



**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)

**Florida Storm Panels, Inc.
14475 N. W. 26th Avenue
Opa Locka, Florida 33054**

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: 0.060" Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 99-230, titled " 0.060" Aluminum Storm Panel ", sheets 1 through 4 of 4, prepared by Knezevich & Associates, Inc., dated July 19, 1999, last revision #4 dated May 23, 2002, bearing the Miami-Dade County Product Control Renewal 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 **renews NOA # 02-0531.05** and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



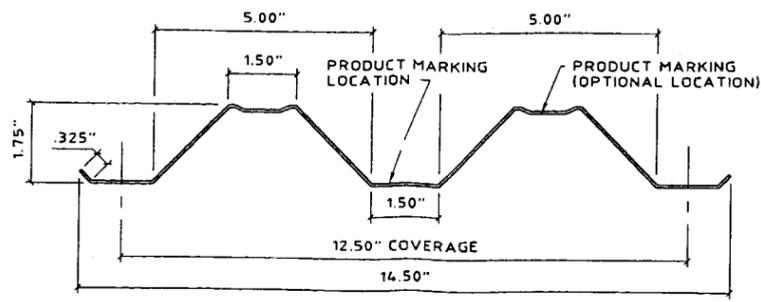
**NOA No 02-0826.06
Expiration Date: 08/26/2007
Approval Date: 09/19/2002
Page 1**

Print Information: J:\CADD\Cadd99\FL-Storm\99-230\R4-sub\99-230-01.dwg AVazquez 05/23/2002 10:47:06am

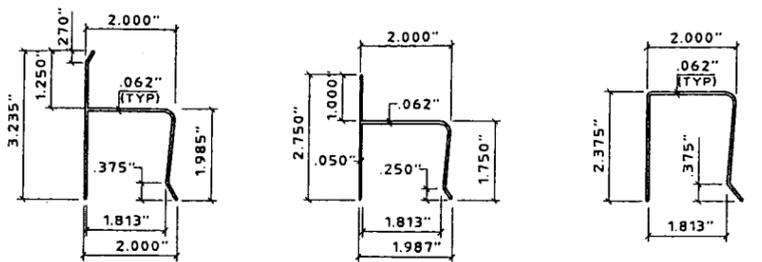
GENERAL NOTES:

- 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.
- TO VERIFY THAT THE ANCHORS AS TESTED, ARE NOT OVERSTRESSED IN THESE APPROVAL DOCUMENTS, A 33% INCREASE IN ALLOWABLE STRESS WAS USED IN THE FASTENER ANALYSIS.
- DETERMINE THE POSITIVE AND 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 ASCE 7-98, A DIRECTIONALITY FACTOR OF $K_d = 1.0$ SHALL BE USED.
- THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
- THESE APPROVAL DOCUMENTS 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:
 - 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.
 - 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.
- STORM PANELS SHALL BE 3003-H14 ALUMINUM ALLOY, 0.060" THICK, WITH A MIN. F_y (BEFORE ROLLING) OF 21 KSI.
- 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:

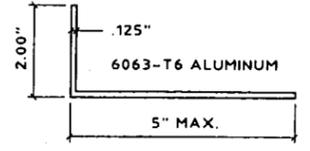
FLORIDA STORM PANELS, INC.
OPA LOCKA, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR "h" AND "u" HEADER MOUNTING CONDITIONS.
- PANELS UTILIZING A STEEL TUBE SHALL BE FASTENED TO OVERLAPS AT MIDSPAN TO A 1" x 1" x 16 GAGE STEEL TUBE USING 1/4"-20 x 3-1/2" BOLTS W/ DIE CAST ALUMINUM WASHERED WINGNUTS OR JACKNUTS (SEE TYPICAL ELEVATION (15) & (16)). PANELS NOT UTILIZING STEEL TUBE SHALL BE FASTENED AT OVERLAPS (12-1/2" O.C.) AT MIDSPAN W/ 1/4"-20 x 1" MACHINE BOLTS WITH DIE CAST ALUMINUM WASHERED WINGNUTS OR JACKNUTS (SEE TYPICAL ELEVATIONS (9) & (10)). FOR PANEL SPANS LESS THAN 33" OVERLAP FASTENERS & TUBE ARE NOT REQUIRED.
- AT LEAST ONE WARNING NOTE PER OPENING SHALL BE PLACED IN A CONSPICUOUS LOCATION ON ANY OF THE COMPONENTS OF THE STORM PANELS SYSTEM ADVISING THE HOME OWNER OR TENANT THAT THE STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING BOLTS AND/OR STRAPS ARE PROPERLY INSTALLED WHEN REQUIRED. WARNING LABEL SHALL BE FASTENED WITH PERMANENT ADHESIVE OR MECHANICALLY.



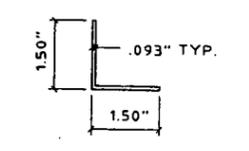
1 STORM PANEL
SCALE: 3" = 1'-0"



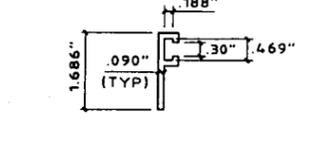
2 "h" HEADER SCALE: 3" = 1'-0"
3 "h" HEADER SCALE: 3" = 1'-0"
4 "U" HEADER SCALE: 3" = 1'-0"



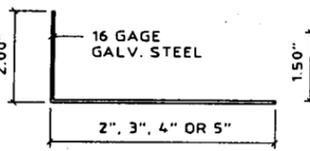
5a ANGLE
SCALE: 3" = 1'-0"



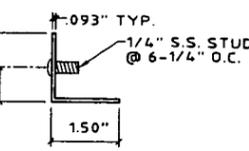
6 ANGLE
SCALE: 3" = 1'-0"



