



MIAMI-DADE COUNTY
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.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Town & Country Industries, Inc.
400 West McNab Road
Ft. Lauderdale, Florida 33309

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.050" (min.) Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 05-353, titled "0.050" Aluminum Storm Panel", sheets 1 through 6 of 6, prepared by Thornton-Tomasetti Group, dated June 29, 2005, last revision #0 dated June 29, 2005 signed and sealed by V.J. Knezevich, P.E. bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the 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 **revises & renews** NOA # **03-0421.13** & consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



Helmy A. Makar
 02/16/2006

NOA No 05-0713.03
Expiration Date: 11/16/2010
Approval Date: 02/16/2006
Page 1

Town & Country Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0809.03

A. DRAWINGS:

1. *Drawing Number 00-159, titled " 0.050" Aluminum Storm Panel", sheets 1 through 6 of 6, prepared by Knezevich & Associates, dated August 1, 2000, last revision #1 dated October 26, 2000, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS:

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.050" aluminum storm panels, prepared by Construction Testing Corporation, Test Report No. CTC 00-028 dated 06/28/2000, signed and sealed by Christopher G. Tyson, P.E.*

C. CALCULATIONS:

1. *Comparative Analysis and Anchor Analysis, dated 07/12/2000, pages 1 through 56, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*
2. *Comparative Analysis, dated 10/26/2000, pages 1 through 3, prepared by Knezevich & Associates, Inc., signed by V. J. Knezevich, P.E.*

D. MATERIAL CERTIFICATION:

1. *Mill Certified Inspection Report of coils, for Aluminum Alloy 3004-H34 by Jupiter Aluminum Corp. with physical properties.*
2. *Certified Tensile Test Report by Certified Testing Laboratories, Report No. CTL-592F dated 06/26/2000, for Aluminum Alloy, signed and sealed by Ramsh Patel, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0421.13

A. DRAWINGS

1. *Drawing No. 03-259, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Knezevich & Associates, Inc., dated April 04, 2003, last revision #1 dated September 23, 2003 signed and sealed by V.J. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*



Helmy A. Makar, P. E.
Product Control Examiner
NOA No 05-0713.03
Expiration Date: 11/16/2010
Approval Date: 02/16/2006

Town & Country Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSOURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 05-353, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Thornton-Tomasetti Group, dated June 29, 2005, last revision #0 dated June 29, 2005 signed and sealed by V.J. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

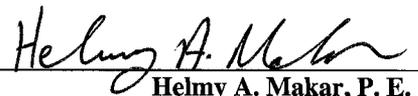
1. *Anchor Analysis, dated June 15, 2005, 39 pages, prepared by Thornton-Tomasetti Group, signed and sealed by V. J. Knezevich, P.E.*

D. QUALITY ASSOURANCE

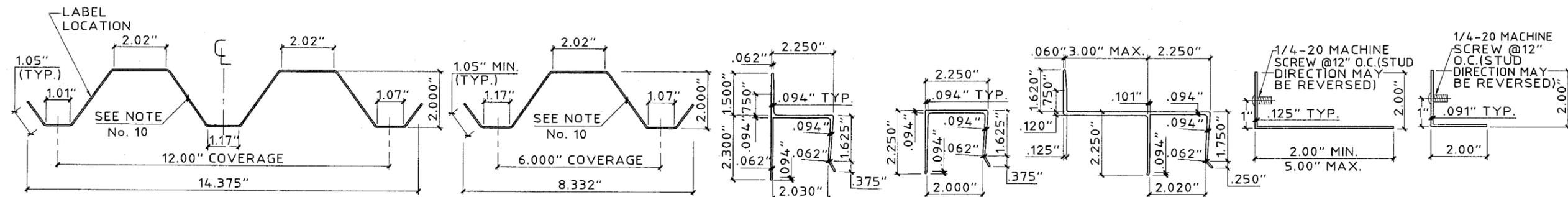
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

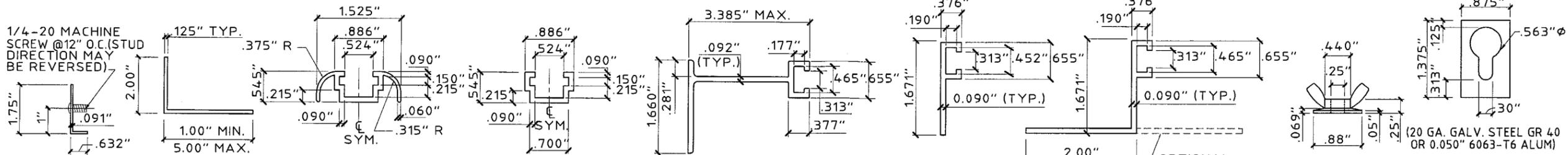
1. *None.*



Helmy A. Makar, P. E.
Product Control Examiner
NOA No 05-0713.03
Expiration Date: 11/16/2010
Approval Date: 02/16/2006



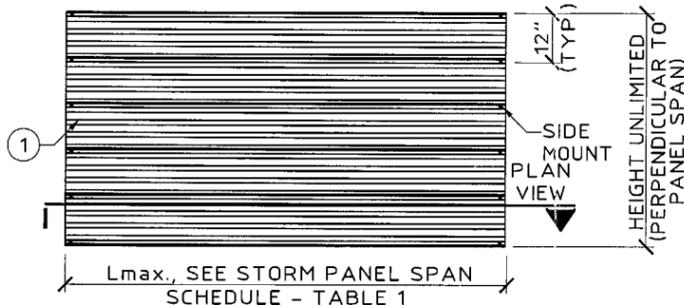
1 STORM PANEL SCALE: 3" = 1'-0"
1a HALF STORM PANEL SCALE: 3" = 1'-0"
2 "h" HEADER SCALE: 3" = 1'-0"
3 "U" HEADER SCALE: 3" = 1'-0"
3a BUILD-OUT "U" HEADER SCALE: 3" = 1'-0"
4 STUD ANGLE SCALE: 3" = 1'-0"
4a STUD ANGLE SCALE: 3" = 1'-0"



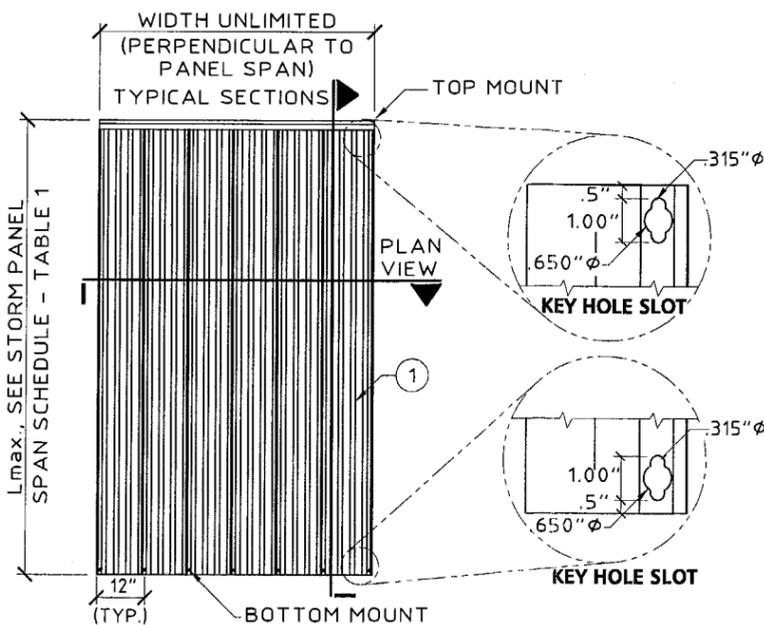
4b STUD ANGLE SCALE: 3" = 1'-0"
5 ANGLE SCALE: 3" = 1'-0"
6 C-TRACK (FINISH) SCALE: HALF SIZE
6a C-TRACK SCALE: HALF SIZE
7 BUILD-OUT F-TRACK SCALE: HALF SIZE
8 "F" TRACK SCALE: HALF SIZE
8a "F" ANGLE TRACK SCALE: HALF SIZE
9 WING NUT SCALE: HALF SIZE
10 KEYHOLE WASHER SCALE: HALF SIZE

