



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Southern Metal Products, LLC/dba All Broward Hurricane Panel
450 West McNab Road.
Fort Lauderdale, FL 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: Architectural Louver

APPROVAL DOCUMENT: Drawing No. **08-063**, titled "Architectural Louver", dated September 19, 2008, with no revisions, prepared by Engco, Inc, signed and sealed by Pedro De Figueiredo, P.E., on October 03, 2008, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit 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 # **07-1003.11** and consists of this page 1, evidence pages E-1 & E-2, as well as approval document mentioned above.

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



Helmy A. Makar
03/18/2009

NOA No. 08-1104.04
Expiration Date: 10/10/2013
Approval Date: 03/18/2009
Page 1

Southern Metal Products, LLC/dba All Broward Hurricane Panel

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-1003.11

A. DRAWINGS

1. *Drawing No. 07-287, titled "Architectural Louver", dated 09/24/07, with no revisions, prepared by Engco, Inc, signed and sealed by Pedro De Figueiredo, P.E.*

B. TESTS

1. *Test report on Air Pressure Test per PA 202 of "Aluminum Louver Assembly," prepared by Construction Testing Corporation, Report No.01-034, dated 12/12/01, signed and sealed by Y. G. Kuri, .PE.
(Evidence Submitted under NOA # 02-0515.03)*

C. CALCULATIONS

1. *Evaluation of product and anchors calculations, prepared by Engco, Inc, signed and sealed by Pedro De Figueiredo, P.E.
(Evidence Submitted under NOA # 02-0515.03)*

D. MATERIAL CERTIFICATION

1. *None*

E. QUALITY ASSURANCE

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

F. STATEMENTS

1. *Letter of Code Compliance and No-Interest issued by Engco, Inc, on 09/05/02, signed by P. de Figueiredo, P.E.
(Evidence Submitted under NOA # 02-0515.03)*

G. OTHERS

1. *Testing contract letter issued by Construction Testing Corporation, dated 09/26/07, signed by George Dotzler.*
2. *Letter of code compliance and no financial Interest, issued by Engco, Inc, on 09/26/07, signed by Pedro De Figueiredo, P.E.*

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 08-063, titled "Architectural Louver ", dated September 19, 2008, with no revisions, prepared by Engco, Inc, signed and sealed by Pedro De Figueiredo, P.E., on October 03, 2008.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-1104.04
Expiration Date: 10/10/2013
Approval Date: 03/18/2009

Southern Metal Products, LLC/dba All Broward Hurricane Panel

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *Test report on Air Pressure Test per PA 202 of "Aluminum Louver Assembly," prepared by American Test Lab of South Florida, Report No. 0625.01-08, dated 08/27/08, signed and sealed by William R. Mehner, P.E., and Henry Hattem, P.E.*

C. CALCULATIONS

1. *Evaluation of product and anchors calculations, dated 10/03/2008, prepared by Engco, Inc, signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Letter of Code Compliance with FBC 2007 and No-Interest issued by Engco, Inc, on 09/14/08, signed and sealed by Pedro De Figueiredo, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-1104.04
Expiration Date: 10/10/2013
Approval Date: 03/18/2009

GENERAL NOTES:

1- CODE: THIS PRODUCT HAS BEEN TESTED UNDER TAS 202-94 AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 FOR USE IN THE STATE OF FLORIDA INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2- DEFINITION: THIS PRODUCT IS AN ALUMINUM ARCHITECTURAL LOUVER, DESIGNED, CONSTRUCTED AND ERECTED TO PROVIDE PRIVACY, DECORATION AND PROTECTION FROM SUN.

3- PRODUCT MARKING: A PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A VISIBLE LOCATION STATING THE FOLLOWING:

"ARCHITECTURAL LOUVER
SOUTHERN METAL PRODUCTS, LLC
FT. LAUDERDALE - FLORIDA
DADE COUNTY PRODUCT CONTROL APPROVED"

4- DESIGN LOADS: THE DESIGNED LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT.

5- MATERIAL: ALL ALUMINUM PARTS TO BE 6063-T6 ALLOY OR AS SPECIFIED ON THIS APPROVAL.

6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR QUANTITY & SPACING MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.

7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.

7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD SCREWS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.

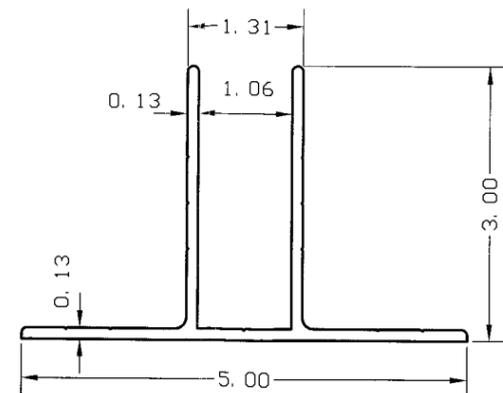
9- DISSIMILAR MATERIALS: ALUMINUM CONTACTING MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, SHALL MEET THE REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE SECTION 2003.8.4.

10- LIMITATIONS: THIS PRODUCT IS LIMITED TO THE ALLOWABLE DESIGNED PRESSURES AND SIZES STATED IN THIS APPROVAL AND IS NOT TO BE USED AS A HURRICANE PROTECTIVE DEVICE OR TO BE USED TO ENCLOSE AN AREA WHERE WATER INFILTRATION REQUIREMENTS MUST BE MET

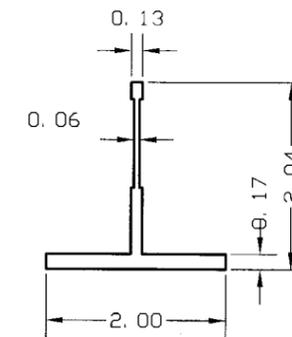
DESIGNED PRESSURES:
Pd= +70 -70 PSF

NOT IMPACT RESISTANT

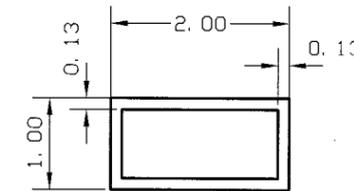
LOUVER COMPONENTS



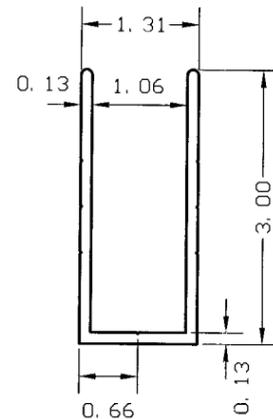
1- BRACKET "T" CLIP
ALUMINUM 6063-T6



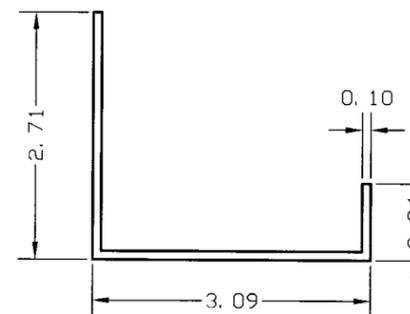
2- LOUVER BLADE
STIFFENER
ALUMINUM 6063-T6



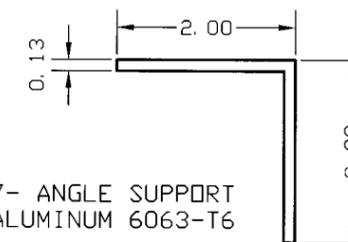
3- 1/8"-1X2 BRACKET
ALUMINUM 6063-T6



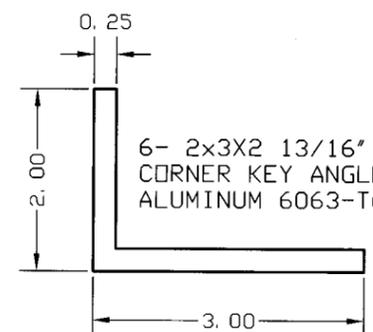
4- BRACKET "U" CLIP
3" LONG
ALUMINUM 6063-T6



