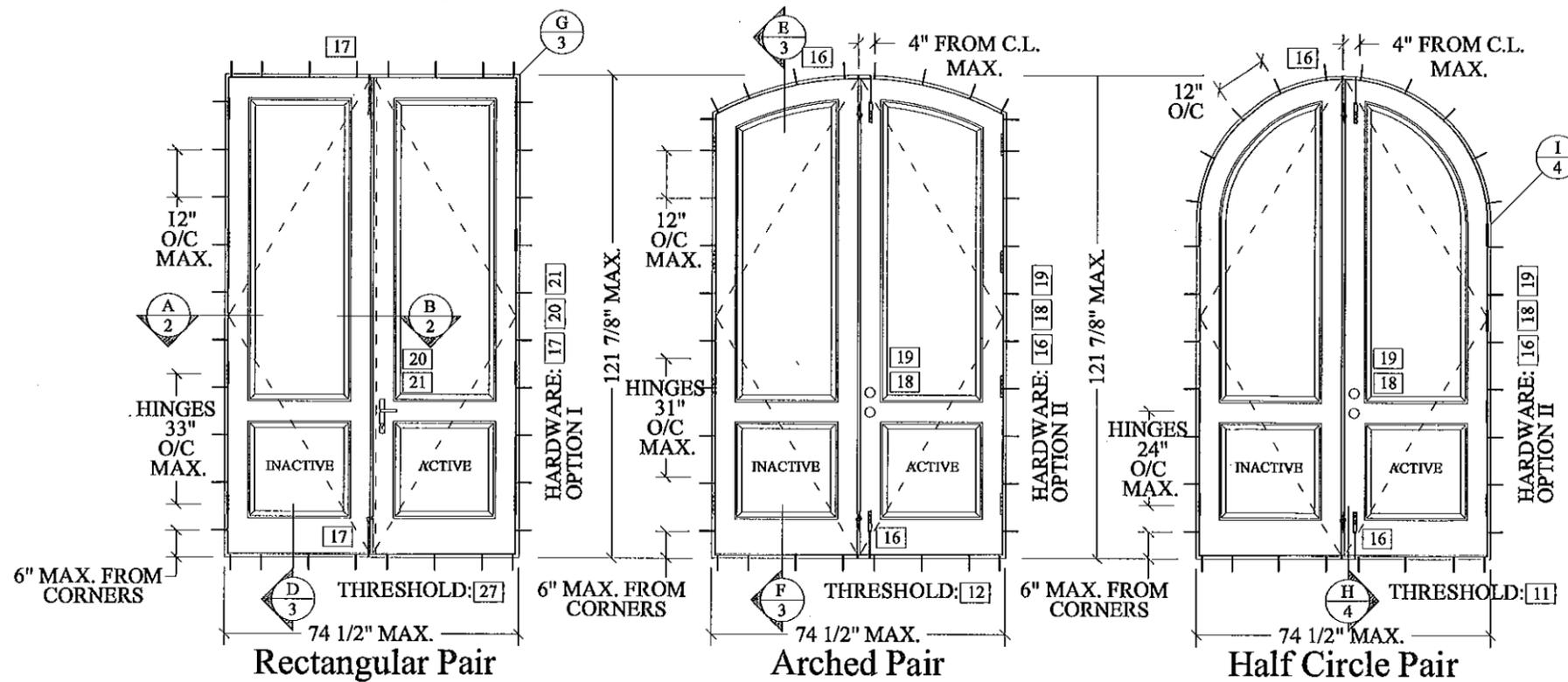
DESIGN PRESSURE RATING		IMPACT RATING
Option I Multipoint Hardware	Option II Regular Hardware	
Positive	+62 PSF	Large and Small Missile Impact
Negative	-55 PSF	

OPTION I: HOPPE 3-POINT LOCK ACTIVE  
IVES FLUSH BOLT INACTIVE

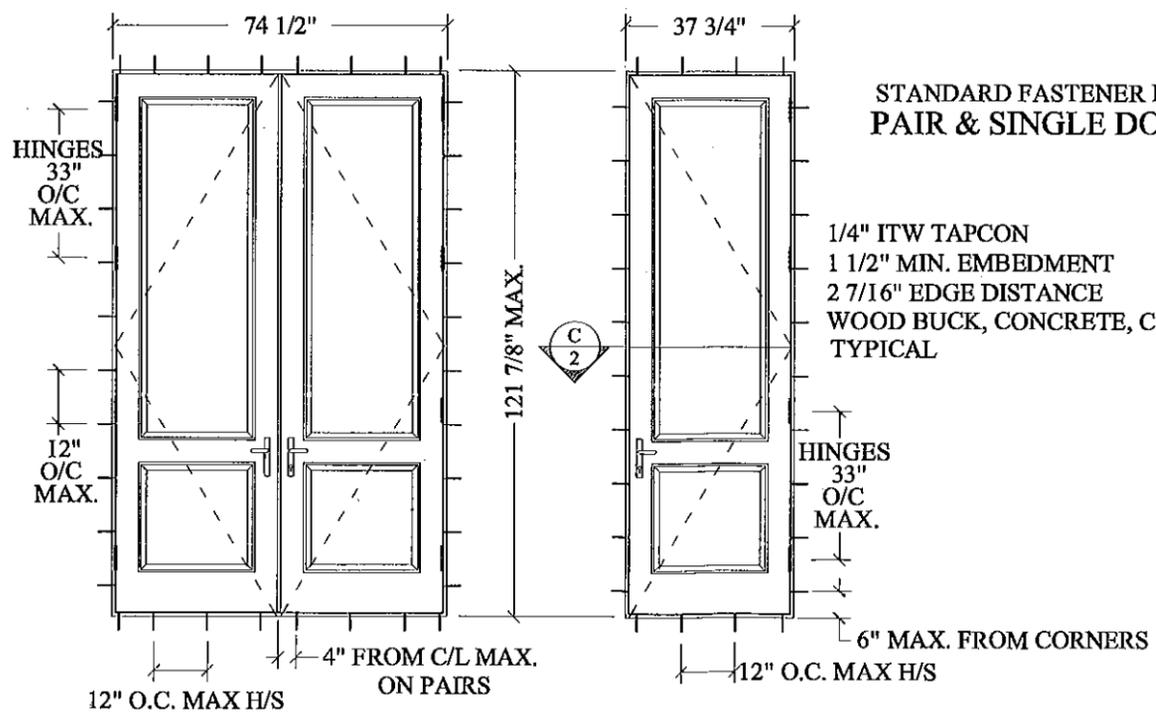
OPTION II: KWIKSET HANDLE w/ 780 DEADBOLT AND  
DELTANA FLUSH EXTENSION BOLTS ACTIVE  
DELTANA FLUSH EXTENSION BOLTS INACTIVE