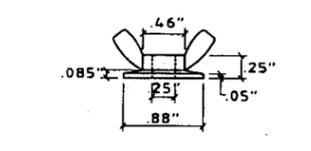
8 "F" TRACK
SCALE: HALF SIZE



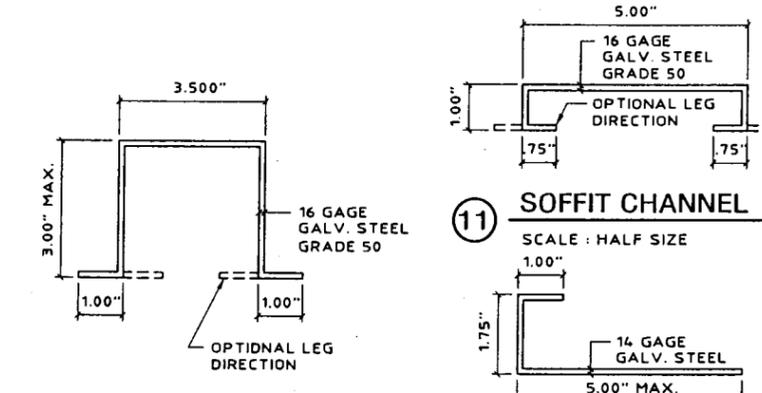
5 ANGLE
SCALE: 3" = 1'-0"



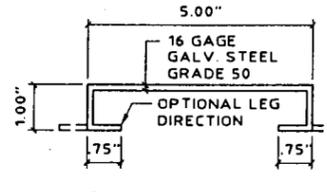
7 STUDDED ANGLE
SCALE: 3" = 1'-0"



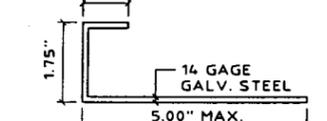
9 WINGNUT
SCALE: HALF SIZE



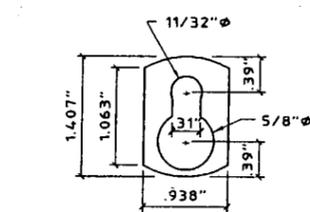
10 STANDARD CHANNEL
SCALE: HALF SIZE



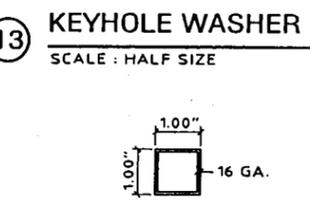
11 SOFFIT CHANNEL
SCALE: HALF SIZE



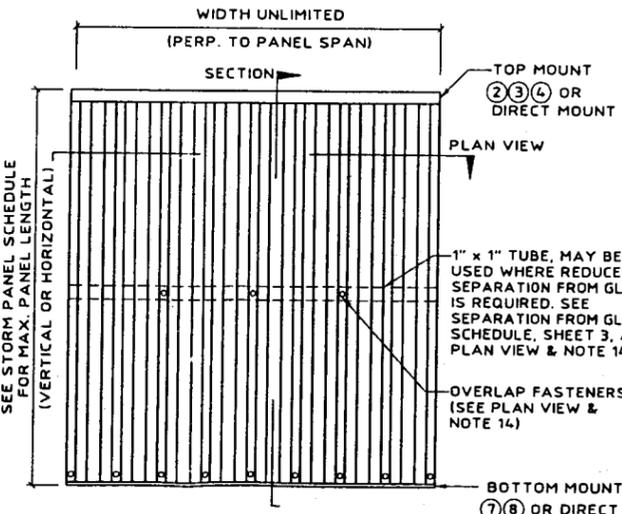
12 CLOSURE
SCALE: 3" = 1'-0"



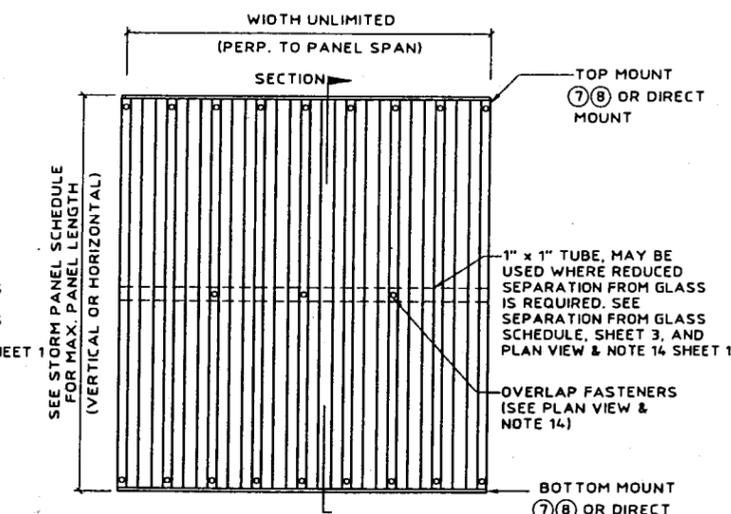
13 KEYHOLE WASHER
SCALE: HALF SIZE



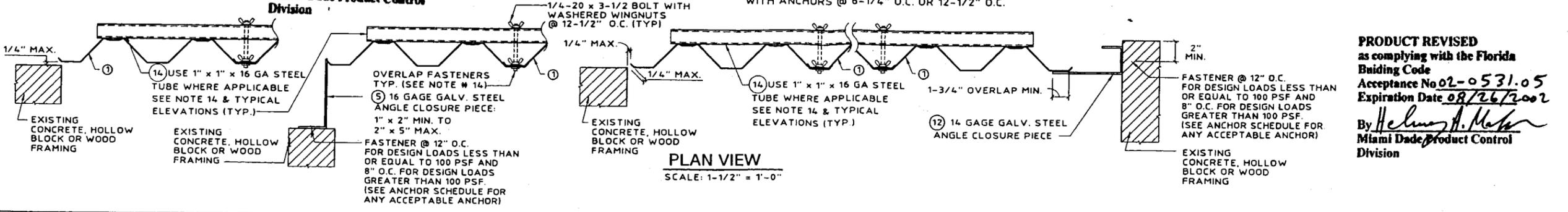
14 STEEL TUBE
SCALE: 3" = 1'-0"



15 TYPICAL ELEVATION (SYSTEM 1)
OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP MOUNTS SHALL BE "h" OR "u" HEADERS OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C. OR 12-1/2" O.C. BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C. OR 12-1/2" O.C.



16 TYPICAL ELEVATION (SYSTEM 2)
OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP & BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.