GENERAL NOTES:

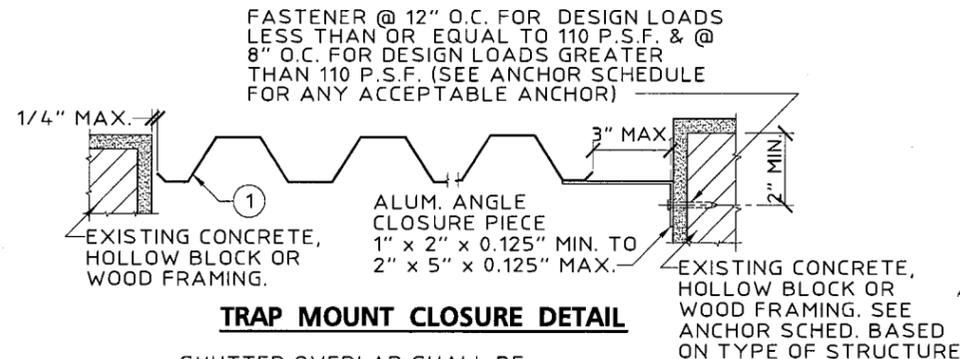
- THESE APPROVAL DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE 2004.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD LAG SCREW DESIGN.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY.
- THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
- USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
 A) REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
 B) REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION
- WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
- PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MINIMUM OF ONE MARKING PER PANEL AND SHALL BE PERMANENTLY LABELED AS FOLLOWS:
TOWN & COUNTRY INDUSTRIES, INC.
FT. LAUDERDALE, FL.
MIAMI-DADE COUNTY PRODUCT APPROVED
- STORM PANELS SHALL BE 3004-H34 OR 5052-H34 ALUMINUM ALLOY, WITH THE FOLLOWING MINIMUM THICKNESS AND MECHANICAL PROPERTIES: NOMINAL 0.050"
- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N.
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR "h" AND "U" HEADER MOUNTING CONDITIONS.



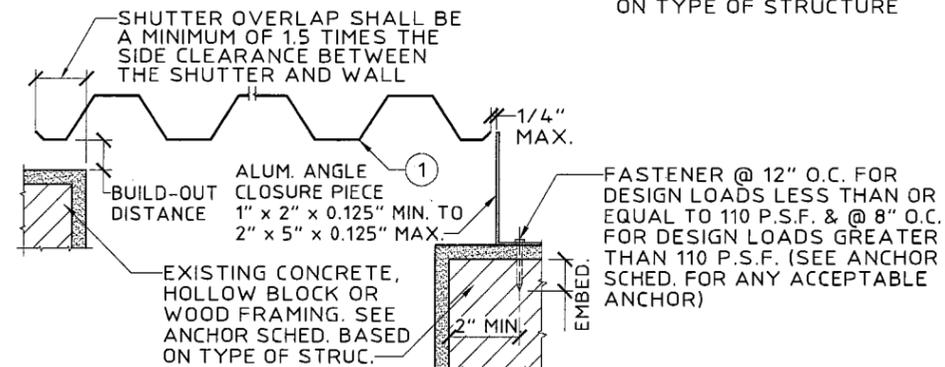
TYPICAL HORIZONTAL ELEVATION
 SCALE: 1/4" = 1' - 0"



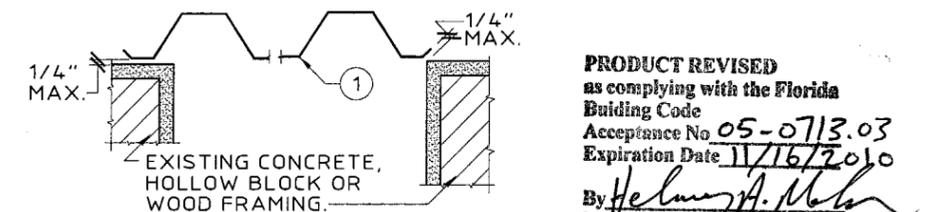
TYPICAL VERTICAL ELEVATION
 SCALE: 1/4" = 1' - 0"



TRAP MOUNT CLOSURE DETAIL



BUILD-OUT MOUNT CLOSURE DETAIL



WALL MOUNT CLOSURE DETAIL

TYPICAL CLOSURE DETAILS (PLAN)
 SCALE: 1-1/2" = 1'-0"

Thornton-Tomasetti Group
 330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
 Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519
 Website: www.TheTTGroup.com

0.050" ALUMINUM STORM PANEL
Town & Country INDUSTRIES, INC.
 A Division of ABC Supply Co., Inc.
 400 West McNab Road • Fort Lauderdale, FL 33309
 Phone: (866) 220-5019 • Fax: (954) 970-7705

