



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908  
www.miamidade.gov/buildingcode**

**NOTICE OF ACCEPTANCE (NOA)**

**Tischler Und Sohn (USA) Ltd.  
Six Suburban Avenue  
Stamford, Ct. 06901**

**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 Division 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 Division (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 Division 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: Tischler series Inswing Impact Wood Panel Doors-L.M. Impact**

**APPROVAL DOCUMENT:** Drawing No.1617, titled "In-Swing Impact Wood Panel Doors", sheets 1 through 19 of 19, dated APR 22, 2009, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, 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 Division.

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

**Limitation:**

1. MDF material: Medite Exterior MDF panel EN 622 Type MDF-H2
2. For reinforcement requirements see sheet 8 & glass options on sheet 11.
3. Lower design pressure shall control when doors mulled with Tishler's sidelites or transom.

**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 consists of this page 1 and evidence page, as well as approval document mentioned above.

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



**NOA No 09-0212.06  
Expiration Date: May 27, 2014  
Approval Date: May 27, 2009  
Page 1**

5/16/09

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's parts and sections drawings.
2. Drawing No.1617, titled "In-Swing Impact Wood Panel Doors", sheets 1 through 17 of 17, dated APR 22, 2009, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

**B. TESTS**

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 and TAS 202-94

Along with installation diagram of Single & Double Outswing / Inswing, Tilt/Turn Mahogany Wood French doors w / wo Sidelite & Transom, w/ MDF & wood Veneered Panels and different shapes top, prepared by Architectural Testing, Test Report(s) No. **ATI 77326.01-109-18**, dated 02/03/09 and **ATI 77327.01-109-18**, dated 02/202/09, both signed and sealed by Michael D. Stremmel, P.E.

2. Additional test report: ATI 77324.01-109.18 (specimen A3-1 & A3-7) issued by Architectural Testing per TAS 201, 202 and 203-94.

**C. CALCULATIONS:**

1. Anchor Calculations and structural analysis dated 02/09/09 and 04-22-09, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed & sealed by Warren Schaefer, P.E.

**D. QUALITY ASSURANCE BY:**

1. Miami-Dade County Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. Test report No. ATI-86006.01-106-18 (Rev 2) dated 12/12/08 and ATI-86006.02-106-18 02/05/09 for "Durability of Wood-Based Composite Lumber and panels" per ASTM ASTM D-1761 and ASTM D-4761, issued by Architectural Testing Lab.

**F. STATEMENTS**

1. Letter of conformance to FBC 2007 & "No financial interest" dated February 09, 2009, signed and sealed by Warren Schaefer, P.E.
2. Laboratory Statement of compliance, part of the test reports.
3. E-mail statement dated 03/31/09, issued by Michael D. Stremmel, P.E. of Architectural testing in reference to low sill, water infiltration test.

**F. OTHER**

1. Test proposal # **07-3533** dated Oct 22, 2007, approved by BCCO.
2. Distribution agreement between Tischler Und Sohn (USA) and Tischler/Cornelius Korn GmbH, Germany, signed by Tim Carpenter & Wilhelm Korn, respectively.
3. Tischler's Fixed Casement windows NOA(s) w/ Drawing No. **1514** or **1534**.

*Ishaq I. Chanda*  
Ishaq I Chanda, P.E.

Product Control Examiner  
NOA No 09-0212.06

Expiration Date: May 27, 2014  
Approval Date: May 27, 2009

| LOCK STRIKE REQUIREMENTS (TOP OF PANEL) |                    |
|---|--------------------|
| PANEL WIDTH                             | QUANTITY PER PANEL |
| RECTANGULAR PANEL                       |                    |
| ALL WIDTHS                              | 2                  |
| ARCH & ROUND TOP PANEL                  |                    |
| OVER 32"                                | 3                  |
| 28" TO 32"                              | 2                  |

| (1) LOCK STRIKE REQUIREMENTS (BOTTOM OF PANEL)   |                    |
|--|--------------------|
| PANEL WIDTH  | QUANTITY PER PANEL |
| ALL PANEL SHAPES   |                    |
| ALL WIDTHS   | 2                  |
| (1) WHEN ADA SILL IS USED WITH DOUBLE DOORS, ONLY THE KJV LOCK SYSTEM MAY BE USED. WHEN ADA SILL IS USED WITH A SINGLE DOOR, BOTH THE KJV & SIEGENIA LOCK SYSTEMS APPLY BUT DO NOT REQUIRE SILL STRIKES. |                    |

| LOCK STRIKE REQUIREMENTS (LOCK SIDE OF PANEL)   |                    |
|---|--------------------|
| (1) PANEL HEIGHT  | QUANTITY PER PANEL |
| ALL PANEL SHAPES  |                    |
| OVER 96"  | 4                  |
| 76" TO 96"  | 3                  |
| (1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS |                    |

| (1) LOCK STRIKE REQUIREMENTS (HINGE SIDE OF TILT-TURN DOORS)  |                    |
|---|--------------------|
| (2) PANEL HEIGHT  | QUANTITY PER PANEL |
| ALL PANEL SHAPES  |                    |
| ALL HEIGHTS   | 3                  |
| (1) WHEN DOOR IS TILT-TURN, ONLY 2 HINGES ARE USED COMBINED WITH LOCK POINTS. WHEN DOOR IS SWING ONLY, ONLY HINGES EXIST.                                 |                    |
| (2) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS |                    |

| HINGE REQUIREMENTS  |                    |
|---|--------------------|
| (1) PANEL HEIGHT  | QUANTITY PER PANEL |
| POT HINGES  |                    |
| OVER 99"  | 5                  |
| 76" TO 99"  | 4                  |
| SCREWED-IN HINGES   |                    |
| OVER 99"  | 5                  |
| 76" TO 99"  | 4                  |
| (1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS |                    |

| HINGE REQUIREMENTS (TILT-TURN DOORS) |  |
|--------------------------------------|--|
| 2 PER DOOR (ALL SIZES OF ALL DOORS)  |  |

- GENERAL NOTES:**
- THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
  - OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
  - ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
  - THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
  - THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
  - IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
  - ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
  - DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
  - NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
  - MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
  - ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

**FRAME ANCHOR REQUIREMENTS TABLE**

| OPENING TYPE (SUBSTRATE)                          | FRAME/SILL/CLIP/BACKET TO OPENING FASTENER TYPE | MINIMUM EMBED | MINIMUM EDGE DIST. |
|---|---|---------------|--------------------|
| FRAME/SILL SCREWS                                 |   |               |                    |
| MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW         | 1 1/4"        | 3/4"               |
| MIN. 18 GA. 33 KSI METAL STUD                     | (2) 1/4-14 SELF TAP/DRILLING SCREW              | FULL          | 1/2"               |
| MIN. 1/8" THK A36 STEEL                           | (2) 1/4-14 SELF TAP/DRILLING SCREW              | FULL          | 1/2"               |
| MIN. 1/8" THK 6063-T5 ALUM.                       | (2) 1/4-14 SELF TAP/DRILLING SCREW              | FULL          | 1/2"               |
| C-90 CMU/2500 PSI CONCRETE                        | (1) 1/4" CONCRETE SCREW                         | 1 1/4"        | 2"                 |
| INSTALLATION CLIP SCREWS                          |   |               |                    |
| MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 12 X 1 1/2" SMS                             | 1 3/8"        | 3/4"               |
| MIN. 18 GA. 33 KSI METAL STUD                     | (2) 12-14 SELF TAP/DRILLING SCREW               | FULL          | 1/2"               |
| MIN. 1/8" THK A36 STEEL                           | (2) 12-14 SELF TAP/DRILLING SCREW               | FULL          | 1/2"               |
| MIN. 1/8" THK 6063-T5 ALUM.                       | (2) 12-14 SELF TAP/DRILLING SCREW               | FULL          | 1/2"               |
| C-90 CMU/2500 PSI CONCRETE                        | (1) 1/4" CONCRETE SCREW                         | 1 1/4"        | 2"                 |
| BTI BRACKET SCREWS                                |   |               |                    |
| MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 8 X 1 1/2" SMS                              | 1 3/8"        | 3/4"               |
| MIN. 18 GA. 33 KSI METAL STUD                     | (2) 8-18 SELF TAP/DRILLING SCREW                | FULL          | 1/2"               |
| MIN. 1/8" THK A36 STEEL                           | (2) 8-18 SELF TAP/DRILLING SCREW                | FULL          | 1/2"               |
| MIN. 1/8" THK 6063-T5 ALUM.                       | (2) 8-18 SELF TAP/DRILLING SCREW                | FULL          | 1/2"               |
| ANGLE CLIP SCREWS                                 |   |               |                    |
| MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 8 X 1 1/2" SMS                              | 1 3/8"        | 3/4"               |
| MIN. 18 GA. 33 KSI METAL STUD                     | (2) 8-18 SELF TAP/DRILLING SCREW                | FULL          | 1/2"               |
| MIN. 1/8" THK A36 STEEL                           | (2) 8-18 SELF TAP/DRILLING SCREW                | FULL          | 1/2"               |
| MIN. 1/8" THK 6063-T5 ALUM.                       | (2) 8-18 SELF TAP/DRILLING SCREW                | FULL          | 1/2"               |
| C-90 CMU/2500 PSI CONCRETE                        | (1) 3/16" CONCRETE SCREW                        | 1 1/4"        | 2"                 |

PANEL WIDTH DIMENSIONS ARE APPROXIMATELY 3" LESS THAN THE FRAME WIDTH & PANEL HEIGHT DIMENSIONS ARE APPROXIMATELY 1 3/4" LESS THAN THE FRAME HEIGHT

**ALLOWABLE DESIGN PRESSURE (SINGLE & DOUBLE OPERABLE DOORS)**

| MAX. FRAME WIDTH (IN.) | MAX. FRAME HEIGHT (IN.) | ALLOWABLE PRESSURE |                |
|------------------------|-------------------------|--------------------|----------------|
|                        |                         | POSITIVE (PSF)     | NEGATIVE (PSF) |
| SINGLE DOOR            |                         |                    |                |
| 51 1/8                 | 120                     | 70                 | 70             |
| 41 1/4                 | 99                      | 70                 | (1) 85         |
| DOUBLE DOOR            |                         |                    |                |
| 79 1/16                | 120                     | 70                 | 70             |
| 79 1/16                | 99                      | 70                 | (1)(2) 85      |

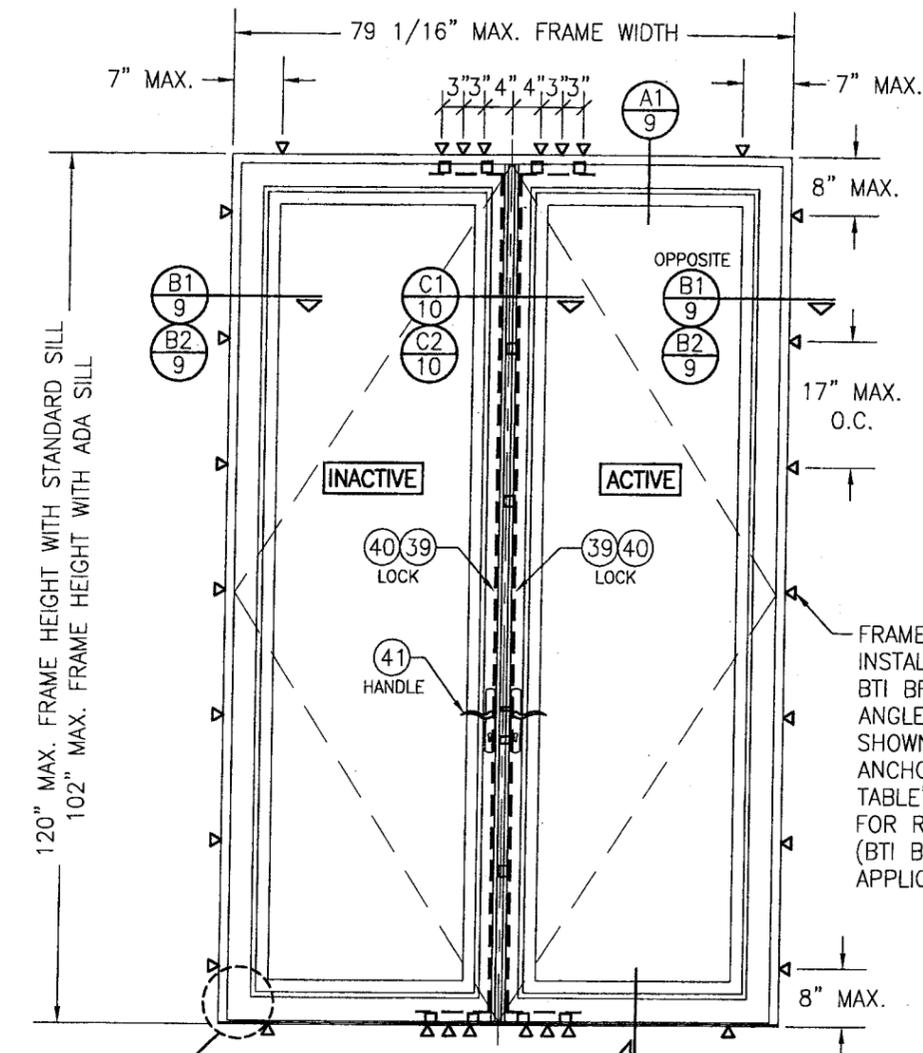
- HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH STANDARD SILL (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).
- HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH DOUBLE DOORS WHEN THE DOUBLE DOOR MEETING STILES ARE BAR REINFORCED (REF. SECTIONS).

**CORNER CONSTRUCTION:**

- RECTANGULAR FRAME CORNERS:** MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
- ARCHED FRAME CORNERS:** ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
- HALF ROUND FRAME CORNERS:** FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
- RECTANGULAR PANEL CORNERS:**
- OPTION 1** (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE 4.250" OR LESS IN OVERALL HEIGHT): MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
- OPTION 2** (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE GREATER THAN 4.250" IN OVERALL HEIGHT): MEMBERS ARE SQUARE CUT, BUTTED, JOINED WITH FIVE(5) #5/16 X 2" WOOD DOWELS, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
- ARCHED PANEL CORNERS:** ARCHED RAIL BUTTED TO STRAIGHT STILE, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
- HALF ROUND PANEL CORNERS:** FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
- SILL CORNERS:**
- ALL SILL CONDITIONS: SILL IS BUTTED TO THE JAMBS & JOINED WITH THREE(3) NO.6 X 2" WOOD SCREWS & SEALED WITH SEALANT.

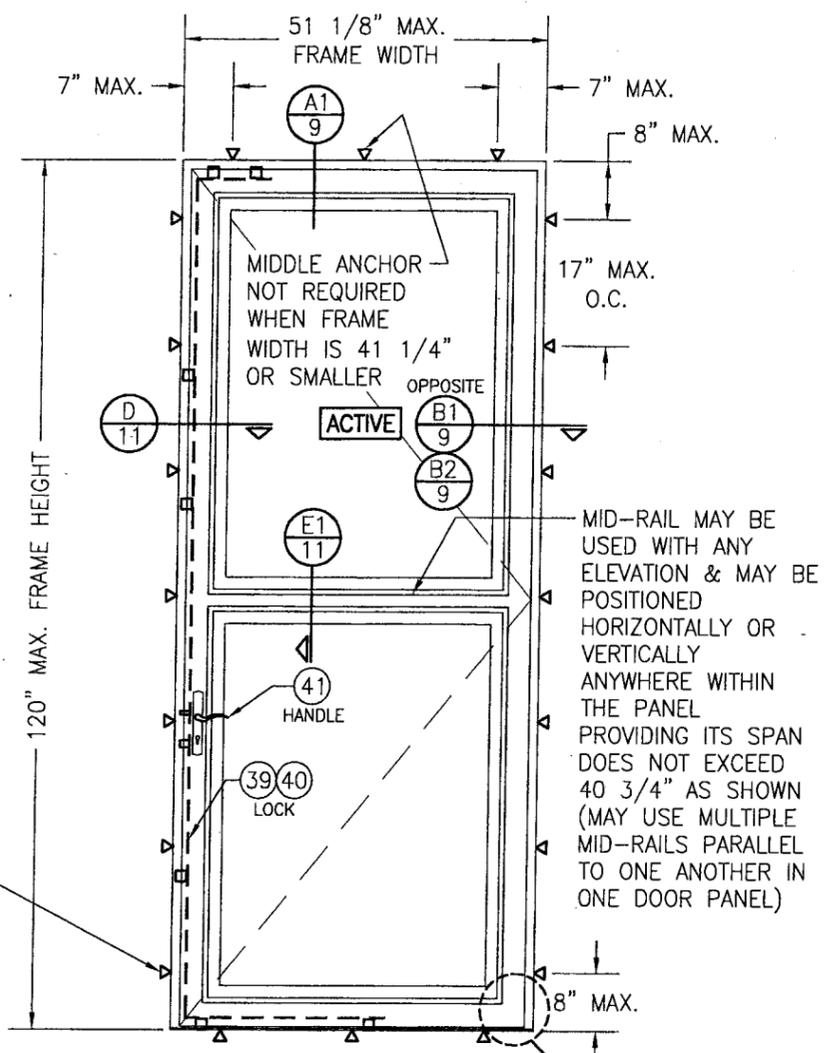
Approved as complying with the Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0212.06  
 Miami Dade Product Control Division  
 By Shay I. Claude

|   |                    |
|---|--------------------|
| DRAWN BY: W.R.M.  | CHECKED BY: W.W.S. |
| PLOT: 1=24  | DATE: 10/08/08     |
| DATE  | BY                 |
| REVISION DESCRIPTION  |                    |
| NO.   |                    |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                    |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                    |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                    |
| CERTIFICATION<br><b>APR 29 2009</b>   |                    |
| DRAWING NO.<br><b>1617</b>  | REV.               |
| SHEET NO.<br><b>1 OF 19</b>   |                    |



INTERIOR ELEVATION;  
DOUBLE RECTANGULAR DOOR  
(TURN ONLY CONDITION)

SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION;  
SINGLE RECTANGULAR DOOR  
(TURN ONLY CONDITION)

SCALE: 1/2" = 1'-0"

FRAME SCREWS,  
INSTALLATION CLIPS,  
BTI BRACKETS OR  
ANGLE CLIPS WHERE  
SHOWN. SEE "FRAME  
ANCHOR REQUIREMENTS  
TABLE" ON SHEET 1  
FOR REQUIREMENTS  
(BTI BRACKETS NOT  
APPLICABLE AT SILL).

MID-RAIL MAY BE  
USED WITH ANY  
ELEVATION & MAY BE  
POSITIONED  
HORIZONTALLY OR  
VERTICALLY  
ANYWHERE WITHIN  
THE PANEL  
PROVIDING ITS SPAN  
DOES NOT EXCEED  
40 3/4" AS SHOWN  
(MAY USE MULTIPLE  
MID-RAILS PARALLEL  
TO ONE ANOTHER IN  
ONE DOOR PANEL)

SEE "CORNER  
CONSTRUCTION"  
DESCRIPTION  
ON THIS SHEET

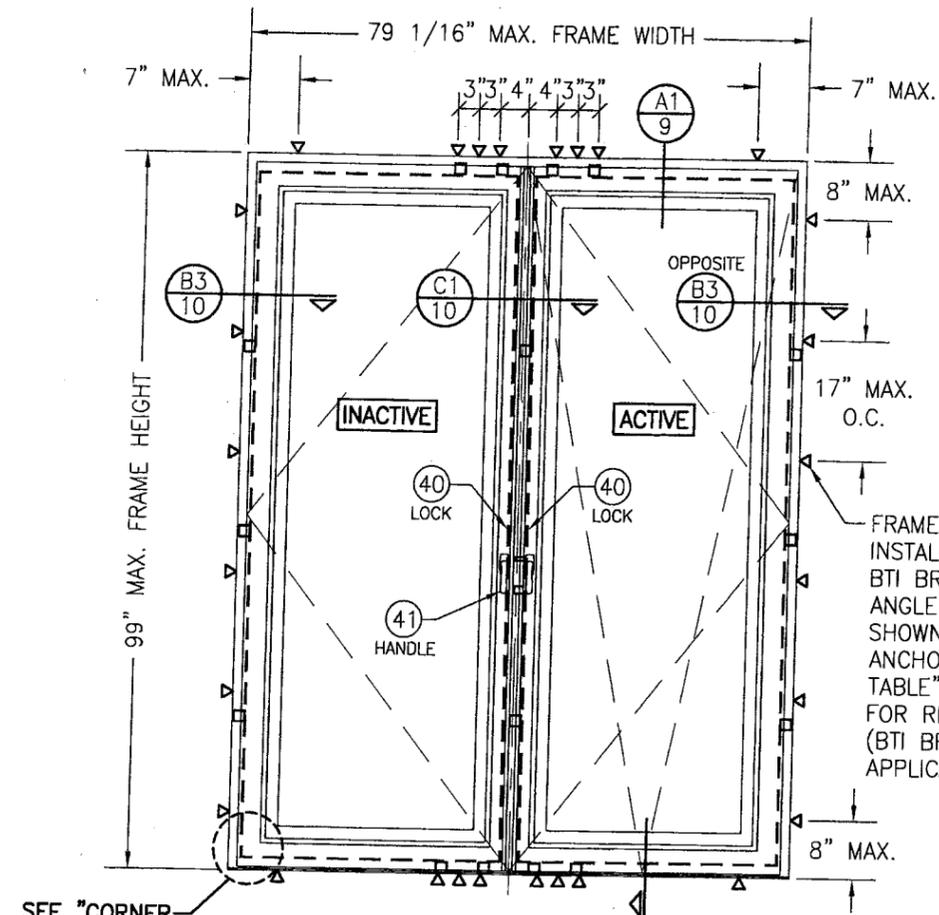
SEE "CORNER  
CONSTRUCTION"  
DESCRIPTION  
ON THIS SHEET

ALLOWABLE DESIGN PRESSURE  
SEE PRESSURE TABLE ON SHEET 1

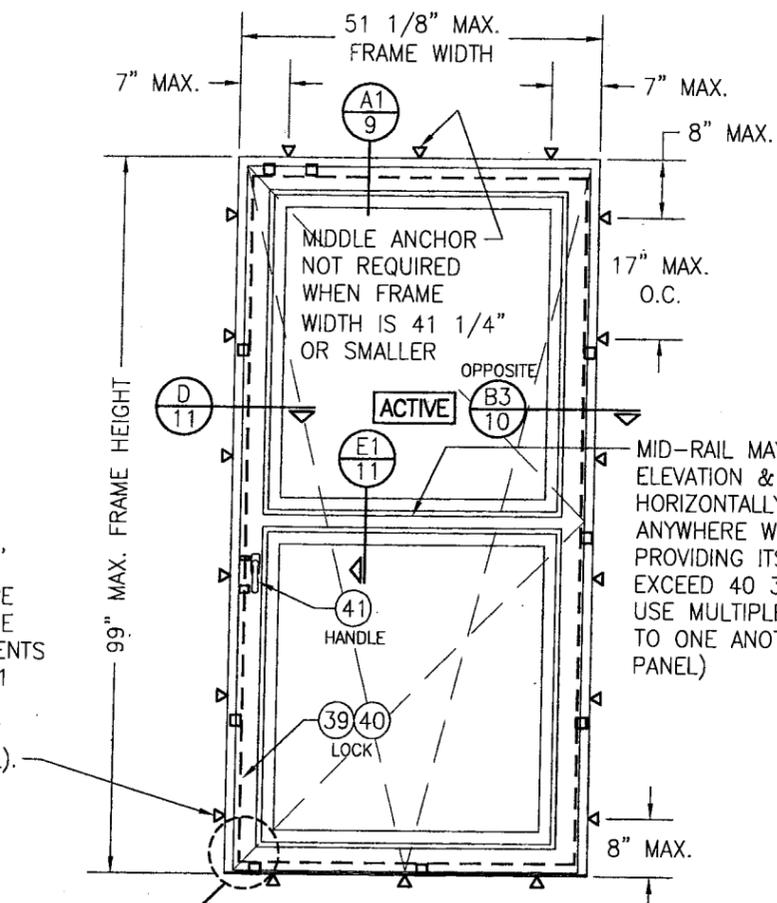
DUE TO HINGE CONDITION VARIATIONS,  
HINGES ARE NOT SHOWN IN ELEVATIONS,  
SEE SECTIONS & HINGE TABLES FOR  
HINGE REQUIREMENTS

Approved as complying with the  
Florida Building Code  
Date MAY 27, 2009  
NOA# 09-0212.06  
Miami Dade Product Control  
Division  
By Shag J. Chanda

|   |                      |                       |      |
|---|----------------------|-----------------------|------|
| DRAWN BY:<br>W.R.M.   |                      | CHECKED BY:<br>W.W.S. |      |
| PLOT:<br>1=24   |                      | DATE:<br>10/08/08     |      |
| NO.   | REVISION DESCRIPTION | BY                    | DATE |
|   |                      |                       |      |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                      |                       |      |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                      |                       |      |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                      |                       |      |
| CERTIFICATION<br><b>APR 22 2009</b><br>WARRICK W. SCHAEFER, P.E.<br>P.E. NO. 44135  |                      |                       |      |
| DRAWING NO.<br><b>1617</b>  |                      | REV.                  |      |
| SHEET NO.<br><b>2 OF 19</b>   |                      |                       |      |



INTERIOR ELEVATION;  
 DOUBLE RECTANGULAR DOOR  
 (TURN & TILT CONDITION)  
 SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION;  
 SINGLE RECTANGULAR DOOR  
 (TURN & TILT CONDITION)  
 SCALE: 1/2" = 1'-0"

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET

FRAME SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (BTI BRACKETS NOT APPLICABLE AT SILL).

