



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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.gov/buildingcode

Ruskin Company
3900 Dr. Greaves Road.
Grandview, MO 64030

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: Model ELF6375DXD Aluminum Louver with Optional CD102 Damper

APPROVAL DOCUMENT: Drawing No. **60-021562-00D, 01D, 02D, 03D, 04D, 05D, 13D, 14D & 15D**, titled "ELF6375DXD Louver's," dated 03/06/98, prepared by Ruskin Manufacturing, signed and sealed by Daniel J. Rau, 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 Resistant

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 **revises NOA # 06-0602.04** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Handwritten Signature]
 8/4/08

NOA No. 08-0506.09
 Expiration Date: July 9, 2011
 Approval Date: August 28, 2008
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **60-021562-00D, 01D, 02D, 03D, 04D, 05D, 13D, 14D & 15D**, titled "ELF6375DXD Louver's," dated 03/06/98, prepared by Ruskin Manufacturing, signed and sealed by Daniel J. Rau, P.E.

B. TESTS

1. Test report on Large Missile Impact Test per PA 201, Cyclic wind Pressure Test per PA 203 and Uniform Static Air Pressure Test per PA 202 of "Open, Extruded Aluminum Louver Assembly," prepared by Construction Research Laboratory Inc., Report No. **97-1124.22**, dated 08/04/00 and revised on 12/18/00, signed and sealed by N. S. Balsara, P.E.
"Submitted under NOA # 01-0328.04"

C. CALCULATIONS

1. Louver Blade, Mullion & Support Calculations of Dade County Louver per DWG. No. 60021680-21D, dated 07/18/00, pages 1 to 21 of 21, prepared by R. H. Wagner, signed and sealed by E. P. Hutson, P.E.
"Submitted under NOA # 01-0328.04"

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Extrusion drawings No. 70-020689-00B, 70-020690-00B, 70-020691-00B & 70-020560-00B, prepared by Ruskin Manufacturing, on 05/17/96, 04/05/96, 05/20/96 & 10/25/94 approved by G.L. and R.V.B.
"Submitted under NOA # 06-0602.04"



8/4/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0506.09
Expiration Date: July 9, 2011
Approval Date: August 28, 2008

Ruskin Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Letter of Code Compliance issued by Ruskin Manufacturing, on 07/29/97, signed by M. Astourian, P.E.
2. Test Compliance letter issued by Construction Research Laboratory, Inc., on 08/04/00, signed by R. Sembello.
3. No Financial Interest letter issued by Ruskin Manufacturing, signed by V. M. Astourian and notarized by T. S. Turner on 06/23/99.
“Submitted under NOA # 01-0328.04”
4. No change letter issued by Ruskin Manufacturing on 05/05/06 and 05/19/06, signed by R. Van Becelaere.
“Submitted under NOA # 06-0602.04”
5. Revision request letter and new sill die drawings, prepared by Ruskin Company, dated 04/21/08, signed and sealed by Daniel J. Rau, P.E.

G. OTHER

1. Notice of Acceptance No. **06-0602.04**, issued to Ruskin Company, approved on 08/03/06 and expiring on 07/09/11.

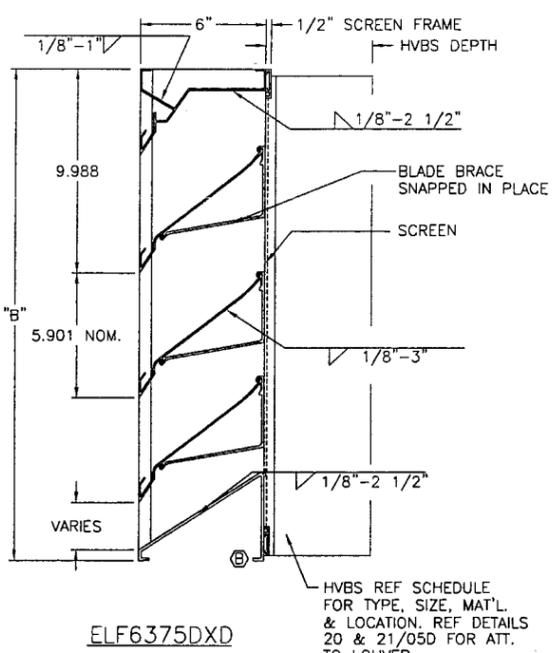

2/4/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0506.09
Expiration Date: July 9, 2011
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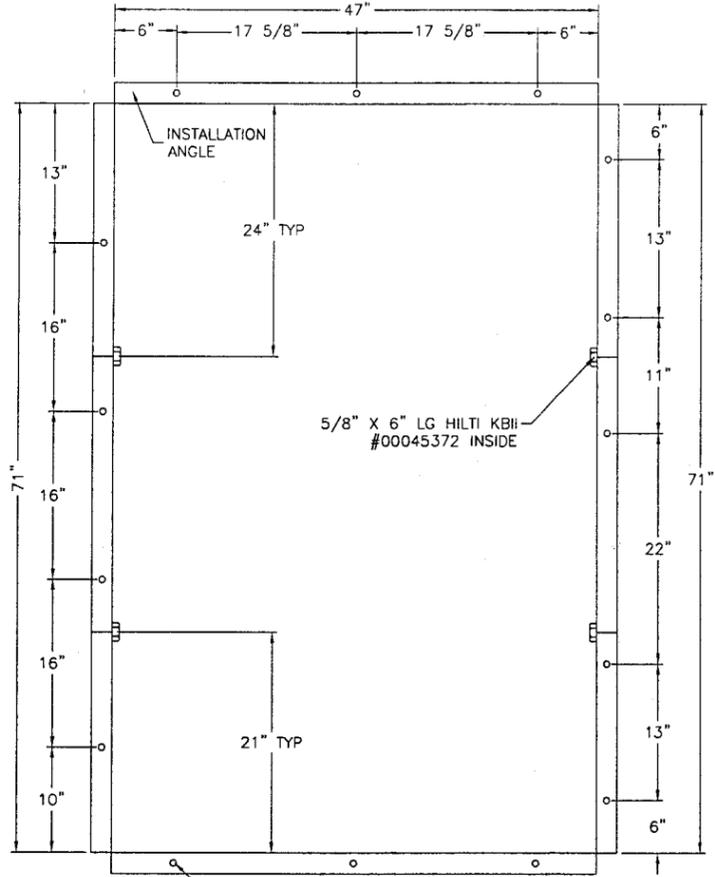
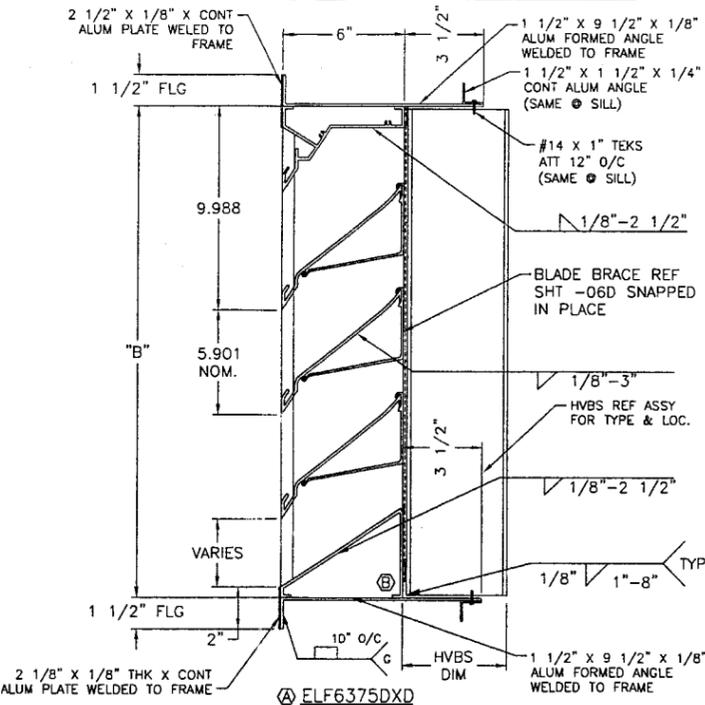
LOUVER SCHEDULE