V.J. Knezevich
 Professional Engineer
 FL License No. PE0010983

JUN 29 2005

no.	date	by	description
0	06/29/05	NW	PREVIOUSLY DRAWING NO. 03-259

revisions

date 06/29/2005

scale AS NOTED

design by NW

checked by VJK

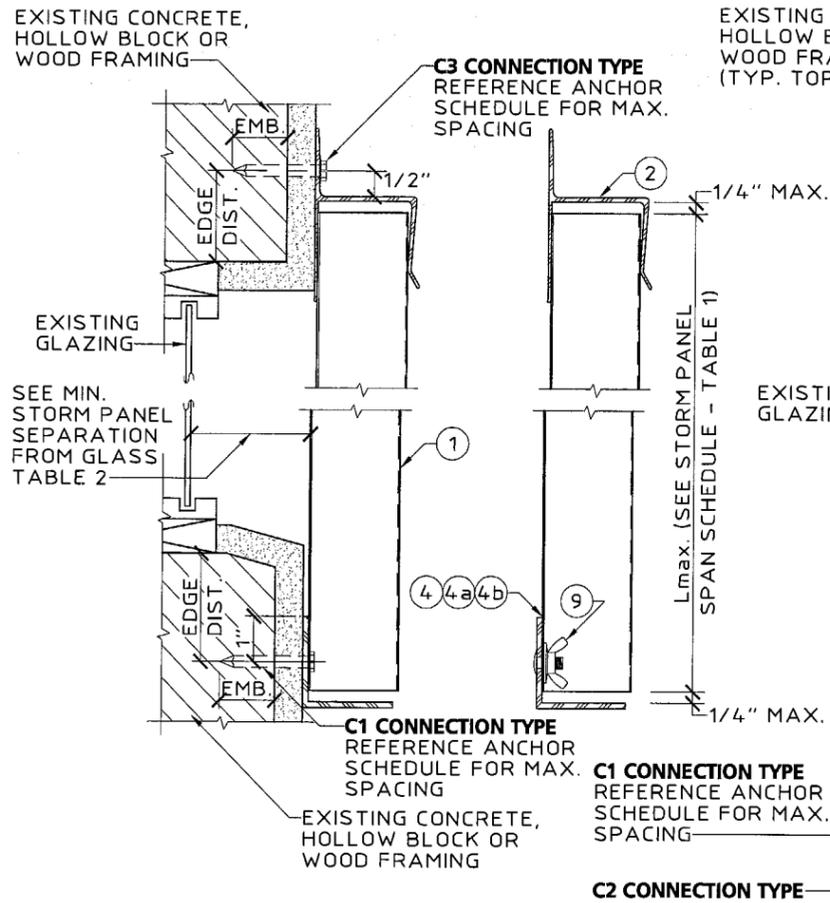
drawn by MCR

checked by VJK

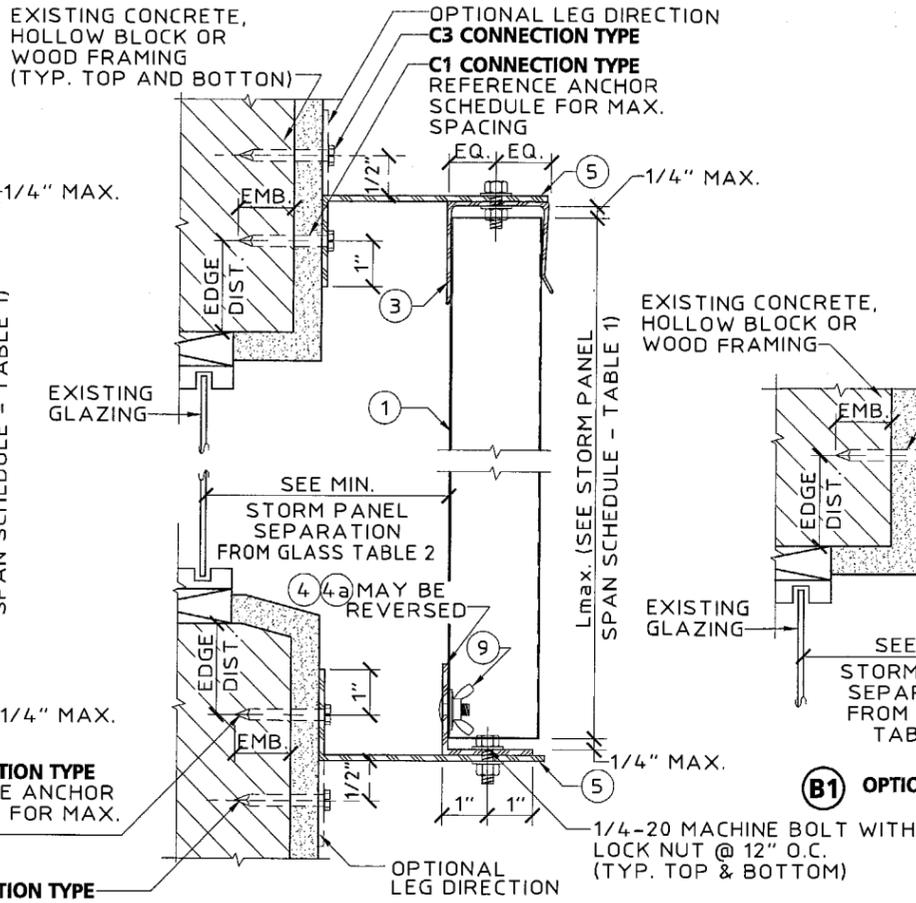
drawing no. **05-353**

sheet 1 of 6

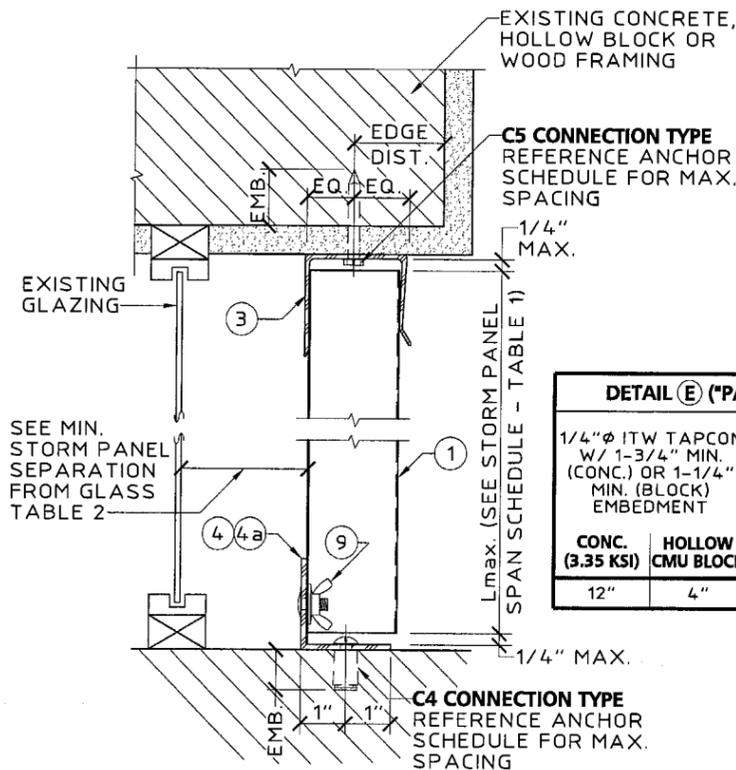
PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No **05-0713.03**
 Expiration Date **11/16/2010**
 By *Helmut A. Mohr*
 Miami Dade Product Control Division



A WALL MOUNT SECTION
SCALE: 3" = 1' - 0"

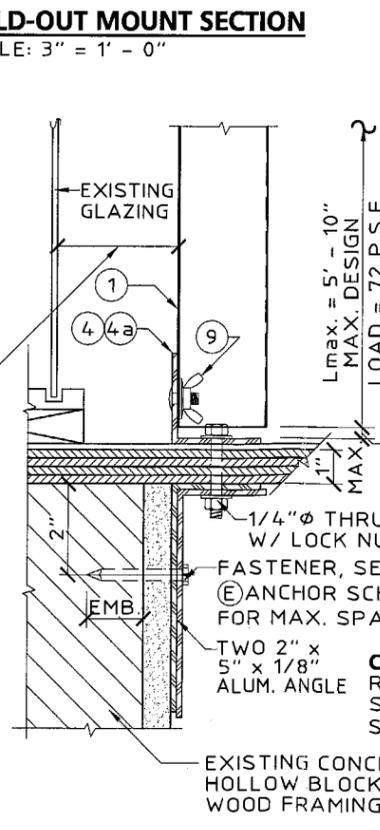


B BUILD-OUT MOUNT SECTION
SCALE: 3" = 1' - 0"