## NOA IMPACT SERIES OUTSWING OPAQUE DOORS

All Units Are Out Swing Exterior Views



### TESTED SPECIEMENS



#### STANDARD FASTENER LOCATIONS PAIR & SINGLE DOOR UNIT

- 1/4" ITW TAPCON
- 1 1/2" MIN. EMBEDMENT
- 2 7/16" EDGE DISTANCE
- WOOD BUCK, CONCRETE, CMU (Grout Filled)
- TYPICAL

Approved as complying with the  
Florida Building Code  
Date 2/24/11  
NOA# 10-0706-02  
Miami Dade Product Control  
By Isiah I. Chant

#### APPROVED SHAPES:

- OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & ARE CONSTRUCTED AS DESCRIBED IN THESE DRAWINGS.
- ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR TEST UNIT & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE HARDWARE OPTIONS.

#### APPROVED SIZES:

- SIZES MAY RANGE AS PERMITTED BY FBC FROM:
- SINGLE DOOR:  
WIDTH UP TO 3/0 HEIGHT UP TO 10/0
  - DOOR PAIRS (EACH DOOR):  
WIDTH UP TO 3/0 HEIGHT UP TO 10/0

#### GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE (FBC) WITH 2009 AMENDMENTS INCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ).
- BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- ALL HARDWARE AND FASTENERS MUST BE IN ACCORDANCE WITH THESE DRAWINGS AND MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
- IMPACT SHUTTERS ARE NOT REQUIRED FOR THESE DOORS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER TO VERIFY THE FOLLOWING:
  - THE STABILITY OF THE STRUCTURE WHERE THE UNIT IS TO BE ATTACHED
  - THE SITE SPECIFIC PROJECT CRITERIA SUCH AS LOCAL BUILDING CODE REQUIREMENTS & DESIGN PRESSURES
  - THAT THIS APPROVAL IS ADEQUATE FOR THE PROJECT

**NOA Impact Series**  
Solid Hardwood Outswing Doors

Manufacturer:  
**Moore Custom Woodworking, Inc.**  
10046 Bavaria Rd. Fort Myers, FL 33913  
Ph: (239) 277-0360 Fax: (239) 277-0892

#### Engineering:

**LIEBL & BARROW**  
Structural Engineering

C.A. #00008053  
10970 S. CLEVELAND AVE., #105  
FORT MYERS, FLORIDA 33907  
239-936-7557 PHONE  
239-936-6817 FAX  
LieblAndBarrow.com  
info@LieblAndBarrow.com

#### Certification:



The seal appearing on this document was authorized by  
Brian Liebl, P.E.  
# FL 43087 on 01-13-11