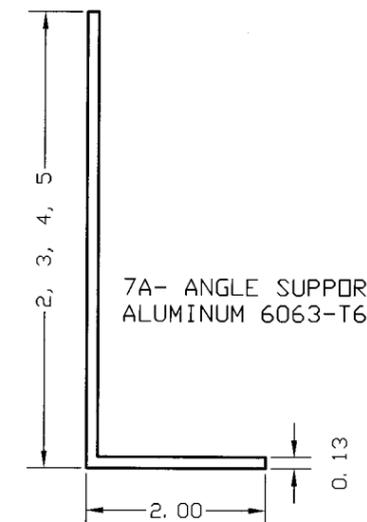
5- PERIMETER FRAME
ALUMINUM 6063-T5



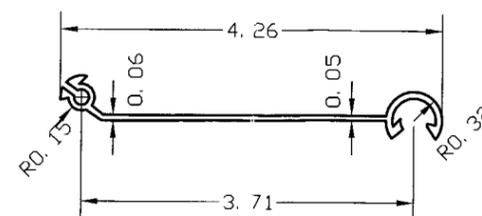
7- ANGLE SUPPORT
ALUMINUM 6063-T6



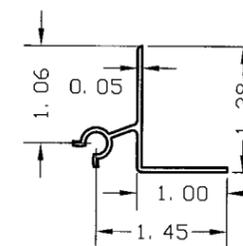
6- 2X3X2 13/16"
CORNER KEY ANGLE
ALUMINUM 6063-T6



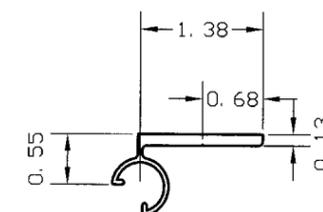
7A- ANGLE SUPPORT
ALUMINUM 6063-T6



8- LOUVER BLADE
ALUMINUM 6063-T6



9- MALE HINGE
ALUMINUM 6063-T6



10- FEMALE HINGE
ALUMINUM 6063-T6

MANUFACTURER:
**SOUTHERN METAL
PRODUCTS, LLC**
DBA - ALL BROWARD
HURRICANE PANEL

450 WEST MC. NAB RD.
FT. LAUDERDALE - FLORIDA
TEL.: (954) 974-3300
FAX.: (954) 973-3928

PRODUCT:
Architectural Louver
NON IMPACT RESISTANT

Engineering:
EngCo Inc.
CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
ENGCO@AOL.COM

OCT 03 2008

Engineer Seal
Pedro De Figueiredo
PE 52609

DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCO:

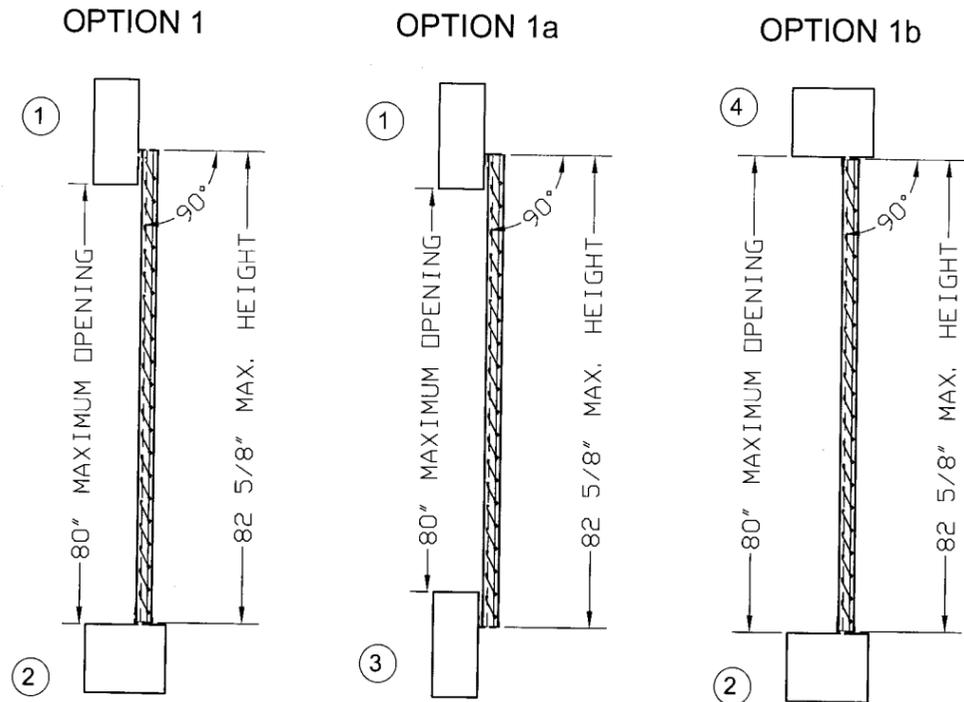
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 08-1104.04
Expiration Date 10/10/2013
By Heather A. Miller
Miami Dade Product Control
Division