15 PLAN VIEW
SCALE: 1-1/2" = 1'-0"

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 02-0826-06
Expiration Date 08/26/2007
By Helmut A. Mahr
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 02-0531-05
Expiration Date 08/26/2002
By Helmut A. Mahr
Miami Dade Product Control Division



KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS - PRODUCT TESTING
1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2989 • FLORIDA COA #3205
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: K@KNEZEVICH.COM
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0.060" ALUMINUM STORM PANEL
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14475 N.W. 26th AVE
OPA LOCKA, FL 33054
ph(305) 685-9000 • fx(305) 685-7511

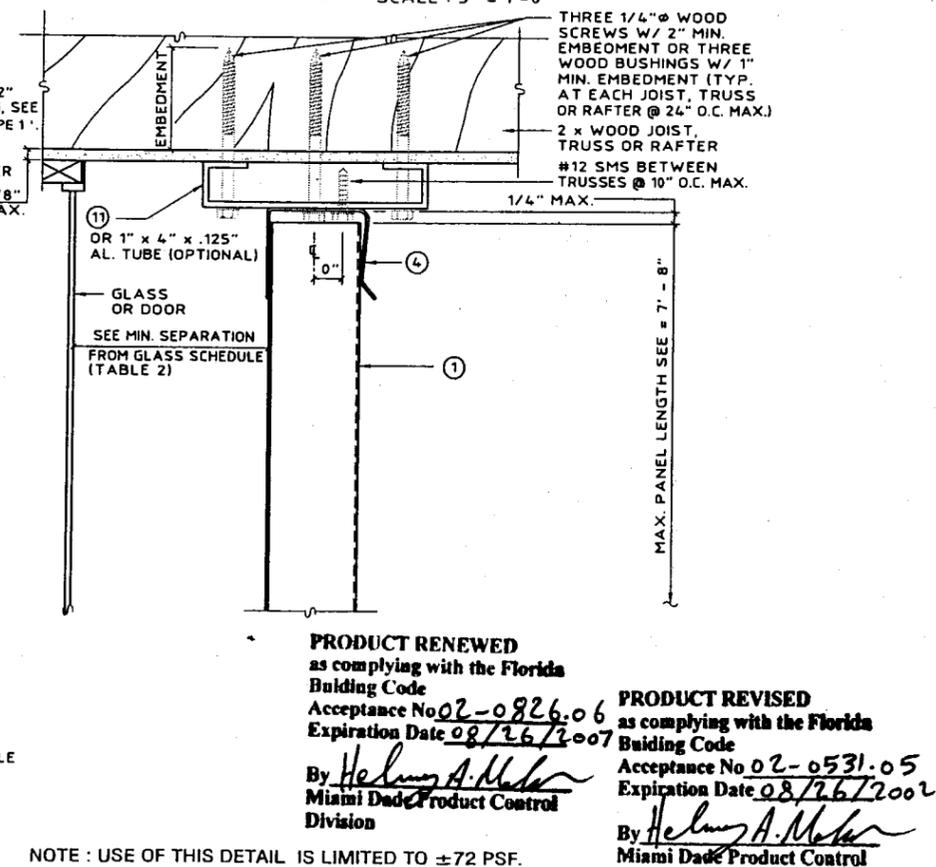
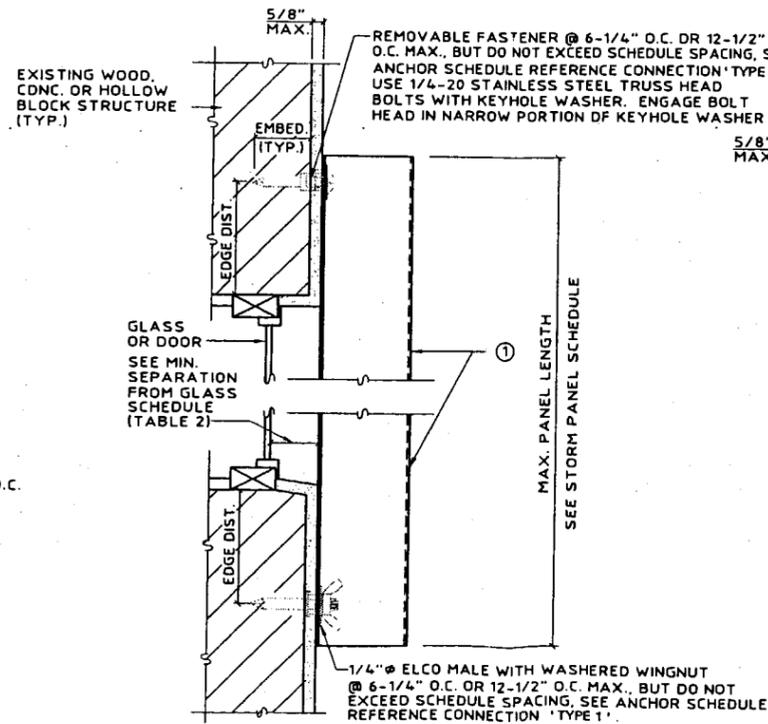
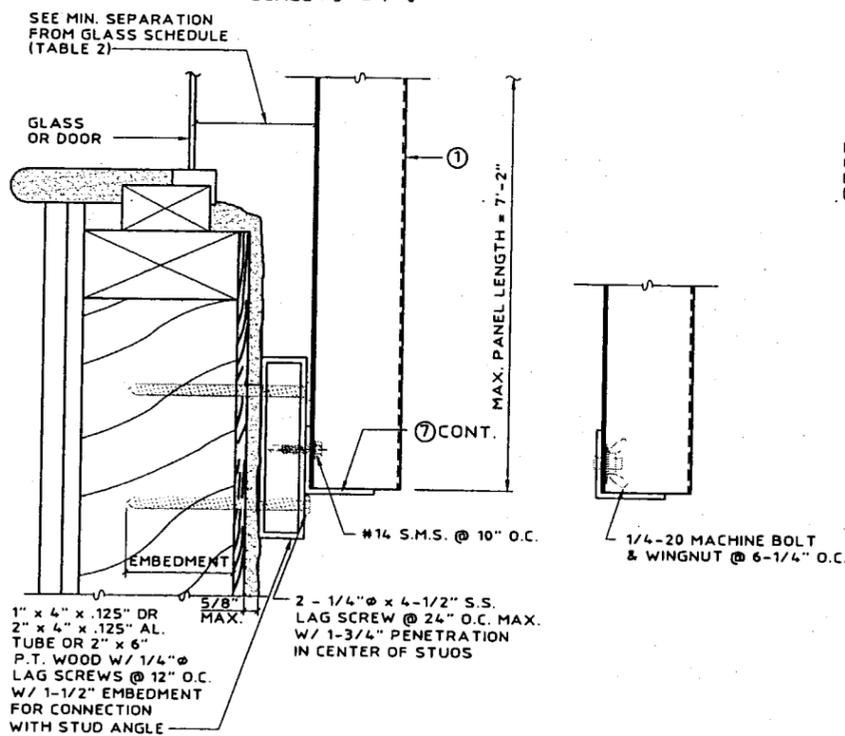
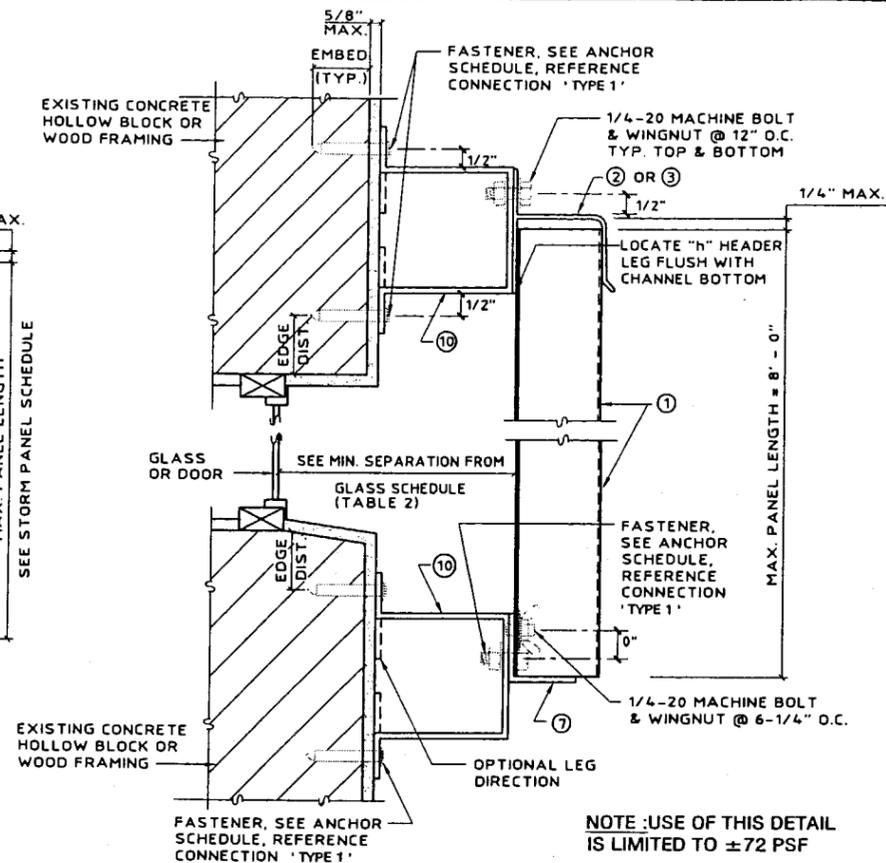
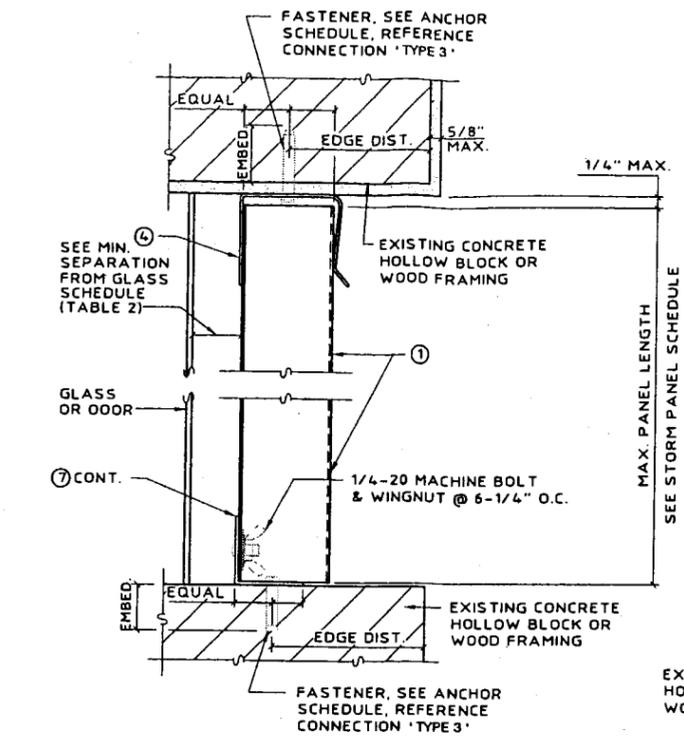
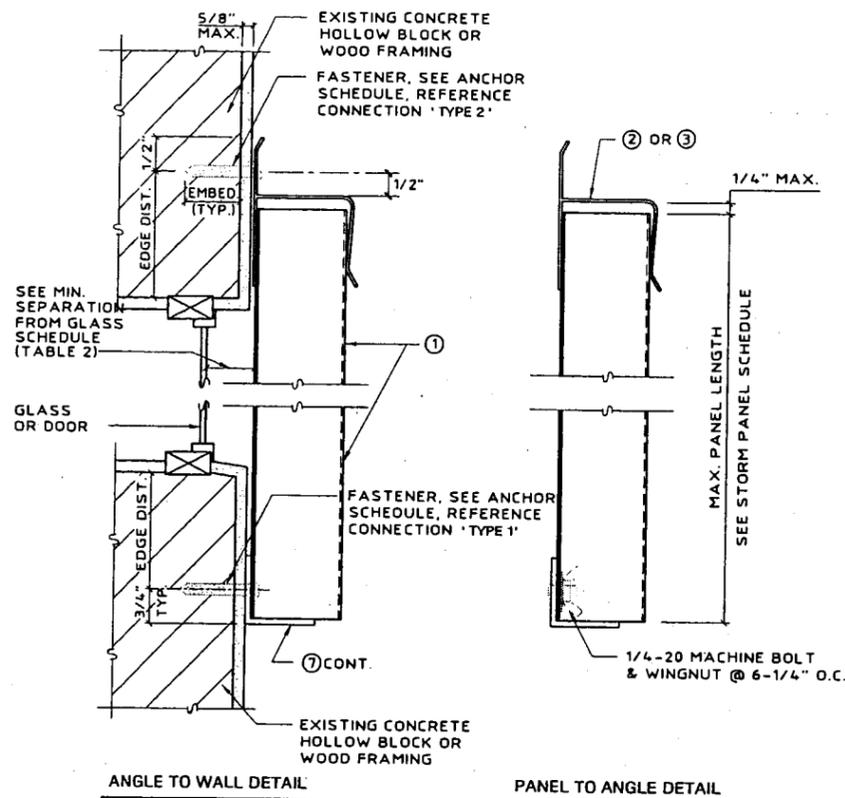
V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No. PE 0019883