MODEL	DAMPER REQUIRED BEHIND LOUVER	LOUVER SIZE		O.D. OF SLEEVE SIZE			ROUGH OPENING DIM		SHIP SECTIONS	ASSY	DETAILS				H.V.B.S.			COLOR	LEGEND
		"A"	"B"	WIDTH ("A")	HEIGHT ("B")	DEPTH	"c"	"d"			HEAD	JAMB	SILL	TYPE	C-C	QTY	DEPTH		
ELF6375DXD	NO DAMPER	47 1/4"	71 1/4"	-	-	-	48 1/4"	72 1/4"	1	A	11/03D	13 SIM	13/03D	089	23 5/8"	1	6"	MILL	
ELF6375DXD	DAMPER REQUIRED	96 1/4"	117 3/4"	96 1/2"	118"	32 1/2"	97 1/4"	118 3/4"	2	E	12/03D	12 SIM	14/03D	C4 X 5.4	24 1/16"	3	4"	MILL	③
ELF6375DXD	DAMPER REQUIRED	156"	96"	156 1/4"	96 1/4"	34 1/2"	157"	97"	2	C	7/02D	8/02D	9/02D	(2)059	28"	4	6"	MILL	③⑥
ELF6375DXD	NO DAMPER	95 1/2"	119"	-	-	-	96 1/2"	120"	2	B	11/03D	13 SIM	13/03D	C5 X 6.7	23 7/8"	3	5"	MILL	
ELF6375DXD	NO DAMPER	32 5/8"	61 7/8"	-	-	-	33 5/8"	62 7/8"	1	D	17/04D	15/04D	16/04D	087	16 5/16"	1	4"	MILL	⑤
ELF6375DXD (A)	NO DAMPER	251 3/4"	119 3/4"	252"	120"	-	252 1/4"	120 1/4"	3	F				C5 X 6.7	20 15/16"	9	5"	MILL	

FRAME	
6063-T5 extruded aluminum with .080" nominal wall thickness.	
Flange frame is same material and thickness as above.	
BLADES	
6063-T5 extruded aluminum with .080" nominal wall thickness. Blades are positioned at 37.5° angle.	
SCREEN	
3/4" x .051" expanded flat-tened aluminum bird screen.	
1/2" mesh x .063" aluminum bird screen.	
18-16 mesh alum insect screen	
No screen.	
FINISH	
Mill.	
Kynar (opt).	
Baked enamel (modified fluoropolymer, 50% Kynar, opt).	
Color Anodize (opt).	
Clear Anodize (opt).	
Color:	
ACCESSORIES	
Extended sill.	
Clip angles.	
Blankoff panel. REF SCHED	

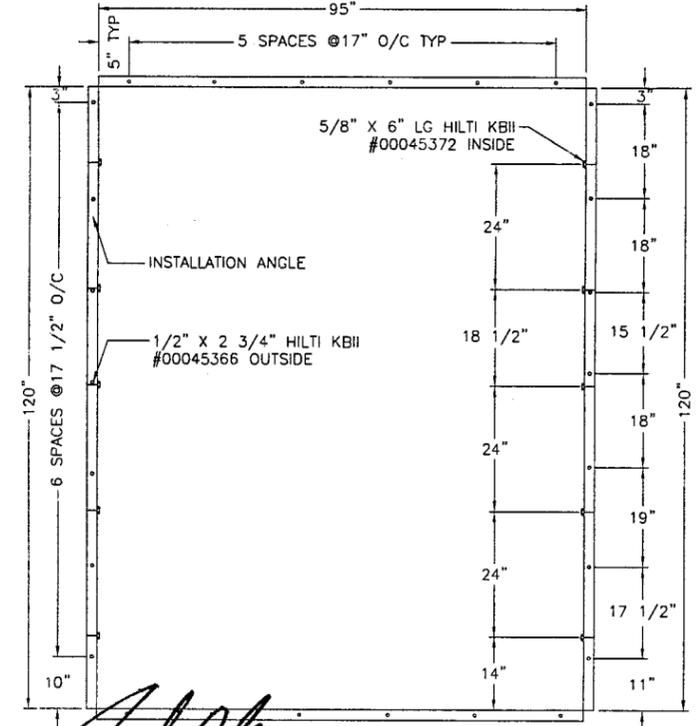
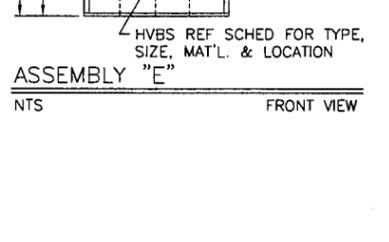
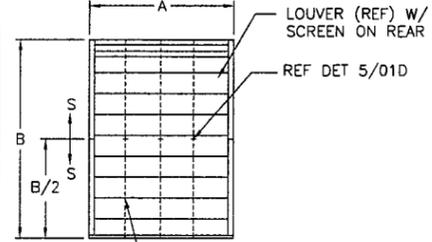
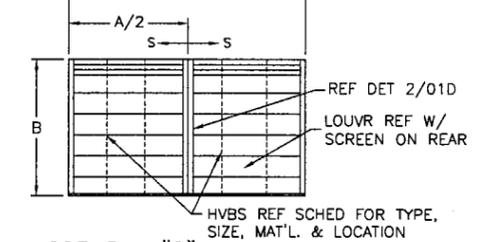
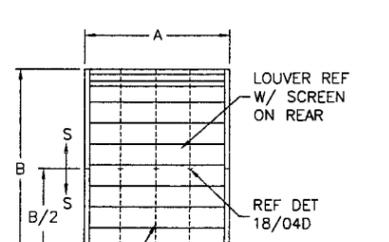
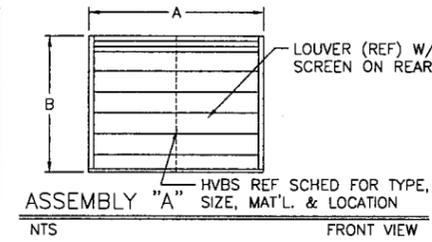


FRAME	
6063-T5 extruded aluminum with .125" nominal wall thickness. W/4" x 1" angle rear @ perimeter only.	
Flange frame is same material and thickness as above.	
BLADES	
6063-T5 extruded aluminum with .080" nominal wall thickness. Blades are positioned at 37.5° angle.	
SCREEN	
3/4" x .051" expanded flat-tened aluminum bird screen.	
1/2" mesh x .063" aluminum bird screen. Note 1.	
18-16 mesh alum insect screen	
No screen.	
FINISH	
Mill.	
Kynar (opt).	
Baked enamel (modified fluoropolymer, 50% Kynar, opt).	
Color Anodize (opt).	
Clear Anodize (opt).	
Color: SEE NOTE #15	
ACCESSORIES	
Extended sill. REF DETAIL'S	
Clip angles.	
Blankoff panel.	
1 1/2" x 1 1/2" x 1/8" Continuous angles at perimeter	