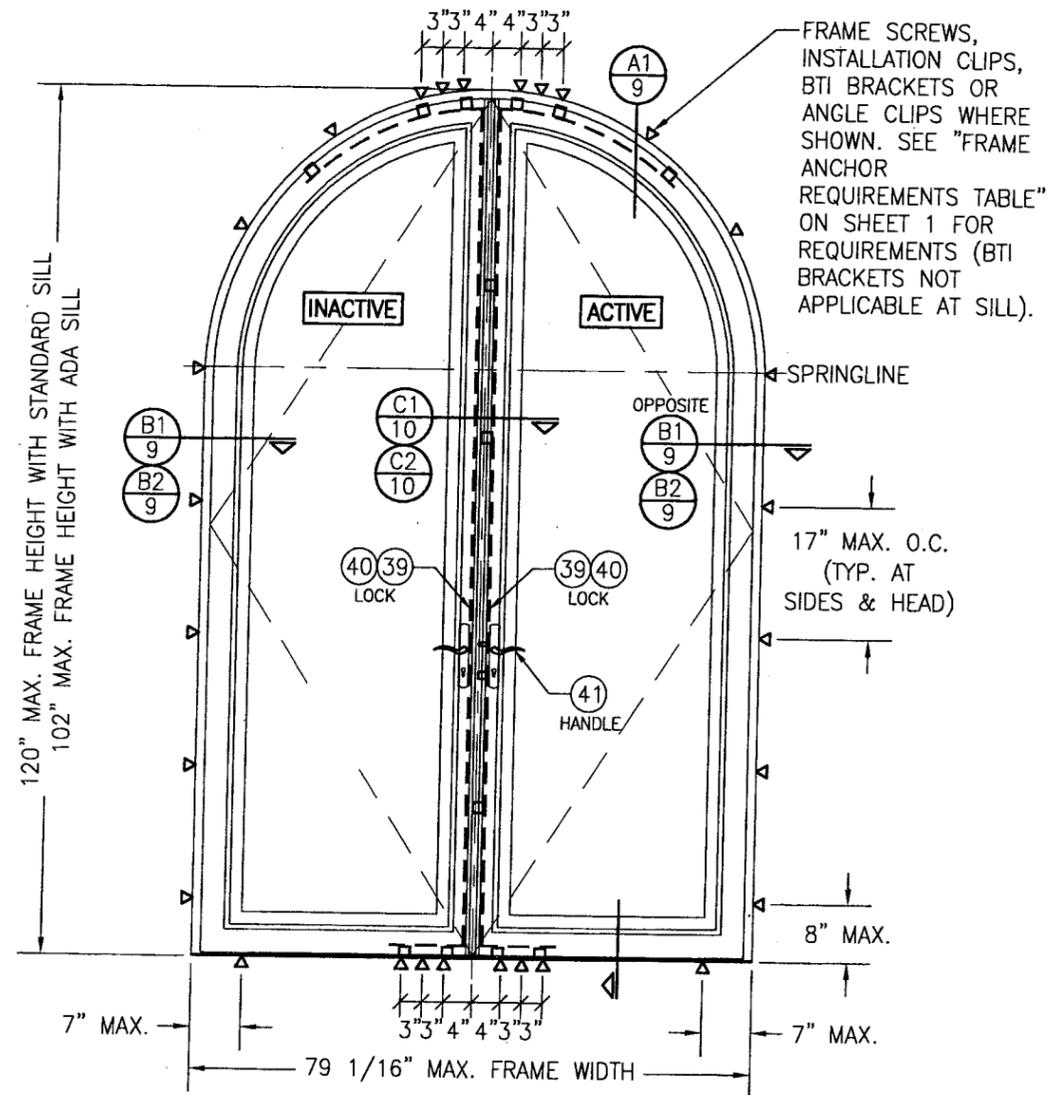
MID-RAIL MAY BE USED WITH ANY ELEVATION & MAY BE POSITIONED HORIZONTALLY OR VERTICALLY ANYWHERE WITHIN THE PANEL PROVIDING ITS SPAN DOES NOT EXCEED 40 3/4" AS SHOWN (MAY USE MULTIPLE MID-RAILS PARALLEL TO ONE ANOTHER IN ONE DOOR PANEL)

ALLOWABLE DESIGN PRESSURE  
 SEE PRESSURE TABLE ON SHEET 1

DUE TO HINGE CONDITION VARIATIONS, HINGES ARE NOT SHOWN IN ELEVATIONS, SEE SECTIONS & HINGE TABLES FOR HINGE REQUIREMENTS

Approved as complying with the Florida Building Code  
 Date MAY 23, 2009  
 NOA# 09-0212-06  
 Miami Dade Product Control Division  
 By Warren W. Schaefer

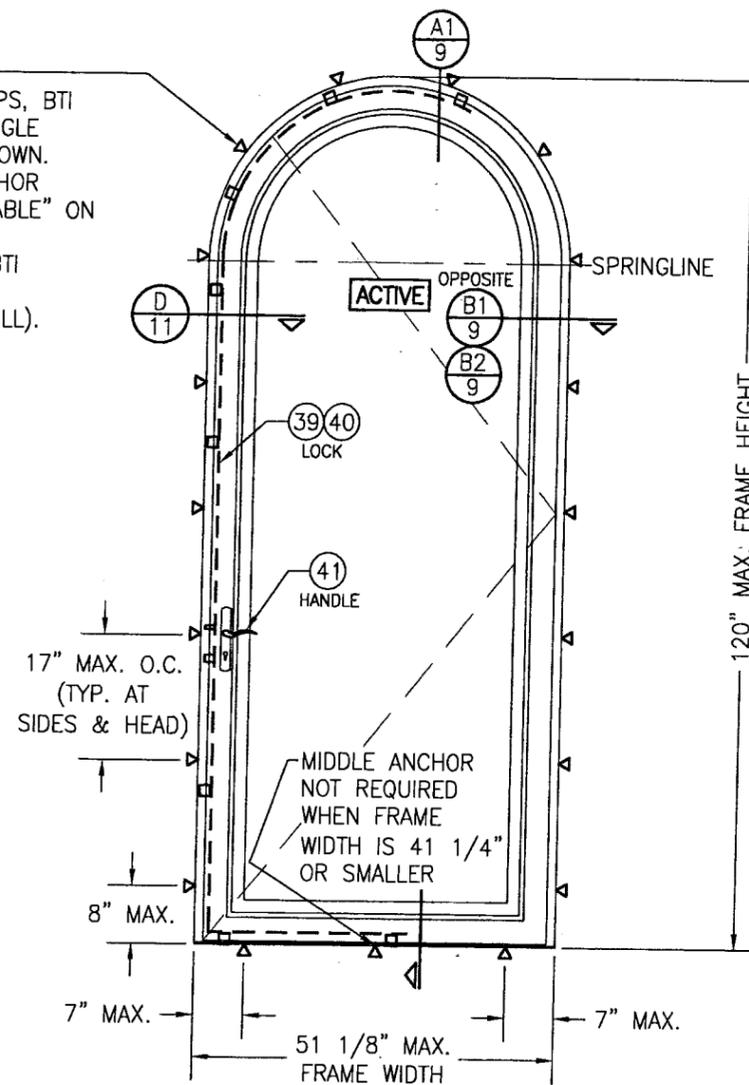
|  |                      |  |      |
|--|----------------------|--|------|
| DRAWN BY: W.R.M.   |                      | CHECKED BY: W.W.S.                         |      |
| PLOT: 1-24   |                      | DATE: 10/08/08                             |      |
| NO.  | REVISION DESCRIPTION | BY   | DATE |
|  |                      |  |      |
| DRAWING TITLE: IN-SWING IMPACT WOOD PANEL DOORS  |                      |  |      |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.<br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                      |  |      |
| MANUFACTURER: TISCHLER UND SOHN (USA) LTD.<br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                      |  |      |
| CERTIFICATION  | APR 22 2009          | WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135 |      |
| DRAWING NO.  | REV.                 |  |      |
| 1617   |                      |  |      |
| SHEET NO.  |                      |  |      |
| 3 OF 19  |                      |  |      |



**INTERIOR ELEVATION:  
DOUBLE HALF ROUND DOOR  
(TURN ONLY CONDITION)**

SCALE: 1/2" = 1'-0"

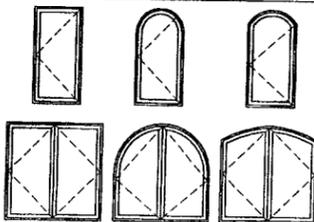
FRAME SCREWS,  
INSTALLATION CLIPS, BTI  
BRACKETS OR ANGLE  
CLIPS WHERE SHOWN.  
SEE "FRAME ANCHOR  
REQUIREMENTS TABLE" ON  
SHEET 1 FOR  
REQUIREMENTS (BTI  
BRACKETS NOT  
APPLICABLE AT SILL).



**INTERIOR ELEVATION:  
SINGLE HALF ROUND DOOR  
(TURN ONLY CONDITION)**

SCALE: 1/2" = 1'-0"

**APPROVED SHAPED  
(OPERABLE DOORS)**



**NOTES:**

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

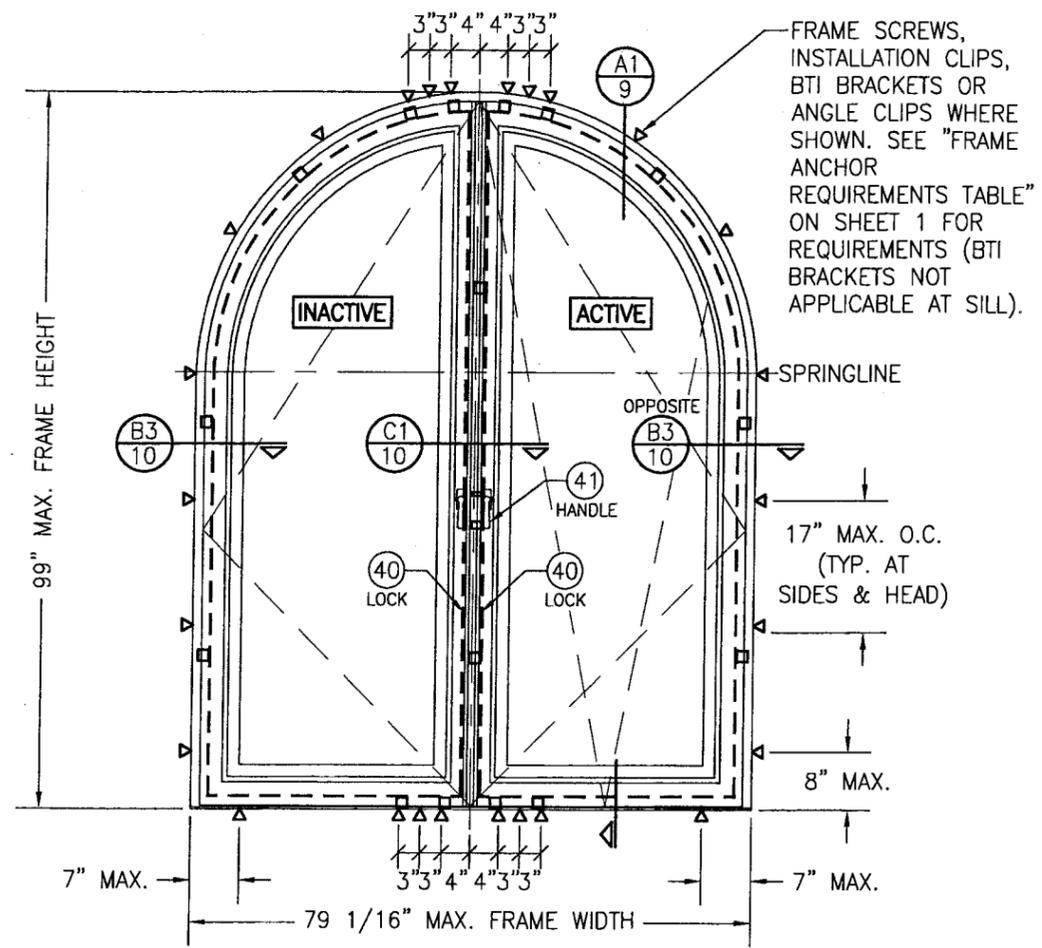
**ALLOWABLE DESIGN PRESSURE**  
SEE PRESSURE TABLE ON SHEET 1

DUE TO HINGE CONDITION VARIATIONS,  
HINGES ARE NOT SHOWN IN ELEVATIONS,  
SEE SECTIONS & HINGE TABLES FOR  
HINGE REQUIREMENTS

**ANCHOR NOTE:** ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

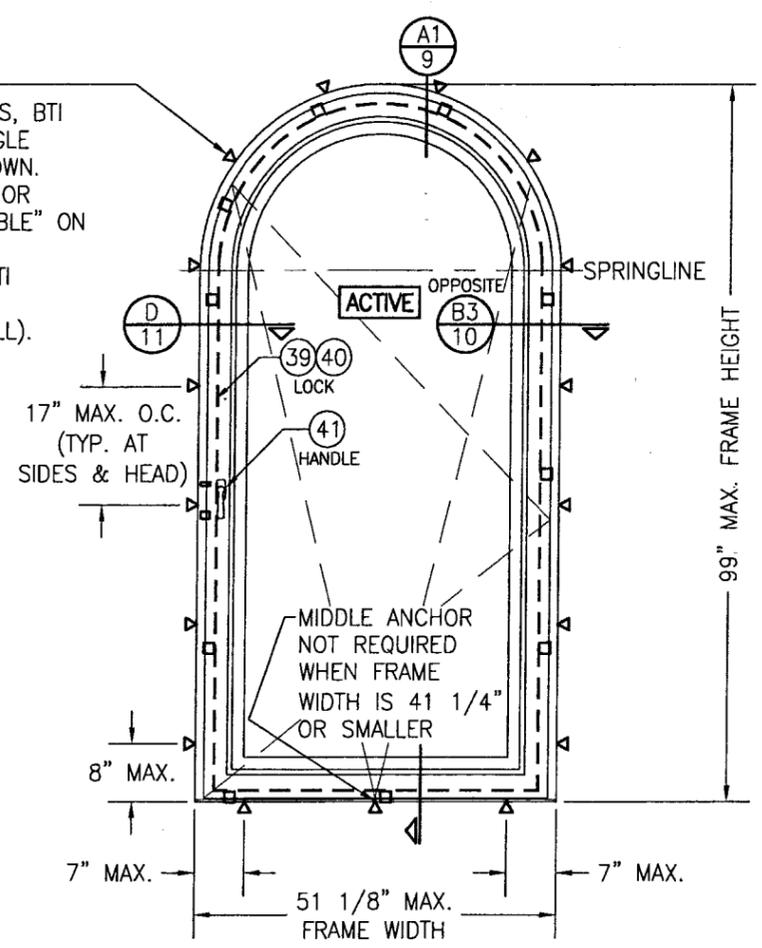
Approved as complying with the  
Florida Building Code  
Date MAY 29, 2009  
NOA# 09-0212-06  
Miami Dade Product Control  
Division  
By Warren W. Schaefer

|  |                      |  |      |
|--|----------------------|--|------|
| DRAWN BY:<br>W.R.M.  |                      | CHECKED BY:<br>W.W.S.  |      |
| PLOT:<br>1-24  |                      | DATE:<br>10/08/08  |      |
| NO.  | REVISION DESCRIPTION | BY   | DATE |
|  |                      |  |      |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>   |                      |  |      |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>                                      |                      | MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b>                |      |
| 8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                      | SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600 |      |
| CERTIFICATION<br><b>APR 2 2009</b>   |                      | P.E.<br>WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135                 |      |
| DRAWING NO.<br><b>1617</b>   |                      | REV.   |      |
| SHEET NO.<br><b>4</b>  |                      | OF <b>19</b>   |      |



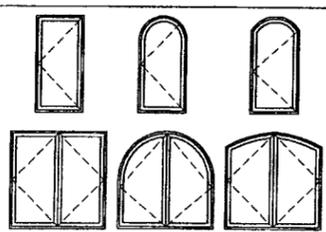
**INTERIOR ELEVATION:  
DOUBLE HALF ROUND DOOR  
(TURN & TILT CONDITION)**  
SCALE: 1/2" = 1'-0"

FRAME SCREWS,  
INSTALLATION CLIPS, BTI  
BRACKETS OR ANGLE  
CLIPS WHERE SHOWN.  
SEE "FRAME ANCHOR  
REQUIREMENTS TABLE" ON  
SHEET 1 FOR  
REQUIREMENTS (BTI  
BRACKETS NOT  
APPLICABLE AT SILL).



**INTERIOR ELEVATION:  
SINGLE HALF ROUND DOOR  
(TURN & TILT CONDITION)**  
SCALE: 1/2" = 1'-0"

**APPROVED SHAPED  
(OPERABLE DOORS)**



**NOTES:**  
1. OTHER SHAPES MAY APPLY  
PROVIDING THEY ARE SIMILAR TO  
THOSE SHOWN & HAVE CORNER  
CONSTRUCTION AS DESCRIBED IN THIS  
DRAWING.  
2. ALL SHAPED UNITS MUST FIT  
INSCRIBED INTO THE ALLOWABLE  
RECTANGULAR UNITS & BE GOVERNED  
BY THE ALLOWABLE PRESSURE OF THE  
RESPECTIVE RECTANGULAR UNIT.