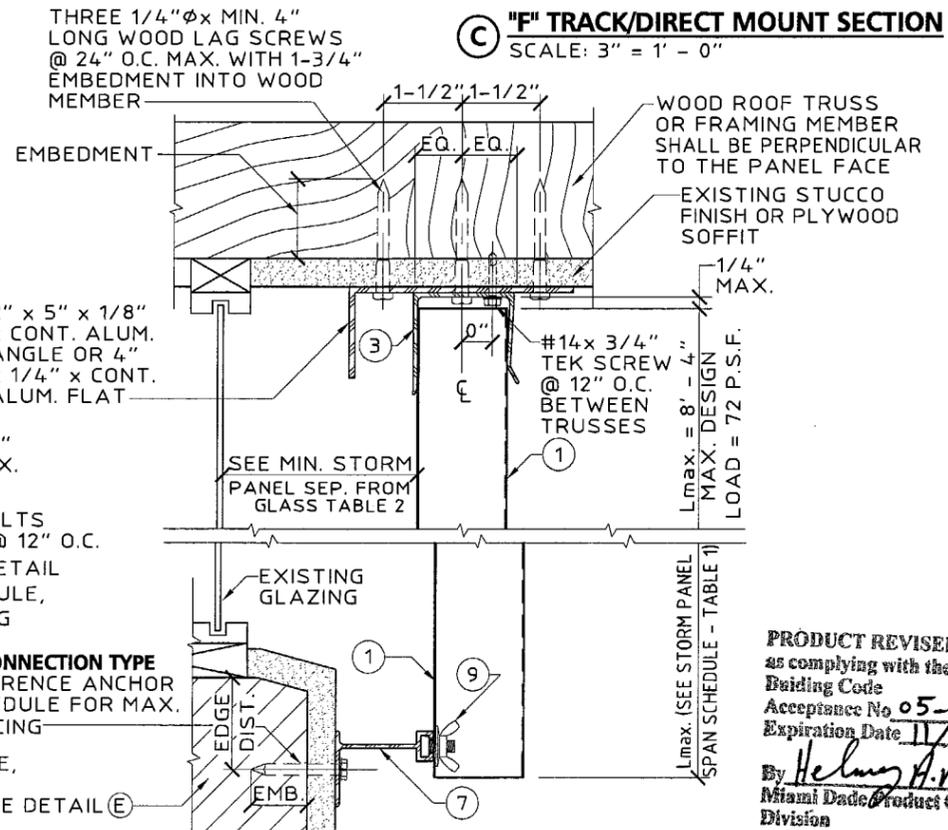


D CEILING/FLOOR MOUNT SECTION
SCALE: 3" = 1' - 0"

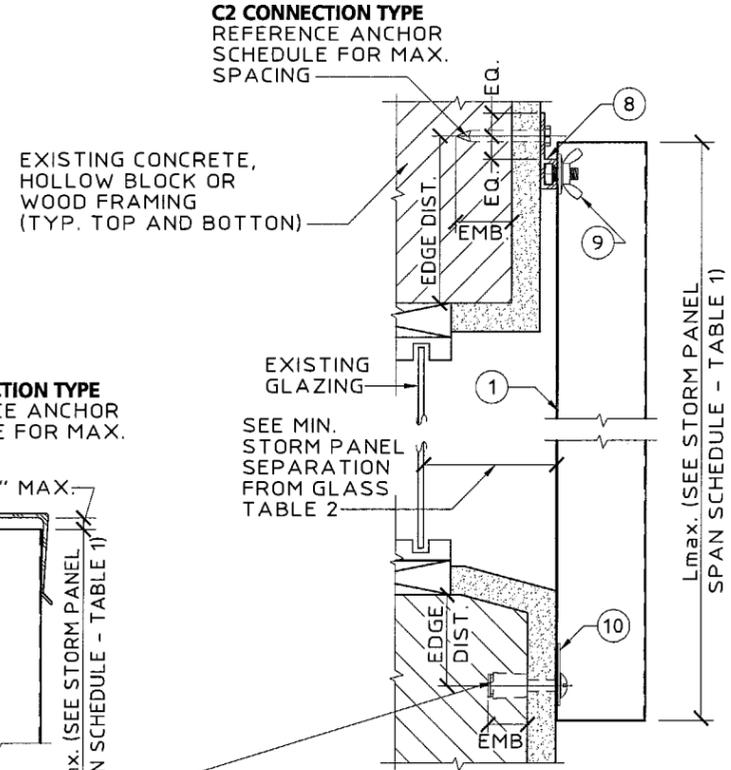
DETAIL (E) ("PASS THRU" SEC.) ANCHOR SCHEDULE			
CONC. (3.35 KSI)	HOLLOW CMU BLOCK	CONC. (3.35 KSI)	WOOD
12"	4"	7"	12"



E "PASS THRU" SECTION
SCALE: 3" = 1' - 0"



F CEILING MOUNT / BUILD OUT SECTION
SCALE: 3" = 1' - 0"



C "F" TRACK/DIRECT MOUNT SECTION
SCALE: 3" = 1' - 0"

FASTENER @ 6" O.C. OR @ 12" O.C. BUT DO NOT EXCEED ANCHOR SCHEDULE SPACING. USE REMOVABLE ANCHORS ONLY W/ KEYHOLE WASHER. LOCATE FASTENER IN NARROW PORTION OF KEYHOLE WASHER

C1 CONNECTION TYPE
REFERENCE ANCHOR SCHEDULE FOR MAX. SPACING

Thornton-Tomasetti Group
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519
Website: www.TheTTGroup.com

ALUMINUM STORM PANEL

Form & Country INDUSTRIES, INC.
A Division of ABC Supply Co., Inc.
400 West McNab Road • Fort Lauderdale, FL 33309
Phone: (866) 220-5019 • Fax: (954) 970-7705

V.J. Knezevich
Professional Engineer
FL License No. PE 0010983

[Signature]