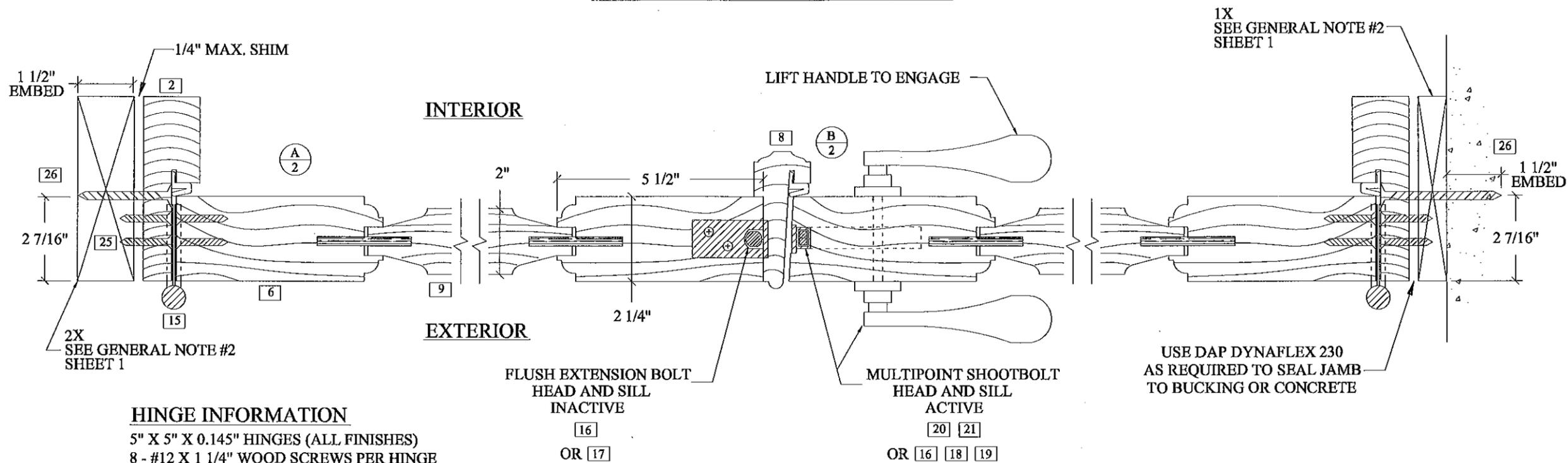
General Revision #1  
01/06/11

Drawing #: NOA-O2010

Date: 06/24/10

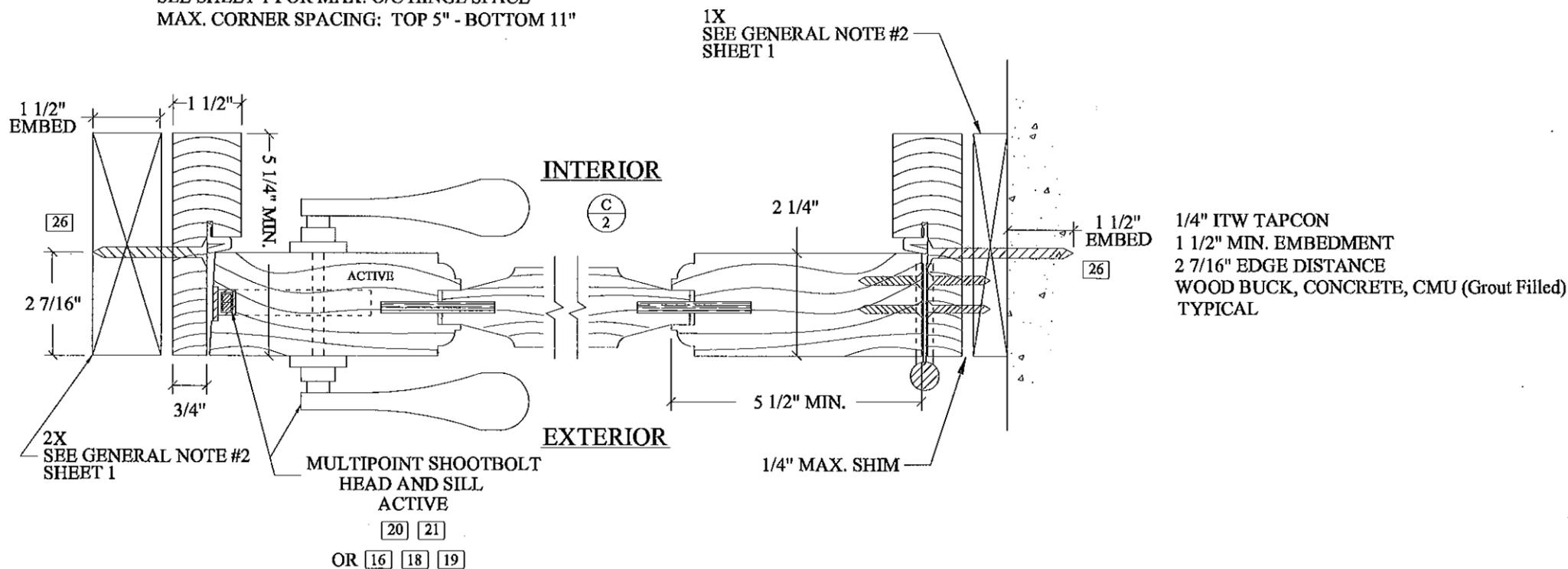
Sheet  
1 of 8

# HORIZONTAL SECTIONS



## HINGE INFORMATION

5" X 5" X 0.145" HINGES (ALL FINISHES)  
 8 - #12 X 1 1/4" WOOD SCREWS PER HINGE  
 DOOR HEIGHT 80" TO 90" - 3 HINGES  
 DOOR HEIGHT 90" TO 120" - 4 HINGES  
 SEE SHEET 1 FOR MAX. O/C HINGE SPACE  
 MAX. CORNER SPACING: TOP 5" - BOTTOM 11"



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 By Ighas I. Chaudhry

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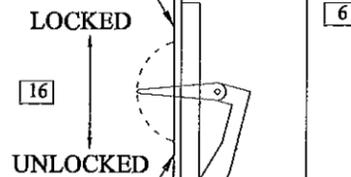
Sheet  
 2 of 8