ANCHOR BOLT PATTERN FOR ASSY "A"
N.T.S. REAR VIEW

ⓐ DESIGN PRESSURE RATING
±138 PSF FOR MODEL ELF6375DXD
±148 PSF FOR MODEL ELF6375DXD
LARGE MISSILE IMPACT RESISTANCE



ANCHOR BOLT PATTERN FOR ASSY "B"
N.T.S. REAR VIEW

- NOTES:
- DIMENSIONS SHOWN ARE ACTUAL LOUVER SIZE.
 - LOUVER DESIGN INCORPORATES STRUCTURAL SUPPORTS, ATTACHED TO REAR OF LOUVER TO WITHSTAND VARIOUS WINDLOADS (REF SCHED FOR WINDLOAD PSF) REF SCHEDULE, ASSY, OR PLAN VIEW FOR SIZE, QTY., & LOCATION.
 - ⓐ INDICATES TAG: LETTER= ASSY # = SHIP SECTION.
 - H.V.B.S. = HIDDEN VERTICAL BLADE SUPPORT. C-C = CENTER TO CENTER DIM OF HVBS. FOUND ON SCHED QTY = QUANTITY OF HVBS. FOUND ON SCHEDULE H.V.B.S. = HORIZ HIDDEN BLADE SUPPORT L.D. = LOUVER DIMENSION. L.D.D. = LOUVER DOOR DIMENSION. N.I.R.C. = NOT IN RUSKIN CONTRACT. O.L.D. = OUT SIDE LOUVER DIMENSION. U.N.O. = UNLESS NOTED OTHERWISE OPP = OPPOSITE. O.S.D. = OUTSIDE SLEEVE DIMENSION P.S.F. = POUNDS PER SQUARE FOOT R.O. = ROUGH OPENING. SIM = SIMILAR. S.D. = SUB-FRAME DIMENSION. S.S. = SHIP SECTION. S.S.D. = SHIP SECTION DIMENSION TYP = TYPICAL.
 - NOTCHING OF HVBS AROUND STRUCTURE AND/OR OBSTRUCTIONS IN THE FIELD, SHALL BE THE RESPONSIBILITY OF INSTALLATION CONTRACTOR. IF CONTINUOUS ANGLES AND/OR EXTENDED SILLS ARE ORDERED NOTCHING OF THE ANGLES AND SILLS AROUND OBSTRUCTIONS (HVBS & FIELD CONDITIONS) SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.
 - MULTIPLE SECTION LOUVER/SCREEN ASSEMBLIES REQUIRE FIELD DRILLING OF SUPPORTS, FRAMES AND OPTIONAL CLIP ANGLES BY THE INSTALLATION CONTRACTOR. (N.I.R.C.)
 - SEALING REQUIREMENTS AROUND LOUVERS, BETWEEN ADJOINING SILLS, FRAMES AND WATERSTOPS FOR ARCHITECTURAL STYLE CONTINUOUS BLADE LOUVERS SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.
 - IF BITUMINOUS COMPOUNDS ARE REQUIRED, BETWEEN DISSIMILAR METALS OR LOUVER AND OTHER SURFACES, IT IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO SUPPLY AND PROPERLY APPLY IT.
 - WHEN CLIP ANGLES ARE ORDERED AS AN OPTION THEY ARE 1 1/2" X 1 1/2" X 1/8" U.N.O. REF: DETAILS AND SHIP SECTION JOINTS, THE SIZE AND ANCHOR TYPE USED TO FASTEN TO THE STRUCTURE SHALL BE THE RESPONSIBILITY OF THE ENGINEER OF RECORD ON THE PROJECT. (N.I.R.C.)
 - REF DWGS: SEE #60-021562-01D THRU 05D FOR DETAILS.
 - SLEEVE JOINT TO HAVE CONTINUOUS WELD & GRIND SMOOTH SO THAT THE WELD DOES NOT REDUCE OPENING
 - ALL EXPOSED EDGES AND SURFACES, WHEN VIEWED FROM FRONT, ARE TO BE PAINTED TO MATCH LOUVER.

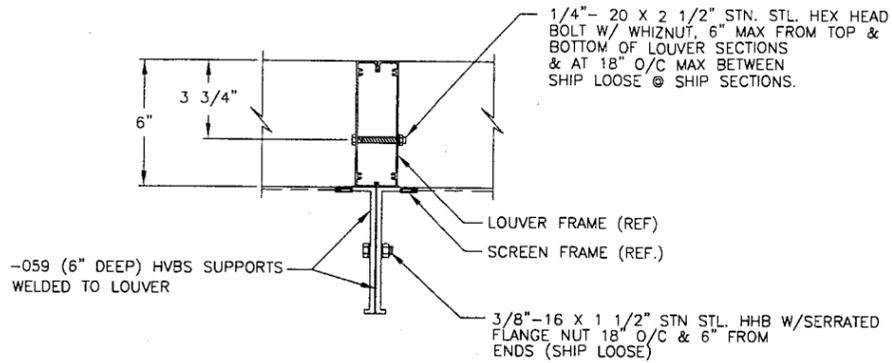
- LEGEND
- NOT USED
 - NOT USED
 - CD-102 DAMPERS ARE TO BE INSTALLED BEHIND ELF6375DXD LOUVERS IN A 1 1/8" THICK ALUMINUM SLEEVE. (REF. SCHEDULE FOR SLEEVE DEPTH) DAMPER'S ARE TO BE SHIPPED LOOSE DUE TO SIZE & WEIGHT LIMITATIONS AND INSTALLED IN THE FIELD. REF DRAWING #60-21562-15D FOR CD-102 ASSEMBLIES AND ADDITIONAL INFORMATION.
 - NOT USED
 - REAR OF LOUVER TO BE 100% .063" ALUMINUM BLANKED OFF. FINISH TO MATCH LOUVER.
 - HVBS MEMBER (2-059'S) REQUIRED BEHIND VISIBLE MULLION REF DET 2/01D

NOTE:
IF LOUVER ASSEMBLY IS BEING SPLIT & IT REQUIRES A SLEEVE, THE SLEEVE WILL ALSO BE SPLIT AND BE CAULKED TOGETHER IN FIELD.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 08-0506.07
Expiration Date 07/09/2011
By *[Signature]*
Miami Dade Product Control Division

ENGINEER OF RECORD: DANIEL J RAU	CHANGE SILL TO 70-021130-00B	RFM	DJR	DJR	4/21/08
ENGINEERING DISCIPLINE: CIVIL ENGINEER	ADDED ASSY "F" & SPEC	JW	VMVA		10/18/00
REGISTRATION #: STATE OF FLORIDA #63636	REVISION DESCRIPTION	CHG. BY:	CHK'D. BY:	APPR'D. BY:	DATE
DATE: 3-6-98					
DADE COUNTY LOUVERS SHEET 1 OF 9	ELF6375DXD LOUVER'S SCHED, SPEC'S, ASSY'S & NOTES	PLOT SCALE: NONE		ECN: 3.347	DWG. NO: 60-021562-00D