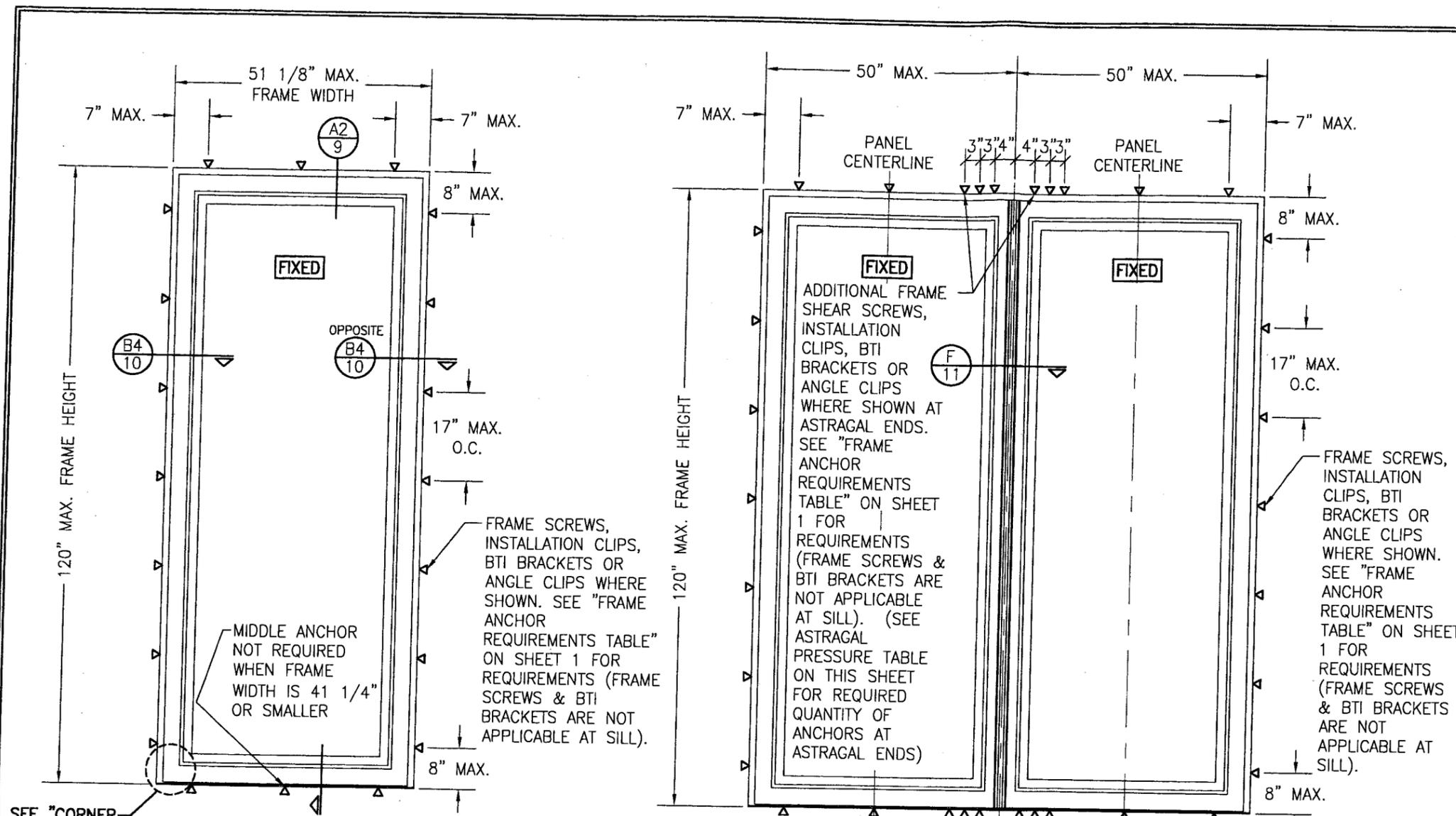
**ALLOWABLE DESIGN PRESSURE**  
SEE PRESSURE TABLE ON SHEET 1

DUE TO HINGE CONDITION VARIATIONS,  
HINGES ARE NOT SHOWN IN ELEVATIONS,  
SEE SECTIONS & HINGE TABLES FOR  
HINGE REQUIREMENTS

**ANCHOR NOTE:** ANCHOR SPACING AT THE HEAD OF  
ALL TYPES OF SHAPED DOORS MUST EQUAL THAT  
SPECIFIED AT THE SIDES (17" MAX. O.C.)

Approved as complying with the  
Florida Building Code  
Date MAY 27, 2009  
NOA# 09-0212-06  
Miami Dade Product Control  
Division  
By Isaac L. Chanch

|   |                       |
|---|-----------------------|
| DRAWN BY:<br>W.R.M.   | CHECKED BY:<br>W.W.S. |
| PLOT:<br>1=24   | DATE:<br>10/08/08     |
| DATE  |                       |
| BY  |                       |
| REVISION DESCRIPTION  |                       |
| NO.   |                       |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                       |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                       |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING<br/>&amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                       |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                       |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING<br/>&amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                       |
| DRAWING NO. 1617  |                       |
| SHEET NO. 5 OF 19   |                       |



**INTERIOR ELEVATION:  
SINGLE FIXED PANEL**  
SCALE: 1/2" = 1'-0"

**INTERIOR ELEVATION:  
DOUBLE FIXED PANEL WITH FIXED ASTRAGAL**  
SCALE: 1/2" = 1'-0"

| FIXED ASTRAGAL ALLOWABLE DESIGN PRESSURE |                          |                          |      |               |      |
|--|--------------------------|--------------------------|------|---------------|------|
| MAXIMUM ASTRAGAL SPAN (IN.)              | MAXIMUM LOAD WIDTH (IN.) | ALLOWABLE PRESSURE (PSF) |      |               |      |
|  |                          | 4 END ANCHORS            |      | 6 END ANCHORS |      |
|  |                          | POS.                     | NEG. | POS.          | NEG. |
| 120                                      | 50                       | 51.4                     | 51.4 | 70.0          | 70.0 |
|  | 48                       | 53.5                     | 53.5 | 70.0          | 70.0 |
|  | 44                       | 58.4                     | 58.4 | 70.0          | 70.0 |
|  | 40                       | 64.2                     | 64.2 | 70.0          | 70.0 |
|  | 36                       | 70.0                     | 70.0 | 70.0          | 70.0 |
|  | 32                       | 70.0                     | 70.0 | 70.0          | 70.0 |
| 108                                      | 50                       | 57.1                     | 57.1 | 70.0          | 70.0 |
|  | 48                       | 59.5                     | 59.5 | 70.0          | 70.0 |
|  | 44                       | 64.9                     | 64.9 | 70.0          | 70.0 |
|  | 40                       | 70.0                     | 70.0 | 70.0          | 70.0 |
|  | 36                       | 70.0                     | 70.0 | 70.0          | 70.0 |
|  | 32                       | 70.0                     | 70.0 | 70.0          | 70.0 |
| 99                                       | 50                       | 62.3                     | 62.3 | 70.0          | 85.0 |
|  | 48                       | 64.9                     | 64.9 | 70.0          | 85.0 |
|  | 44                       | 70.0                     | 70.8 | 70.0          | 85.0 |
|  | 40                       | 70.0                     | 77.9 | 70.0          | 85.0 |
|  | 36                       | 70.0                     | 85.0 | 70.0          | 85.0 |
|  | 32                       | 70.0                     | 85.0 | 70.0          | 85.0 |
| 96                                       | 50                       | 64.2                     | 64.2 | 70.0          | 85.0 |
|  | 48                       | 66.9                     | 66.9 | 70.0          | 85.0 |
|  | 44                       | 70.0                     | 73.0 | 70.0          | 85.0 |
|  | 40                       | 70.0                     | 80.3 | 70.0          | 85.0 |
|  | 37                       | 70.0                     | 85.0 | 70.0          | 85.0 |
|  | 32                       | 70.0                     | 85.0 | 70.0          | 85.0 |
| 84                                       | 50                       | 70.0                     | 73.4 | 70.0          | 85.0 |
|  | 48                       | 70.0                     | 76.5 | 70.0          | 85.0 |
|  | 44                       | 70.0                     | 83.4 | 70.0          | 85.0 |
|  | 43                       | 70.0                     | 85.0 | 70.0          | 85.0 |
|  | 40                       | 70.0                     | 85.0 | 70.0          | 85.0 |
|  | 37                       | 70.0                     | 85.0 | 70.0          | 85.0 |
| 80                                       | 50                       | 70.0                     | 77.1 | 70.0          | 85.0 |
|  | 48                       | 70.0                     | 80.3 | 70.0          | 85.0 |
|  | 45                       | 70.0                     | 85.0 | 70.0          | 85.0 |

**NOTES:**  
 1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.  
 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL FIXED PANEL.  
 3. SIZE VALUES IN TABLE ARE +/- 1/4"

| ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANELS) |                         |                    |                |
|---|-------------------------|--------------------|----------------|
| MAX. FRAME WIDTH (IN.)                          | MAX. FRAME HEIGHT (IN.) | ALLOWABLE PRESSURE |                |
|   |                         | POSITIVE (PSF)     | NEGATIVE (PSF) |
| 51 11/16  | 120                     | 70                 | 70             |
| 51 11/16  | 99                      | 70                 | 85             |

**APPROVED SHAPES (FIXED PANELS)**

**NOTES:**  
 1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.  
 2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.  
 3. THE SHAPES SHOWN APPLY TO SINGLE FIXED PANELS AND THE PANELS ON EITHER SIDE OF A FIXED ASTRAGAL.

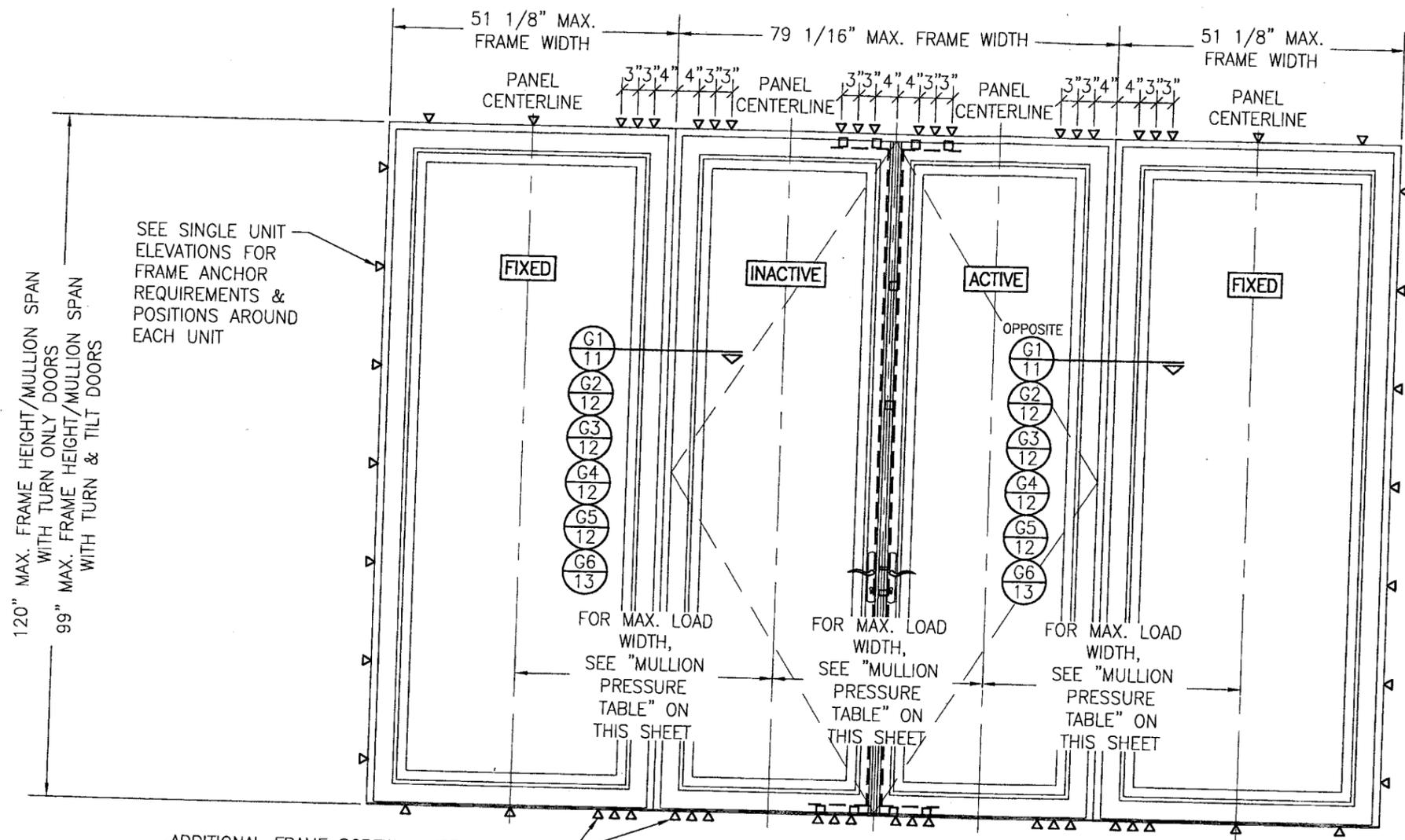
FOR MAX. LOAD WIDTH, SEE ASTRAGAL PRESSURE TABLE ON THIS SHEET

SEE SINGLE FIXED PANEL ELEVATION FOR DETAIL NOT SHOWN

**ANCHOR NOTE:** ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED PANEL DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

Approved as complying with the Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0212.06  
 Miami Dade Product Control Division  
 By Shay L. Leonard

|   |                      |
|---|----------------------|
| DRAWN BY: W.R.M.  | CHECKED BY: W.W.S.   |
| PLOT: 1-24  | DATE: 10/08/08       |
| DATE  | BY                   |
| NO.   | REVISION DESCRIPTION |
| <b>IN-SWING IMPACT WOOD PANEL DOORS</b><br>MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600                    |                      |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                      |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                      |
| CERTIFICATION<br><b>APR 22 2009</b><br>W. W. SCHAEFER, P.E.<br>P.E. NO. 44135   |                      |
| DRAWING NO. 1617  | REV.                 |
| SHEET NO. 6 OF 19   |                      |



SEE SINGLE UNIT ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND EACH UNIT

120" MAX. FRAME HEIGHT/MULLION SPAN WITH TURN ONLY DOORS  
99" MAX. FRAME HEIGHT/MULLION SPAN WITH TURN & TILT DOORS

G1  
11  
G2  
12  
G3  
12  
G4  
12  
G5  
12  
G6  
13

OPPOSITE  
G1  
11  
G2  
12  
G3  
12  
G4  
12  
G5  
12  
G6  
13

FOR MAX. LOAD WIDTH, SEE "MULLION PRESSURE TABLE" ON THIS SHEET

FOR MAX. LOAD WIDTH, SEE "MULLION PRESSURE TABLE" ON THIS SHEET

FOR MAX. LOAD WIDTH, SEE "MULLION PRESSURE TABLE" ON THIS SHEET

**INTERIOR ELEVATION:  
DOUBLE DOORS WITH FIXED PANELS**

SCALE: 1/2" = 1'-0"

(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPED" TABLE ON SHEETS 4 & 5)

**MULTIPLE UNIT NOTES:**

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR/FIXED PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.
5. BOTH TURN ONLY & TILT & TURN CONDITIONS APPLY.

FRAME SCREWS ARE NOT APPLICABLE FOR USE WITH FIXED PANEL DOOR SILLS

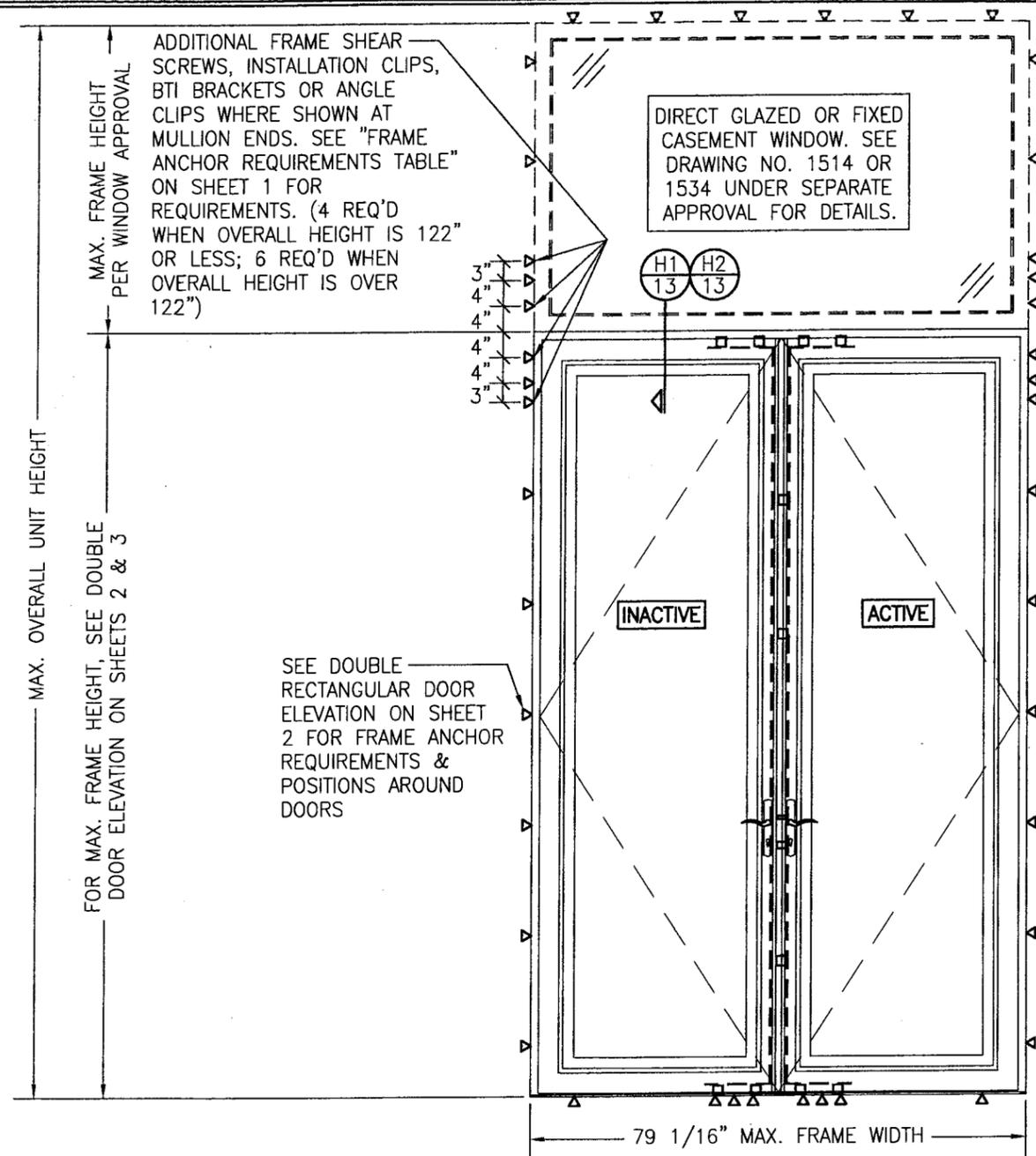
ADDITIONAL FRAME SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (BTI BRACKETS NOT APPLICABLE AT SILL).

| MULLION ALLOWABLE DESIGN PRESSURE |                          |                          |      |
|-----------------------------------|--------------------------|--------------------------|------|
| MAXIMUM MULLION SPAN (IN.)        | MAXIMUM LOAD WIDTH (IN.) | ALLOWABLE PRESSURE (PSF) |      |
|                                   |                          | POS.                     | NEG. |
| 120                               | 52                       | 53.8                     | 53.8 |
|                                   | 48                       | 58.3                     | 58.3 |
|                                   | 44                       | 63.6                     | 63.6 |
|                                   | 40                       | 70.0                     | 70.0 |
|                                   | 36                       | 70.0                     | 70.0 |
| 108                               | 52                       | 59.8                     | 59.8 |
|                                   | 48                       | 64.8                     | 64.8 |
|                                   | 44                       | 70.0                     | 70.0 |
|                                   | 40                       | 70.0                     | 70.0 |
|                                   | 36                       | 70.0                     | 70.0 |
| 99                                | 52                       | 70.0                     | 75.2 |
|                                   | 48                       | 70.0                     | 81.5 |
|                                   | 46                       | 70.0                     | 85.0 |
| 96                                | 52                       | 70.0                     | 77.5 |
|                                   | 48                       | 70.0                     | 84.0 |
|                                   | 44                       | 70.0                     | 85.0 |
| 84                                | 52                       | 70.0                     | 85.0 |

NOTES:  
1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.  
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL DOOR/FIXED PANEL.  
3. SIZE VALUES IN TABLE ARE +/- 1/4"

|   |  |
|---|--|
| DRAWN BY:<br>W.R.M.   | CHECKED BY:<br>W.W.S.                      |
| PLOT:<br>1=24   | DATE:<br>10/08/08                          |
| DATE  | BY   |
| NO.   | REVISION DESCRIPTION                       |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |  |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |  |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8885 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |  |
| CERTIFICATION<br><b>APR 22 2009</b>   | WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135 |
| DRAWING NO.<br><b>1617</b>  | REV.                                       |
| SHEET NO.<br><b>7</b>   | OF <b>19</b>                               |

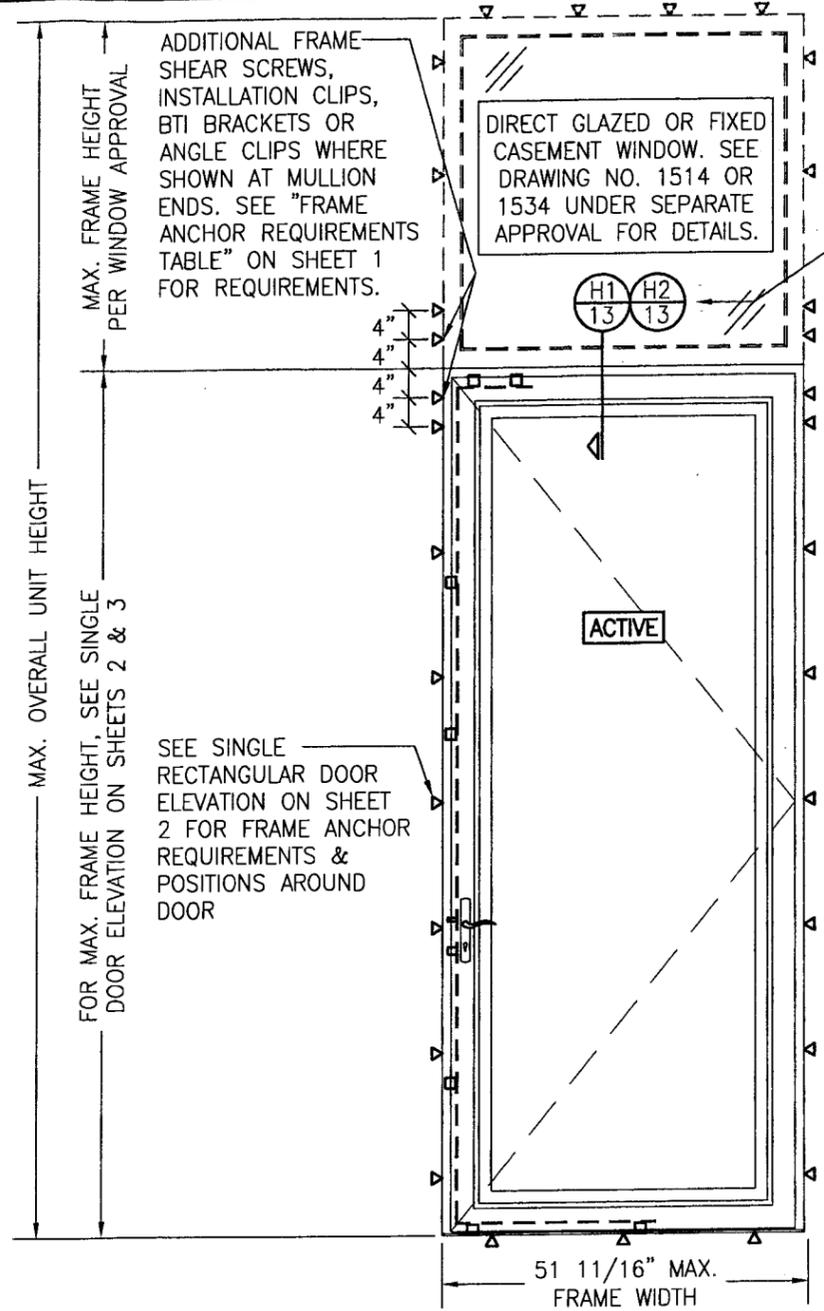
Approved as complying with the Florida Building Code  
Date **MAY 23, 2009**  
NOA# **09-0212.06**  
Miami Dade Product Control  
Division  
By **Isaac L. Chanda**



**INTERIOR ELEVATION: DOUBLE DOORS WITH TRANSOM**  
 SCALE: 1/2" = 1'-0"  
 (SEE DOUBLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 3 FOR DOOR DETAIL NOT SHOWN)

| ALLOWABLE DESIGN PRESSURE<br>(DOUBLE DOOR TRANSOM UNIT) |                                |                        |                |
|---|--------------------------------|------------------------|----------------|
| MAX. FRAME WIDTH (IN.)                                  | MAX. OVERALL UNIT HEIGHT (IN.) | (1) ALLOWABLE PRESSURE |                |
|   |                                | POSITIVE (PSF)         | NEGATIVE (PSF) |
| 79 1/16   | 168                            | 70                     | 70             |
| 79 1/16   | 138                            | 70                     | (1) 85         |

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.