Date: 09/19/08
Scale: NA
Design by: PPMF

Drawing Number
08-063

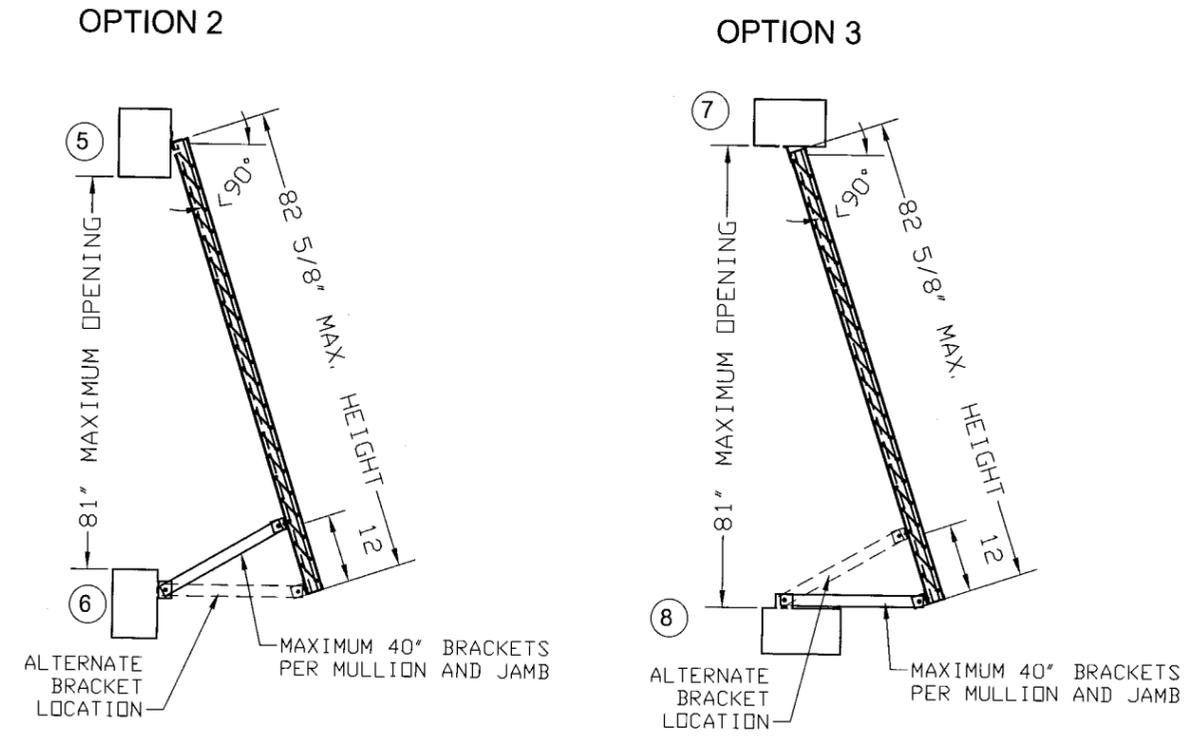
SHEET
1 of 6

LOUVER ANGLE = 90 DEGREES

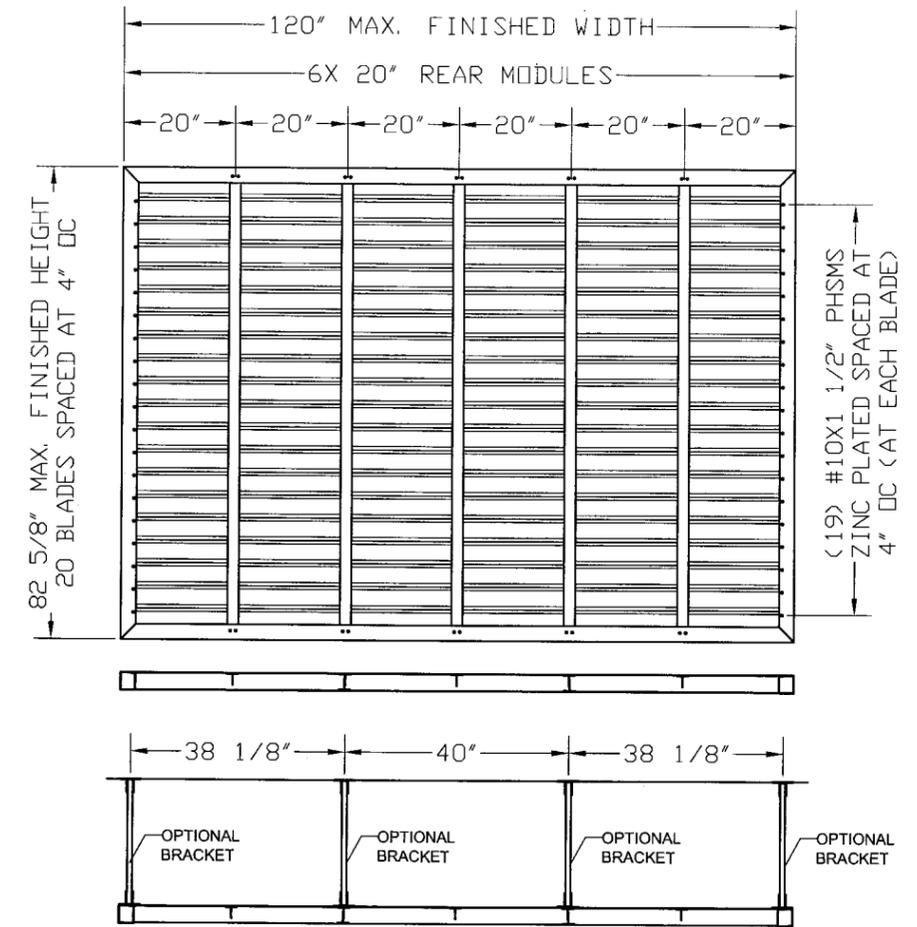


NOTE: IT IS PERMISSIBLE THE MIXING OF THE BASIC MOUNTINGS 1-9 BETWEEN OPTINS 1, 1a, 1b, 2 AND 3

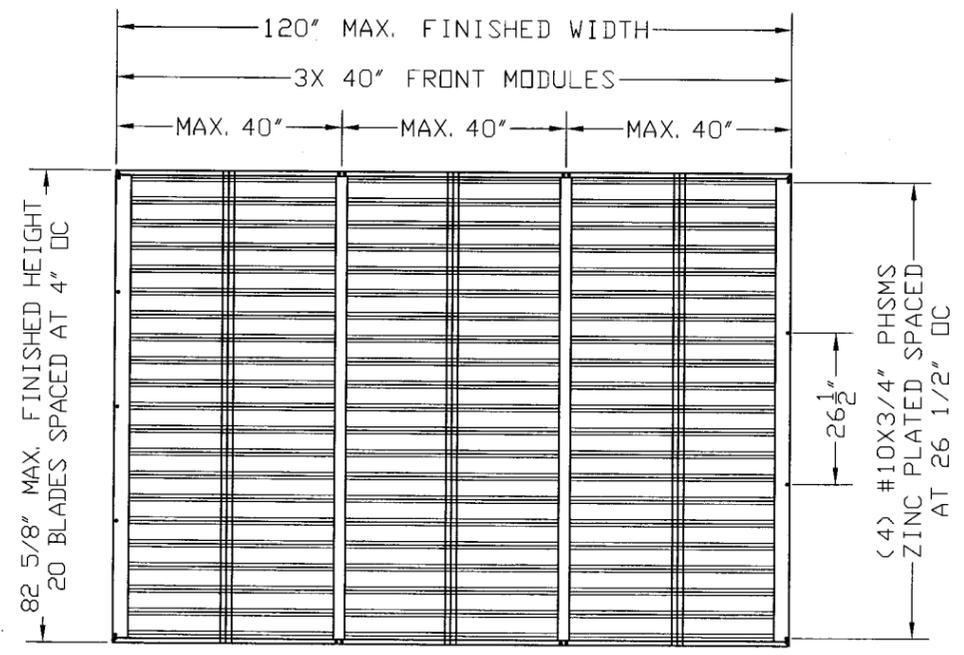
LOUVER ANGLE < 90 DEGREES