FOR OFFICE USE ONLY

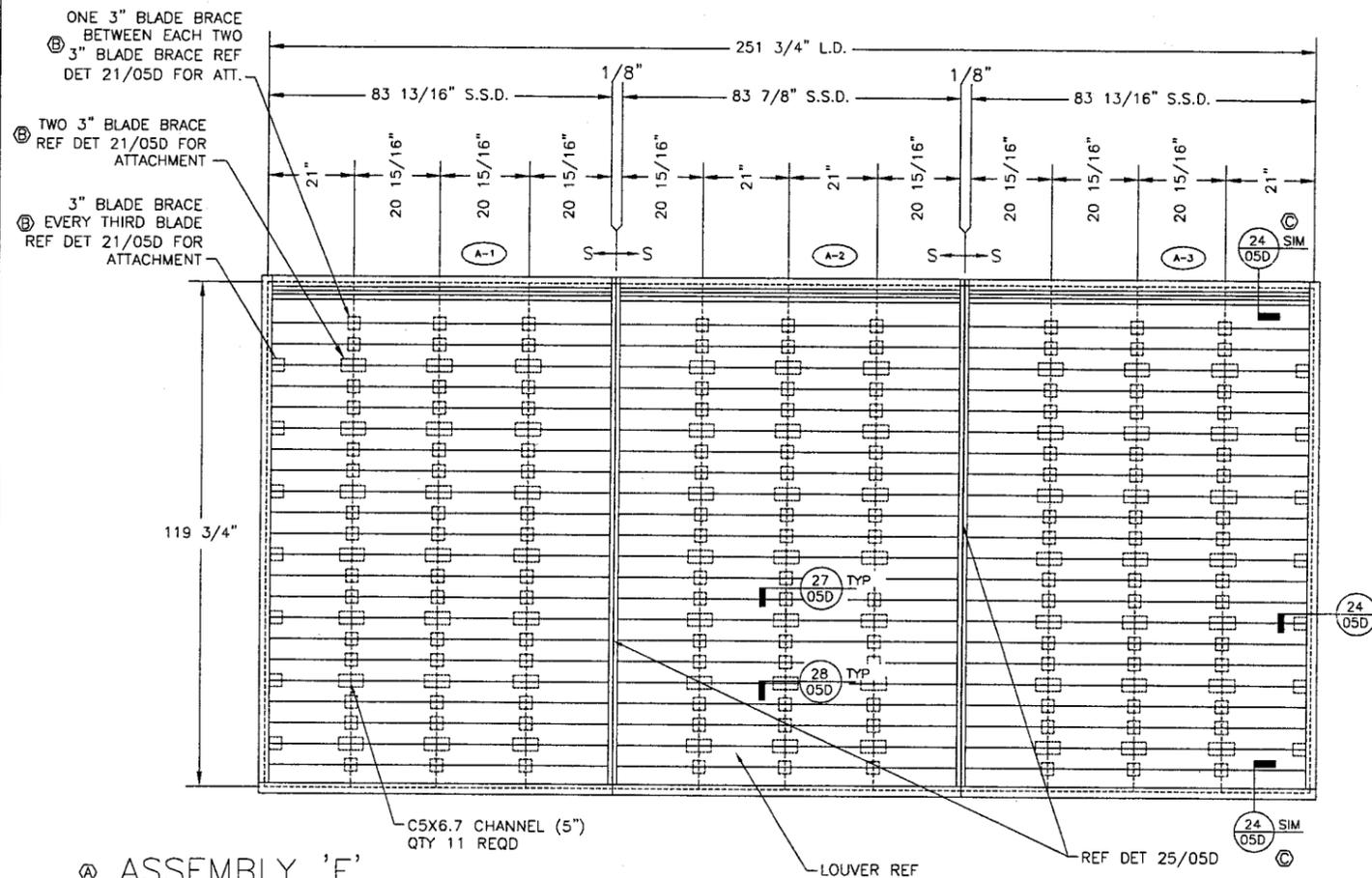


1 NOT USED
N.T.S.

2 VISIBLE MULLION CONNECTION DETAIL
SCALE: N.T.S.

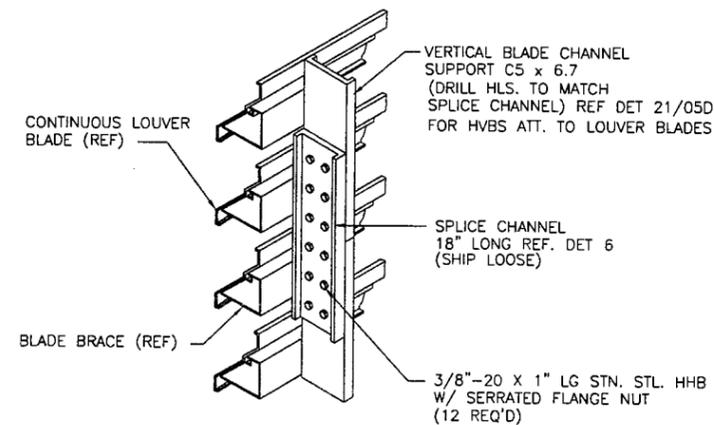
3 NOT USED
SCALE: N.T.S.

4 NOT USED
SCALE: N.T.S.

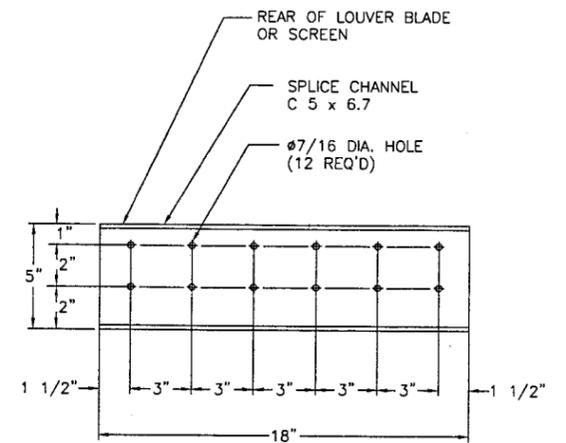


A ASSEMBLY 'F'
NTS
DESIGN PRESSURE RATING 160PSF

FRONT VIEW



5 C5\"/>



6 C5\"/>

NOTES:

- 1) WELD BIRD SCREEN TO SCREEN FRAME @ 12\"/>
- 2) THE STRUCTURE SUBSTRATE THAT HOLDS THE LOUVER IN PLACE, IS ASSUMED TO BE STRUCTURALLY SOUND AND STABLE TO TAKE THE LOADS DISPERSED BY THE LOUVER.
- 3) LOUVER IS NONBEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEADLOADS.

Daniel J. Rau
7/7/2008

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 08-0506.09
Expiration Date 07/07/2011
By *[Signature]*
Miami Dade Product Control
Division