**INTERIOR ELEVATION: SINGLE DOOR WITH TRANSOM**  
 SCALE: 1/2" = 1'-0"  
 (SEE SINGLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 3 FOR DOOR DETAIL NOT SHOWN)

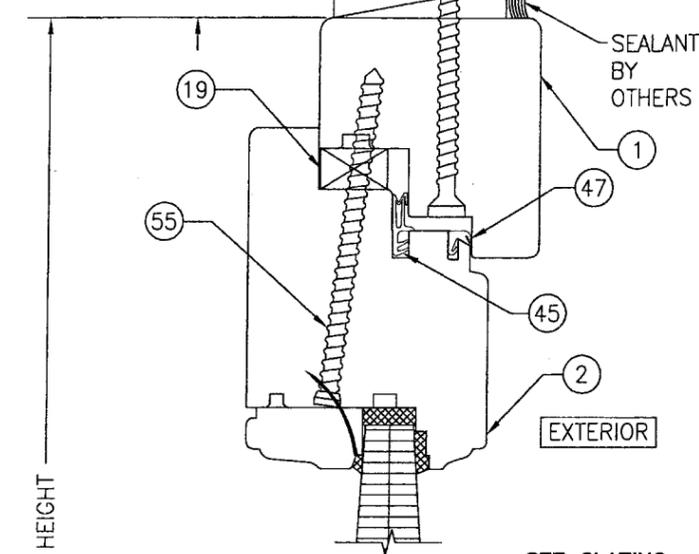
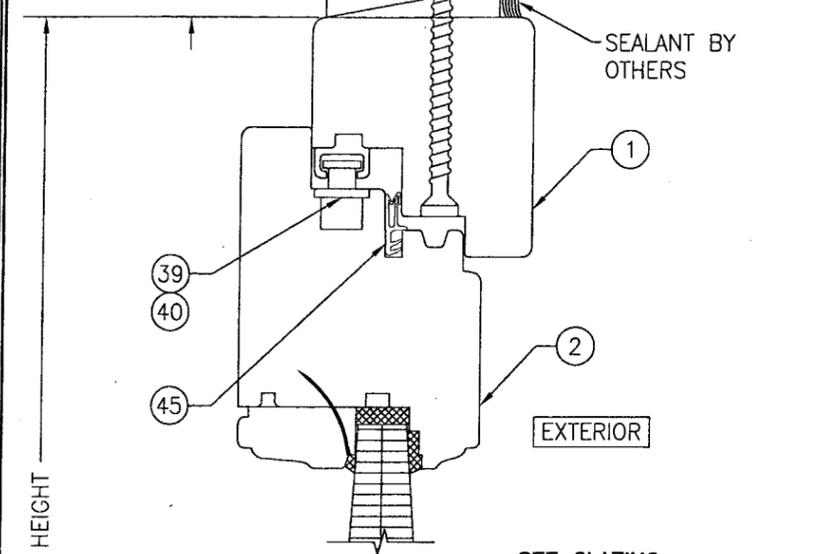
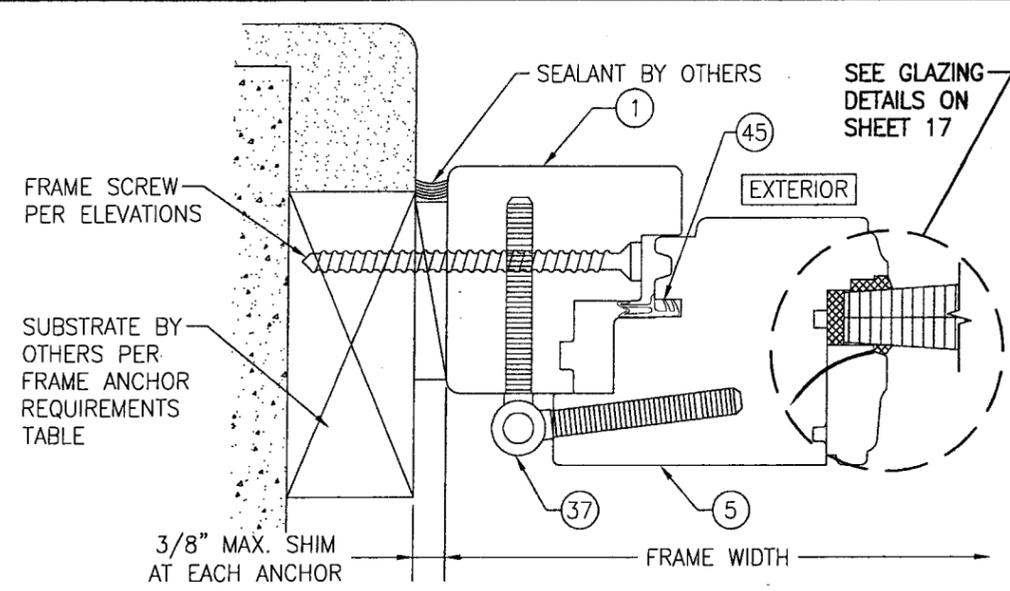
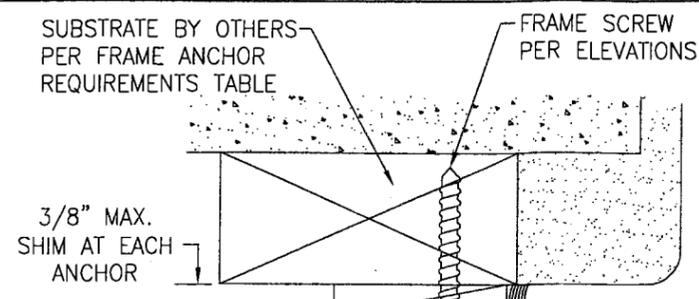
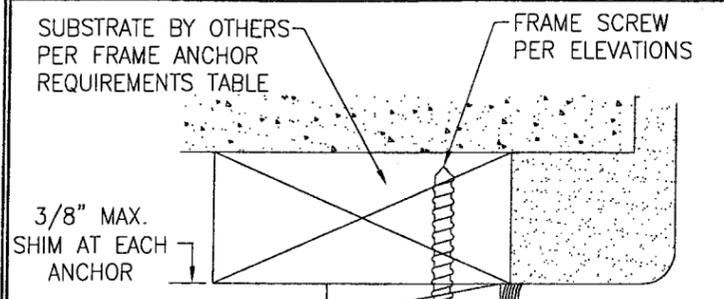
| ALLOWABLE DESIGN PRESSURE<br>(SINGLE DOOR TRANSOM UNIT) |                                |                        |                |
|---|--------------------------------|------------------------|----------------|
| MAX. FRAME WIDTH (IN.)                                  | MAX. OVERALL UNIT HEIGHT (IN.) | (1) ALLOWABLE PRESSURE |                |
|   |                                | POSITIVE (PSF)         | NEGATIVE (PSF) |
| 51 11/16  | 168                            | 70                     | 70             |
| 41 1/4  | 168                            | 70                     | (1) 85         |

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

NOTE: MULLION REINFORCEMENT IS OPTIONAL WITH THIS SINGLE DOOR WITH TRANSOM ELEVATION & IS NOT REQUIRED

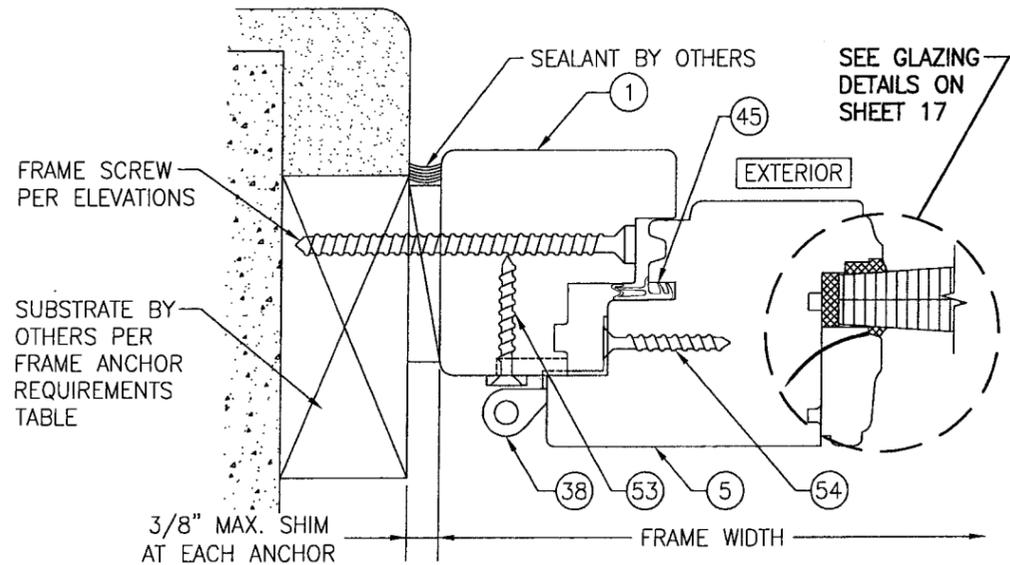
|  |    |  |     |
|--|----|--|-----|
| DRAWN BY: W.R.M.   |    | CHECKED BY: W.W.S.   |     |
| PLOT: 1=24   |    | DATE: 10/08/08   |     |
| DATE   | BY | REVISION DESCRIPTION   | NO. |
|  |    |  |     |
| DRAWING TITLE: IN-SWING IMPACT WOOD PANEL DOORS  |    |  |     |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.   |    | MANUFACTURER: TISCHLER UND SOHN (USA) LTD.                         |     |
| 8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |    | SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600 |     |
| CERTIFICATION: APR 22 2009   |    | WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135                         |     |
| DRAWING NO. 1617   |    | REV.   |     |
| SHEET NO. 8  |    | OF 19  |     |

Approved as complying with the Florida Building Code  
 Date: MAY 29, 2009  
 NOA# 09-0212-06  
 Miami Dade Product Control Division  
 By: *Chas. J. L...*



SECTION B1  
SCALE: 1/2 FULL

(SCREWED IN HINGE CONDITION)  
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION B2  
SCALE: 1/2 FULL

(POT HINGE; TURN ONLY CONDITION)  
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.

SECTION A1  
SCALE: 1/2 FULL

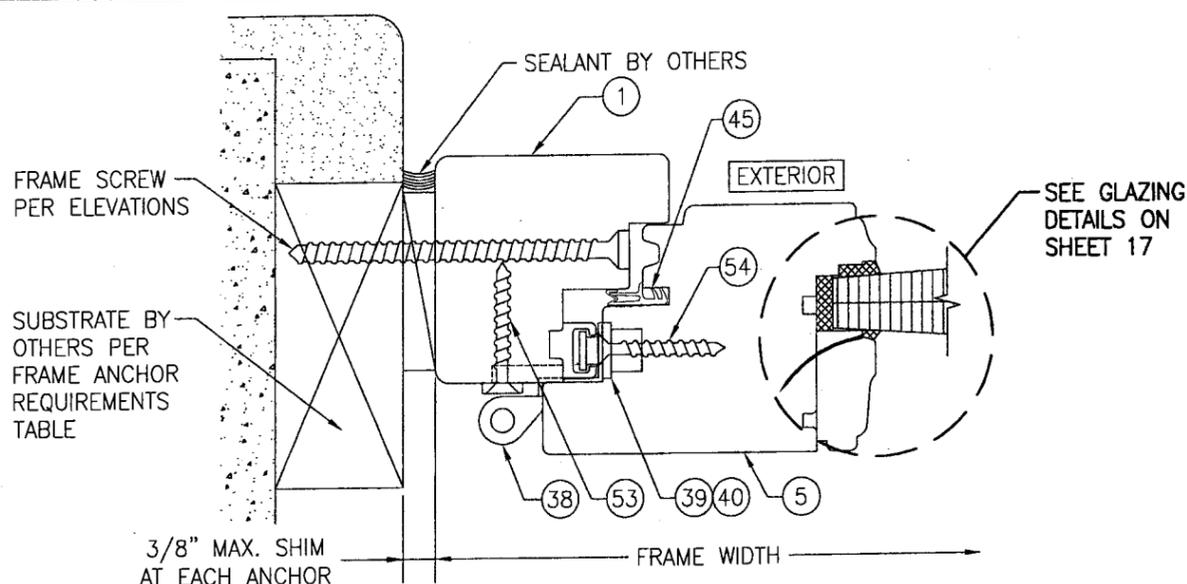
FRAME SCREW INSTALLATION & STANDARD SILL CONDITION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION & SILL CONDITIONS.

SECTION A2  
SCALE: 1/2 FULL

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (FOR SILL INSTALLATION NOT SHOWN, SEE ANGLE CLIP & INSTALLATION CLIP SILL DETAILS ON SHEETS 15 & 16.

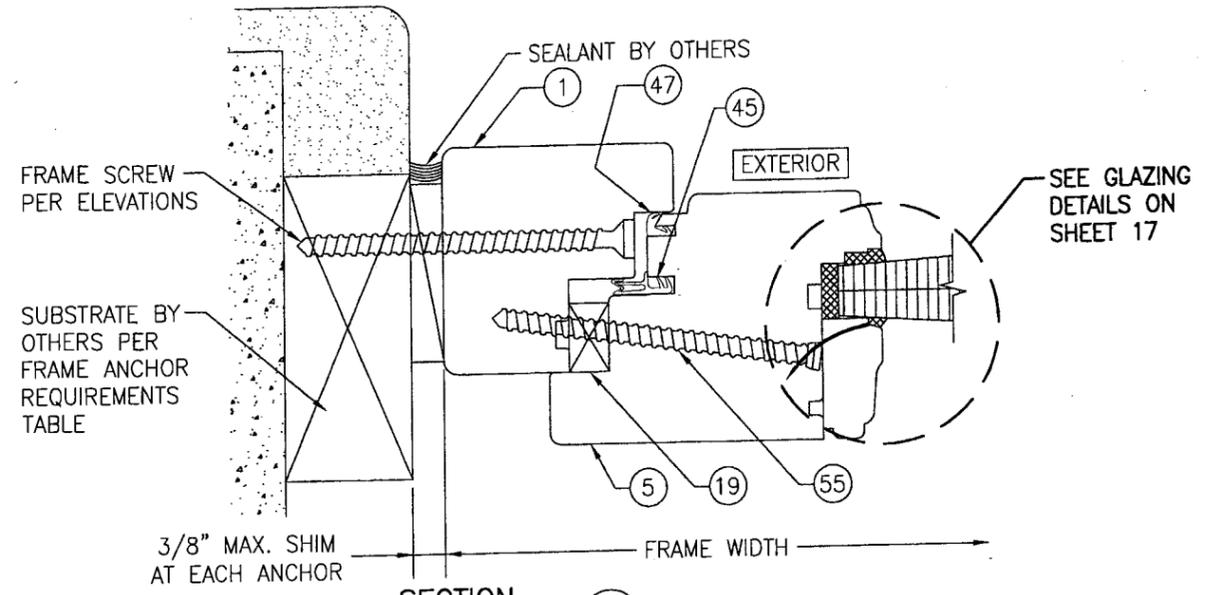
Approved as complying with the Florida Building Code  
Date MAY 29, 2009  
NOA# 09-0212.06  
Miami Dade Product Control Division  
By Ishag I. Chaudhry

|  |  |
|--|--|
| DRAWN BY:<br>W.R.M.  | CHECKED BY:<br>W.W.S.  |
| PLOT:<br>1=2   | DATE:<br>10/08/08  |
| DATE   |  |
| BY   |  |
| REVISION DESCRIPTION   |  |
| NO.  |  |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>   |  |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>                                      | MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b>                |
| 8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 | SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600 |
| CERTIFICATION<br><b>APR 22 2009</b>  |  |
| DRAWING NO.<br><b>1617</b>   | REV.   |
| SHEET NO.<br><b>9</b>  | OF<br><b>19</b>  |



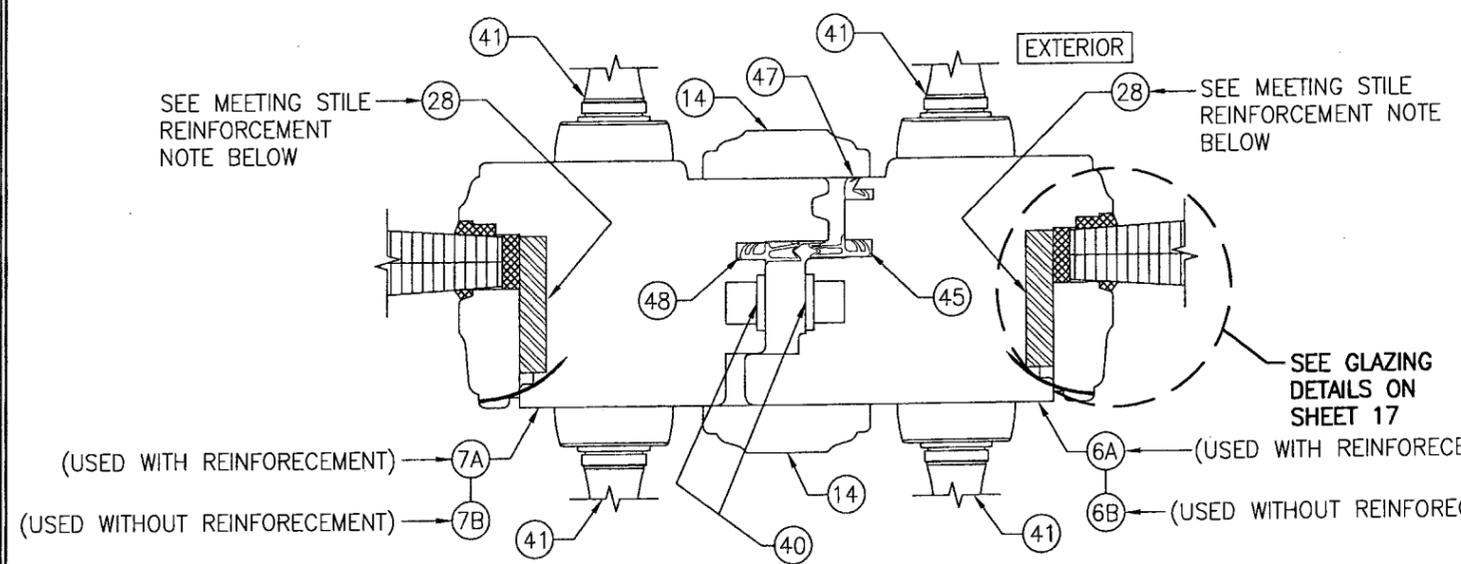
SECTION **B3**  
SCALE: 1/2 FULL **10**  
(POT HINGE; TILT CONDITION)

FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



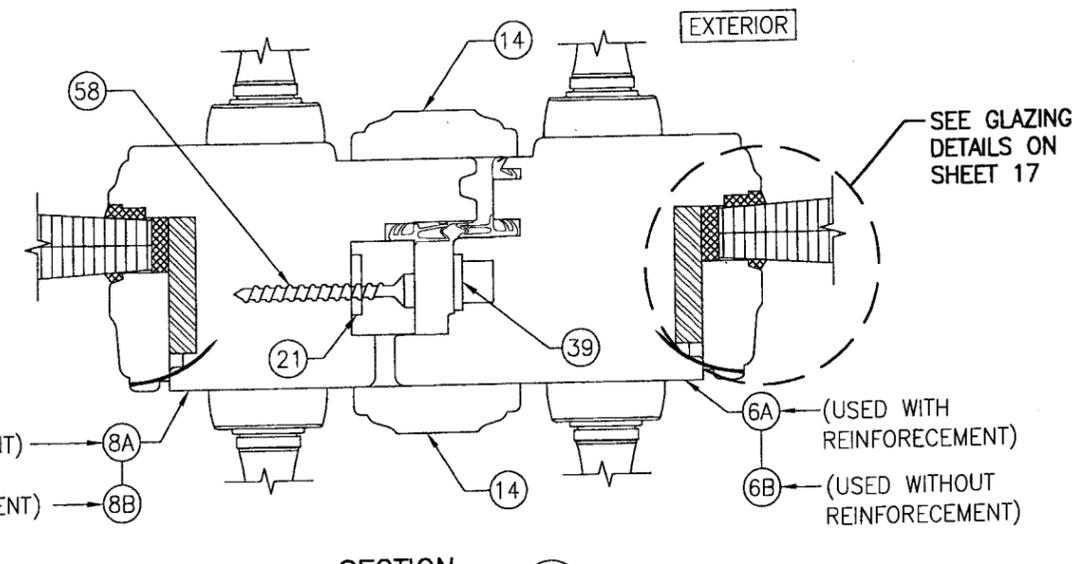
SECTION **B4**  
SCALE: 1/2 FULL **10**

FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION **C1**  
SCALE: 1/2 FULL **10**

MEETING STILE CONDITION WITH SIEGENIA MULTI-POINT LOCK SYSTEM



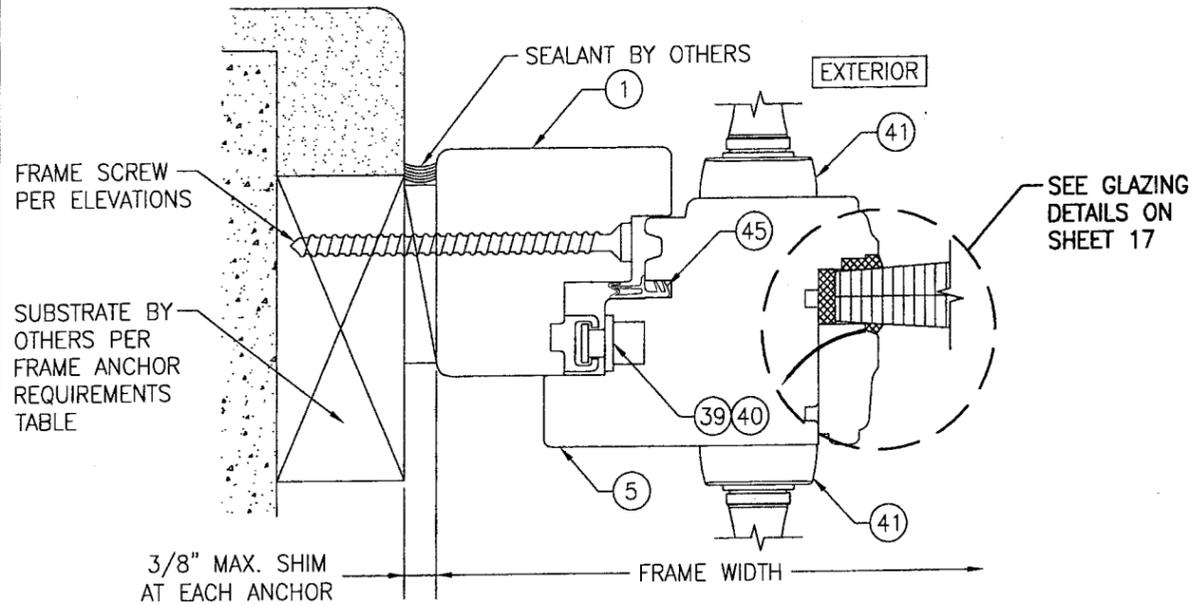
SECTION **C2**  
SCALE: 1/2 FULL **10**

MEETING STILE CONDITION WITH KVV MULTI-POINT LOCK SYSTEM (FOR DETAIL NOT SHOWN, SEE SECTION C1/10)

- MEETING STILE REINFORCEMENT NOTE:**  
REINFORCEMENT IS REQUIRED WHEN ANY ONE OF THE FOLLOWING DOOR CONDITIONS EXISTS.
1. WHEN FRAME HEIGHT IS OVER 99".
  2. WHEN ADA SILL IS USED (ALL APPLICABLE FRAME HEIGHTS).
  3. WHEN JOB REQUIRED DESIGN PRESSURE IS OVER +/-70 PSF.