MAY 23 2002

NO.	DATE	BY	DESCRIPTION
1	07/19/99	JP	PREV. DRAWING NO. 99-56
2	09/05/99	JWK	COUNTY COMMENTS
3	09/17/99	JP	DIRECT MNT. FAST. SPACING
4	05/23/02	VJK	FBC 2001 GENERAL NOTES

date	07/19/1999
scale	AS NOTED
design by	vjk
checked by	vjk
drawing no.	99-230
sheet	1 of 4

Print Information: J:\CADD\Cadd99\FL-Storm\99-230\R4-sub\99-230-02.dwg AVazquez 05/23/2002 11:05:15am



* THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANELS.
NOTE: USE OF THIS DETAIL IS LIMITED TO ±72 PSF.

PRODUCT RENEWED as complying with the Florida Building Code
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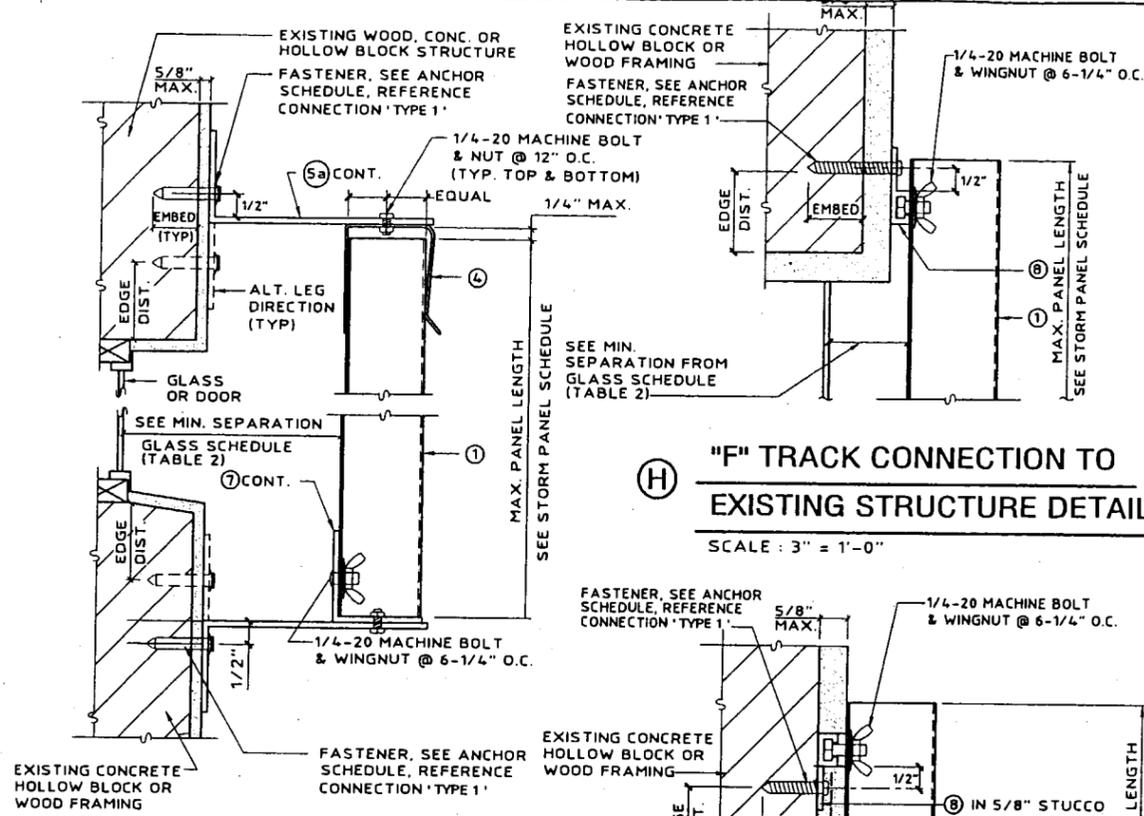
V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No. FE 0010983

MAY 23 2002

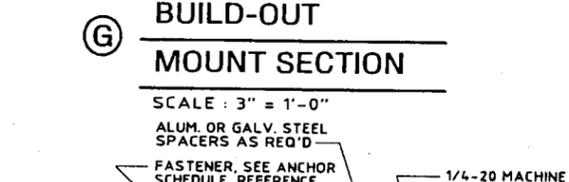
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2	03/05/00	J.P.	COUNTY COMMENTS
3	07/17/99	J.P.	DIRECT PRINT, FAST. SPACING
4	05/23/02	SLB	FBC 2001 GENERAL NOTES

date 07/19/1999
scale AS NOTED drawn by MC
design by VJK checked by VJK
drawing no. 99-230
sheet 2 of 4