TYPICAL REAR ELEVATION



TYPICAL FRONT ELEVATION



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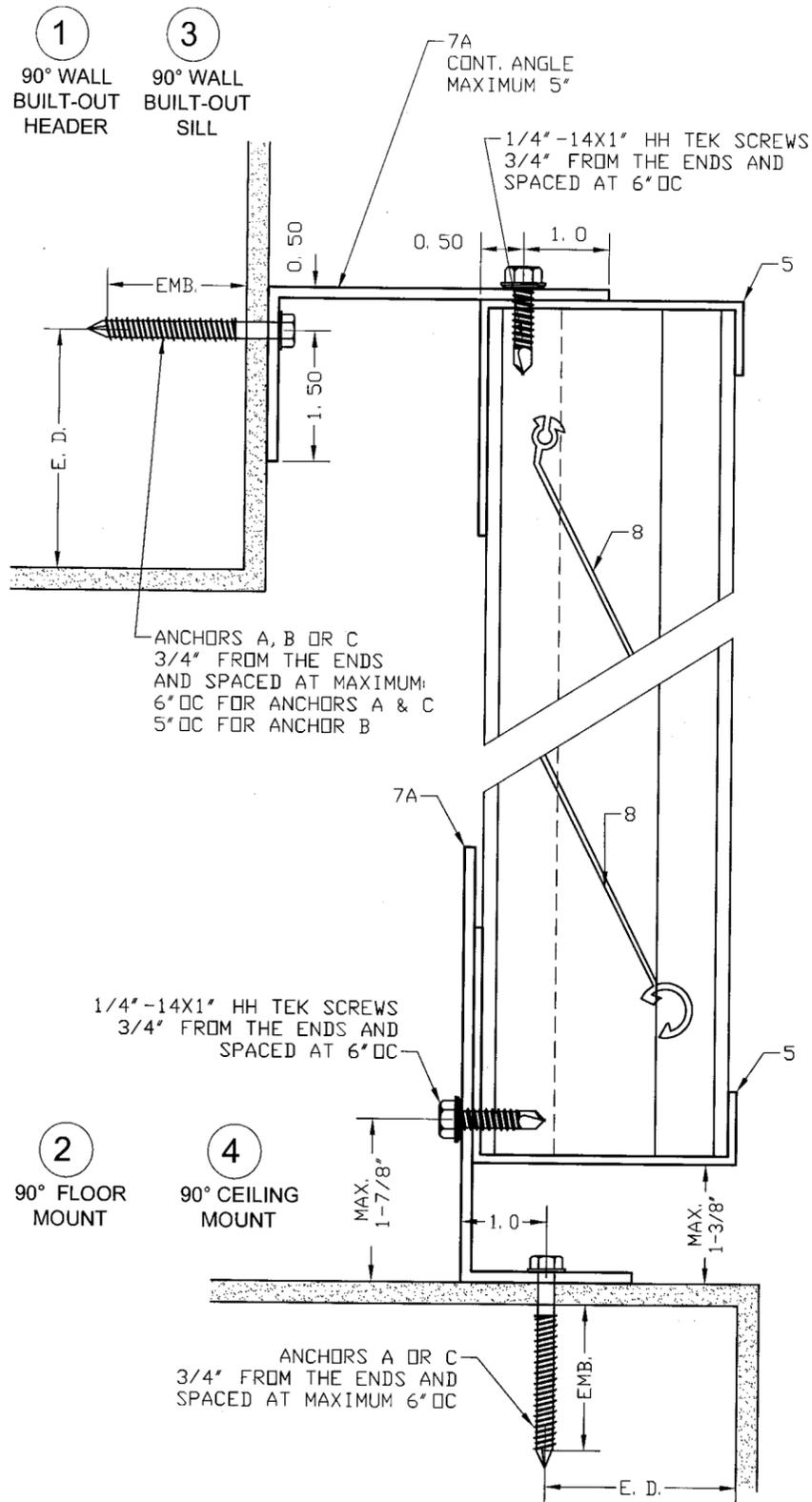
PRODUCT REVISED
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 By Heather A. Nelson
 Miami Dade Product Control Division

Date: 09/19/08
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 Design by: PPMF