# FLUSH EXTENSION BOLT

(2) ACTIVE DOOR FACE  
(2) INACTIVE DOOR EDGE

LOCK LOCATED ON FACE OF LOCKING ACTIVE STILE TOP AND BOTTOM OF DOOR

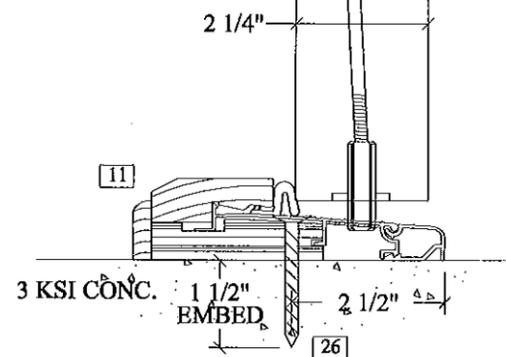


DELTANA

FLUSH EXTENSION BOLTS WITH STANDARD HANDLESET AND DEADBOLT OPTION

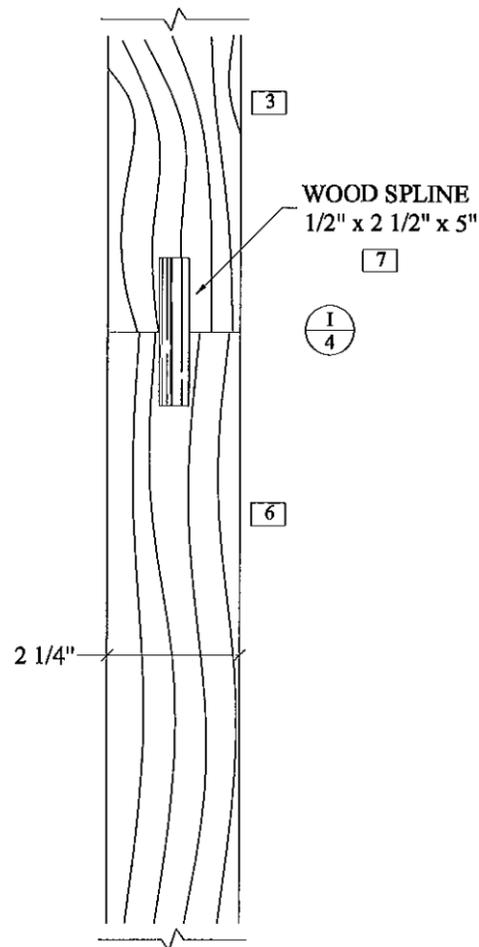
INTERIOR

EXTERIOR



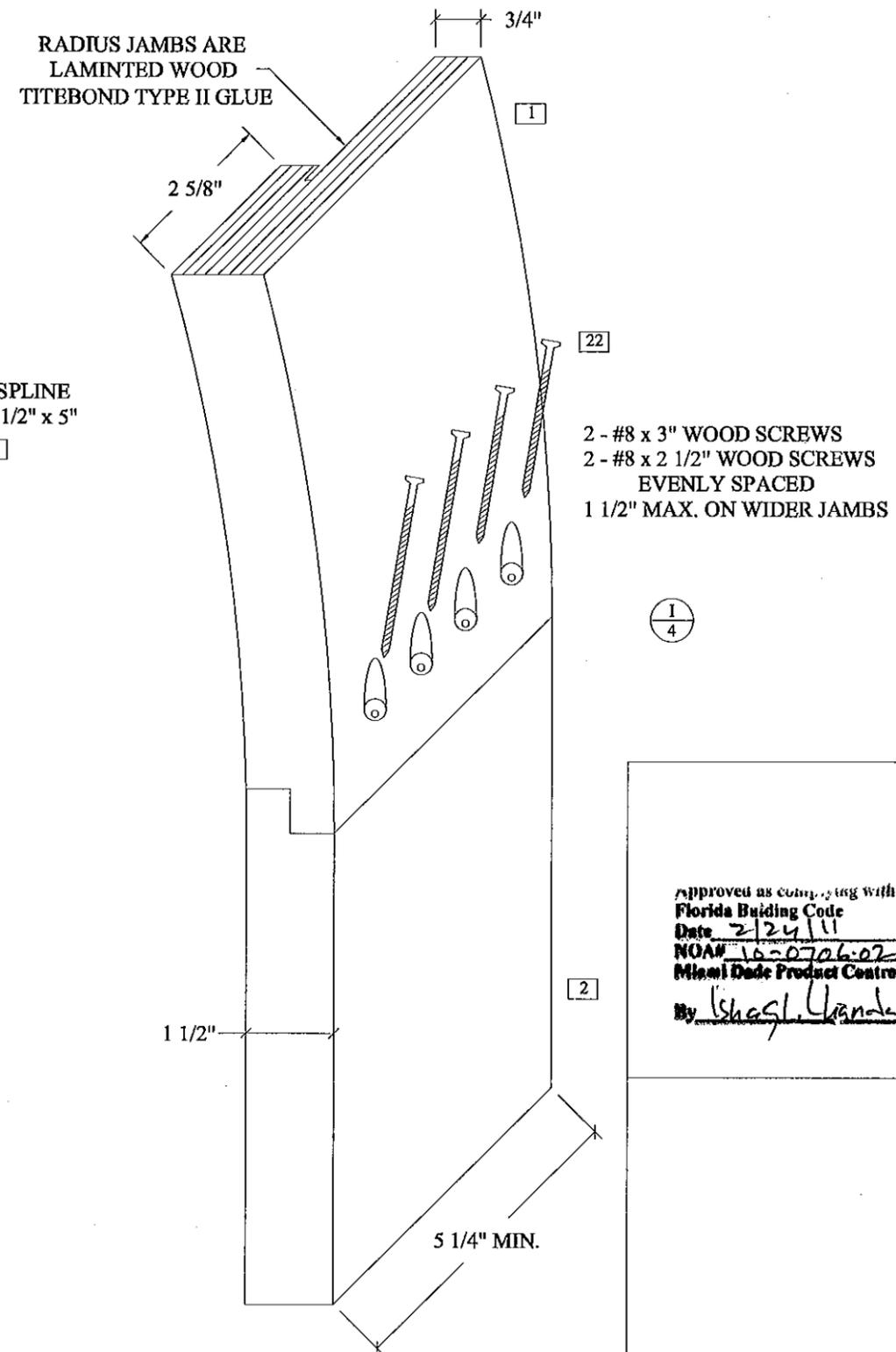
# DOOR CONSTRUCTION

STILE TO CIRCLE TOP RAIL



# JAMB CONSTRUCTION

JAMB LEG TO CIRCLE TOP HEADER



2 - #8 x 3" WOOD SCREWS  
2 - #8 x 2 1/2" WOOD SCREWS  
EVENLY SPACED  
1 1/2" MAX. ON WIDER JAMBS

1/4

Approved as comp. with the  
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Miami Dade Product Control  
By Shag L. Grande