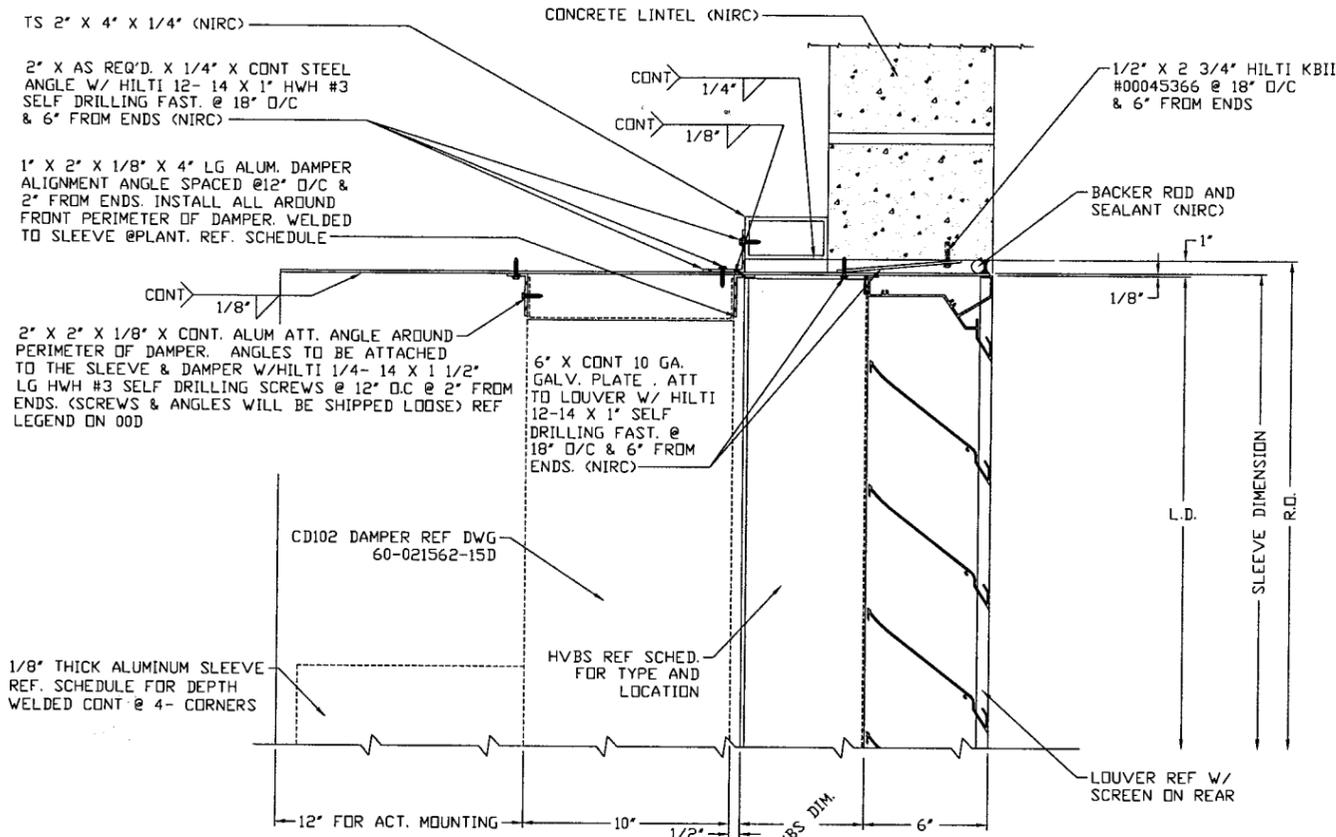
FOR OFFICE USE ONLY

NOTES:
1) REFERENCE DRAWING #60-021562-000 FOR SCHEDULE, SPECIFICATION'S, ASSEMBLIES, DETAIL'S & ADDITIONAL NOTES

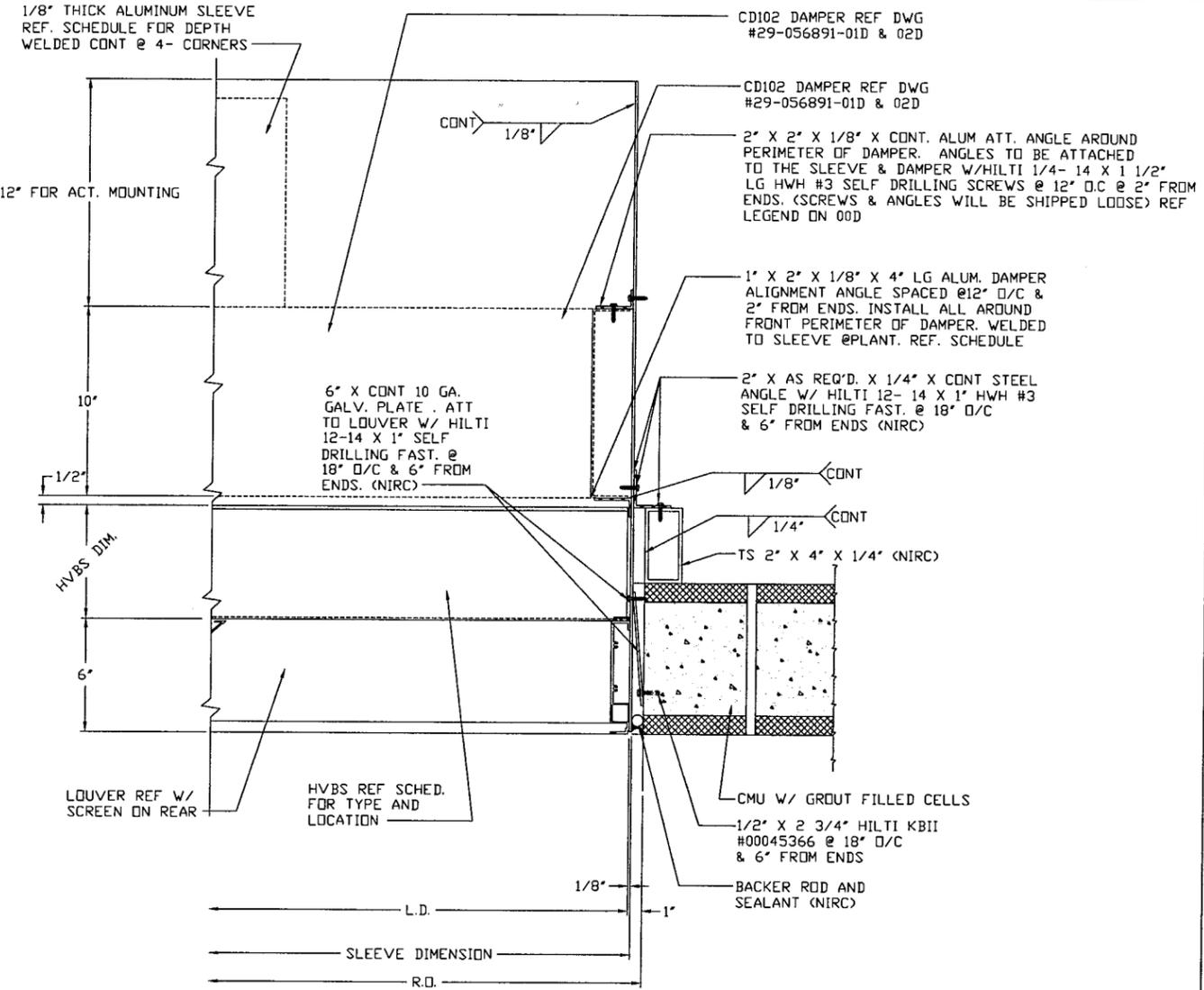
REVISION	REVISION DESCRIPTION	DATE	BY	APP'D.
1	REV'D ENGR OF REC	4/21/08	DWS	DJR
2	REV'D DET 2/000, ADDED SECTION DETAIL 24/05D	1/11/00	JW	VMA
3	DET 1/- NOTE USED REV'D NOTES ON ASSY 'F'		JW	
4	ADDED ASSY 'F'	10-18-00	JW	VMA

ENGINEER OF RECORD	DANIEL J. RAU	REGISTRATION #	STATE OF FLORIDA #63636
ENGINEERING DISCIPLINE	CIVIL ENGINEER	DATE	3-6-98
DATE	3-6-98	DATE	
DATE		DATE	

TITLE	DADE COUNTY LOUVERS' SHEET 2 OF 9	DWG. NO.	60-021562-01D
PROPRIETARY INFORMATION	RUSKIN Mfg 3900 DR. Geaves RD Grandview, MD 64030	PLOT SCALE	NONE
REVISION LETTER		DATE	



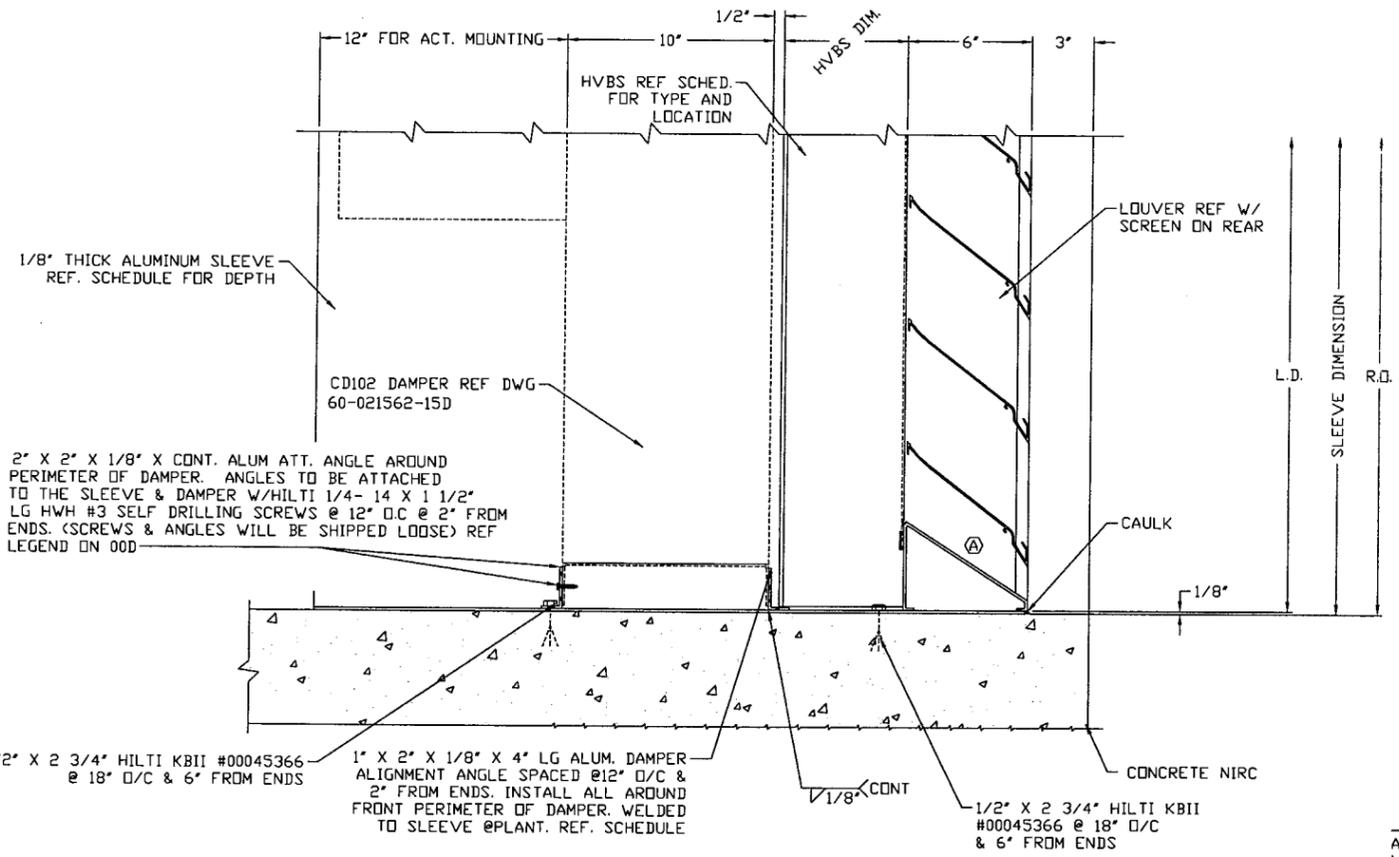
7 SLEEVED LOUVER DETAIL @HEAD (JAMB SIM)
 OOD SCALE: 3" = 1'-0"