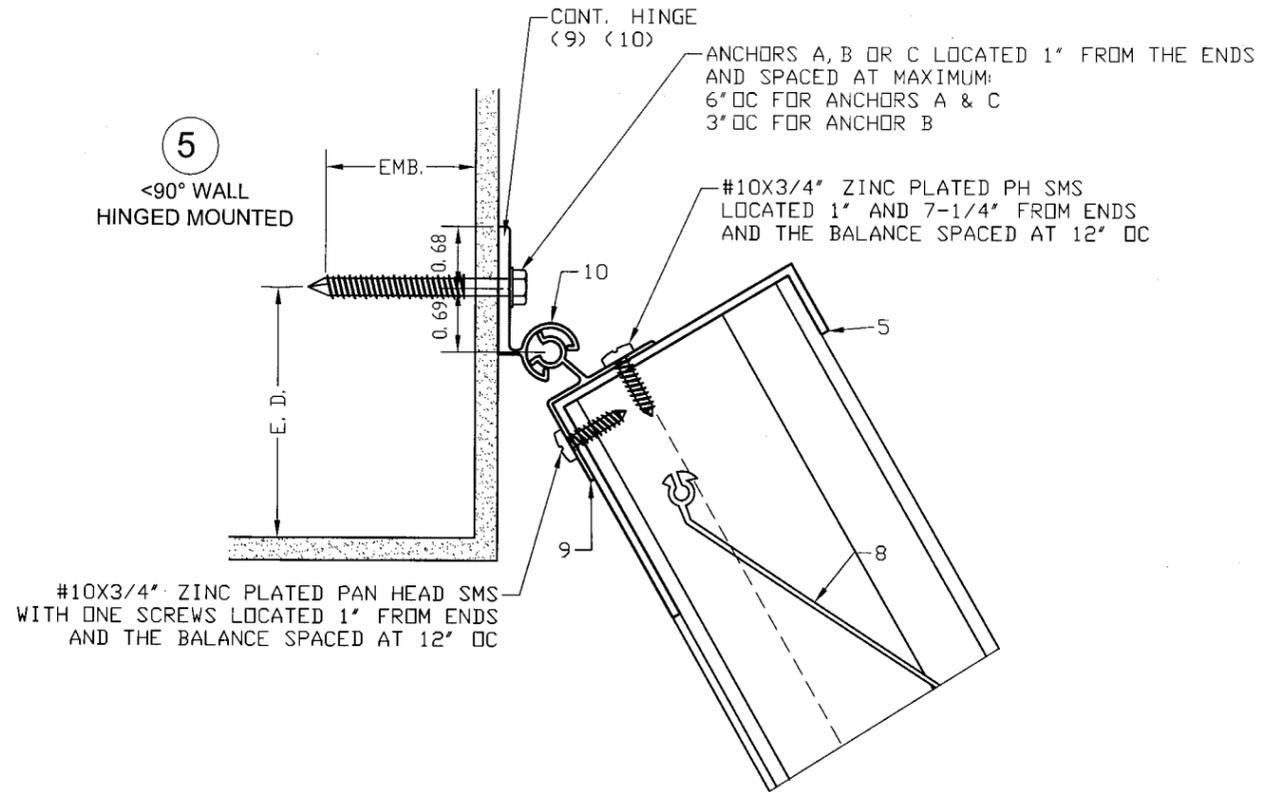
Drawing Number
08-063

SHEET
 2 of 6

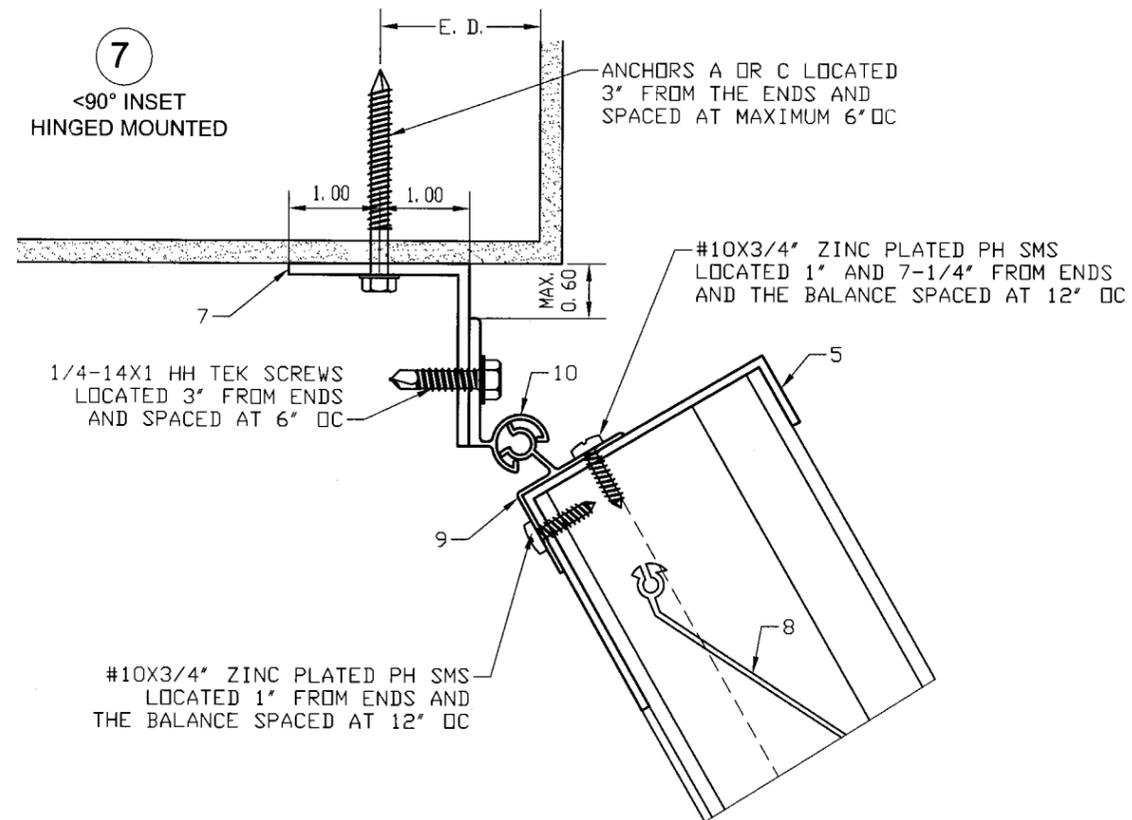
MOUNTING OPTIONS



5 <90° WALL HINGED MOUNTED



7 <90° INSET HINGED MOUNTED



ANCHOR SCHEDULE

TYPE	DESCRIPTION	EMB.	ED	SUBSTRACT	MANUFACTURER
A	1/4" TAPCON	1 3/4"	3"	3000 PSI CONCRETE	ITW BUILDEX
B	1/4" TAPCON	1"	3"	HOLLOW BLOCK C-90	ITW BUILDEX
C	#14 SS WOOD SCREWS	1 1/2"	3/4"	WOOD (SG= .55)	GENERIC

E. D. = EDGE DISTANCE EMB= EMBEDMENT
EMBEDMENT AND EDGE DISTANCE IS MEASURED BEYOND THE WALL DRESSING

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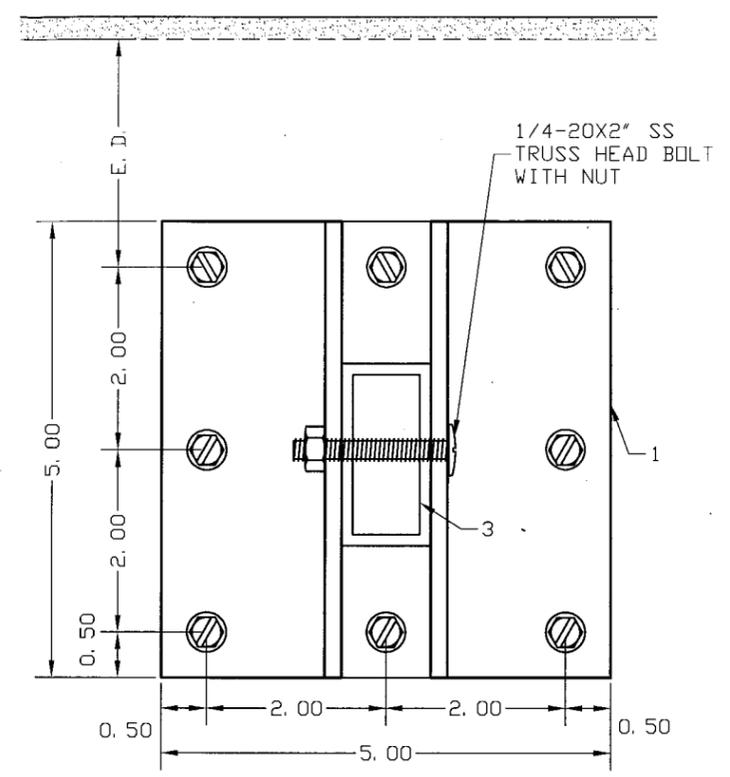
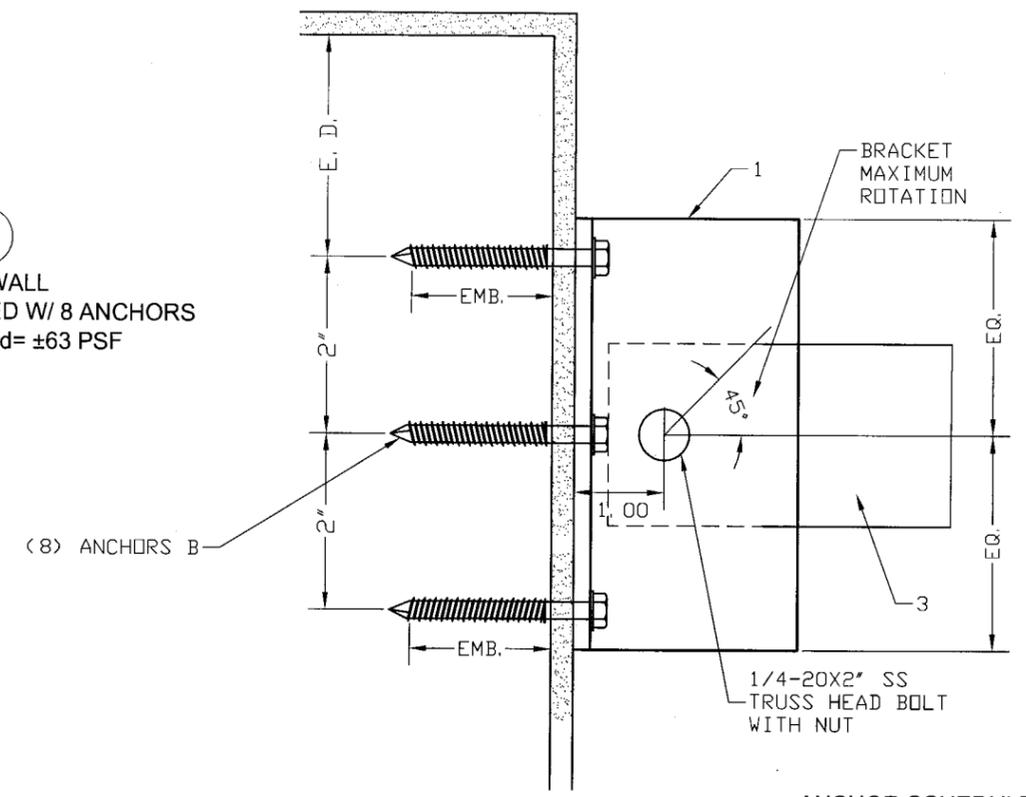
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By *Helena A. Nelson*
Miami Dade Product Control Division