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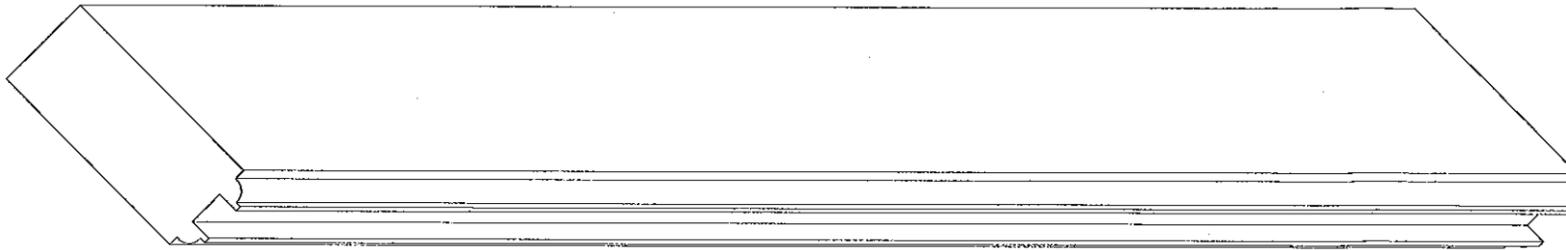
Sheet  
4 of 8

## DOOR CONSTRUCTION

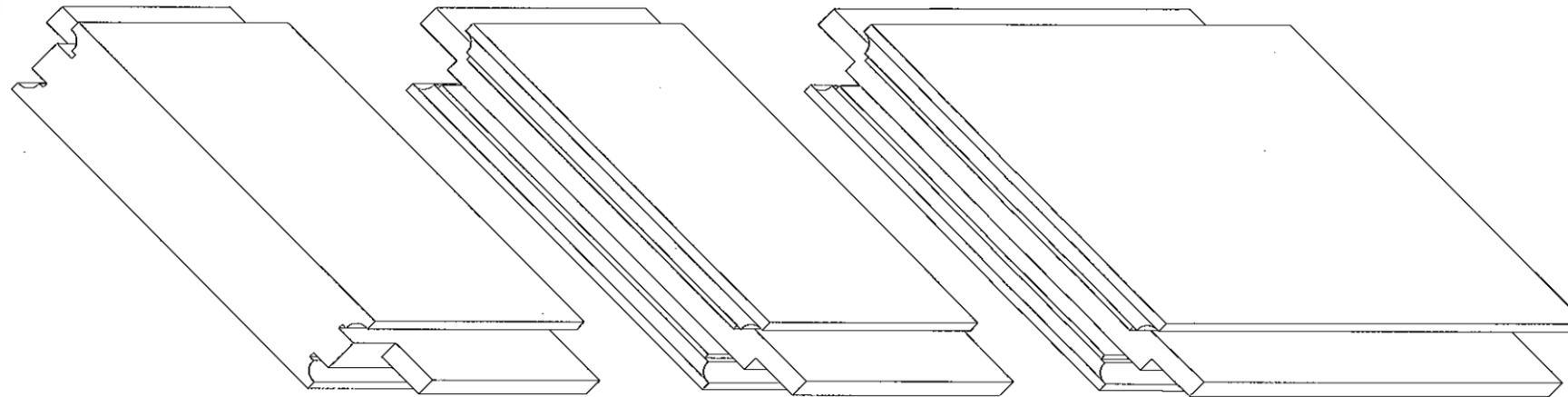
ALL STILE TO RAIL JOINTS ARE BLIND MORTISE AND TENON WITH A MORTISE IN THE STILE AND TENON ON THE RAIL  
 MORTISE DEPTH: 2"  
 TENON LENGTH: 1 3/4"

ALL JOINTS ARE GLUED USING A UREA FORMALDAHYDE (UF) RESIN

ALL PANELS ARE SPLINED INTO THE STYLE AND RAILS



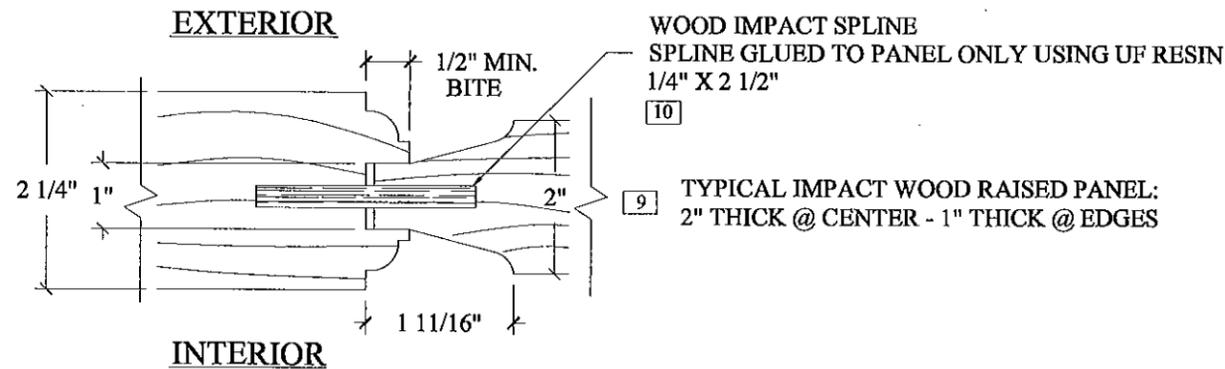
**SOLID SAPELE STILE - 5 1/2" MIN. [6]**