8 SLEEVED LOUVER DETAIL @ JAMB
 OOD SCALE: 3" = 1'-0"

(B) ALL CONCRETE & MASONRY ANCHORS W/ GROUT FILLED CELLS ARE 1/2\"/>

10 NOT USED
 SCALE: N.T.S.



9 SLEEVED LOUVER DETAIL @SILL
 OOD SCALE: 3" = 1'-0"

NOTE:
 ALL STRUCTURAL TUBING SHALL BE CONTINUOUS WELDED W/ 1/4\"/>

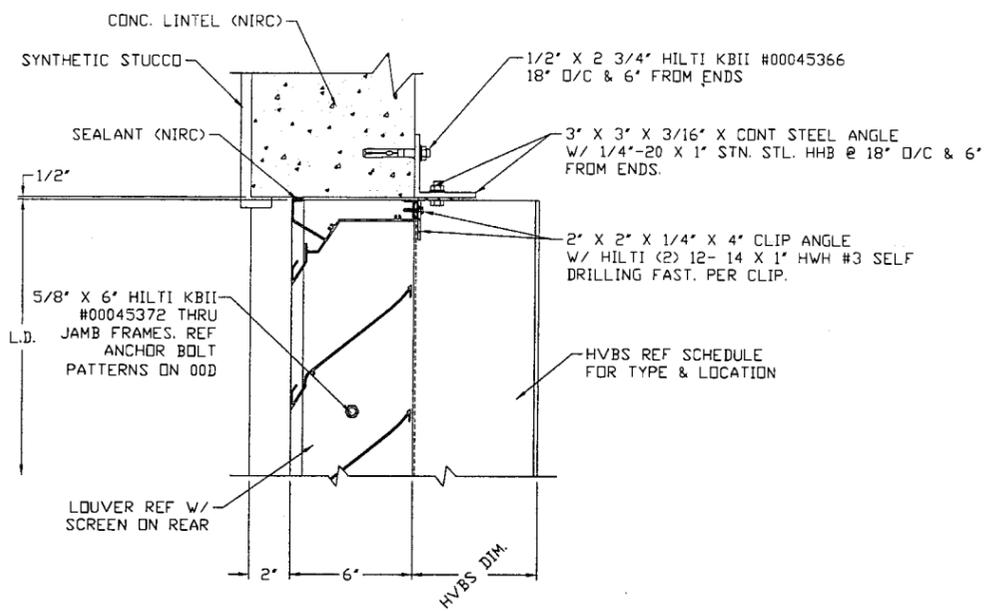
NOTES:
 1) REFERENCE DRAWING #60-021562-000 FOR SPECIFICATIONS, SCHEDULE, ASSEMBLIES AND ADDITIONAL NOTES

PRODUCT REVISED
 as complying with the Florida
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 By *[Signature]*
 Miami Dade Product Control
 Division

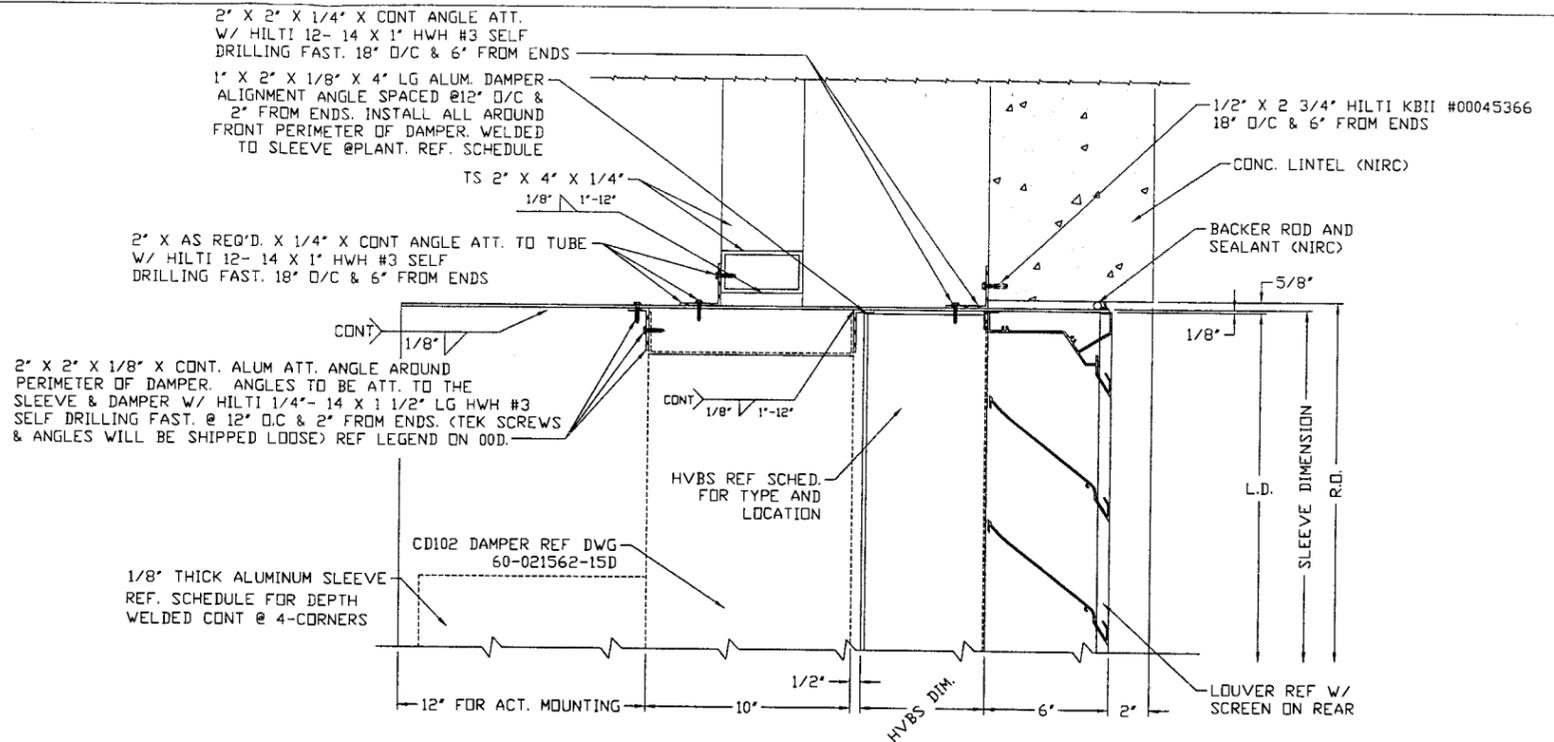
FOR OFFICE USE ONLY

FOR FASTENER LOADS
 REF. DWG. 60-021562-13D

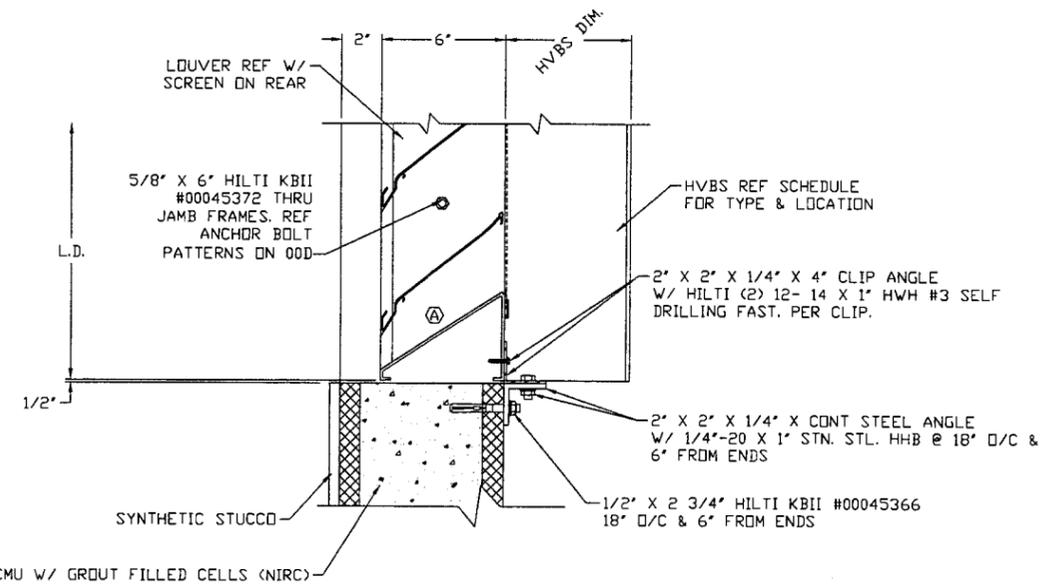
ENGINEER OF RECORD DANIEL J. RAU	(B) ADDED NOTE FOR ANCH	RFM	DJR	DJR	7-24-08
ENGINEERING DISCIPLINE CIVIL ENGINEER	(A) CHANGE SILL TO 70-021130-00B, ENGR OF REC	RFM	DJR	DJR	4-14-08
REGISTRATION # STATE OF FLORIDA #63636	REVISION DESCRIPTION	CHK'D BY	CHK'D BY	APP'D BY	APP'D BY
DRAWN BY JIK	DATE 3-6-98	CHK'D BY [Signature]	DATE [Date]	APP'D BY [Signature]	DATE [Date]
DATE 3-6-98	DATE [Date]	DATE [Date]	DATE [Date]	DATE [Date]	DATE [Date]
DADE COUNTY LOUVERS SHEET 3 OF 9	TITLE ELF6375DXD LOUVER'S DETAIL'S AND NOTES	PLAT SCALE NONE	ECN 3347	DWG NO 60-021562-02D	