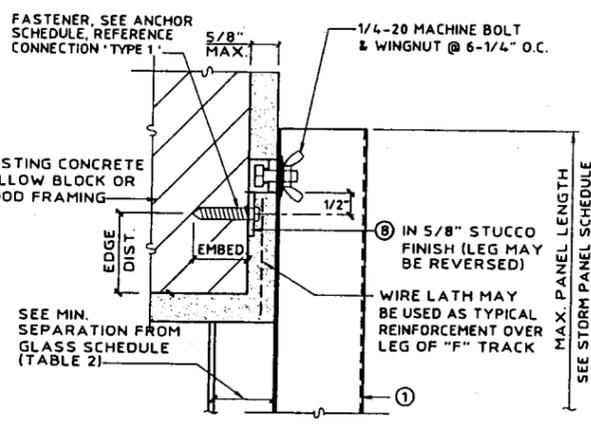
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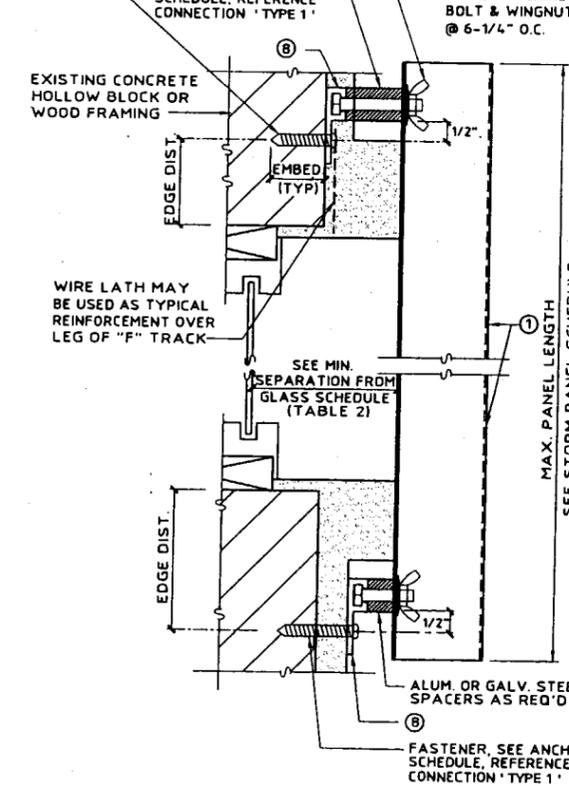
H "F" TRACK CONNECTION TO EXISTING STRUCTURE DETAIL
SCALE: 3" = 1'-0"



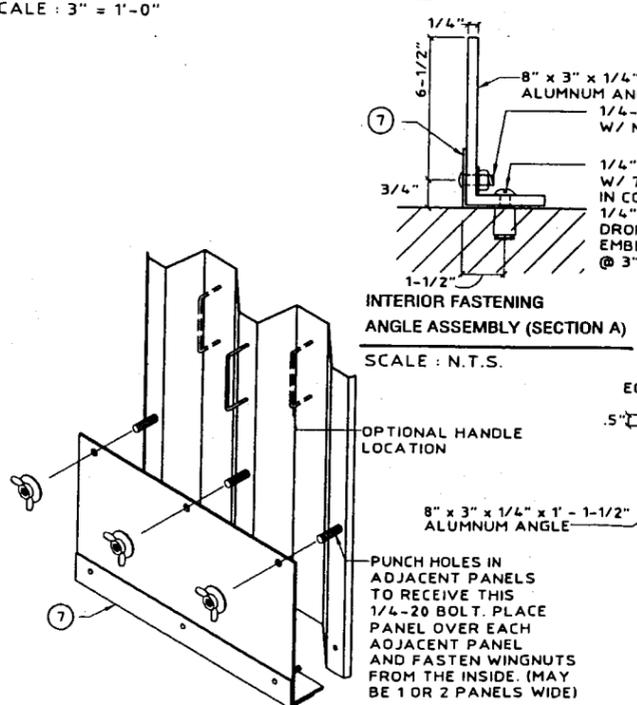
G BUILD-OUT MOUNT SECTION
SCALE: 3" = 1'-0"



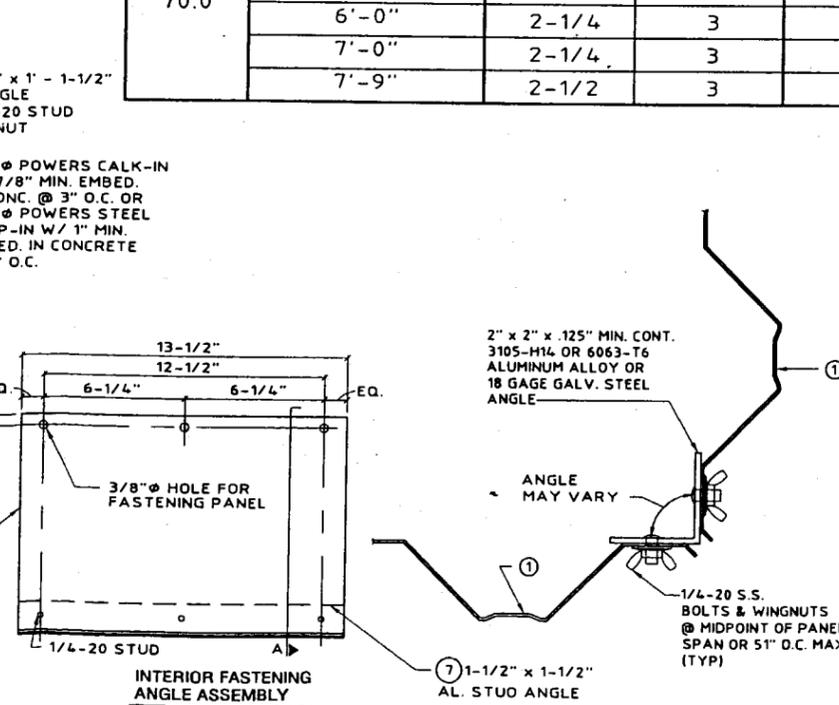
I "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL
SCALE: 3" = 1'-0"



J ALT. "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL
SCALE: 3" = 1'-0"