**SOLID SAPELE TOP RAIL - 5 1/2" MIN. [3]**

**SOLID SAPELE LOCK RAIL - 5 1/2" MIN. [4]**

**SOLID SAPELE BOTTOM RAIL - 9 1/2" MIN. [5]**



**IMPACT PANEL DETAIL**

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 By Bhagy J. Chandra

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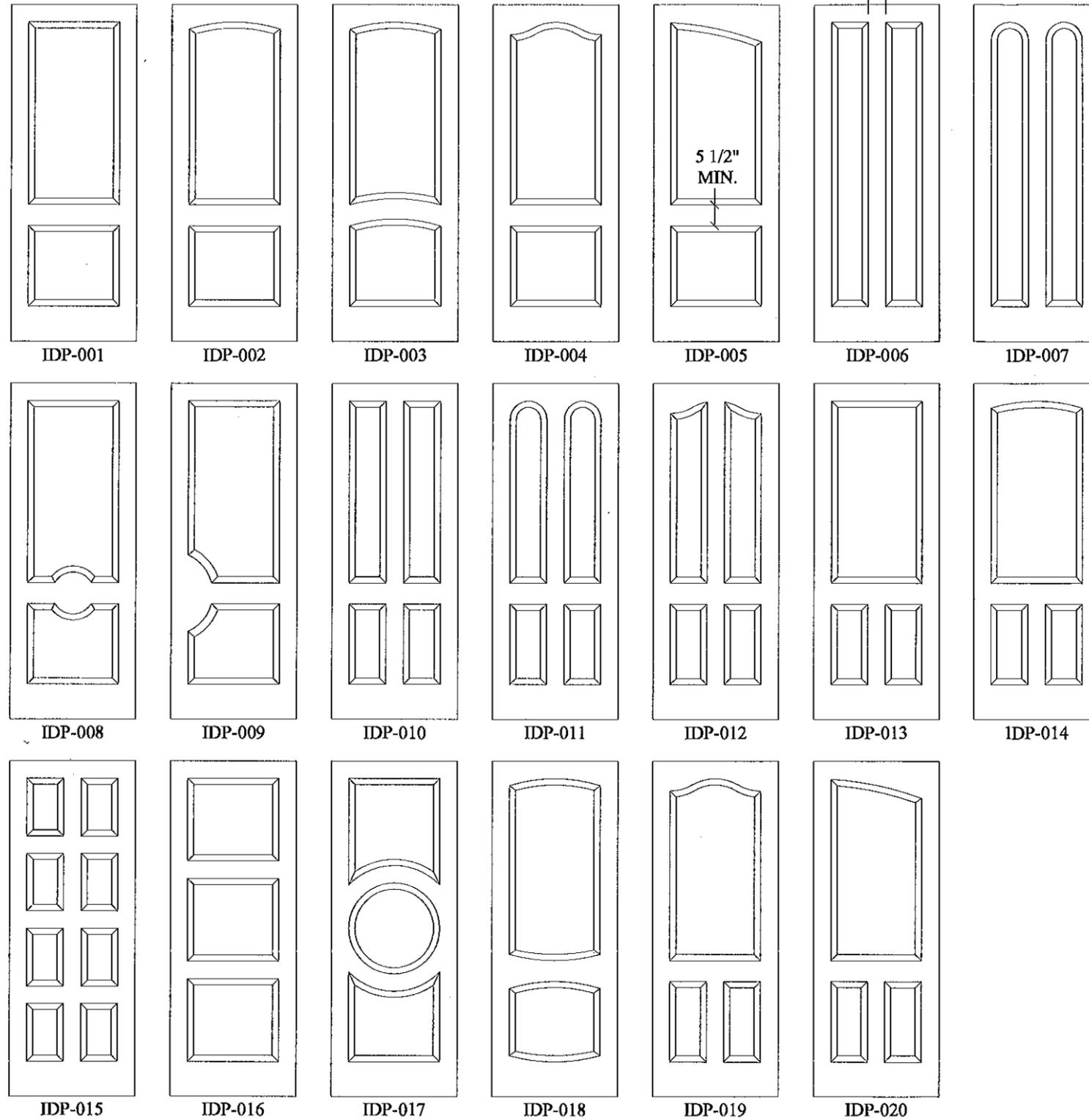
General Revision #1  
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Date: 06/24/10

**Sheet**  
**5 of 8**

MAX. SINGLE DOOR WIDTH: 36"  
MAX. SINGLE DOOR HEIGHT: 120"



**DOOR DETAILS**

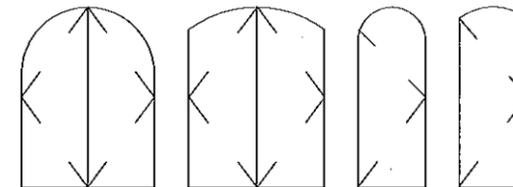
DOORS ARE SHOWN AS 3/0 X 8/0  
TYPICAL IMPACT WOOD RAISED PANEL  
2" THICK @ CENTER - 1" THICK @ EDGES  
ALL WOOD JOINTS ARE ASSEMBLED USING A  
UF RESIN OR TITEBOND TYPE II GLUE

SEE PAGE 1 FOR DESIGN PRESSURE AND  
HARDWARE INFORMATION

**DOOR DESIGNS**

DOOR MODELS MAY VARY IN SHAPE AND STYLE UNDER THE  
FOLLOWING CONDITIONS: (NOT TO EXCEED TESTED SIZE)

1. DOORS MUST HAVE SIMILAR CONSTRUCTION TO THOSE DESCRIBED IN THESE DRAWINGS
2. OTHER DOOR SHAPES APPLY AS LONG AS THEY FIT INSCRIBED INTO THE TEST DOORS
3. DOOR PANELS AND LITES MAY BE CHANGED AS LONG AS THEY ARE SMALLER THAN THE TEST SPECIMENS (SEE SHEET 1)