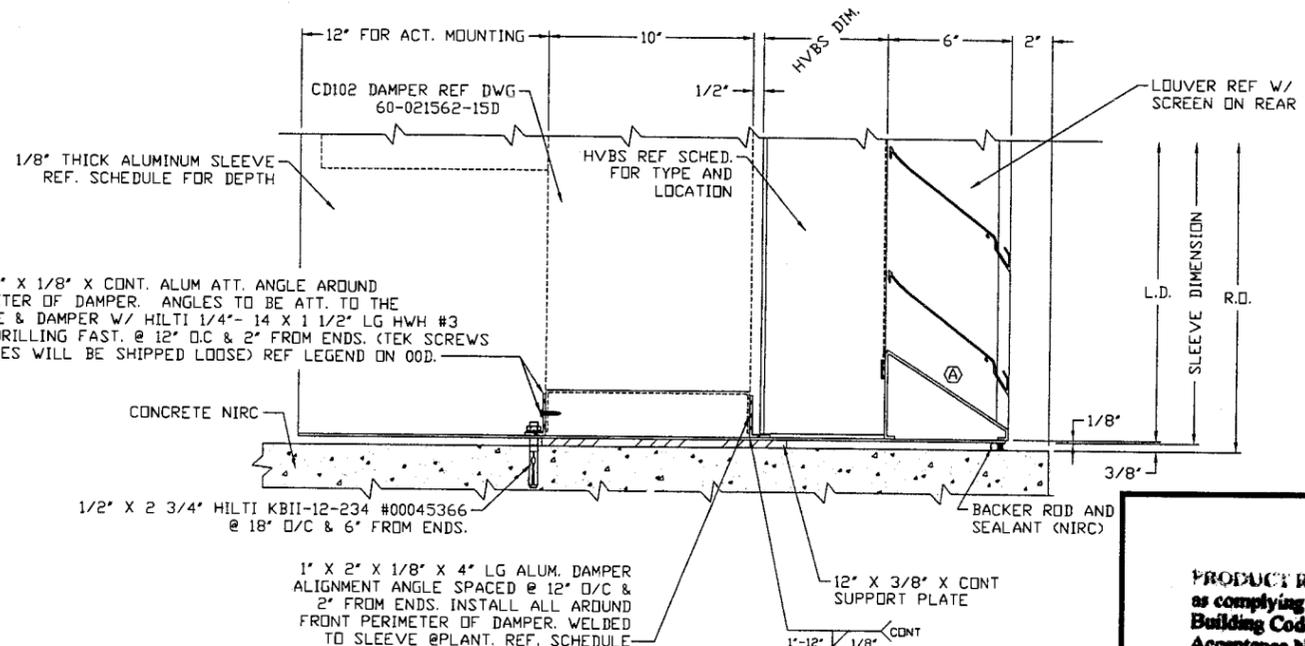
11 LOUVER DETAIL @HEAD
 OOD SCALE: 3" = 1'-0" REFERENCE DRAWING #60-021562-00D FOR ANCHOR BOLT SPACING



12 SLEEVED LOUVER DETAIL @HEAD (JAMB SIM)
 OOD SCALE: 3" = 1'-0"



13 LOUVER DETAIL @SILL (JAMB SIM)
 OOD SCALE: 3" = 1'-0" REFERENCE DRAWING #60-021562-00D FOR ANCHOR BOLT SPACING



14 SLEEVED LOUVER DETAIL @SILL
 OOD SCALE: 3" = 1'-0"

FOR FASTENER LOADS REF.
 DWG. 60-021562-13D & 14D

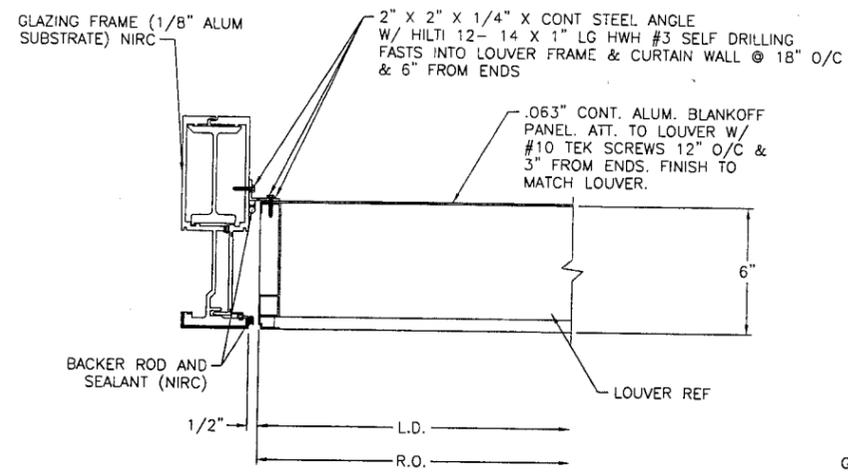
NOTES:
 1) REFERENCE DRAWING #60-021562-00D FOR SPECIFICATIONS, SCHEDULE, ASSEMBLIES AND ADDITIONAL NOTES

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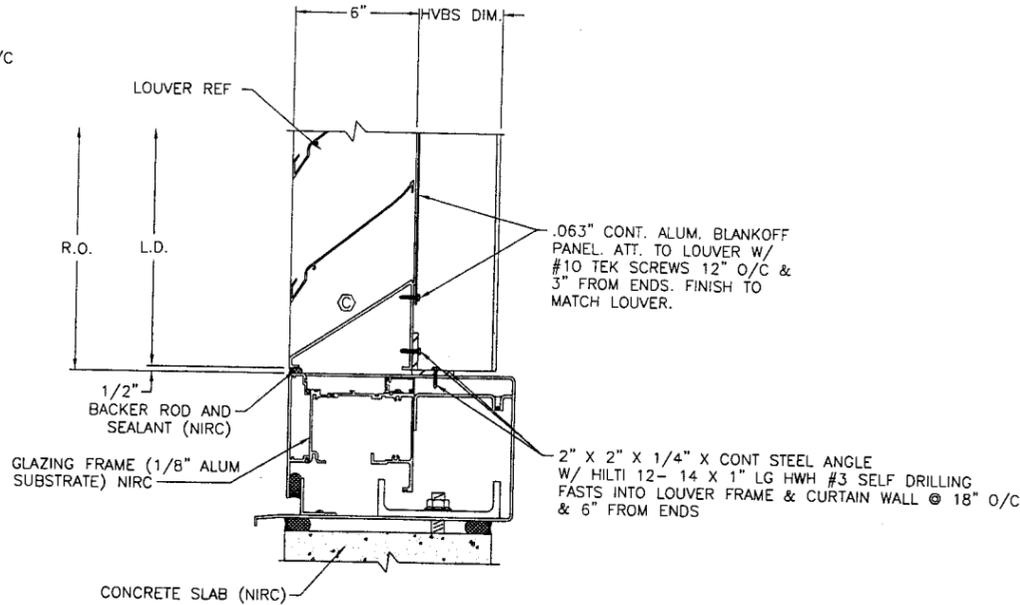
Daniel J. Rau
 7/7/2008

ENGINEER OF RECORD	DANIEL J. RAU		CHANGE SILL TO 70-021130-00B, ENGR OF REC	RFM	DJR	DJR	4-14-08
ENGINEERING DISCIPLINE	CIVIL ENGINEER		REVISION DESCRIPTION	DATE	DATE	DATE	DATE
REGISTRATION #	STATE OF FLORIDA #63636		DATE	DATE	DATE	DATE	DATE
DRAWN BY	JTK	CHECKED BY	DATE	DATE	DATE	DATE	DATE
DATE	3-6-98	DATE		DATE		DATE	
TITLE	DADE COUNTY LOUVERS SHEET 4 OF 9		PLANT SCALE	NONE	ECN	3347	
	ELF6375DXD LOUVER'S DETAIL'S AND NOTES		DWG. NO.	60-021562-00D			