JUN 29 2005

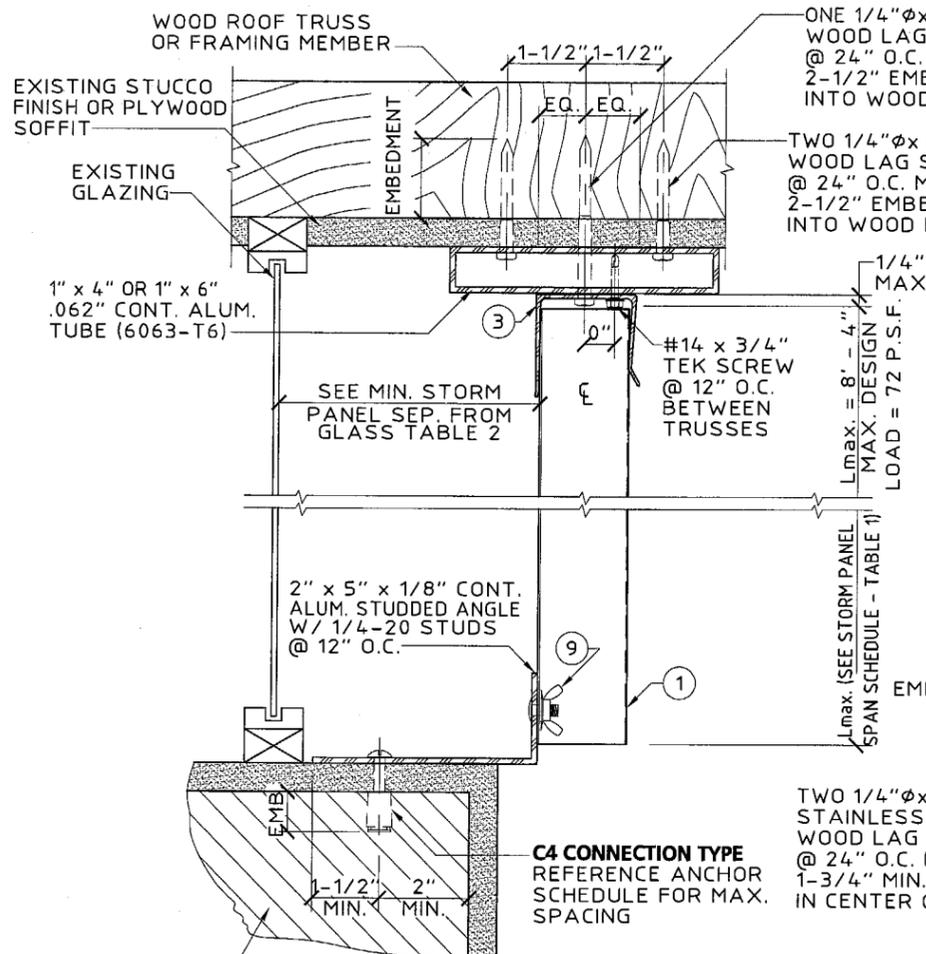
revisions

no.	date	by	description
0	06/29/05	NW	PREVIOUSLY DRAWING NO. 03-255

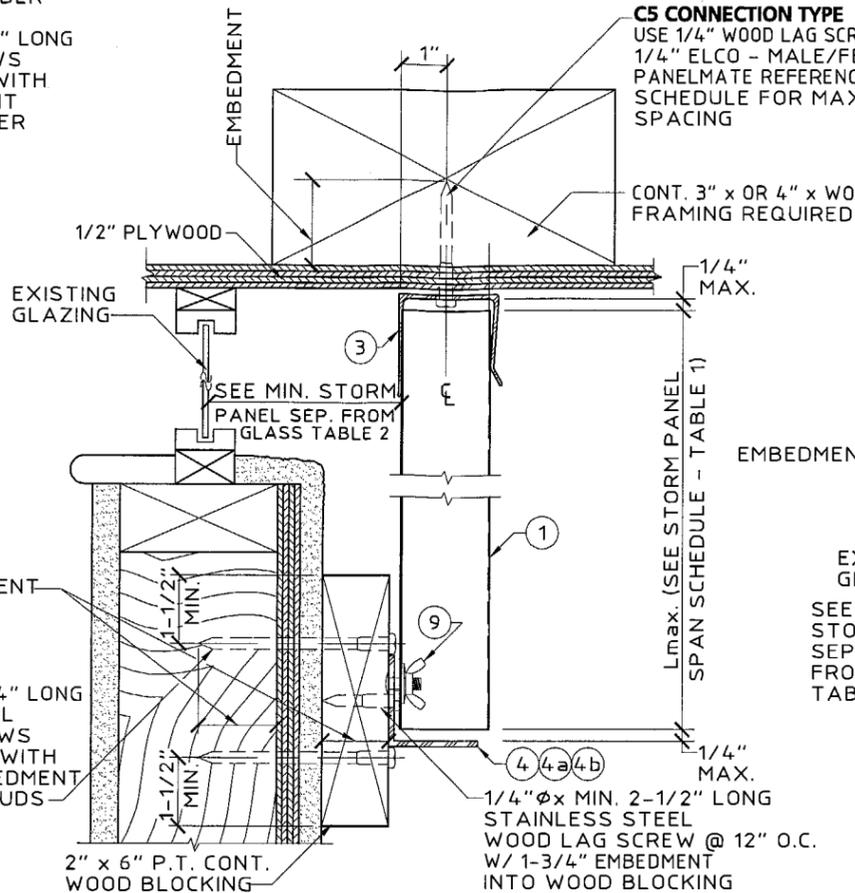
date: 06/29/2005
scale: AS NOTED
design by: NW
checked by: VJK
drawing no.: 05-353
sheet 2 of 6

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 05-0713.03
Expiration Date 11/16/2010

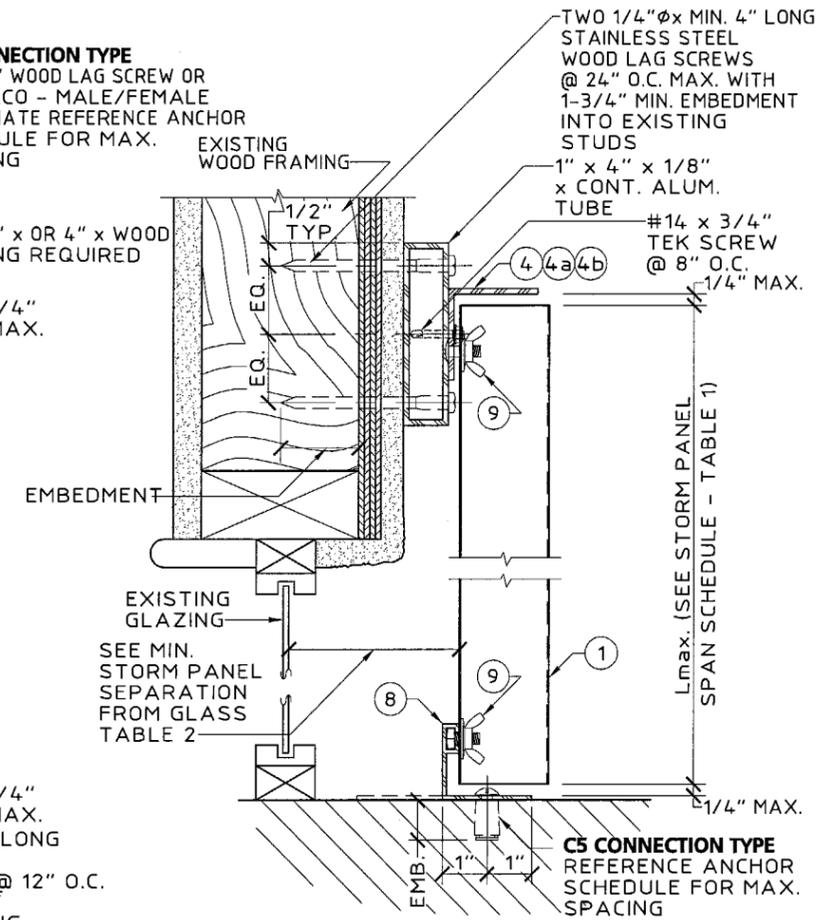
By *[Signature]*
Miami Dade Product Control Division



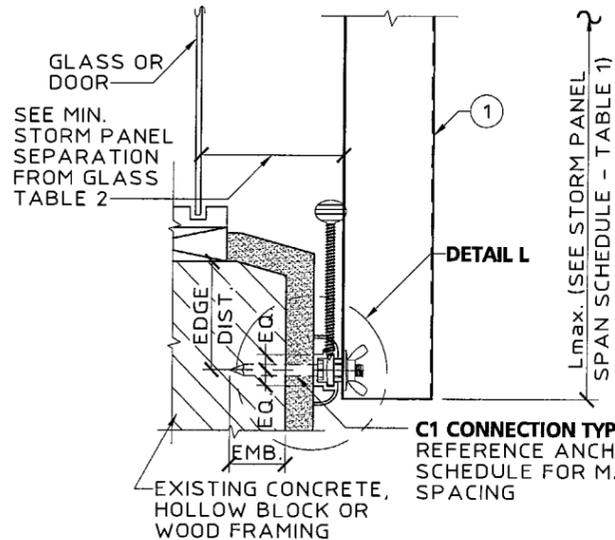
G BUILD-DOWN / BUILD-OUT SECTION
SCALE: 3" = 1' - 0"