Date: 09/19/08
Scale: NA
Design by: PPMF

Drawing Number
08-063

SHEET
3 of 6

6
 <90° WALL
 BRACKET MOUNTED W/ 8 ANCHORS
 TYPE B AT Pd= ±63 PSF

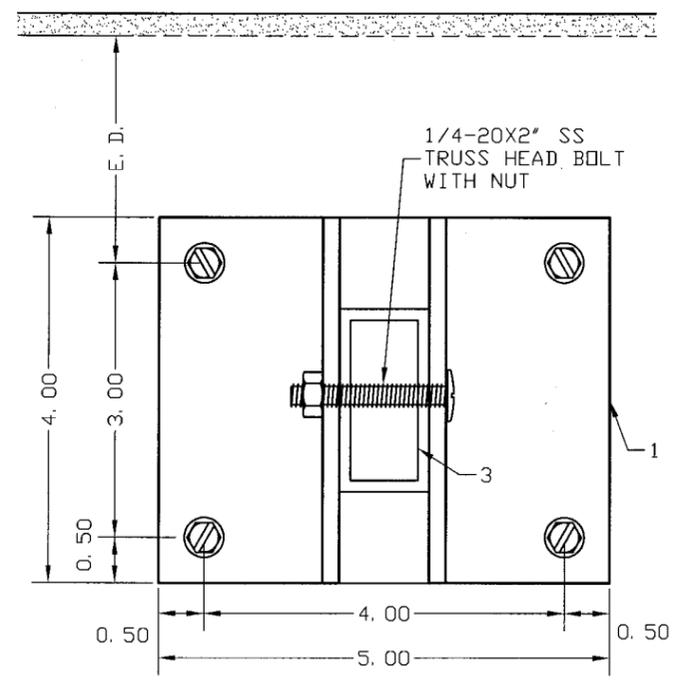
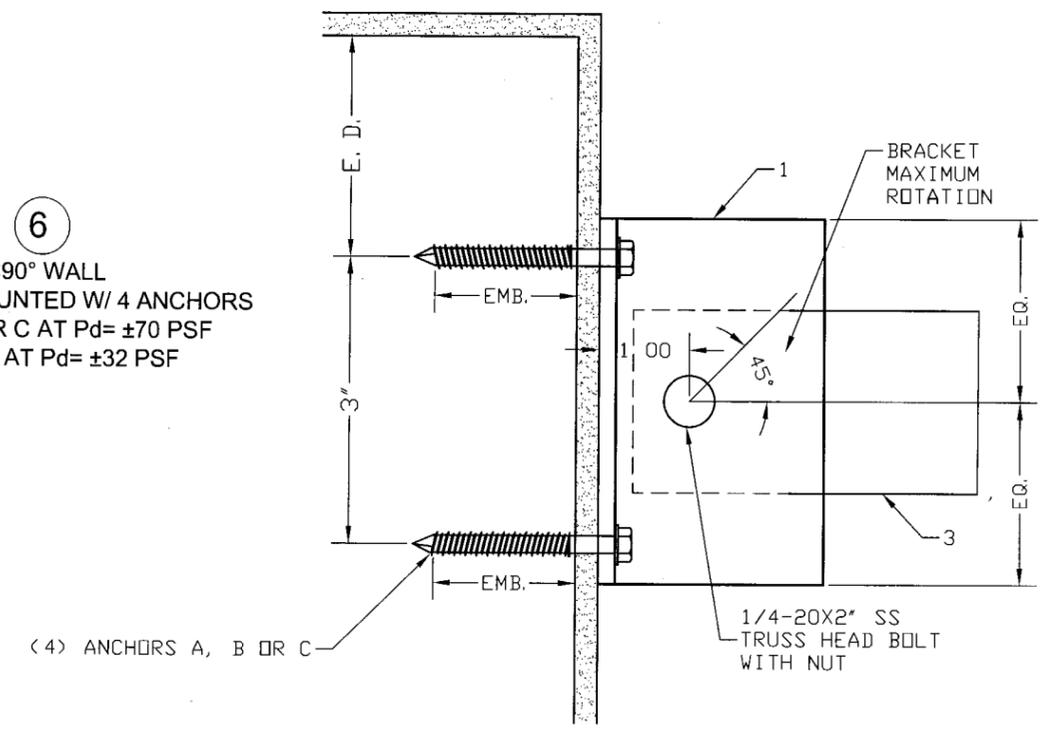


ANCHOR SCHEDULE

TYPE	DESCRIPTION	EMB.	ED	SUBSTRACT	MANUFACTURER
A	1/4" TAPCON	1 3/4"	3"	3000 PSI CONCRETE	ITW BUILDEX
B	1/4" TAPCON	1"	3"	HOLLOW BLOCK C-90	ITW BUILDEX
C	#14 SS WOOD SCREWS	1 1/2"	3/4"	WOOD (SG=, 55)	GENERIC

E. D. = EDGE DISTANCE EMB= EMBEDMENT
 EMBEDMENT AND EDGE DISTANCE IS MEASURED BEYOND THE WALL DRESSING

6
 <90° WALL
 BRACKET MOUNTED W/ 4 ANCHORS
 TYPE A OR C AT Pd= ±70 PSF
 TYPE B AT Pd= ±32 PSF



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 By *Helmy A. Helmy*
 Miami Dade Product Control
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Date: 09/19/08
 Scale: NA
 Design by: PPMF

Drawing Number
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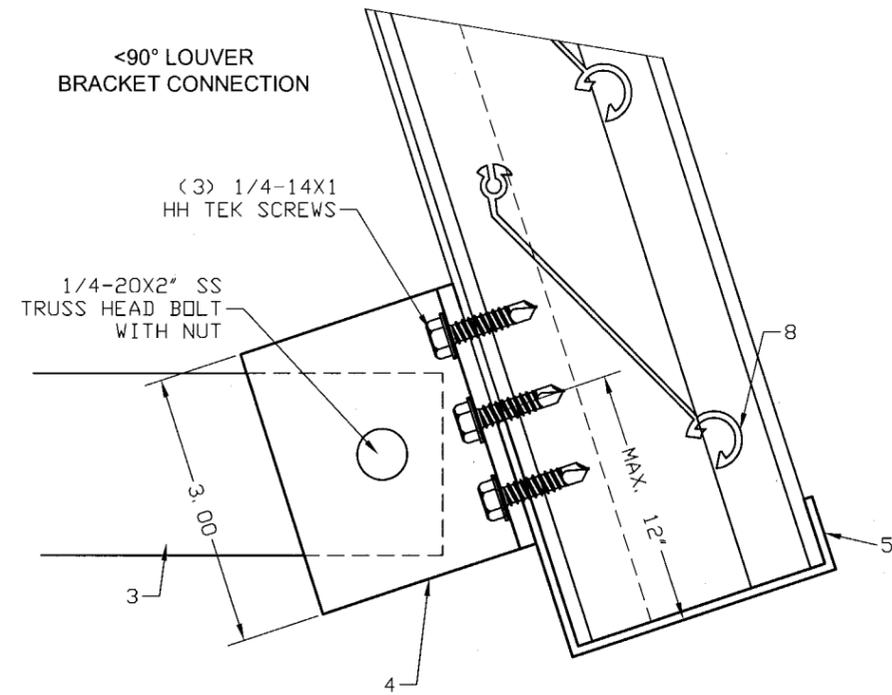
SHEET
4 of 6

ANCHOR SCHEDULE

TYPE	DESCRIPTION	EMB.	ED	SUBSTRACT	MANUFACTURER
A	1/4" TAPCON	1 3/4"	3"	3000 PSI CONCRETE	ITW BUILDEX
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C	#14 SS WOOD SCREWS	1 1/2"	3/4"	WOOD (SG=.55)	GENERIC

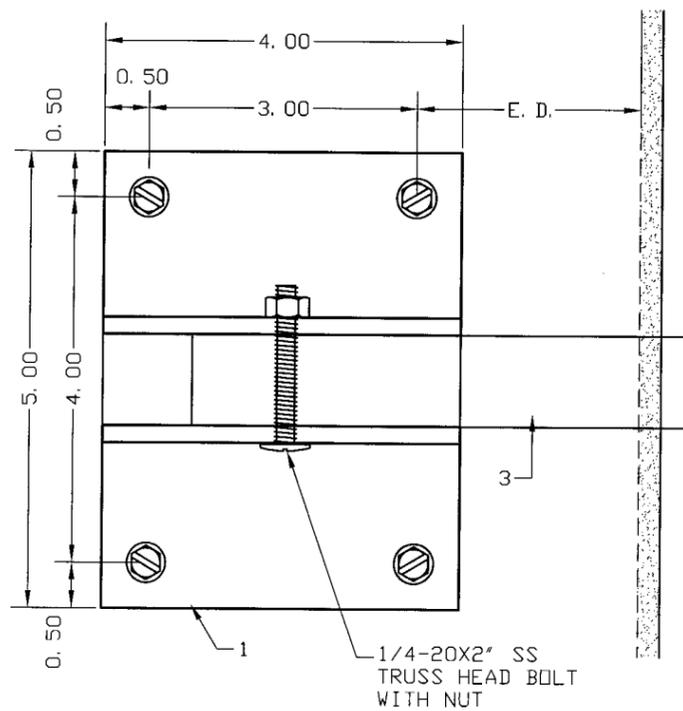
E. D. = EDGE DISTANCE EMB= EMBEDMENT
 EMBEDMENT AND EDGE DISTANCE IS MEASURED BEYOND THE WALL DRESSING