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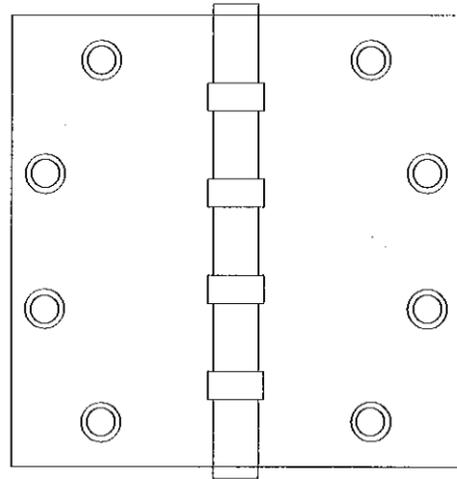
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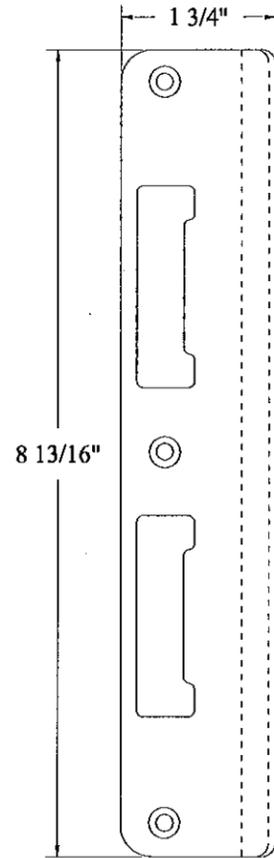
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**Sheet**  
**6 of 8**

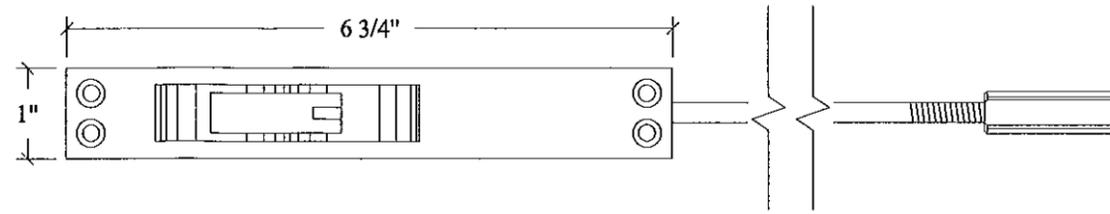
SCALE: 1/2" = 1"



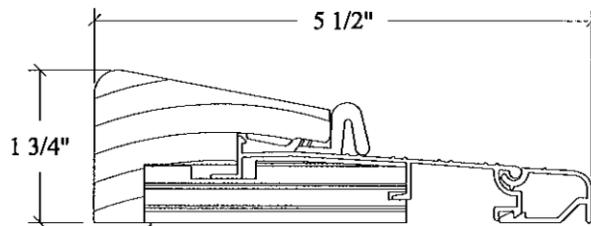
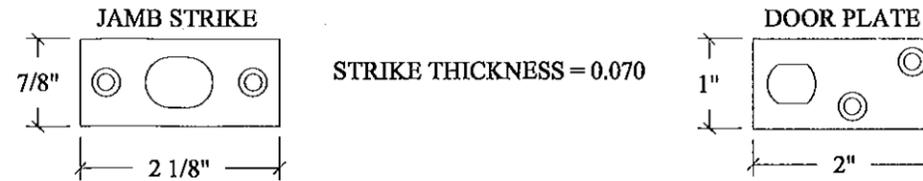
[15] 5" x 5" BRASS BALL BEARING HINGE



[20] MULTIPOINT STRIKE

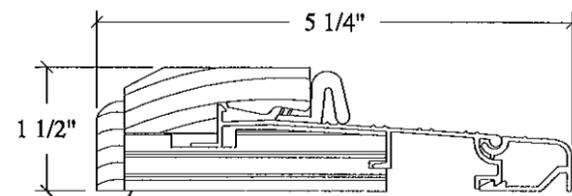


[16] FLUSH EXTENSION BOLT AND STRIKES



[27] OUTSWING THRESHOLD

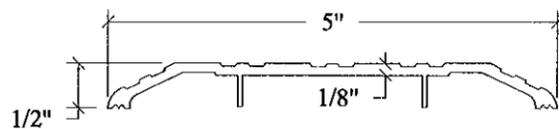
Composite Plastic Fes Min. = 9500 psi



[11] OUTSWING THRESHOLD

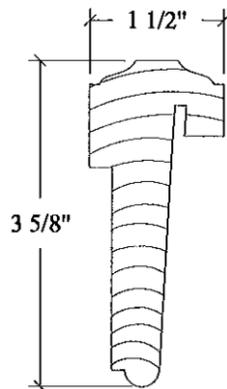
FOR USE WHERE WATER REQUIREMENT IS NOT NEEDED

Composite Plastic Fes Min. = 9500 psi

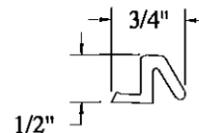


[12] ADA SADDLE THRESHOLD

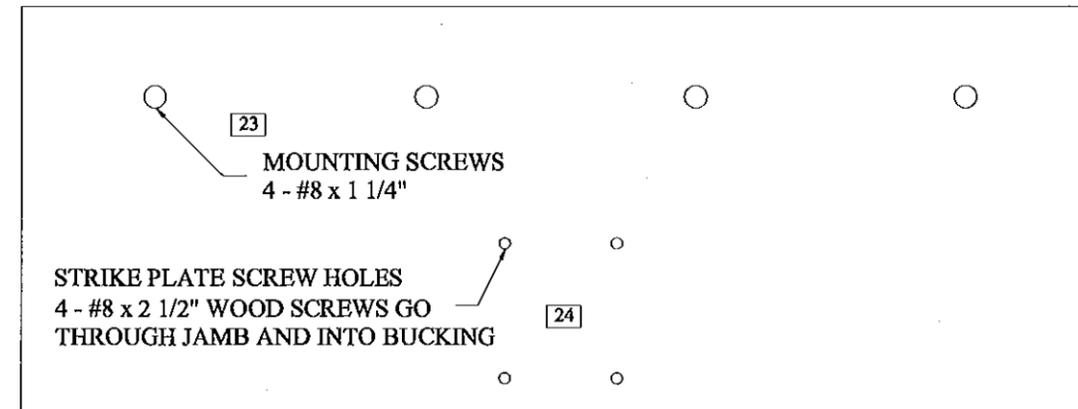
FOR USE WHERE WATER REQUIREMENT IS NOT NEEDED