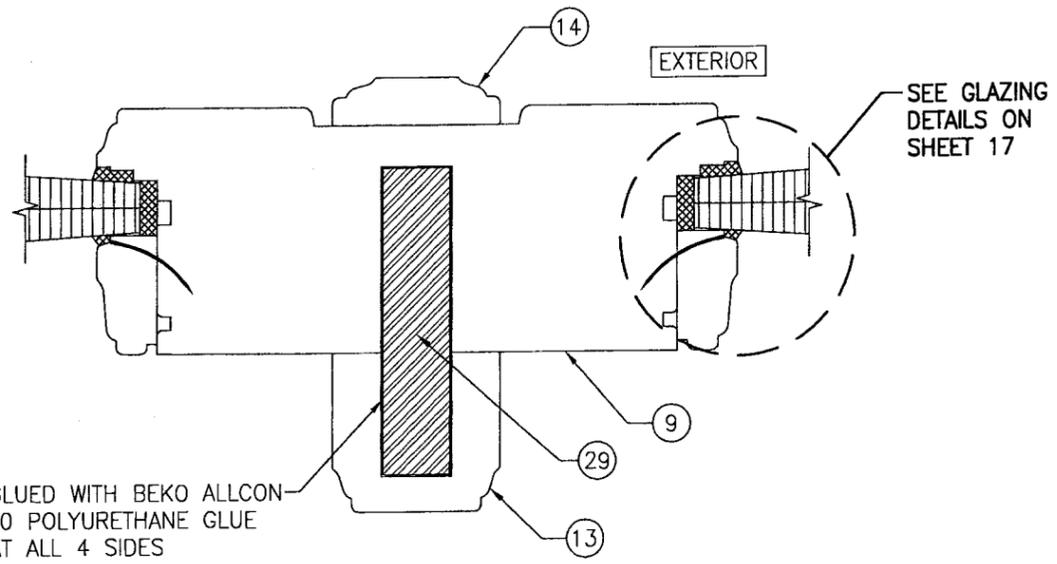
Approved as complying with the Florida Building Code  
Date MAY 27, 2009  
NOA# 09-0212.06  
Miami Dade Product Control Division  
By Shay L. [Signature]

|  |                       |
|--|-----------------------|
| DRAWN BY:<br>W.R.M.  | CHECKED BY:<br>W.W.S. |
| PLOT:<br>1=2   | DATE:<br>10/08/08     |
| NO.  | REVISION DESCRIPTION  |
| DATE   | BY                    |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>   |                       |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b>  |                       |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>                                      |                       |
| 8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4803 |                       |
| CERTIFICATION  | REV.                  |
| <b>APR 22 2009</b>   | 1617                  |
| WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135   | SHEET NO.<br>10 OF 19 |

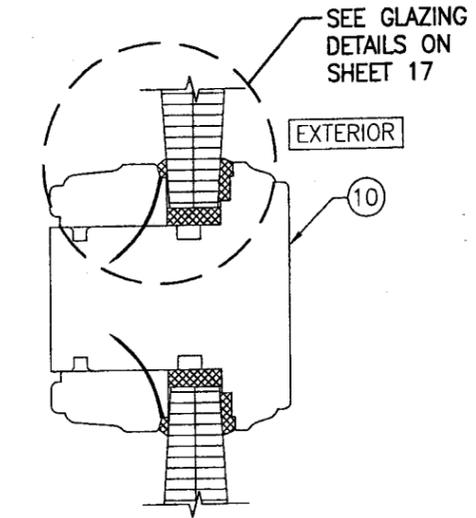


SECTION **D**  
SCALE: 1/2 FULL **11**

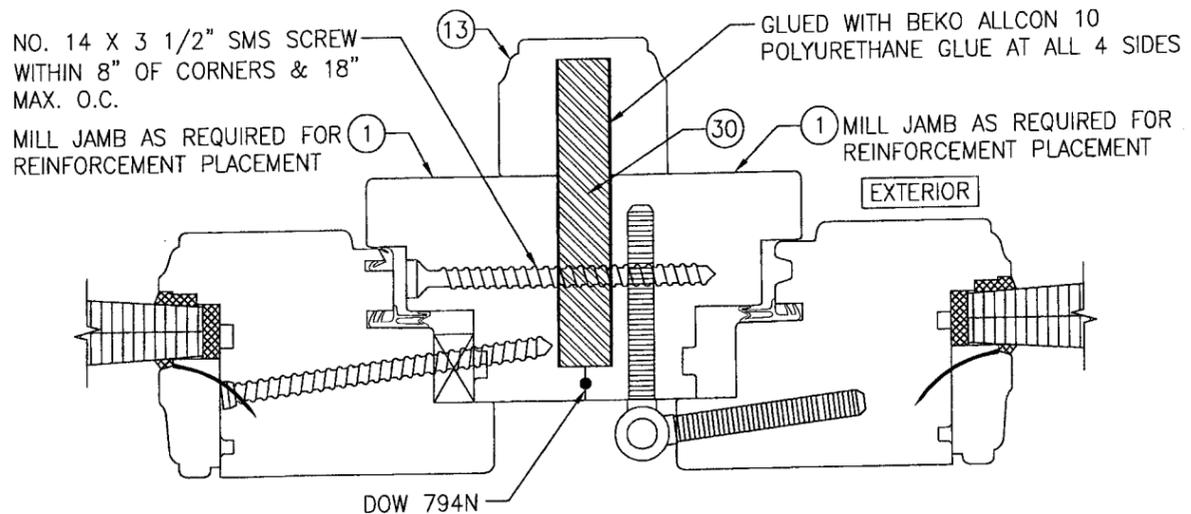
FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION **F**  
SCALE: 1/2 FULL **11**



SECTION **E1**  
SCALE: 1/2 FULL **11**



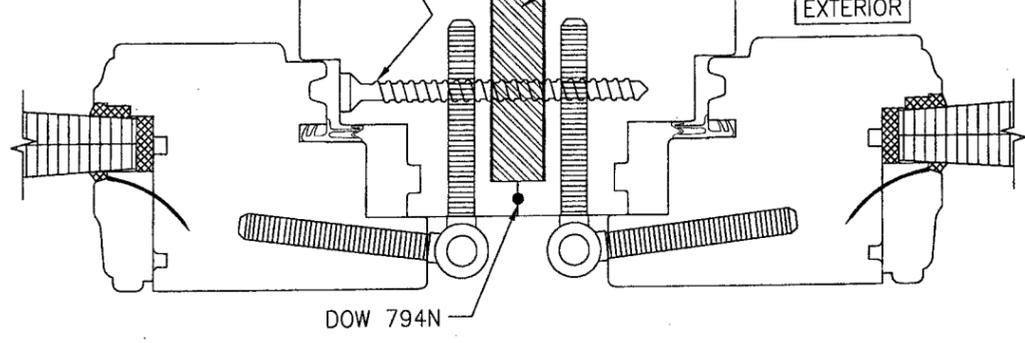
SECTION **G1**  
SCALE: 1/2 FULL **11**

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

Approved as complying with the Florida Building Code  
Date MAY 29, 2009  
NOA# 09-0212-06  
Miami Dade Product Control  
Division  
By Iskay I. Hernandez

|  |                      |  |      |
|--|----------------------|--|------|
| DRAWN BY: W.R.M.   |                      | CHECKED BY: W.W.S.   |      |
| PLOT: 1=2  |                      | DATE: 10/08/08   |      |
| NO.  | REVISION DESCRIPTION | BY   | DATE |
|  |                      |  |      |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>   |                      |  |      |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>                                      |                      | MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b>                |      |
| 8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                      | SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600 |      |
| CERTIFICATION<br><b>APR 22 2009</b>  |                      | WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135                         |      |
| DRAWING NO.<br><b>1617</b>   | REV.                 |  |      |
| SHEET NO.<br><b>11 OF 19</b>   |                      |  |      |

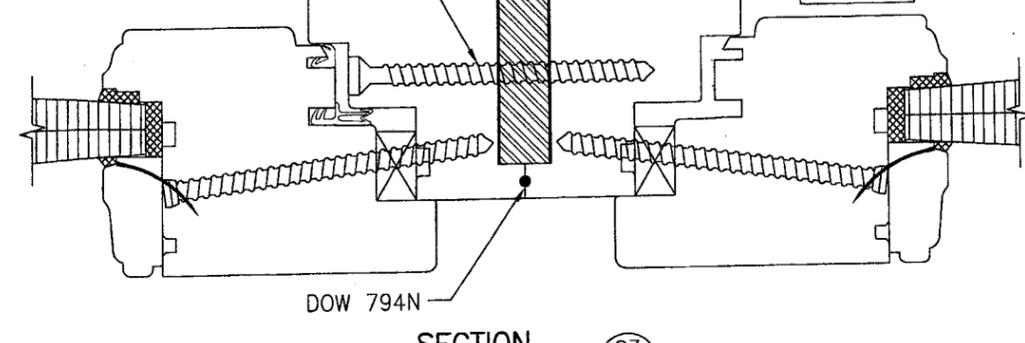
NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT  
 GLUED WITH BEKO ALLCON 10 POLYURETHANE GLUE AT ALL 4 SIDES



SECTION G2  
 SCALE: 1/2 FULL 12

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

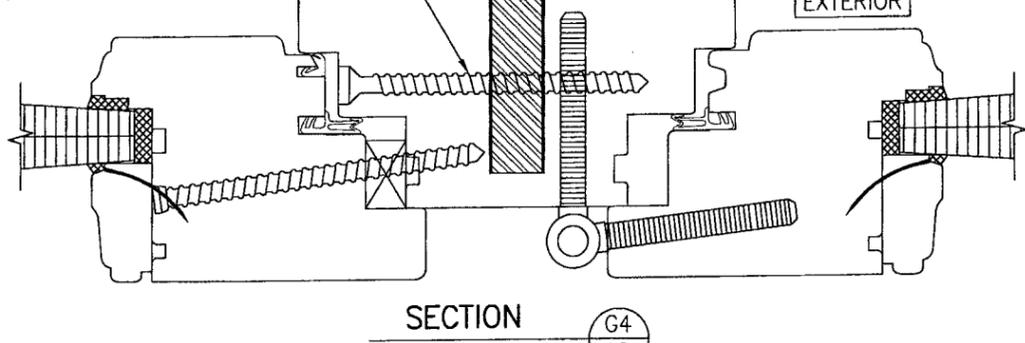
NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT  
 GLUED WITH BEKO ALLCON 10 POLYURETHANE GLUE AT ALL 4 SIDES



SECTION G3  
 SCALE: 1/2 FULL 12

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

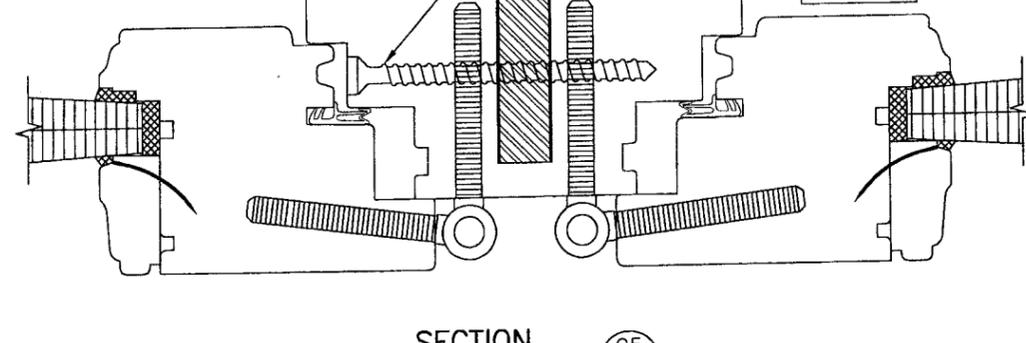
NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT  
 GLUED WITH BEKO ALLCON 10 POLYURETHANE GLUE AT ALL 4 SIDES



SECTION G4  
 SCALE: 1/2 FULL 12

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.  
 MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT  
 GLUED WITH BEKO ALLCON 10 POLYURETHANE GLUE AT ALL 4 SIDES

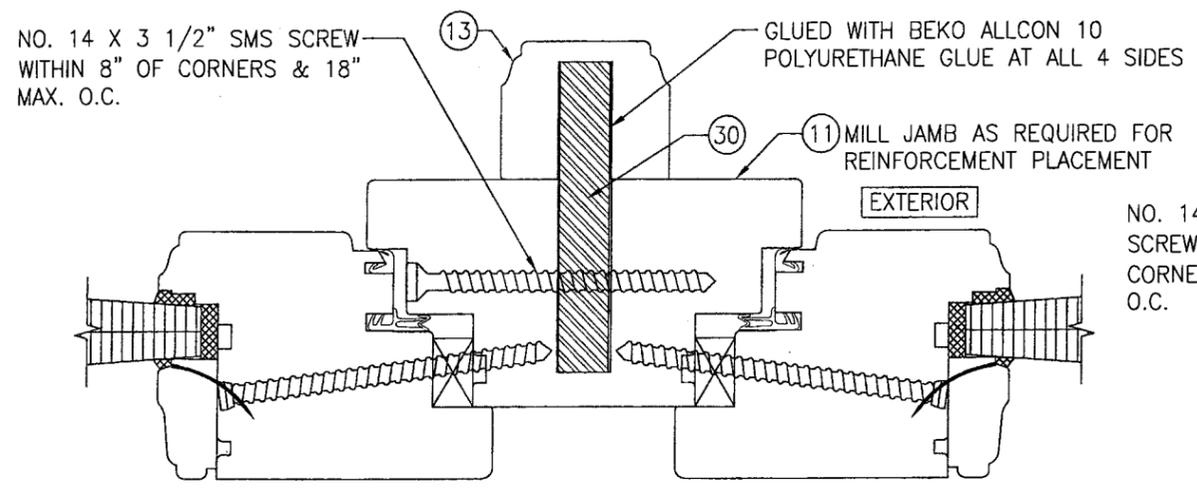


SECTION G5  
 SCALE: 1/2 FULL 12

SCREWED IN HINGE CONDITION SHOWN, POT HINGE CONDITION ALSO APPLIES  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

Approved as complying with the Florida Building Code  
 Date MAY 29, 2009  
 NOA# 09-0212.06  
 Miami Dade Product Control Division  
 By Shag I. Chaudh

|                      |  |                    |
|----------------------|--|--------------------|
| DRAWING TITLE        | DRAWN BY: W.R.M.   | CHECKED BY: W.W.S. |
|                      | PLOT: 1=2  | DATE: 10/08/08     |
| REVISION DESCRIPTION | NO.  | DATE               |
|                      | BY   |                    |
| CONSULTANTS          | TISCHLER UND SOHN (USA) LTD.   |                    |
|                      | SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                    |
| CERTIFICATION        | W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.  |                    |
|                      | 8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                    |
| DRAWING NO.          | REV.   |                    |
| 1617                 |  |                    |
| SHEET NO.            | 12 OF 19   |                    |



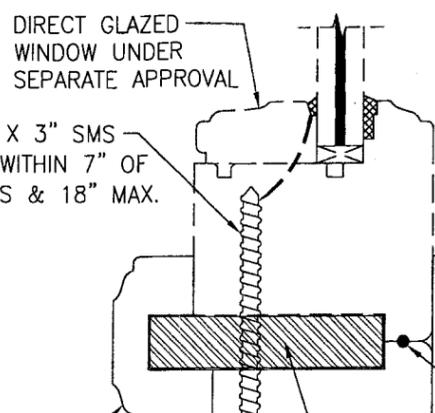
NO. 14 X 3 1/2" SMS SCREW WITHIN 8" OF CORNERS & 18" MAX. O.C.

GLUED WITH BEKO ALLCON 10 POLYURETHANE GLUE AT ALL 4 SIDES

(11) MILL JAMB AS REQUIRED FOR REINFORCEMENT PLACEMENT

SECTION G6  
SCALE: 1/2 FULL 13

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



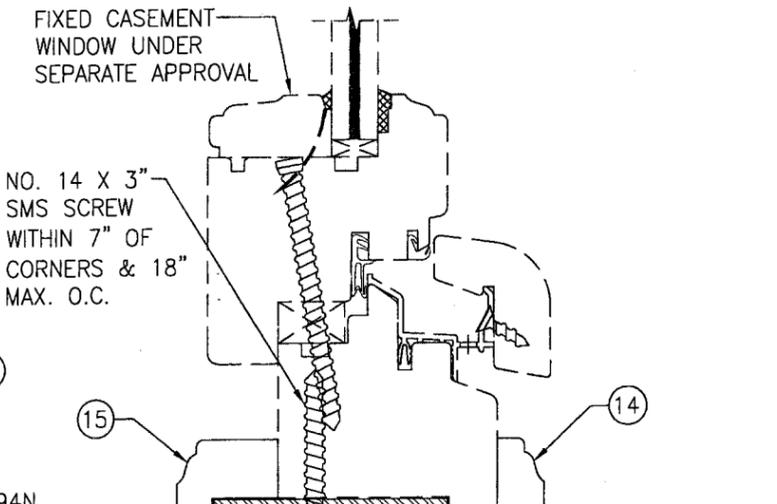
DIRECT GLAZED WINDOW UNDER SEPARATE APPROVAL

NO. 14 X 3" SMS SCREW WITHIN 7" OF CORNERS & 18" MAX. O.C.

MILL MULLION BAR COVER AS REQUIRED FOR REINFORCEMENT PLACEMENT

SECTION H1  
SCALE: 1/2 FULL 13

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)  
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR IS MULLED THE SAME)



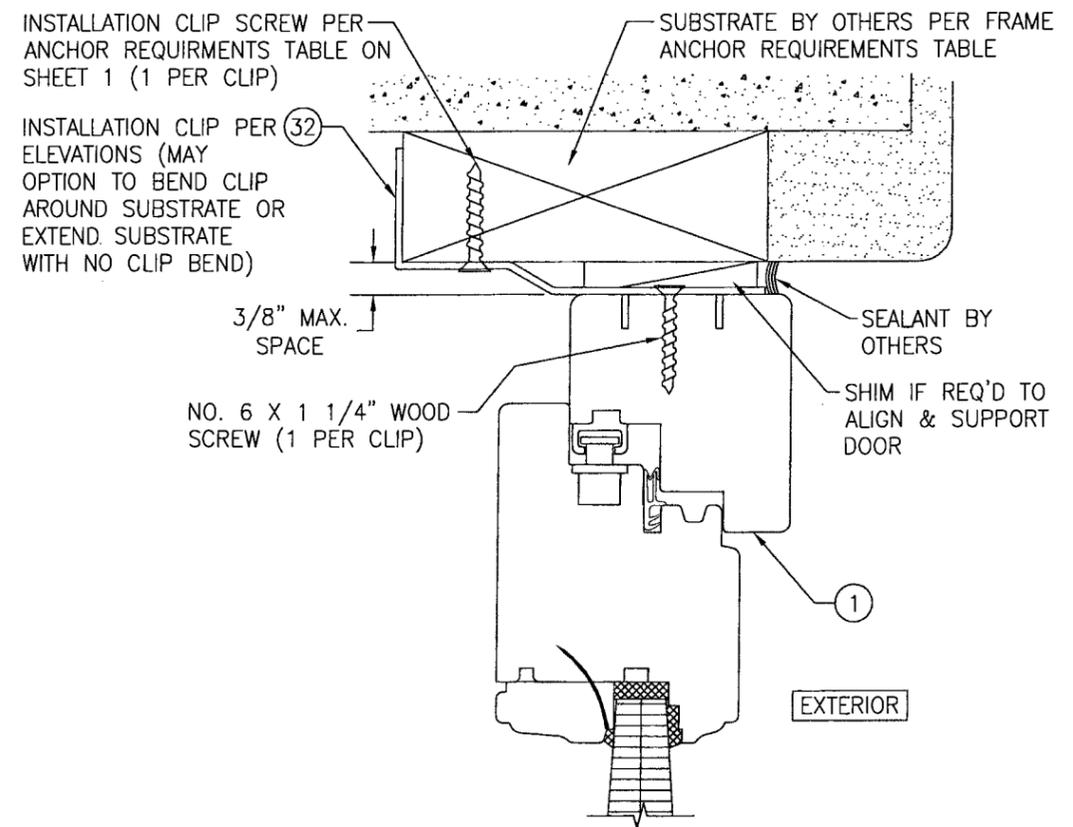
FIXED CASEMENT WINDOW UNDER SEPARATE APPROVAL

NO. 14 X 3" SMS SCREW WITHIN 7" OF CORNERS & 18" MAX. O.C.