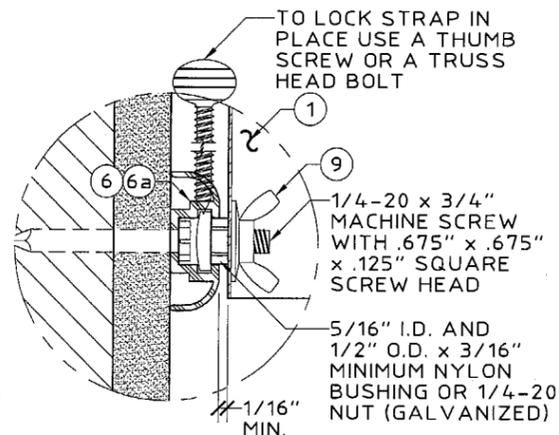
H CEILING/BUILD-OUT MOUNT SECTION
SCALE: 3" = 1' - 0"



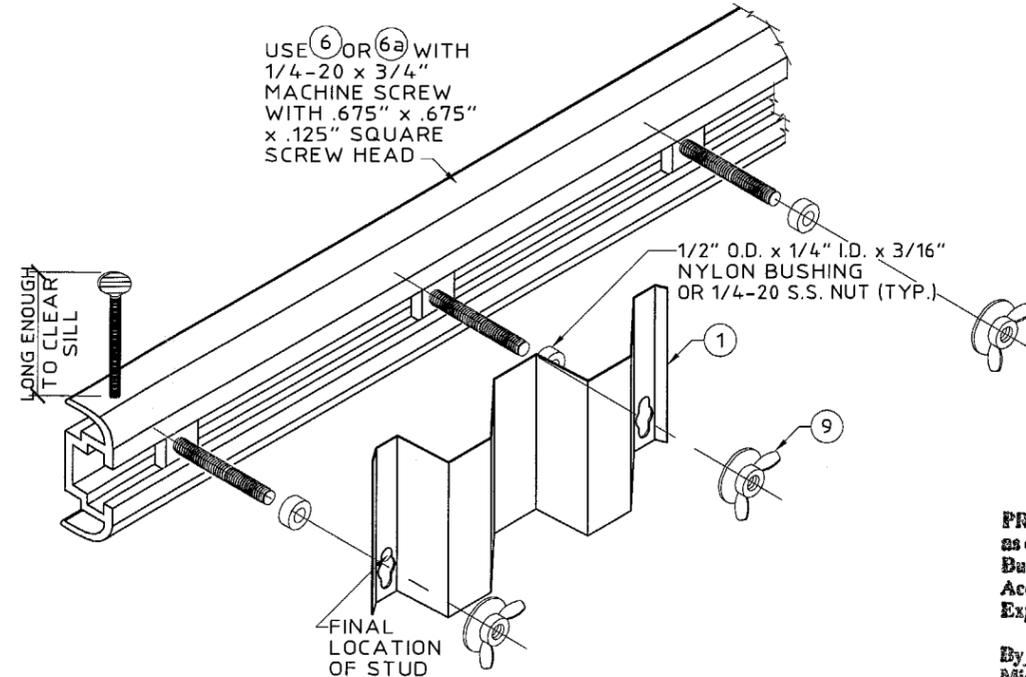
J BUILD-OUT/FLOOR MOUNT SECTION
SCALE: 3" = 1' - 0"



K C-TRACK ASSEMBLY - INSIDE MOUNT
SCALE: 3" = 1' - 0"



L C-TRACK ASSEMBLY - (BLOW UP)
SCALE: HALF SIZE



M C-TRACK ASSEMBLY (ISOMETRIC VIEW)
N.T.S.

Thornton-Tomasetti Group
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519
Website: www.TheTTGroup.com

0-050" ALUMINUM STORM PANEL
Storm & Country INDUSTRIES, INC.
A Division of ABC Supply Co., Inc.
400 West McNab Road • Fort Lauderdale, FL 33309
Phone: (866) 220-5019 • Fax: (954) 970-7705

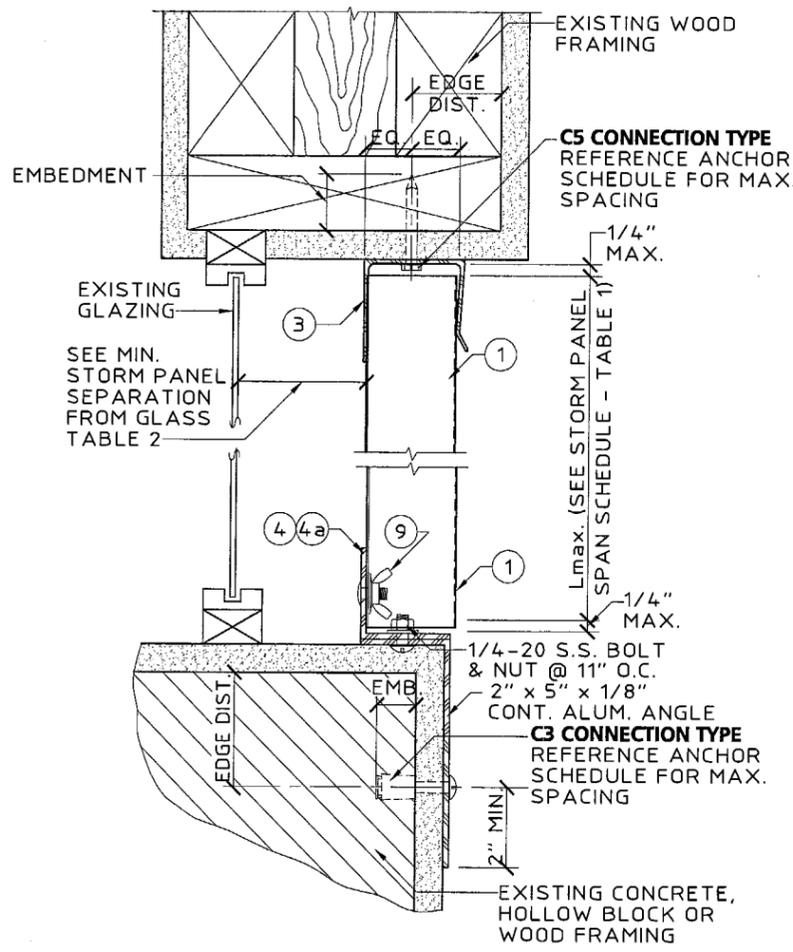
V.J. Knezevich
Professional Engineer
FL License No.: PE 010983