K STORM PANEL INTERIOR FASTENING (ISOMETRIC)
SCALE: 1-1/2" = 1'-0"



L ALT. CORNER DETAIL
SCALE: 3" = 1'-0"

MIN. STORM PANEL SEPARATION FROM GLASS SCHEDULE				
TABLE 2 POSITIVE DESIGN LOAD (W) (PSF)	ACTUAL SHUTTER SPAN (L) (FT - IN)	MINIMUM SEPARATION FOR INSTALLATIONS 30' OR LESS ABOVE GRADE (INCHES)		MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
		SYSTEMS 1 & 2		SYSTEMS 1 & 2
		MIDSPAN TUBE	MIDSPAN BOLTS	ALL CONDITIONS
40.0	3'-0"	2-1/4	3	1-1/4
	4'-0"	2-1/4	3	1-1/4
	5'-0"	2-1/4	3	1-3/8
	6'-0"	2-1/4	3	1-1/2
	7'-0"	2-1/4	3	1-5/8
50.0	3'-0"	2-1/4	3	1-1/4
	4'-0"	2-1/4	3	1-1/4
	5'-0"	2-1/4	3	1-3/8
	6'-0"	2-1/4	3	1-1/2
	7'-0"	2-1/4	3	1-3/4
60.0	3'-0"	2-1/4	3	1-1/4
	4'-0"	2-1/4	3	1-1/4
	5'-0"	2-1/4	3	1-3/8
	6'-0"	2-1/4	3	1-5/8
	7'-0"	2-1/4	3	1-7/8
70.0	3'-0"	2-1/4	3	1-5/8
	4'-0"	2-1/4	3	1-1/4
	5'-0"	2-1/4	3	1-3/8
	6'-0"	2-1/4	3	1-5/8
	7'-0"	2-1/4	3	2
	7'-9"	2-1/2	3	2-1/2

PRODUCT RENEWED as complying with the Florida Building Code
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PRODUCT REVISED as complying with the Florida Building Code
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V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No. PE 0010983

MAY 23 2002

NO.	DATE	BY	DESCRIPTION
1	07/19/99	J.P.	PREV. DRAWING NO. 99-230
2	08/05/99	J.V.K.	COUNTY COMMENTS
3	09/17/99	J.P.	DIRECT MNT. FAST. SPACING
4	05/23/02	J.V.K.	FBC 2001 GENERAL NOTES

date 07/19/1999
scale AS NOTED
design by VJK
checked by VJK
drawing no. 99-230
sheet 3 of 4

ANCHOR SCHEDULE																				
FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																				
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE						MIN. 3" EDGE DISTANCE											
			SPANS UP TO 3'-7" (SEE NOTE 1)		SPANS UP TO 5'-3" (SEE NOTE 1)		SPANS UP TO 8'-5" (SEE NOTE 1)		SPANS UP TO 3'-7" (SEE NOTE 1)		SPANS UP TO 5'-3" (SEE NOTE 1)		SPANS UP TO 8'-5" (SEE NOTE 1)		SPANS UP TO 8'-5" (SEE NOTE 1)					
			CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE															
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
MIN. 3,000 P.S.I. CONCRETE		48	12.5	12.5	12.5	12.5	12.5	12.5	12.5	10	9	12.5	12.5	12.5	12.5	12.5	12.5	12.5		
		62	12.5	12.5	12.5	12.5	12.5	11	12.5	6	7	12.5	12.5	12.5	12.5	12.5	7	11		
		72	12.5	12.5	12.5	12.5	11	9	12.5	4	6	12.5	12.5	12.5	12.5	12.5	5	9		
		92	12.5	12.5	11	12.5	6	7	12.5	4	5	12.5	12.5	12.5	12.5	8	12	12.5	9	
	230	12.5	4	5	12.5	4	5	12.5	4	5	12.5	5	9	12.5	5	9	12.5	9		
	*	48	12.5	12.5	12.5	12.5	12.5	11	12.5	6	7	12.5	12.5	12.5	12.5	12.5	6	8		
		62	12.5	12.5	12.5	12.5	12	9	12	3	5	12.5	12.5	12.5	12	10	12	4	6	
		72	12.5	12.5	11	12.5	7	7	10	3	4	12.5	12.5	12.5	12.5	8	9	10	3	5
		92	12.5	11	9	12.5	4	6	10	3	4	12.5	11	10	12.5	4	7	10	3	5
	230	10	4	10	4	10	4	10	3	5	10	3	5	10	3	5	10	3	5	
	*	48	12.5	12.5	12.5	12.5	12.5	12.5	12.5	10	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
		62	12.5	12.5	12.5	12.5	12.5	12.5	12.5	8	8	12.5	12.5	12.5	12.5	12.5	12.5	10	12.5	
72		12.5	12.5	12.5	12.5	12.5	11	12.5	6	7	12.5	12.5	12.5	12.5	12.5	12.5	8	11		
92		12.5	12.5	12.5	12.5	9	9	12.5	6	7	12.5	12.5	12.5	12.5	11	12.5	12.5	7	11	
230	12.5	6	7	12.5	6	7	12.5	6	7	12.5	7	11	12.5	7	11	12.5	7	11		
	48	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25		
	62	6.25	6.25	6.25	6.25	6.25	6.25	6.25	4	6	6.25	6.25	6.25	6.25	6.25	6.25	4	6.25		
	72	6.25	6.25	6.25	6.25	6.25	6.25	6.25	3	5	6.25	6.25	6.25	6.25	6.25	6.25	3	6.25		
	92	6.25	6.25	6.25	6.25	4	6	6.25	3	5	6.25	6.25	6.25	6.25	5	6.25	6.25	3	6.25	
230	6.25	3	5	6.25	3	5	6.25	3	5	6.25	3	5	6.25	3	5	6.25	3	6.25		
HOLLOW CONCRETE BLOCK		48	12.5	12.5	10	12.5	12.5	7	9	4	4	12.5	12.5	12.5	12.5	12.5	11	12	5	7
		62	12.5	12.5	8	12	7	5	7	3	12.5	12.5	12	12.5	9	8	9	3	5	
		72	12.5	12.5	7	10	4	4	6.25	3	12.5	12.5	10	12.5	5	7	8	4	4	
		92	11	7	5	8	3	6.25	3	12.5	8	8	10	3	5	7	4	4		
	230	6.25	3	6.25	3	6.25	3	6.25	3	7	4	7	4	7	4	7	4	4		
	*	48	12.5	12.5	12.5	12.5	12.5	11	12.5	6	7	12.5	12.5	12.5	12.5	12.5	12.5	6	8	
		62	12.5	12.5	12.5	12.5	12	9	12	3	5	12.5	12.5	12.5	12.5	12	10	12	4	6
		72	12.5	12.5	11	12.5	7	7	10	3	4	12.5	12.5	12.5	12.5	8	9	10	3	5
		92	12.5	11	9	12.5	4	6	10	3	4	12.5	11	10	12.5	4	7	10	3	5
	230	10	4	10	4	10	4	10	3	5	10	3	5	10	3	5	10	3	5	
	*	48	12.5	12.5	12.5	12.5	12.5	10	12.5	5	6	12.5	12.5	12.5	12.5	12.5	12.5	7	9	
		62	12.5	12.5	11	12.5	10	7	10	3	4	12.5	12.5	12.5	12.5	12.5	11	12.5	4	7
72		12.5	12.5	9	12.5	6	6	9	4	12.5	12.5	12.5	12.5	8	10	11	3	6.25		
92		12.5	10	7	11	3	5	9	4	12.5	12	11	12.5	4	8	11	3	6		
230	9	4	9	4	9	4	9	4	11	3	6	11	3	6	11	3	6			
	48	6.25	6.25	6.25	6.25	6.25	6.25	6.25	4	6	6.25	6.25	6.25	6.25	6.25	6.25	5	6.25		
	62	6.25	6.25	6.25	6.25	6.25	6.25	6.25	5	6.25	6.25	6.25	6.25	6.25	6.25	6.25	3	6		
	72	6.25	6.25	6.25	6.25	5	6	6.25	4	6.25	6.25	6.25	6.25	6	6.25	6.25	5			
	92	6.25	6.25	6.25	6.25	3	5	6.25	4	6.25	6.25	6.25	6.25	3	6	6.25	5			
230	6.25	4	6.25	4	6.25	4	6.25	4	6.25	5	6.25	5	6.25	5	6.25	5				