REINFORCEMENT IS OPTIONAL & NOT REQUIRED WHEN TRANSOM IS OVER A SINGLE DOOR.

SECTION H2  
SCALE: 1/2 FULL 13

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)  
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR IS MULLED THE SAME)



INSTALLATION CLIP SCREW PER ANCHOR REQUIREMENTS TABLE ON SHEET 1 (1 PER CLIP)

SUBSTRATE BY OTHERS PER FRAME ANCHOR REQUIREMENTS TABLE

INSTALLATION CLIP PER ELEVATIONS (MAY OPTION TO BEND CLIP AROUND SUBSTRATE OR EXTEND SUBSTRATE WITH NO CLIP BEND)

3/8" MAX. SPACE

NO. 6 X 1 1/4" WOOD SCREW (1 PER CLIP)

SEALANT BY OTHERS

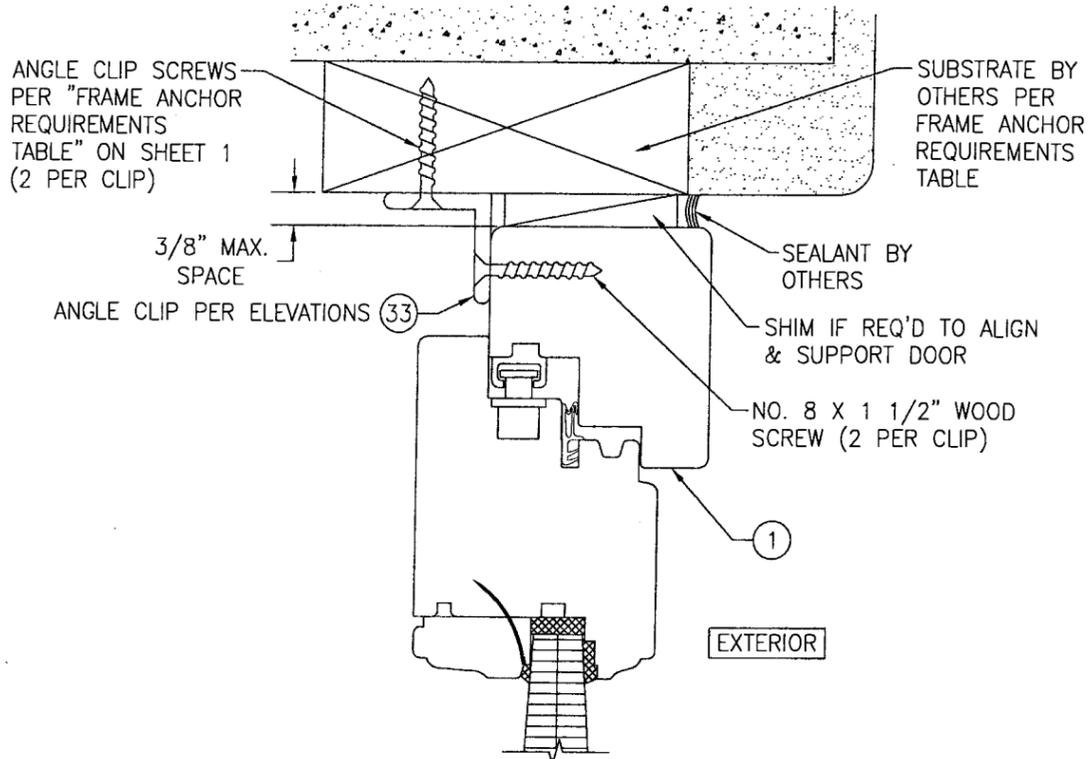
SHIM IF REQ'D TO ALIGN & SUPPORT DOOR

**OPTIONAL INSTALLATION CLIP DETAIL**

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

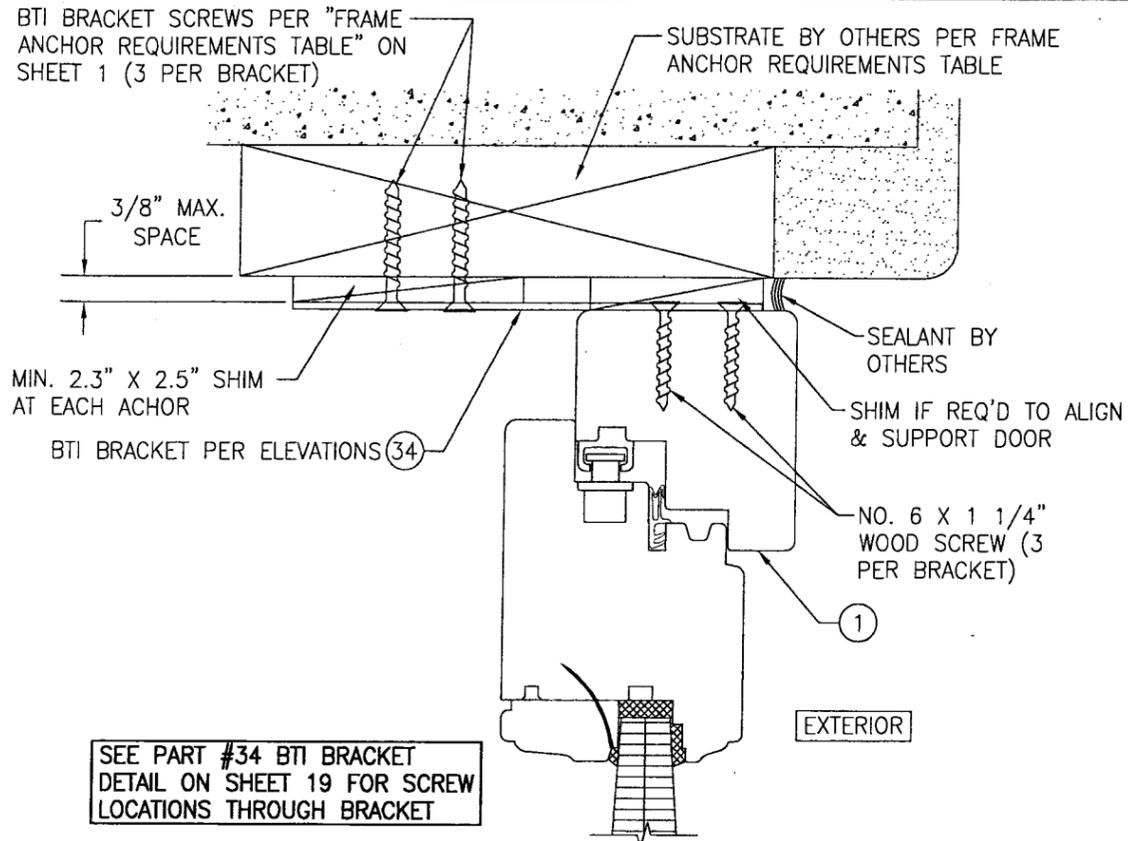
|   |                       |
|---|-----------------------|
| DRAWN BY:<br>W.R.M.   | CHECKED BY:<br>W.W.S. |
| PLOT:<br>1=2  | DATE:<br>10/08/08     |
| DATE  | BY                    |
| REVISION DESCRIPTION  | NO.                   |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                       |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                       |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                       |
| CERTIFICATION<br><b>APR 22 2009</b><br>WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135   |                       |
| DRAWING NO.<br><b>1617</b>  | REV.                  |
| SHEET NO.<br><b>13 OF 19</b>  |                       |

Approved as complying with the Florida Building Code  
Date **MAY 27 2009**  
NOA# **09-0212.06**  
Miami Dade Product Control Division  
By **[Signature]**



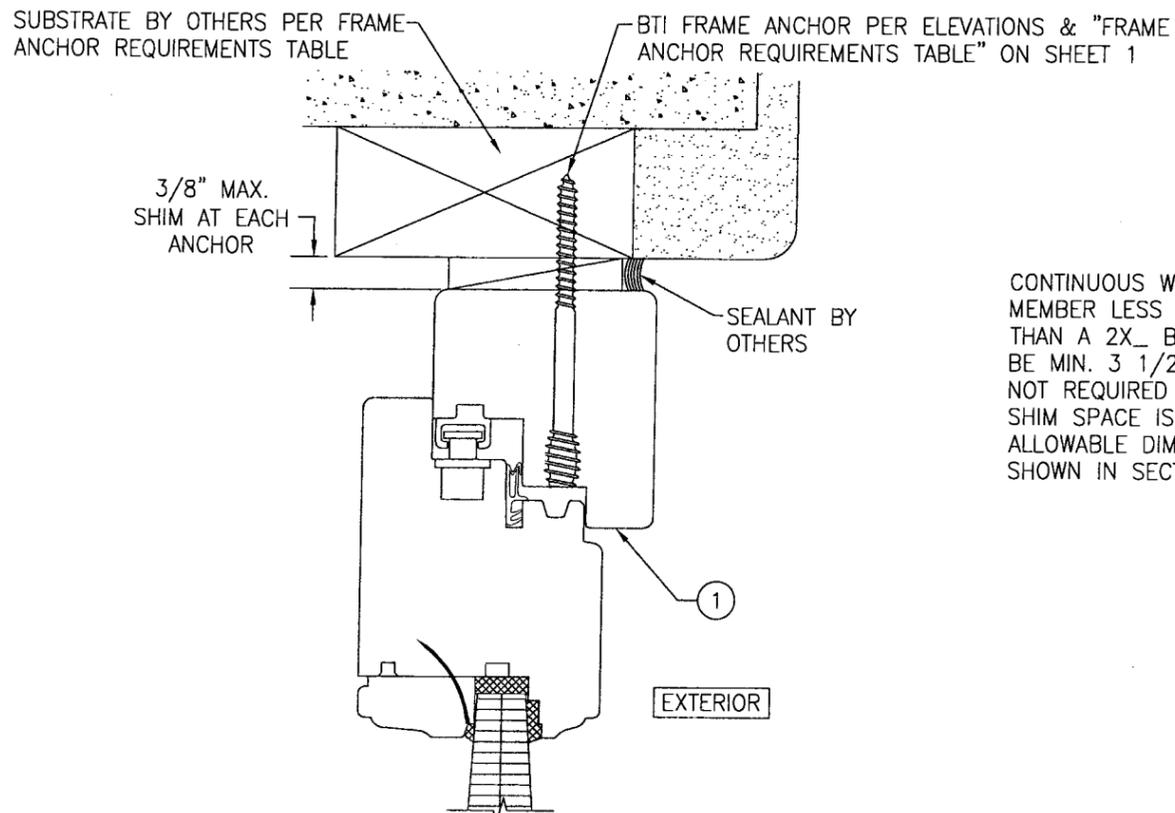
**OPTIONAL INSTALLATION ANGLE CLIP DETAIL**

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



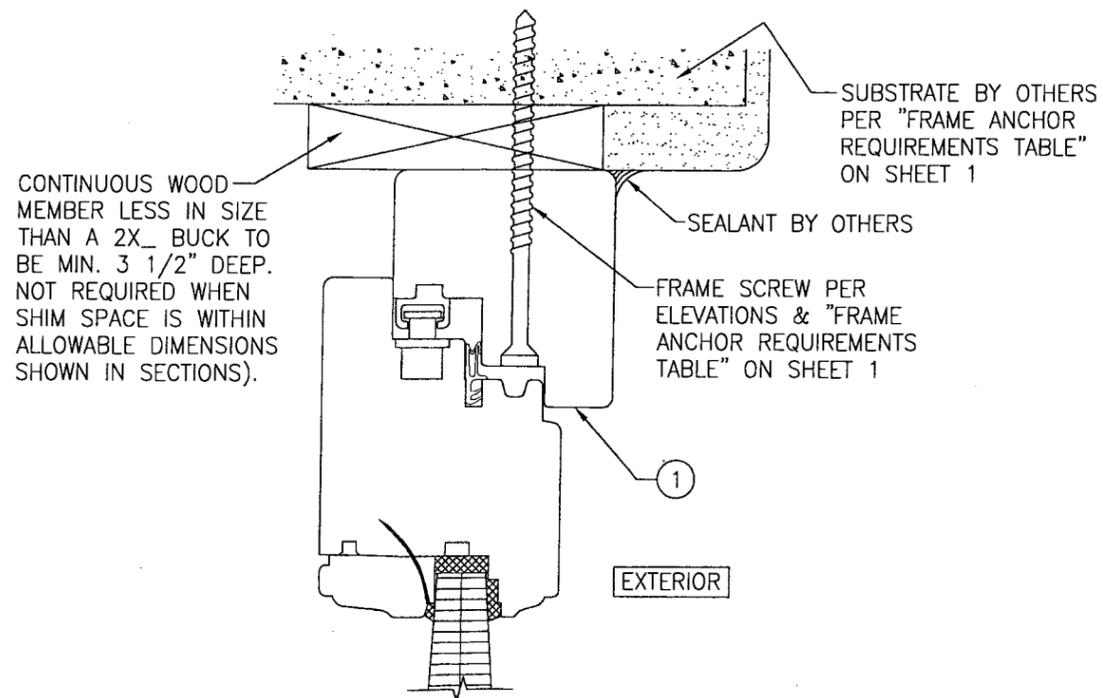
**OPTIONAL INSTALLATION BTI BRACKET DETAIL**

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**OPTIONAL BTI SCREW DETAIL**

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

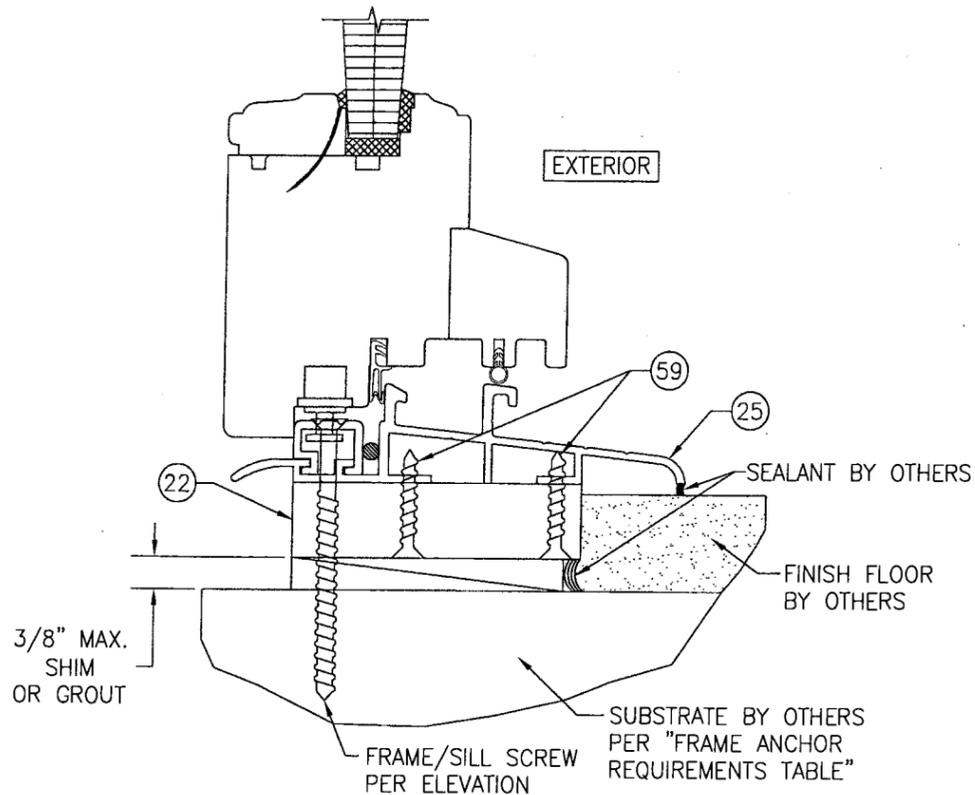


**OPTIONAL DIRECT MOUNT DETAIL  
TO SUBSTRATE WITH SPACER**

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

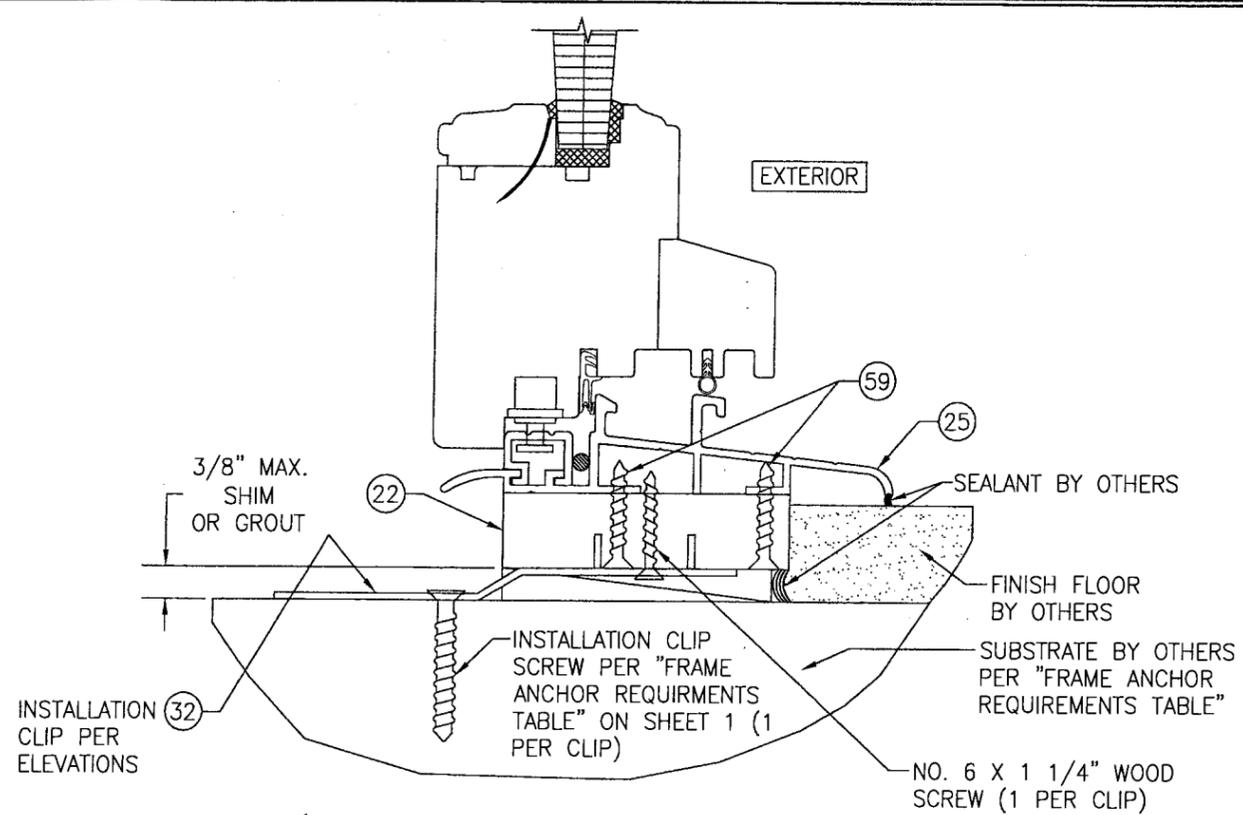
Approved as complying with the  
Florida Building Code  
Date MAY 27, 2009  
NOA# 09-0212.06  
Miami Dade Product Control  
Division  
By Chag J. Chaudhry

|                                     |                       |                   |     |                      |    |      |  |   |   |  |
|-------------------------------------|-----------------------|-------------------|-----|----------------------|----|------|--|---|---|--|
| DRAWN BY:<br>W.R.M.                 | CHECKED BY:<br>W.W.S. | DATE:<br>10/08/08 | NO. | REVISION DESCRIPTION | BY | DATE | DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b> | CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING<br/>&amp; CONSULTING, P.A.</b> | MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b> |  |
|                                     |                       |                   |     |                      |    |      |  |   |   | PLOT:<br>1=2<br>P.A. #<br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |
| CERTIFICATION<br><b>APR 22 2009</b> |                       |                   |     |                      |    |      |  | WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135                                  | DRAWING NO.<br><b>1617</b>                          | REV.   |
| SHEET NO.<br><b>14</b>              |                       |                   |     |                      |    |      |  | OF<br><b>19</b>   |   |  |



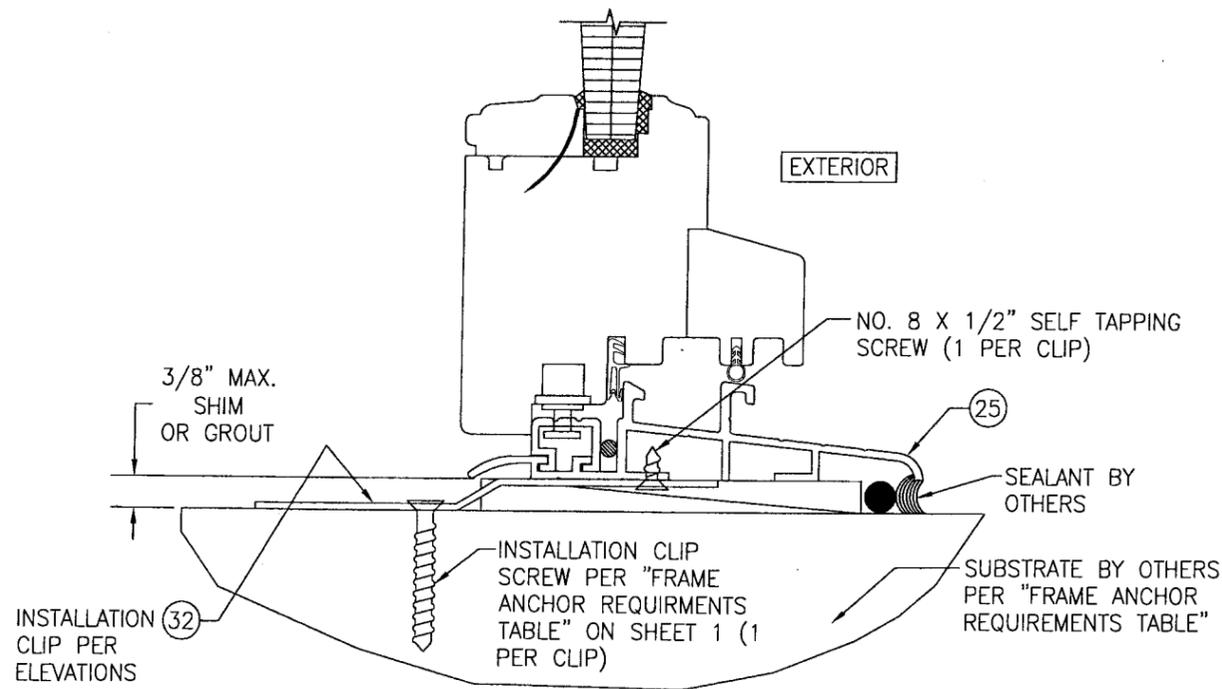
**SILL DETAIL (STANDARD SILL INSTALLED WITH FRAME/SILL SCREW & SUB-SILL)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