[Signature]
JUN 29 2005

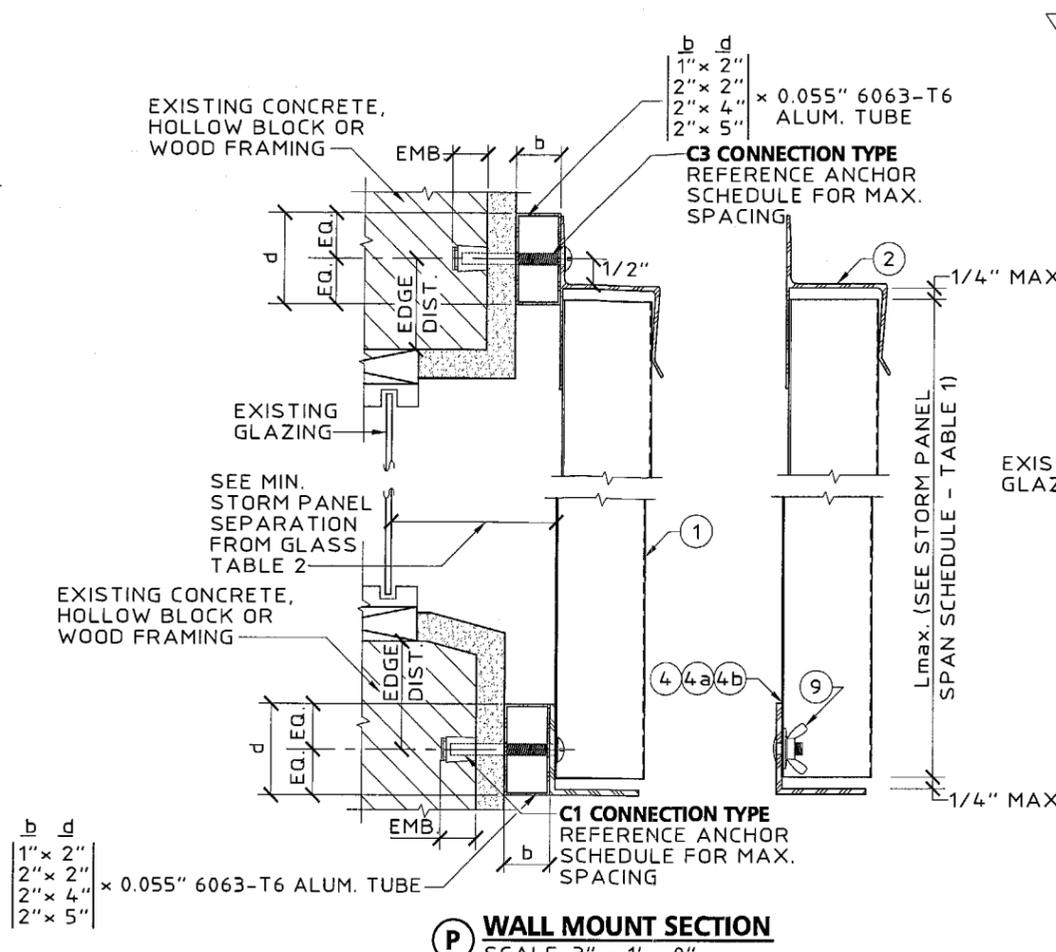
no.	date	by	description
0	06/29/05	NW	PREVIOUSLY DRAWING NO. 03-259

date: 06/29/2005
scale: AS NOTED
AS NOTED
design by: NW
checked by: VJK
drawing no.: 05-353
sheet 3 of 6

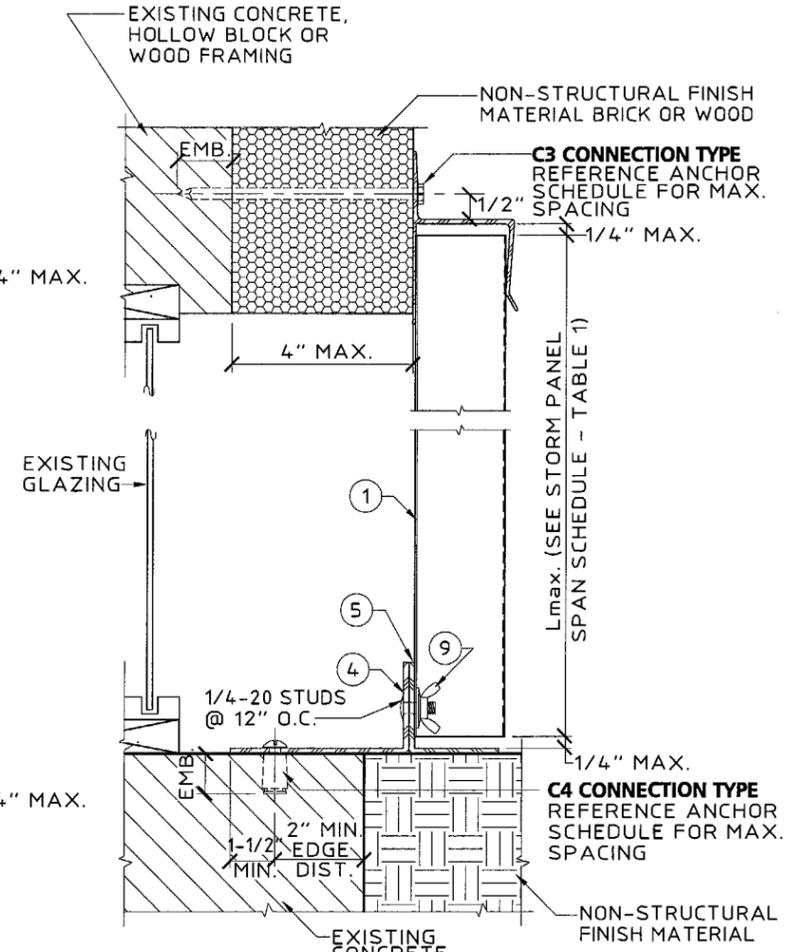
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 05-0713.03
Expiration Date 11/16/2010
By *Heung A. Ma*
Miami Dade Product Control Division



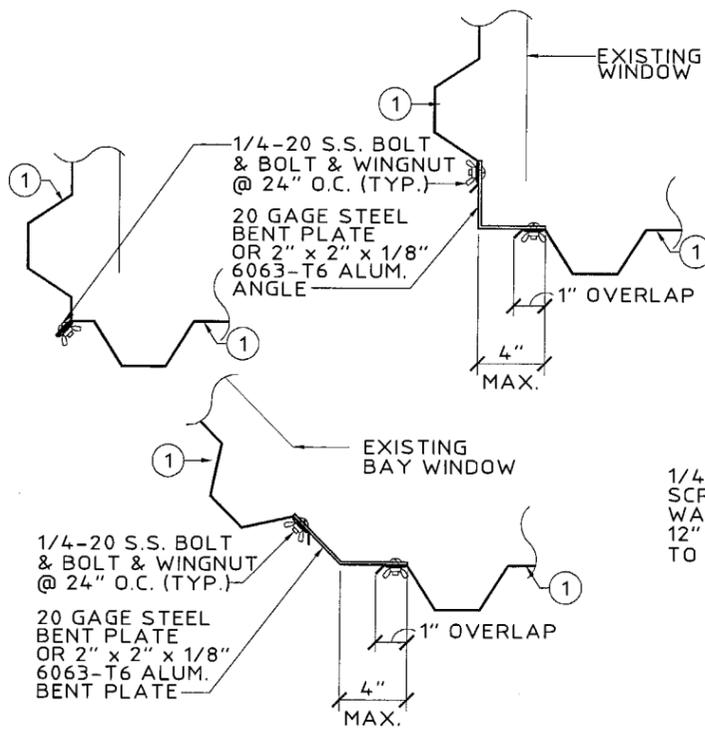
N WOOD CEILING/ INSIDE MOUNT SECTION
SCALE: 3" = 1'-0"