<90° LOUVER
 BRACKET CONNECTION



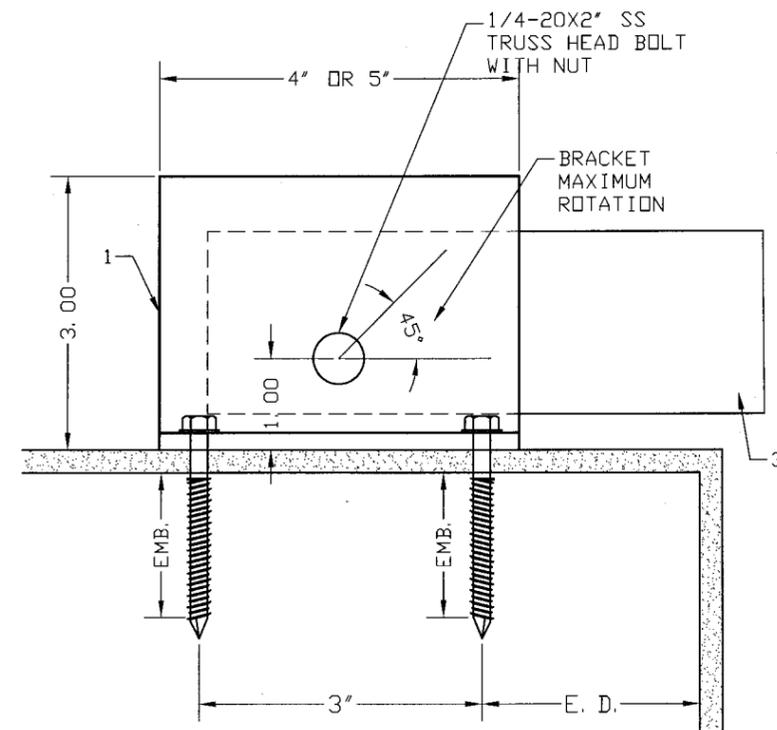
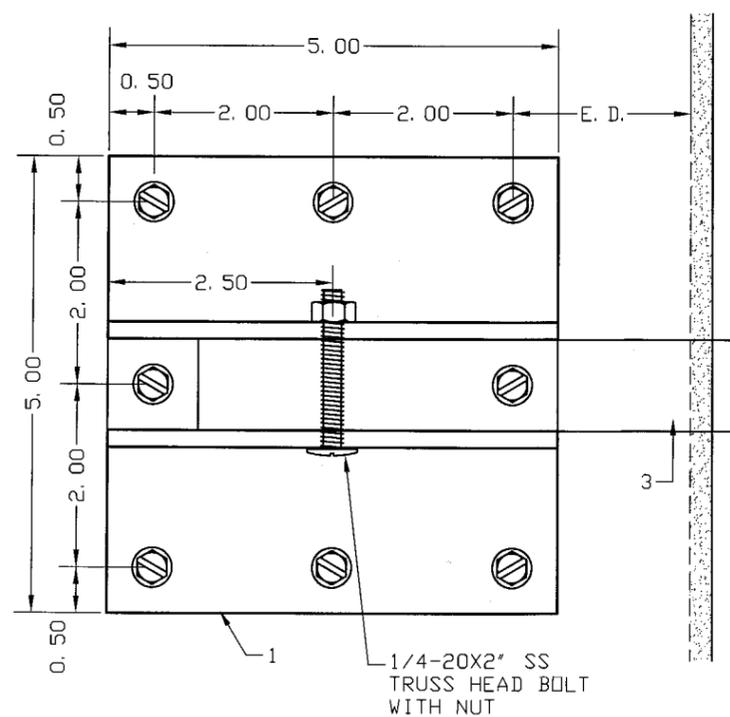
8

<90° FLOOR
 BRACKET MOUNTED W/ 4 ANCHORS
 TYPE A OR C AT Pd= ± 70 PSF
 TYPE B AT Pd= ± 32 PSF



8

<90° FLOOR
 BRACKET MOUNTED W/ 8 ANCHORS
 TYPE B AT Pd= ± 63 PSF



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MIAMI-DADE BCCO:

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

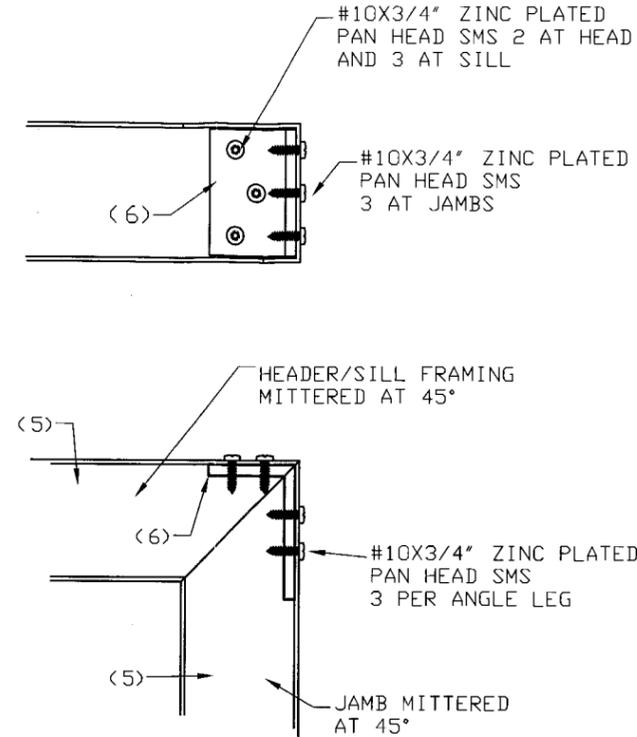
Date: 09/19/08
 Scale: NA
 Design by: PPMF