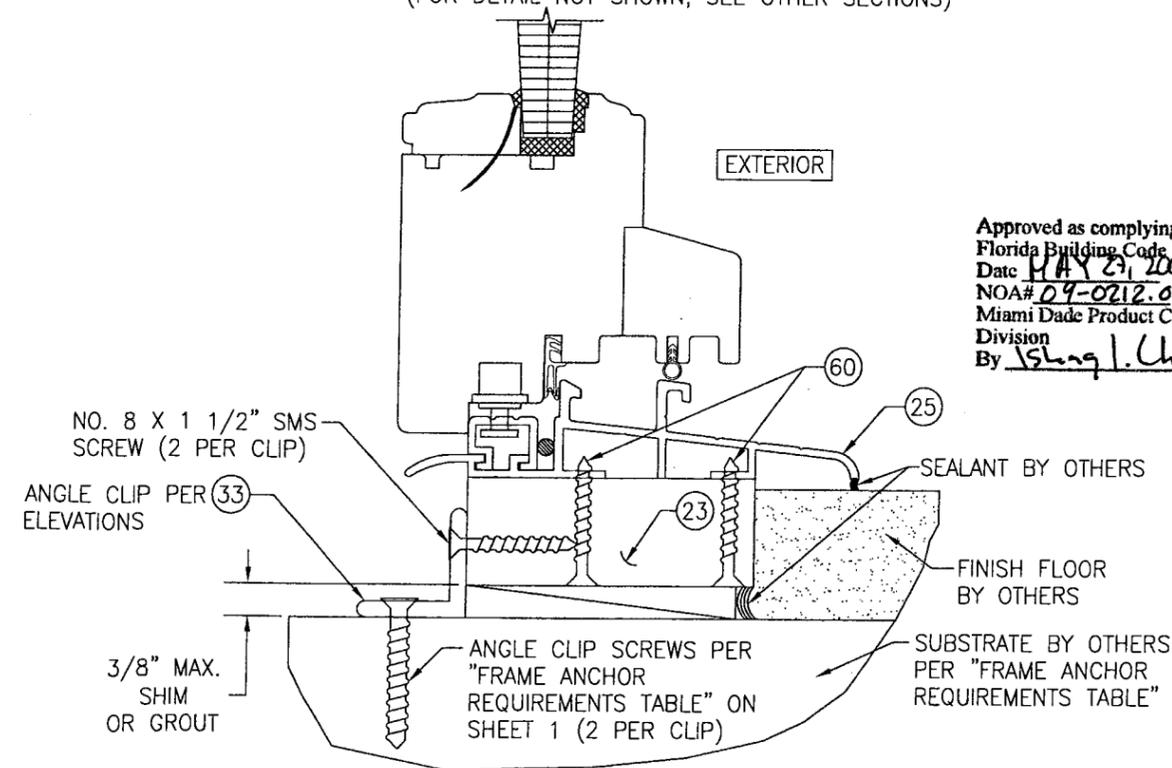
**SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP & SUB-SILL)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP & NO SUB-SILL)**

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

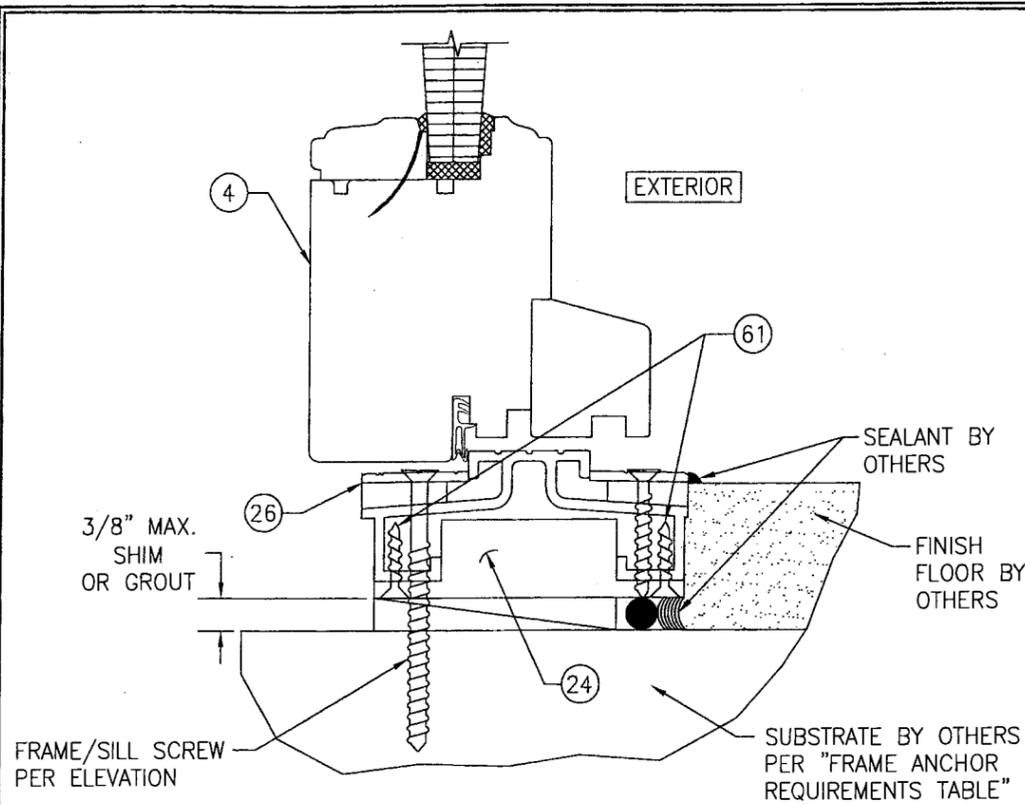


**SILL DETAIL (STANDARD SILL INSTALLED WITH ANGLE CLIP)**

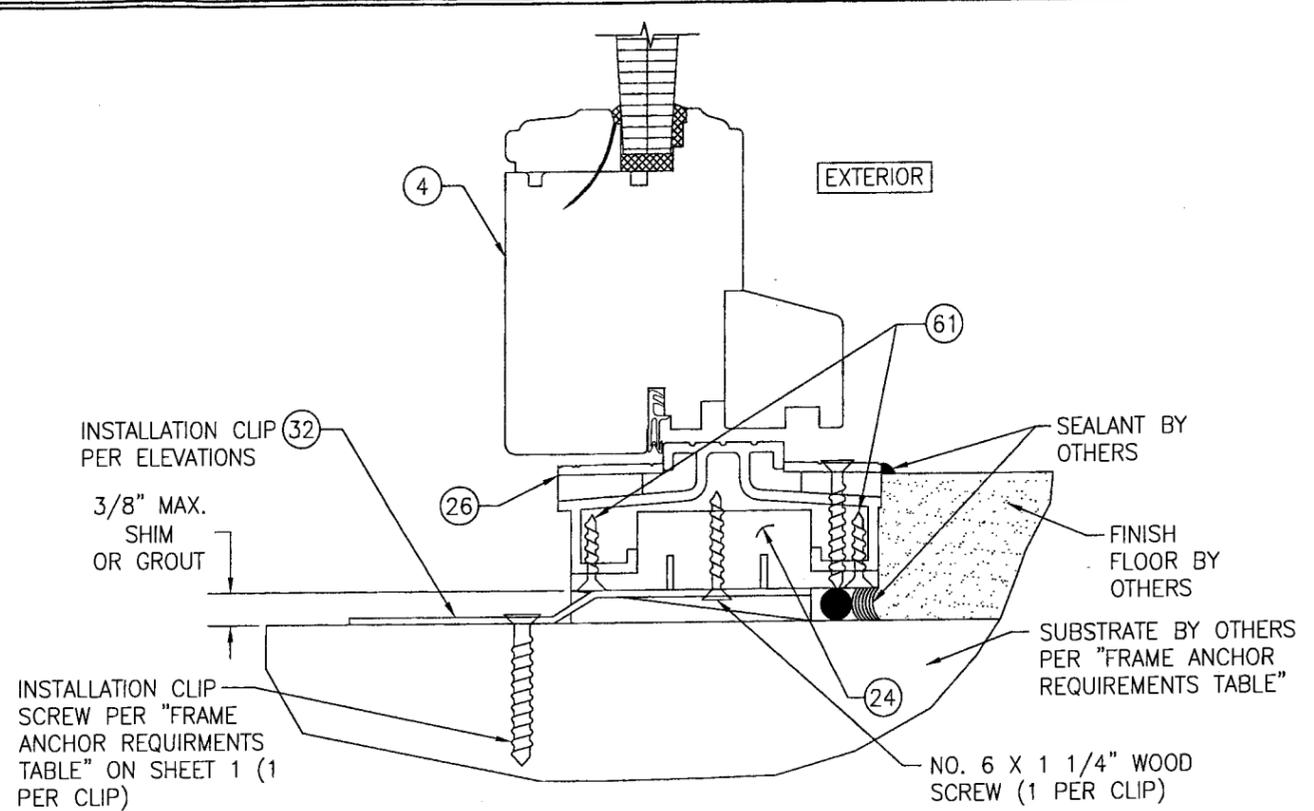
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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Date MAY 27, 2009  
NOA# 09-0212.06  
Miami Dade Product Control  
Division  
By Shang L. Chanda

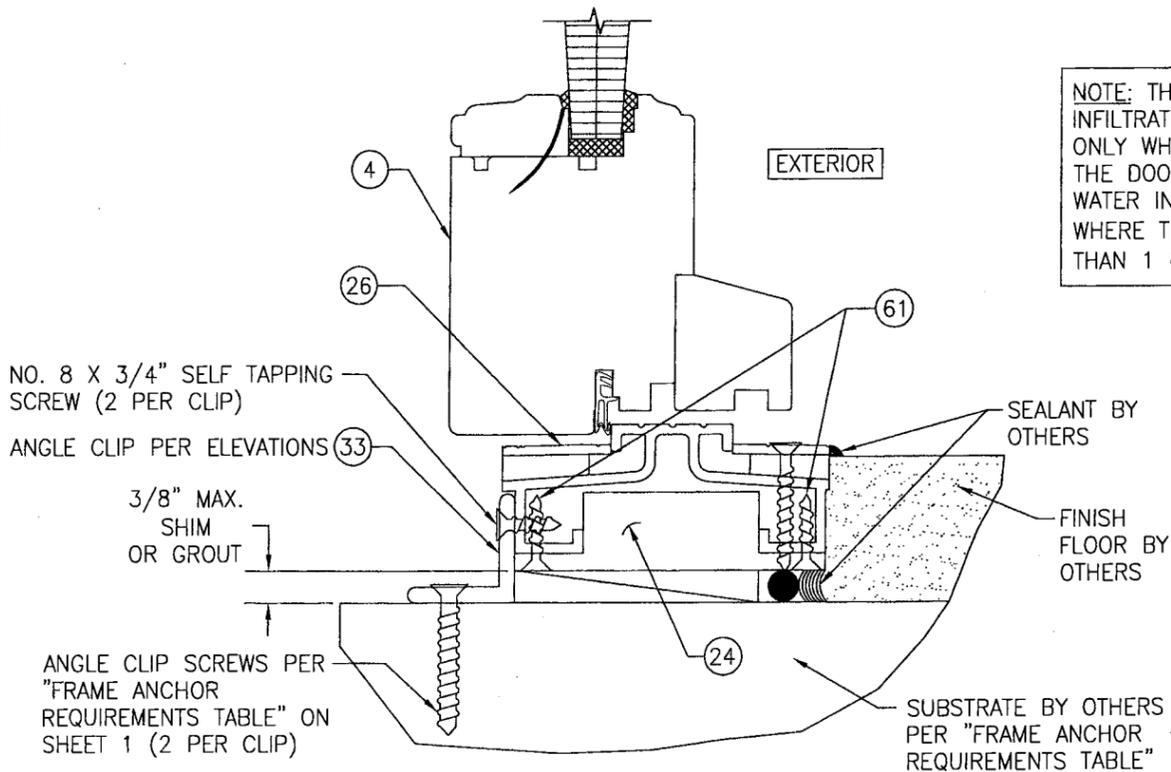
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| DRAWN BY:<br>W.R.M.   | CHECKED BY:<br>W.W.S. |
| PLOT:<br>1-2  | DATE:<br>10/08/08     |
| DATE  |                       |
| BY  |                       |
| REVISION DESCRIPTION  |                       |
| NO.   |                       |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                       |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                       |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                       |
| CERTIFICATION<br><b>APR 22 2009</b><br>WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135   |                       |
| DRAWING NO.<br><b>1617</b>  | REV.                  |
| SHEET NO.<br><b>15 OF 19</b>  |                       |



**ADA SILL DETAIL (ADA SILL INSTALLED WITH FRAME/SILL SCREW)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**ADA SILL DETAIL (ADA SILL INSTALLED WITH INSTALLATION CLIP)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

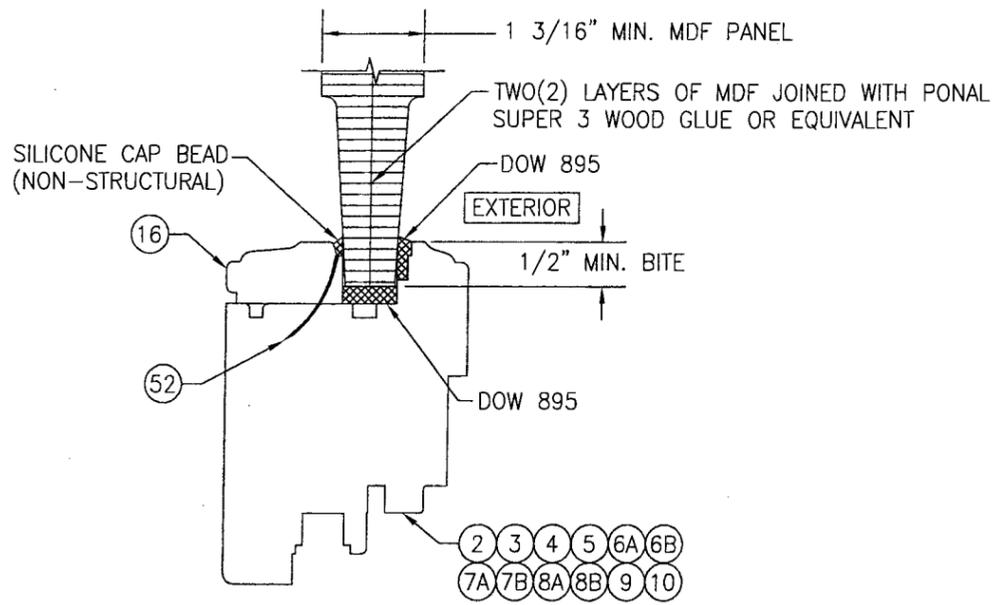


**ADA SILL DETAIL (ADA SILL INSTALLED WITH ANGLE CLIP)**  
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)  
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

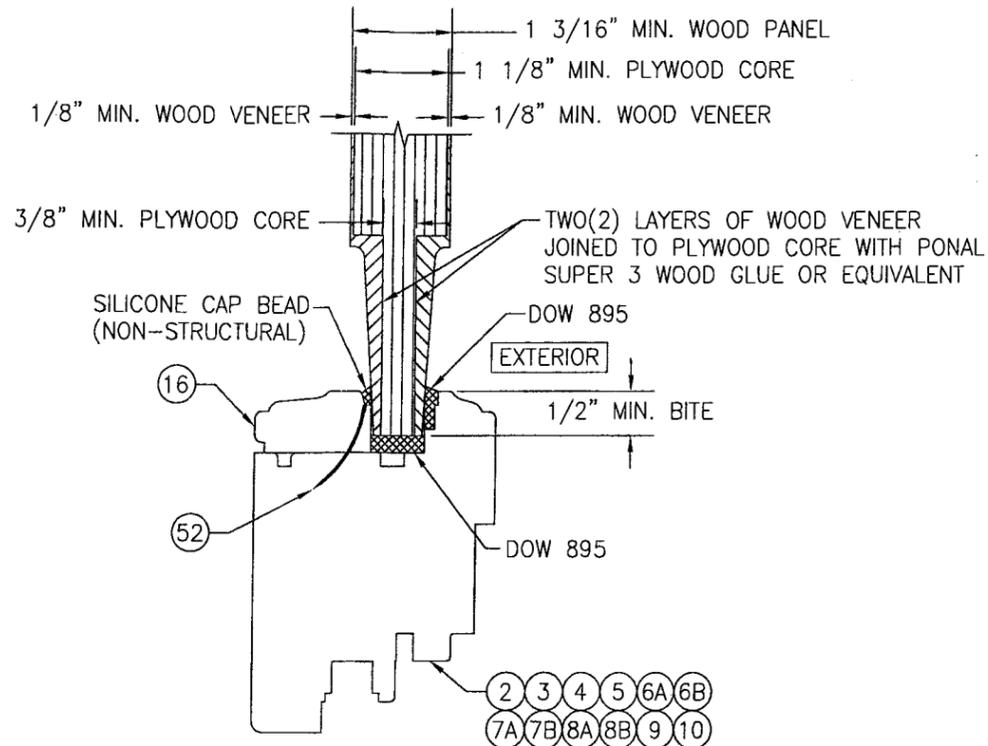
NOTE: THIS ADA SILL WAS NOT TESTED FOR WATER INFILTRATION RESISTANCE & THEREFORE IS ACCEPTABLE ONLY WHEN INSTALLED IN NONHABITABLE AREAS WHERE THE DOOR ASSEMBLY & AREA ARE DESIGNATED TO ACCEPT WATER INFILTRATION OR IF INSTALLED BELOW AN OVERHANG WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 (OH RATIO = OH LENGTH/OH HEIGHT).

Approved as complying with the  
 Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0212-06  
 Miami Dade Product Control  
 Division  
 By Shang L. Guanta

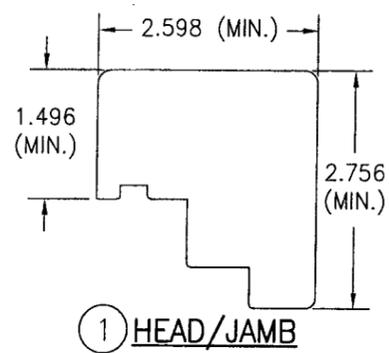
|   |  |
|---|--|
| DRAWN BY:<br>W.R.M.   | CHECKED BY:<br>W.W.S.                      |
| PLOT:<br>1=2  | DATE:<br>10/08/08                          |
| DATE  | BY   |
| REVISION DESCRIPTION  | NO.  |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |  |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |  |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |  |
| CERTIFICATION<br><b>APR 22 2009</b>   | WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135 |
| DRAWING NO.<br><b>1617</b>  | REV.                                       |
| SHEET NO.<br><b>16 OF 19</b>  |  |



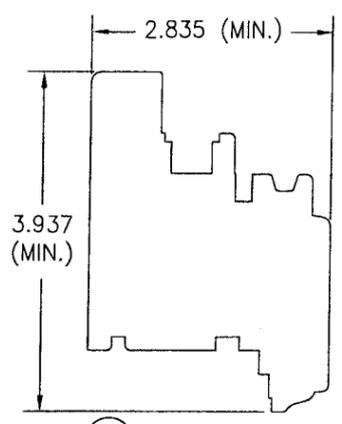
**MDF PANEL GLAZING DETAIL**



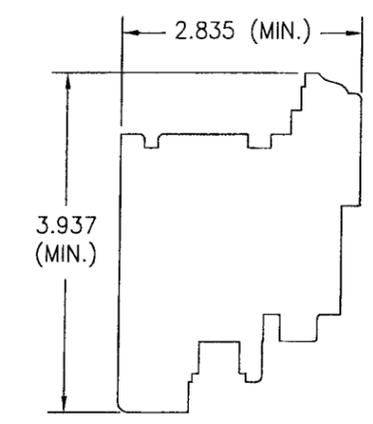
**WOOD VENEER PANEL GLAZING DETAIL**



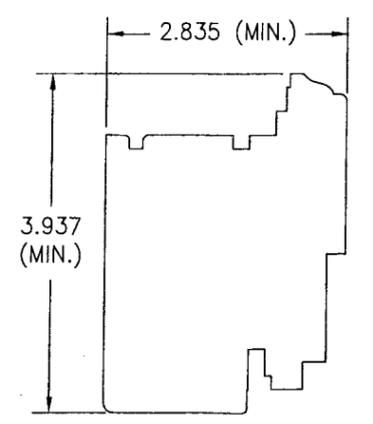
**1 HEAD/JAMB**



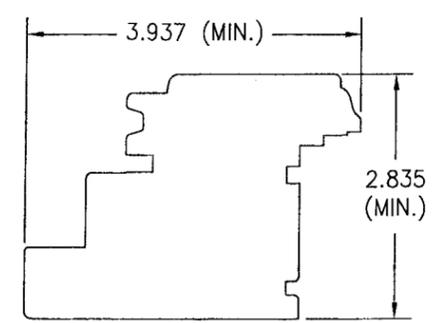
**2 TOP RAIL**



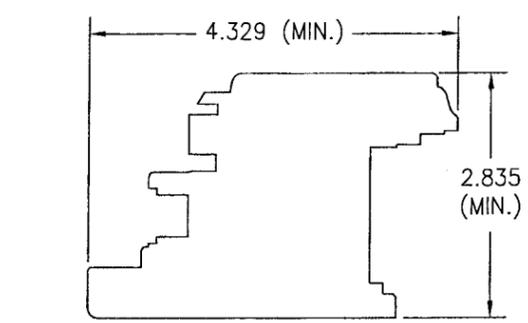
**3 STANDARD BOTTOM RAIL**



**4 BOTTOM RAIL (USED WITH ADA THRESHOLD)**



**5 STILE**

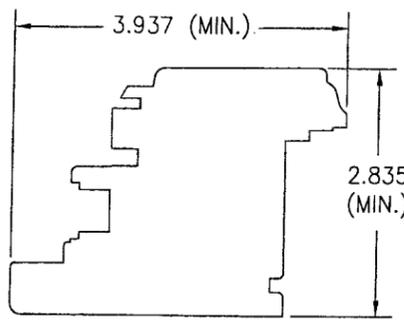


**6A ACTIVE MEETING STILE (USED WITH REINFORCEMENT)**

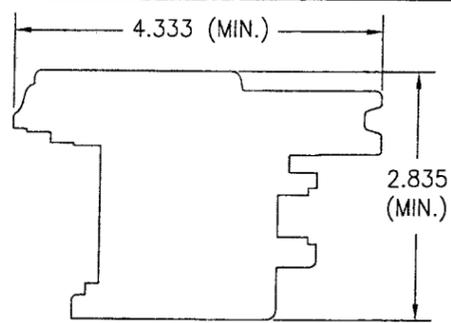
Approved as complying with the Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0212.06  
 Miami Dade Product Control Division  
 By [Signature]

|   |                      |  |      |
|---|----------------------|--|------|
| DRAWN BY: W.R.M.  |                      | CHECKED BY: W.W.S.                                   |      |
| PLOT: 1-2   |                      | DATE: 10/08/08                                       |      |
| NO.   | REVISION DESCRIPTION | BY   | DATE |
|   |                      |  |      |
| <b>DRAWING TITLE: IN-SWING IMPACT WOOD PANEL DOORS</b><br>MANUFACTURER: <b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600     |                      |  |      |
| CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                      |  |      |
| CERTIFICATION<br><b>APR 22 2009</b><br>WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135   |                      | DRAWING NO. <b>1617</b><br>SHEET NO. <b>17 OF 19</b> |      |