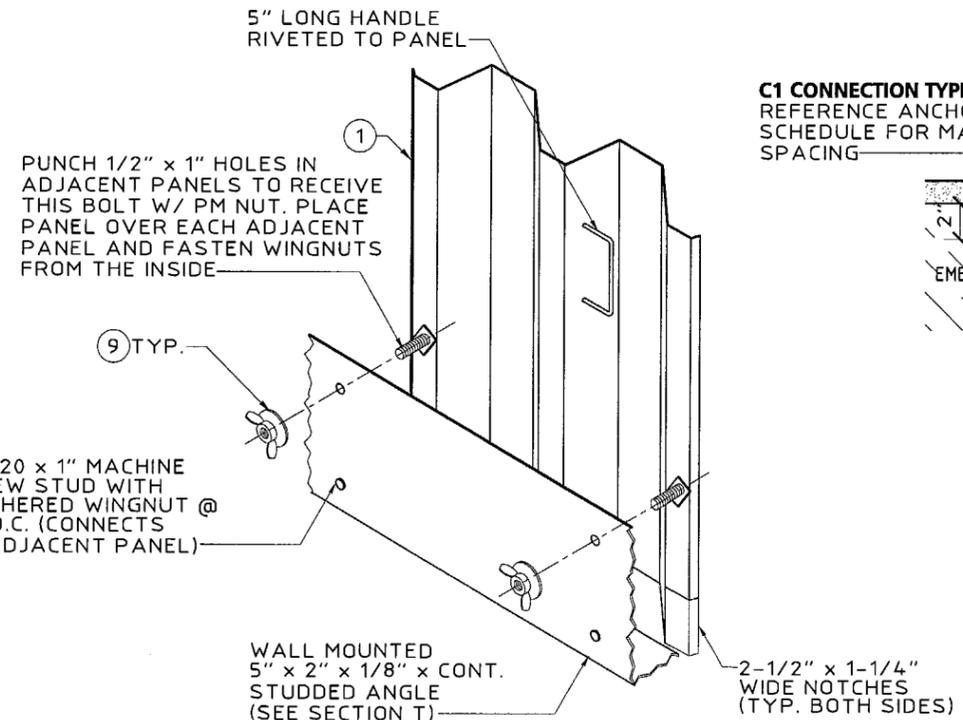
P WALL MOUNT SECTION
SCALE: 3" = 1'-0"



Q WALL MOUNT / BUILD OUT SECTION
SCALE: 3" = 1'-0"

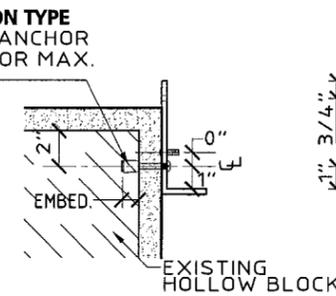


R TYPICAL CORNER CLOSURE DETAILS (PLAN)
SCALE: 1-1/2" = 1'-0"



S OPTIONAL INTERIOR FASTENING DETAIL (ISOMETRIC)
N.T.S.

C1 CONNECTION TYPE
REFERENCE ANCHOR
SCHEDULE FOR MAX.
SPACING



(MAX. PANEL HEIGHT = 7' - 4" & MAX. DESIGN LOAD ± 72.00 P.S.F.)

T INTERIOR FASTENING ANGLE ASSEMBLY
SCALE: 1-1/2" = 1'-0"

DETAILS S & T NOTE:

THESE DETAILS DEPICT THE CONNECTION OF THE LAST PANEL FOR AN OPENING WITH PANELS INSTALLED FROM INSIDE. USE OF THESE DETAILS SHALL BE IN CONJUNCTION WITH AN "H" HEADER OR "U" HEADER TOP MOUNT.

PRODUCT REVISED
as complying with the Florida Building Code

Acceptance No. 05-0713.03
Expiration Date 11/16/2010

By *Helmut A. Miller*
Miami Dade Product Control Division

Thornton-Tomasetti Group
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7319
Website: www.thtgroup.com

ALUMINUM STORM PANEL
Storm & Country
INDUSTRIES, INC.
A Division of ABC Supply Co., Inc.
400 West McNab Road • Fort Lauderdale, FL 33309
Phone: (866) 220-5019 • Fax: (954) 970-7705

V.J. Knezevich
Professional Engineer
FL License No. 120010983

[Signature]
JUN 29 2005

no.	date	by	description
1	06/29/05	NW	PREVIOUSLY DRAWING NO. 03-259

date 06/29/2005
scale AS NOTED
design by NW
checked by VJK
drawing no. 05-353
sheet 4 of 6

T A B L E 2	MINIMUM STORM PANEL SEPARATION FROM GLASS			
	POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SPAN (L) (FT - IN)	COLUMN 1	COLUMN 2
			MIN. SEP. FOR ALL INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)	MIN. SEP. FOR ALL INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
40.0	8-8	3	2-1/4	
	10-6	5	3-3/8	
50.0	8-8	3	2-1/2	
	9-10	5	3-1/4	
60.0	8-8	3	2-3/4	
	9-5	5	3-1/4	
70.0	4-0	3	1-1/2	
	8-8	3	3	
	9-0	5	3-1/4	
80.0	4-0	3	1-1/2	
	8-4	3	3	
90.0	4-0	3	1-1/2	
	7-9	3	2-3/4	
100.0	4-0	3	1-1/2	
	7-3	3	2-1/2	
110.0	4-0	3	1-1/2	
	6-9	3	2-3/8	
120.0	3-0	3	1-1/2	
	6-4	3	2-1/4	

TABLE 1 NOTES:

1. DETERMINE BOTH THE POSITIVE AND THE NEGATIVE WIND LOADS. CHECK THEIR RESPECTIVE SPANS AND USE THE LESSER VALUE OF THE TWO.
2. FOR DESIGN LOADS BETWEEN TABULATED VALUES USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 2 NOTE:

1. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. STORM SHUTTER SEPARATION FROM GLASS.

T A B L E 1	MAX. ALLOWABLE STORM PANEL SPAN SCHEDULE		
	POSITIVE OR NEGATIVE DESIGN LOAD (P.S.F.)	SPAN FOR NEG PRESSURE (FT - IN)	SPAN FOR POS PRESSURE (FT - IN)
40.0	12'-0"	10'-4"	
45.0	11'-3"	10'-1"	
50.0	10'-8"	9'-9"	
55.0	10'-2"	9'-6"	
60.0	9'-9"	9'-3"	
62.0	9'-7"	9'-1"	
65.0	9'-4"	8'-11"	
70.0	9'-0"	8'-7"	
72.0	8'-11"	8'-4"	
75.0	8'-8"	8'-0"	
80.0	8'-3"	7'-6"	
90.0	7'-4"	6'-8"	
100.0	6'-7"	6'-0"	
110.0	6'-0"	5'-5"	
120.0	5'-6"	5'-0"	
130.0	5'-1"	4'-7"	
140.0	4'-8"	4'-3"	
150.0	4'-4"	4'-0"	
160.0	4'-1"	3'-9"	
170.0	3'-10"	3'-6"	
180.0	3'-8"	3'-4"	
190.0	3'-5"	3'-1"	
200.0	3'-3"	3'-0"	
210.0	3'-1"	2'-10"	
220.0	3'-0"	2'-8"	
230.0	2'-10"	2'-7"	

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 05-0713.03
 Expiration Date 11/16/2010
 By *Helmut A. Miller*
 Miami Dade Product Control
 Division

Thornton-Tomasetti Group
 330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
 Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519
 Website: www.ttggroup.com
 Copyright © 2005 Thornton-Tomasetti Group, Inc.

0-050" ALUMINUM STORM PANEL
Storm & Country
 INDUSTRIES, INC.
 A Division of ABC Supply Co., Inc.
 400 West McNab Road • Fort Lauderdale, FL 33309
 Phone: (866) 220-5019 • Fax: (954) 970-7705

V.J. Knezevich
 Professional Engineer
 FL License No. 0010983

[Signature]
 JUN 29 2005

no	date	by	description
0	06/29/05	NW	PREVIOUSLY DRAWING No. 03-251

date 06/29/2005
 scale AS NOTED
 design by NW
 checked by VJK
 drawing no. 05-353
 sheet 6 of 6