ANCHOR SCHEDULE												
FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS												
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 1)	MIN. 3/4" EDGE DISTANCE									
			SPANS UP TO 3'-7" (SEE NOTE 1)			SPANS UP TO 5'-3" (SEE NOTE 1)			SPANS UP TO 8'-5" (SEE NOTE 1)			
			CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	
			1	2	3	1	2	3	1	2	3	
WOOD		48	11	11	11	11	11	11	11	11	11	7
		62	11	11	11	11	11	9	11	8	5	
		72	11	11	11	11	11	7	11	6	4	
	92	11	11	9	11	9	6	11	6	4		
	230	11	6	4	11	6	4	11	6	4		
	*	48	6.25	6.25	6.25	6.25	6.25	6.25	6.25	5	6	
62		6.25	6.25	6.25	6.25	6.25	6.25	6.25	3	4		
72		6.25	6.25	6.25	6.25	6	6	6.25	4			
92		6.25	6.25	6.25	6.25	3	5	6.25	4			
230	6.25	4	6.25	4	6.25	4						

STORM PANEL SPAN SCHEDULE		
NEGATIVE DESIGN LOAD W (PSF)	OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP MOUNTS SHALL BE "h" OR "u" HEADERS. BOTTOM MOUNTS SHALL BE "f" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS W/ ANCHORS @ 6-1/4" O.C.	OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP & BOTTOM MOUNTS SHALL BE "f" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.
	SYSTEM 1 MAX. PANEL LENGTH (FT - IN)	SYSTEM 2 MAX. PANEL LENGTH (FT - IN)
40.0	8 - 5	8 - 5
50.0	8 - 5	8 - 5
60.0	8 - 4	8 - 4
70.0	7 - 9	7 - 9
80.0	7 - 3	7 - 3
90.0	6 - 10	6 - 10
100.0	6 - 2	6 - 6
110.0	5 - 7	6 - 2
120.0	5 - 2	5 - 11
130.0	4 - 9	5 - 8
140.0	4 - 5	5 - 6
150.0	4 - 1	5 - 3
160.0	3 - 10	5 - 1
170.0	3 - 7	4 - 11
180.0	3 - 5	4 - 10
190.0	3 - 3	4 - 8
200.0	3 - 1	4 - 7
210.0	2 - 11	4 - 5
220.0	2 - 9	4 - 4
230.0	2 - 8	4 - 3

- ANCHOR NOTES:**
- SPANS & LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
 - ENTER TABLE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
 - EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE AND APPROPRIATE CONNECTION TYPE. SEE CONNECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
 - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
 - MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
 - WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
 - WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2"x4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
 - MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
 - DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
 - * DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS - PRODUCT TESTING
 1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
 TEL: (954) 382-2800 • FAX: (954) 382-2989 • FLORIDA COA #3205
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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0-060" ALUMINUM STORM PANEL
FLORIDA STORM PANELS, INC.
 14475 N.W. 26th AVE.
 OPA LOCKA, FL 33054
 ph(305) 685-9000 • fx(305) 685-7511

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
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 MAY 23 2002

REV. NO.	DATE	BY	DESCRIPTION
1	07/19/99	JP	PREV. DRAWING NO. 99-549
2	08/05/99	JK	COUNTY COMMENTS
3	09/17/99	JP	DIRECT MNT. FAST. SPACING
4	05/23/02	JB	2001 GENERAL NOTES

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 02-0826-06
 Expiration Date 08/26/2007
 By *Helmut A. Malar*
 Miami Dade Product Control Division

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No 02-0531-05
 Expiration Date 08/26/2007
 By *Helmut A. Malar*
 Miami Dade Product Control Division

date 07/19/1999
 scale AS NOTED
 design by VJK
 checked by VJK
 drawing no. 99-230
 sheet 4 of 4