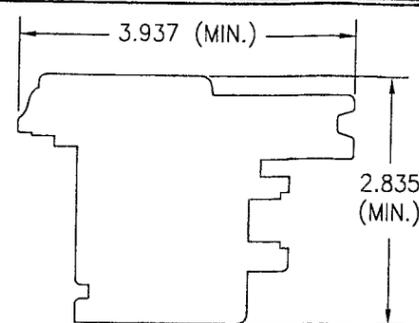
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|---------------------|-----------------------|
| DRAWN BY:<br>W.R.M. | CHECKED BY:<br>W.W.S. |
| PLOT:<br>1-2        | DATE:<br>10/08/08     |
| NO.                 | REVISION DESCRIPTION  |
|                     |                       |
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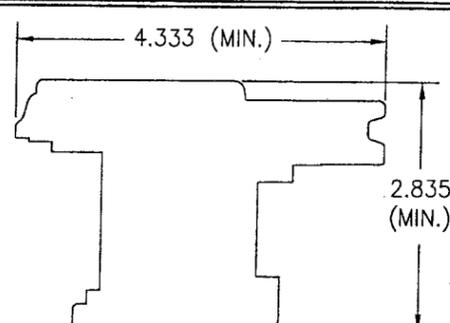
6B ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)



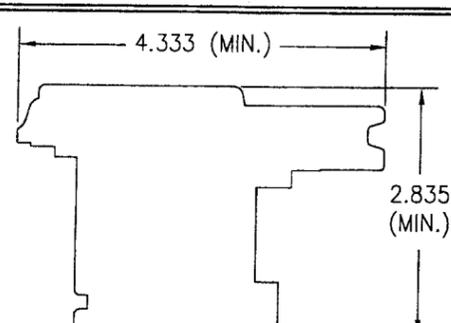
7A INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)



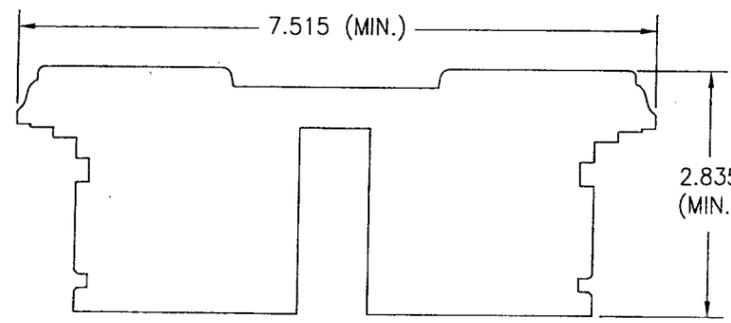
7B INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)



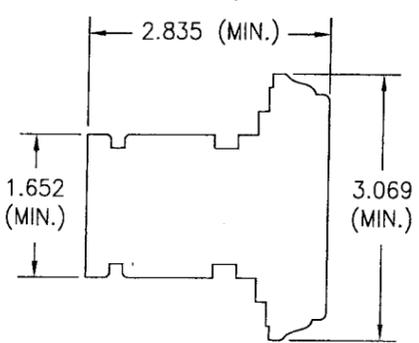
8A INACTIVE MEETING STILE (USED WITH Kfv LOCK SYSTEM & REINFORCEMENT)



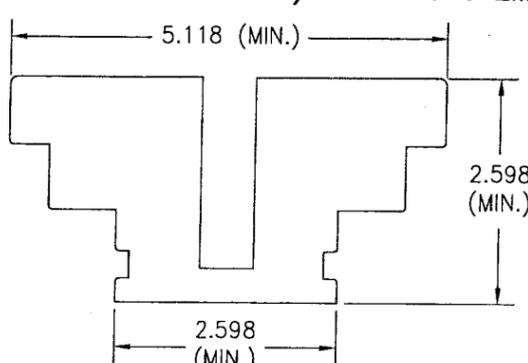
8B INACTIVE MEETING STILE (USED WITH Kfv LOCK SYSTEM & WITHOUT REINFORCEMENT)



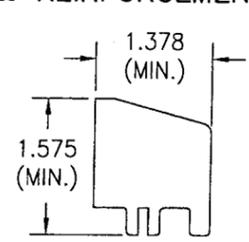
9 FIXED ASTRAGAL



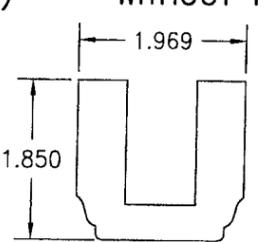
10 MID-RAIL



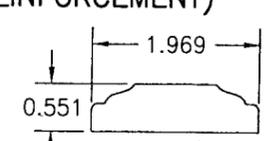
11 ONE-PIECE MULLION



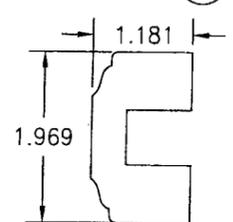
12 BOTTOM RAIL DRIP EDGE



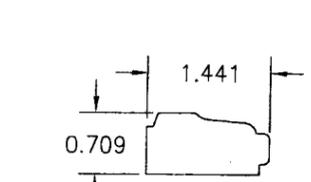
13 MULLION BAR COVER



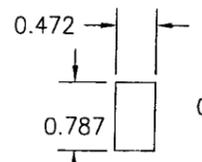
14 ASTRAGAL



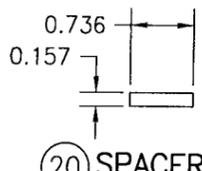
15 MULLION BAR COVER



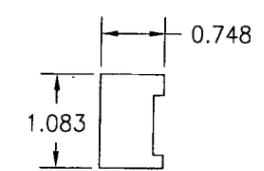
16 GLAZING BEAD



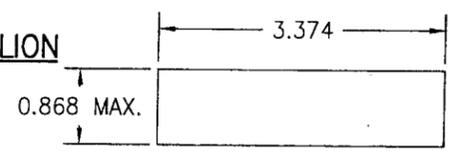
19 SPACER BLOCK



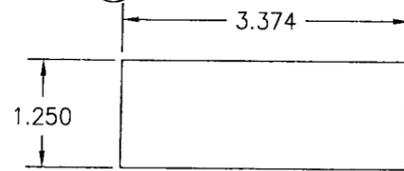
20 SPACER BLOCK



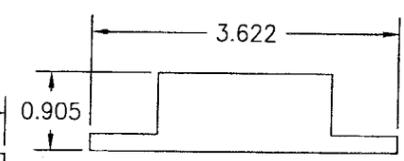
21 SPACER BLOCK (USED WITH Kfv MULTI-POINT LOCK SYSTEM)



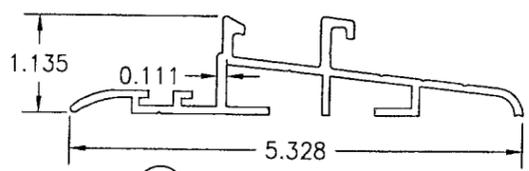
22 SUB-SILL



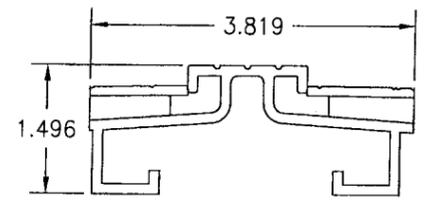
23 SUB-SILL



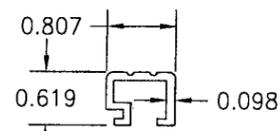
24 ADA SUB-SILL



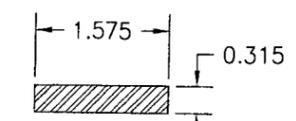
25 STANDARD SILL



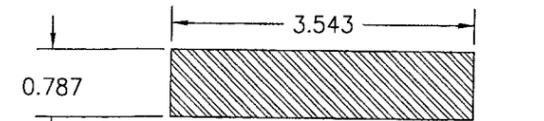
26 OPTIONAL ADA SILL



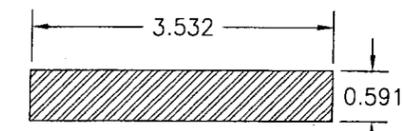
27 CONTINUOUS SILL STRIKE/COVER



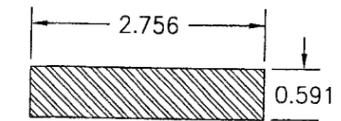
28 MEETING STILE REINFORCEMENT



29 VERTICAL FIXED ASTRAGAL REINFORCEMENT



30 VERTICAL MULLION REINFORCEMENT



31 TRANSOM MULLION REINFORCEMENT

Approved as complying with the Florida Building Code  
 Date MAY 21, 2009  
 NOA# 09-0212-06  
 Miami Dade Product Control Division  
 By Shagil Chandra

DRAWING TITLE  
**IN-SWING IMPACT WOOD PANEL DOORS**

CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**  
 8895 N. MILITARY TRAIL, SUITE C-204  
 PALM BEACH GARDENS, FL 33410  
 PHONE: 561-775-4902 FAX: 561-775-4903

MANUFACTURER  
**TISCHLER UND SOHN (USA) LTD.**  
 SIX SUBURBAN AVENUE  
 STAMFORD, CONNECTICUT 06901  
 203-674-0600

CERTIFICATION  
**APR 22 2009**  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

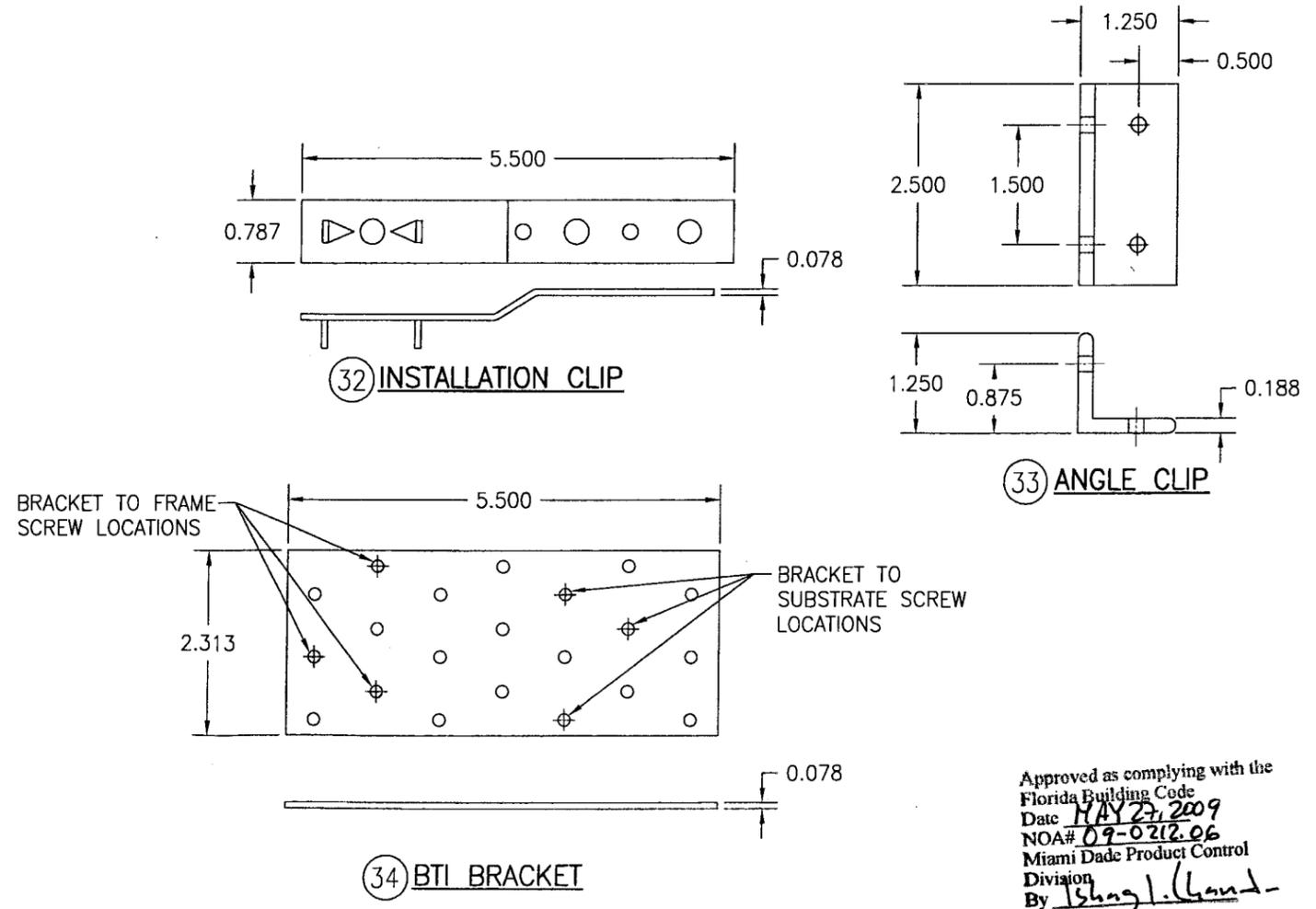
DRAWING NO.  
**1617**

REV.  
 SHEET NO.  
**18 OF 19**

| ITEM #   | ITEM DESCRIPTION  | MANUFACTURER/NOTES   |
|----------|---|--|
| PARTS    |   |  |
| 1        | HEAD/JAMB   | MAHOGANY   |
| 2        | TOP RAIL  | MAHOGANY   |
| 3        | STANDARD BOTTOM RAIL  | MAHOGANY   |
| 4        | BOTTOM RAIL (USED WITH ADA THRESHOLD)   | MAHOGANY   |
| 5        | STILE   | MAHOGANY   |
| 6A       | ACTIVE MEETING STILE (USED WITH REINFORCEMENT)                                  | MAHOGANY   |
| 6B       | ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)                               | MAHOGANY   |
| 7A       | INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)         | MAHOGANY   |
| 7B       | INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT) | MAHOGANY   |
| 8A       | INACTIVE MEETING STILE (USED WITH KJV LOCK SYSTEM & REINFORCEMENT)              | MAHOGANY   |
| 8B       | INACTIVE MEETING STILE (USED WITH KJV LOCK SYSTEM & WITHOUT REINFORCEMENT)      | MAHOGANY   |
| 9        | FIXED ASTRAGAL  | MAHOGANY   |
| 10       | MID-RAIL  | MAHOGANY   |
| 11       | ONE-PIECE MULLION   | MAHOGANY   |
| 12       | BOTTOM RAIL DRIP EDGE   | MAHOGANY   |
| 13       | MULLION BAR COVER   | MAHOGANY   |
| 14       | ASTRAGAL  | MAHOGANY   |
| 15       | MULLION BAR COVER   | MAHOGANY   |
| 16       | GLAZING BEAD  | MAHOGANY   |
| 19       | SPACER BLOCK  | MAHOGANY   |
| 20       | SPACER BLOCK  | MAHOGANY   |
| 21       | SPACER BLOCK (USED WITH KJV MULTI-POINT LOCK SYSTEM)                            | MAHOGANY   |
| 22       | SUB-SILL  | MAHOGANY   |
| 23       | SUB-SILL  | MAHOGANY   |
| 24       | ADA SUB-SILL  | MAHOGANY   |
| 25       | STANDARD SILL   | BRONZE   |
| 26       | OPTIONAL ADA SILL   | BRONZE   |
| 27       | CONTINUOUS SILL STRIKE/COVER  | BRONZE   |
| 28       | MEETING STILE REINFORCEMENT   | 34 KSI STAINLESS STEEL OR A36 STEEL  |
| 29       | VERTICAL FIXED ASTRAGAL REINFORCEMENT   | 34 KSI STAINLESS STEEL OR A36 STEEL  |
| 30       | VERTICAL MULLION REINFORCEMENT  | 34 KSI STAINLESS STEEL OR A36 STEEL  |
| 31       | TRANSOM MULLION REINFORCEMENT   | 34 KSI STAINLESS STEEL OR A36 STEEL  |
| 32       | INSTALLATION CLIP   | GALVANIZED 54 KSI STEEL  |
| 33       | ANGLE CLIP  | 6061-T6 ALUMINUM   |
| 34       | BTI BRACKET   | GALVANIZED 54 KSI STEEL  |
| HARDWARE |   |  |
| 37       | SCREWED IN HINGE  | 74mm X 16mm GENIATEC GMBH; FE 74WF<br>120mm X 16mm GENIATEC GMBH; TUE120WF<br>85mm X 20mm SIMONS BAKA; C1-20<br>130mm X 15mm ANUBA; 515 SM<br>130mm X 18mm ANUBA; 518 SM |
| 38       | POT HINGE   | BY: SIEGENIA AUBI KG TYPE: SI  |
| 39       | MULTI-POINT LOCK SYSTEM   | BY: KJV: STRAIGHT SHOOT  |
| 40       | MULTI-POINT LOCK SYSTEM   | BY: SIEGENIA AUBI KG TYPE: MUSHROOM  |
| 41       | HANDLE  | AS REQUIRED TO OPERATE LOCK SYSTEM   |

| ITEM #           | ITEM DESCRIPTION                  | MANUFACTURER/NOTES                    |
|------------------|-----------------------------------|---------------------------------------|
| SEALS & SEALANTS |                                   |                                       |
| 45               | WEATHERSTRIP                      | THERMOPLASTIC ELASTOMER; BY: DEVENTER |
| 46               | WEATHERSTRIP                      | THERMOPLASTIC ELASTOMER; BY: DEVENTER |
| 47               | WEATHERSTRIP                      | THERMOPLASTIC ELASTOMER; BY: DEVENTER |
| 48               | WEATHERSTRIP                      | THERMOPLASTIC ELASTOMER; BY: DEVENTER |
| 49               | WEATHERSTRIP                      | THERMOPLASTIC ELASTOMER; BY: WEGNER   |
| FASTENERS        |                                   |                                       |
| 52               | 0.06" X 1.26" S.S. CURVED NAIL    | 4" FROM CORNERS & 12" MAX. O.C.       |
| 53               | 0.18" X 1.57" WOOD SCREW          | 3 PER HINGE INTO STILE                |
| 54               | 0.18" X 1.57" WOOD SCREW          | 4 PER HINGE INTO JAMB                 |
| 55               | 0.30" X 3.94" BAUTEC WOOD SCREW   | WITHIN 8" OF ENDS & 18" MAX. O.C.     |
| 57               | 0.24" X 3.74" WOOD SCREW          | WITHIN 8" OF ENDS & 18" MAX. O.C.     |
| 58               | 0.18" X 2" WOOD SCREW             | WITHIN 6" OF ENDS & 17" MAX. O.C.     |
| 59               | 0.136" X 1.26" SELF TAPPING SCREW | WITHIN 4" OF ENDS & 13 3/4" MAX. O.C. |
| 60               | 0.136" X 1.50" SELF TAPPING SCREW | WITHIN 4" OF ENDS & 13 3/4" MAX. O.C. |
| 61               | 0.11" X 0.87" SELF TAPPING SCREW  | WITHIN 4" OF ENDS & 13 3/4" MAX. O.C. |

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,600,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.



Approved as complying with the Florida Building Code  
 Date MAY 27, 2009  
 NOA# 09-0312.06  
 Miami Dade Product Control Division  
 By Isang J. Gant

|   |                       |
|---|-----------------------|
| DRAWN BY:<br>W.R.M.   | CHECKED BY:<br>W.W.S. |
| PLOT: 1=2   | DATE: 10/08/08        |
| DATE  |                       |
| BY  |                       |
| REVISION DESCRIPTION  |                       |
| NO.   |                       |
| DRAWING TITLE<br><b>IN-SWING IMPACT WOOD PANEL DOORS</b>  |                       |
| MANUFACTURER<br><b>TISCHLER UND SOHN (USA) LTD.</b><br>SIX SUBURBAN AVENUE<br>STAMFORD, CONNECTICUT 06901<br>203-674-0600   |                       |
| CONSULTANTS<br><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b><br>8895 N. MILITARY TRAIL, SUITE C-204<br>PALM BEACH GARDENS, FL 33410<br>PHONE: 561-775-4902 FAX: 561-775-4903 |                       |
| CERTIFICATION<br><b>APR 22 2009</b><br>W. W. SCHAEFER, P.E.<br>P.E. NO. 44135   |                       |
| DRAWING NO.<br><b>1617</b>  | REV.                  |
| SHEET NO.<br><b>19 OF 19</b>  |                       |