Drawing Number
08-063

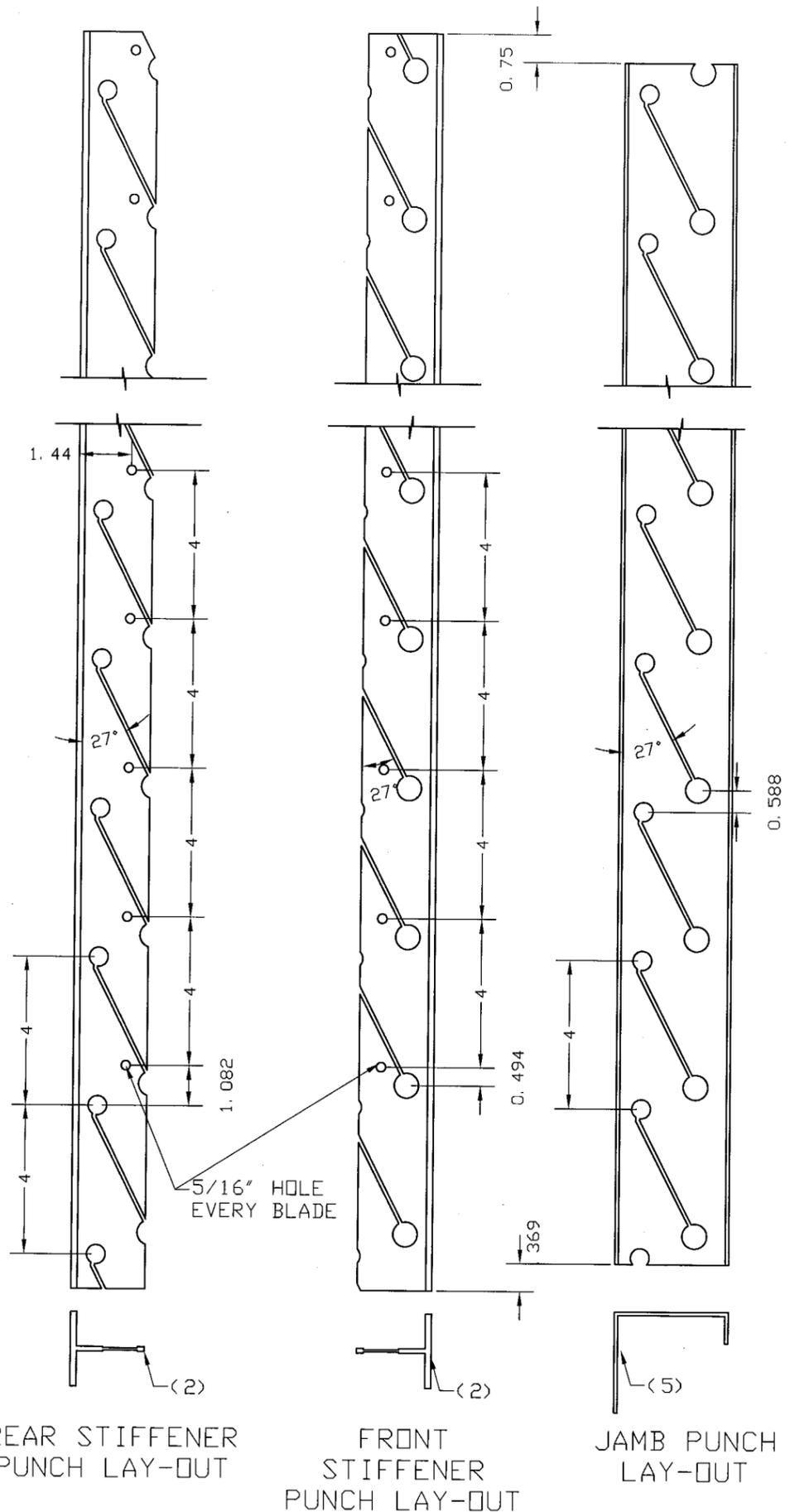
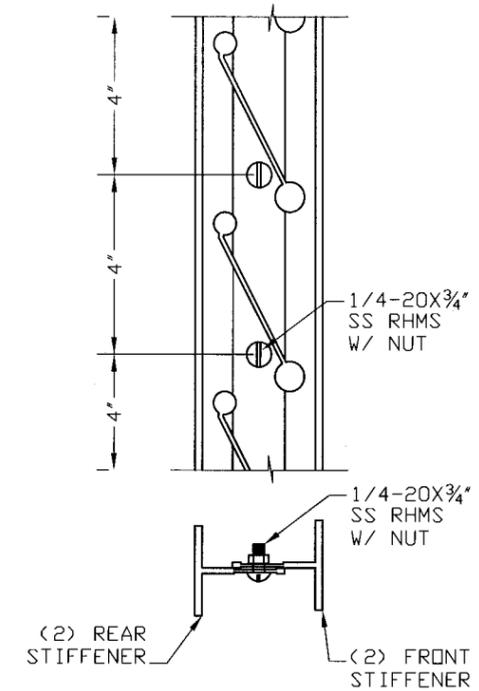
SHEET
5 of 6

ASSEMBLY AND CONNECTIONS

CORNER FRAME CONNECTION



FRONT / REAR STIFFENER CONNECTION

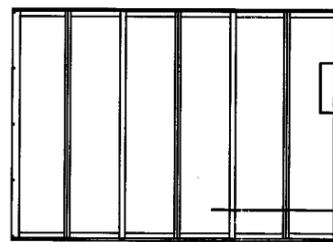


REAR STIFFENER PUNCH LAY-OUT

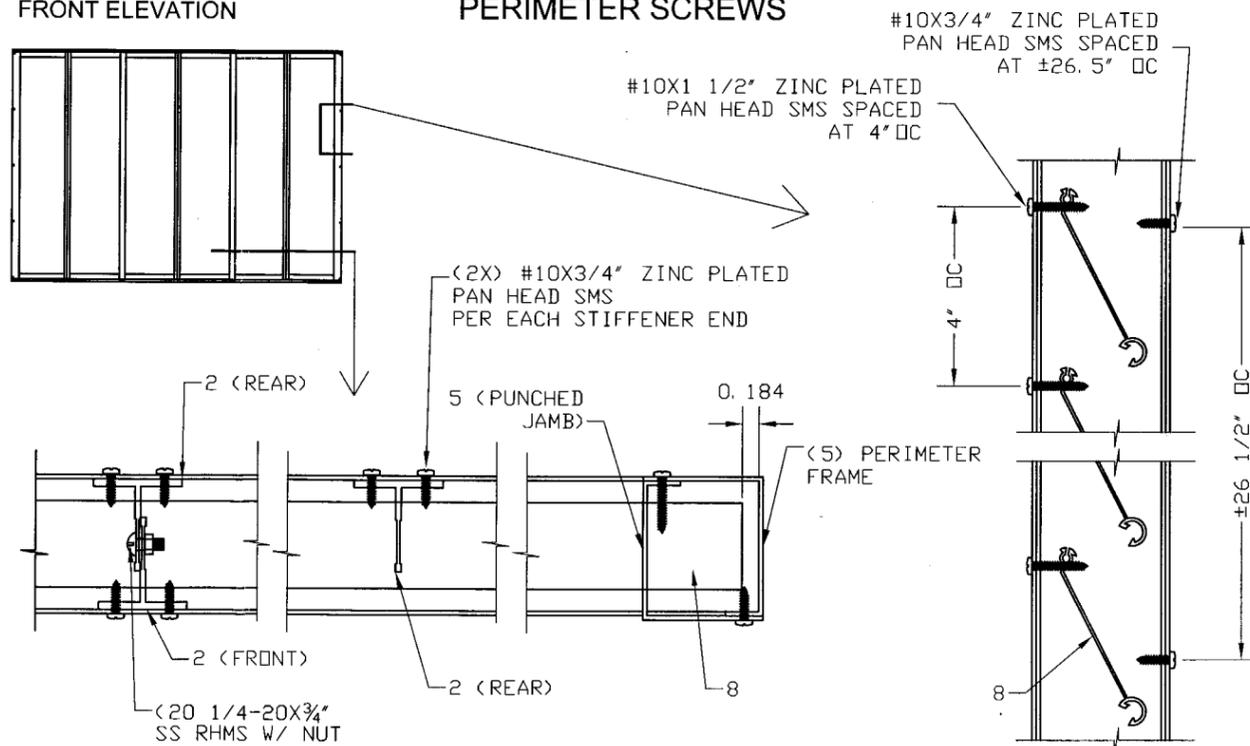
FRONT STIFFENER PUNCH LAY-OUT

JAMB PUNCH LAY-OUT

FRONT ELEVATION



PERIMETER SCREWS



MANUFACTURER:
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DBA - ALL BROWARD HURRICANE PANEL

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FAX.: (954) 973-3928

PRODUCT:
Architectural Louver
NON IMPACT RESISTANT

Engineering:
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CA 8116
6971 W. Sunrise Blvd. 104
Plantation, FL 33313
ENGCO@AOL.COM

OCT 03 2008

Engineer Seal
Pedro De Figueiredo
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PK DRAFTING & MORE

MIAMI-DADE BCCO:

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Building Code
Acceptance No. 08-1104.04
Expiration Date 10/10/2013
By *Heung A. Noh*
Miami Dade Product Control
Division

Date: 09/19/08
Scale: NA
Design by: PPMF

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