[8] T-ASTRAGAL



[13] WEATHER STRIP



[18] 18 GA. 4 1/2" X 12" STEEL PLATE

LOCATION: CENTERED ON PAIRS / FOLED OVER LOCKING EDGE ON SINGLE

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Date: 06/24/10

Sheet  
7 of 8

# MATERIAL LIST

ITEM #	QTY	PART DESCRIPTION	SIZE	MATERIAL REMARKS
1	1	JAMB HEADER	1 1/2" x 5 1/4" MIN.	HARDWOOD** LENGTH VARIES
2	2	JAMB LEGS	1 1/2" x 5 1/4" MIN.	HARDWOOD** LENGTH VARIES
3	2	DOOR TOP RAIL	2 1/4" x 5 1/2" MIN.	HARDWOOD* LENGTH VARIES
4	2	DOOR LOCK RAIL	2 1/4" x 5 1/2" MIN.	HARDWOOD* LENGTH VARIES
5	2	DOOR BOTTOM RAIL	2 1/4" x 9 1/2" MIN.	HARDWOOD* LENGTH VARIES
6	4	DOOR STILE	2 1/4" x 5 1/2" MIN.	HARDWOOD* LENGTH VARIES
7	2	RAIL SPLINE	3/4" x 2 1/2" x 5"	HARDWOOD* CIRCLE TOP ONLY
8	1	T-ASTRAGAL	1 1/2" x 3 5/8"	HARDWOOD* LENGTH VARIES
9	4	RAISED PANEL	2" MIN.	HARDWOOD* LENGTH/WIDTH VARIES
10	AS REQUIRED	IMPACT SPLINE	1/4" x 2 1/2"	HARDWOOD* SURROUNDING PANELS
11	1	THRESHOLD	1 1/2" x 5 1/4"	WORLD WIDE DOOR 99-2340 / WATER REQ. NOT NEEDED
12	1	ALUMINUM THRESHOLD	1/2" x 5"	WORLD WIDE DOOR 99-9750 / ADA / WATER REQ. NOT NEEDED
13	AS REQUIRED	WEATHER STRIP	3/4" x 1/2"	QLON QDS-650
14	1	STEEL PLATE	4 1/2" x 12"	18 GA. SAE 1060 OR STRONGER
15	AS REQUIRED	HINGES	5" x 5" x 0.145"	DELTANA / SEE PG. 2 FOR MORE INFORMATION
16	4	FLUSH EXTENSION BOLT	1" x 6 3/4"	DELTANA 2 EA. INACTIVE DOOR 2 EA. ACTIVE DOOR (HW. OPTION II)
17	2	FLUSH EXTENSION BOLT	1" x 6 3/4"	IVES 2 EA. INACTIVE DOOR (HW. OPTION I)
18	1	KWIKSET HANDLESET	VARIES	ANSI GRADE 3 MIN. (HW. OPTION II)
19	1	KWIKSET 780 DEADBOLT	VARIES	ANSI GRADE 2 MIN. (HW. OPTION II)
20	1	MULTIPOINT HARWARE	VARIES	HOPPE 3 POINT SHOOTBOLT MIN. (HW. OPTION 1)
21	1	MULTIPOINT HANDLESET	VARIES	MANUFACTURES VARY
22	AS REQUIRED	JAMB SCREWS	#8 x 2 1/2" TO 3"	STEEL / ZINC PLATED SEE PG. 3-4 FOR MORE INFORMATION
23	4	STEEL PLATE MOUNTING SCREWS	#8 x 1 1/4"	STEEL / ZINC PLATED
24	4	STRIKE PLATE MOUNTING SCREWS	#8 x 2 1/2"	STEEL
25	8 PER HINGE	HINGE SCREWS	#12 x 1 1/4"	BRASS OR STEEL TO MATCH HINGE
26	AS REQUIRED	INSTALLATION SCREWS	1/4" ITW TAPCON	LENGTH REQUIRED FOR 1 1/2" EMBEDMENT
27	1	THRESHOLD	1 3/4" x 5 1/4"	WORLD WIDE DOOR 99-2340 w/ MODIFIED CAP

\*WOOD SPECIES OF EQUAL OR GREATER DENSITY MAY BE SUBSTITUTED FOR ALL WOOD COMPONENTS (SAPELE USED)  
 \*\*POPLAR USED FOR DOOR JAMBS

	SAPELE (Wood Components)	POPLAR (Jamb Use Only)
MIN. SPECIFIC GRAVITY	0.55 (or greater)	0.42 (or greater)
MIN. MODULUS OF ELASTICITY	1.7 x 10 <sup>6</sup> psi	1.58 x 10 <sup>6</sup> psi

Approved as complying with the Florida Building Code  
 Date: 2/24/11  
 NOA# 10-0206-02  
 Miami Dade Product Control  
 By: Ishag I. Ghaide

**NOA Impact Series**  
 Solid Hardwood Outswing Doors

Manufacturer:  
**Moore Custom Woodworking, Inc.**  
 10046 Bavaria Rd. Fort Myers, FL 33913  
 Ph: (239) 277-0360 Fax: (239) 277-0892

Engineering:

**LIEBL & BARROW**  
 Structural Engineering

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 10970 S. CLEVELAND AVE., #105  
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Certification:



The seal appearing on this document was authorized by  
 Brian Liebl, P.E.  
 # FL 43087 on 01-13-11

General Revision #1  
 01/06/11

Drawing #: NOA-O2010

Date: 06/24/10

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