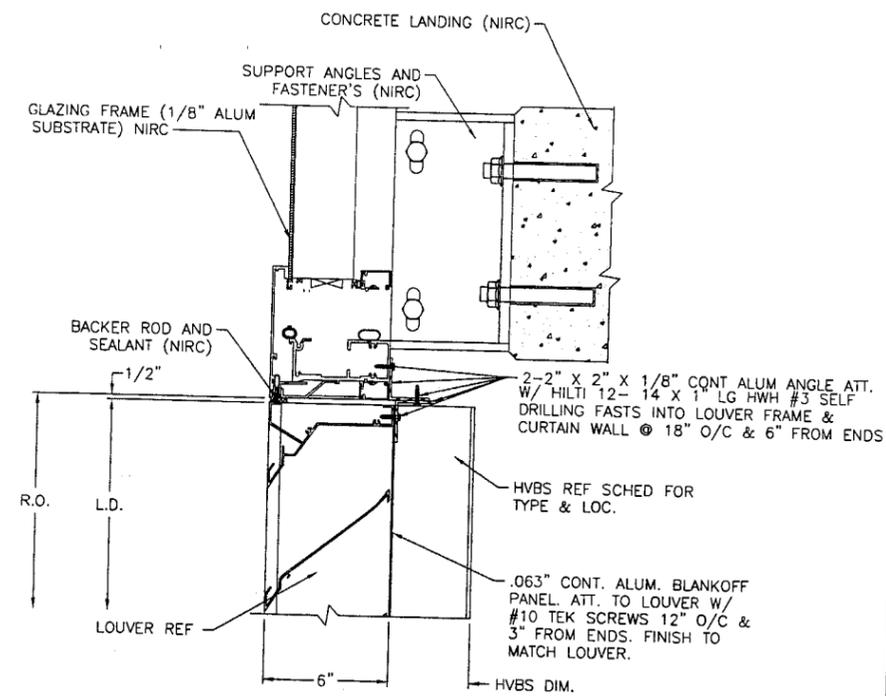
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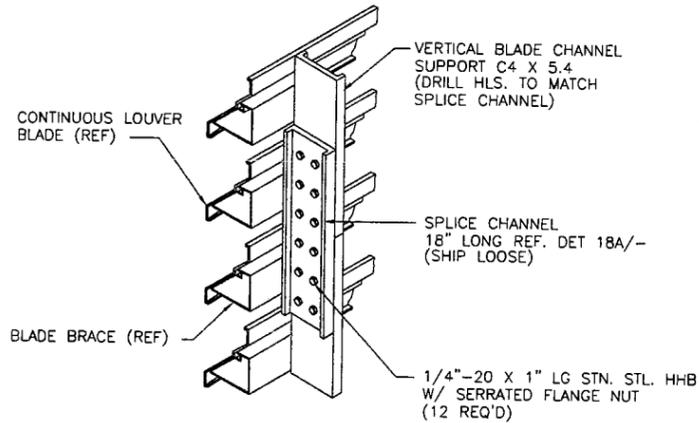
15 LOUVER DETAIL @ JAMB
 OOD SCALE: 3" = 1'-0"



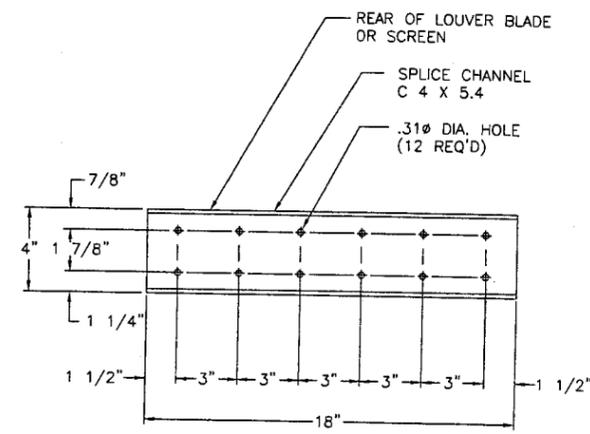
16 LOUVER DETAIL @ SILL
 OOD SCALE: 3" = 1'-0"



17 LOUVER DETAIL @ HEAD
 OOD SCALE: 3" = 1'-0"

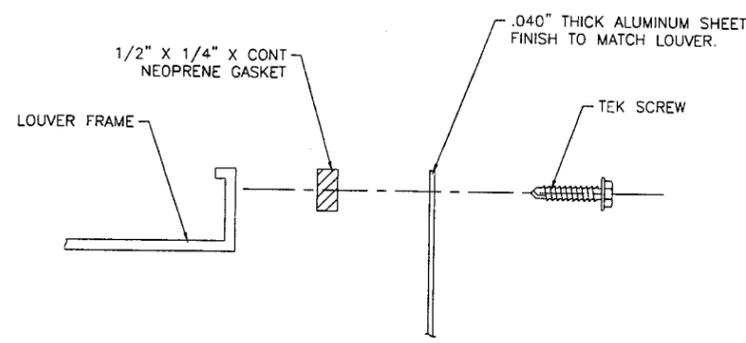


18 C4" X 5.4# HVBS SPLICE DETAIL
 OOD SCALE: N.T.S.



18A SPLICE CHANNEL DETAIL
 OOD SCALE: N.T.S.

FOR FASTENER LOADS
 REF. DWG. 60-D21562-14D



19 .040 BLANK-OFF
 OOD N.T.S.

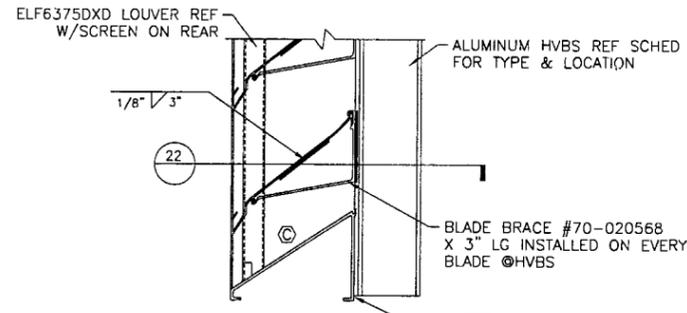
NOTES:
 1) REFERENCE DRAWING #60-021562-00D FOR SPECIFICATIONS, SCHEDULE, ASSEMBLIES AND ADDITIONAL NOTES

Daniel J. Rau
 7/7/2008

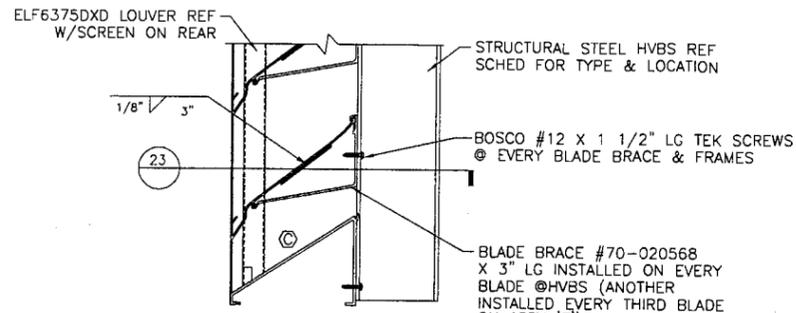
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 Building Code
 Acceptance No 08-0526.09
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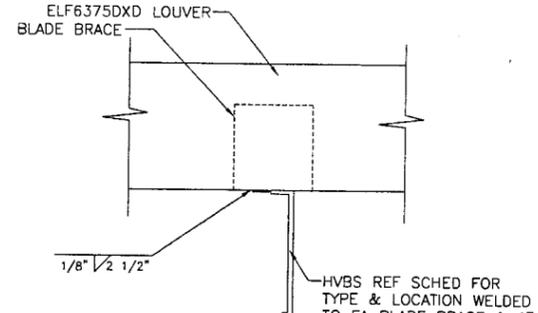
ENGINEER OF RECORD:	DANIEL J. RAU	CHANGE SILL TO 70-021130-00B, ENGR OF REC	RFM	DJR	DJR	4-14-08
ENGINEERING DISCIPLINE:	CIVIL ENGINEER	REV'D DET 19/-	JW			
REGISTRATION #:	STATE OF FLORIDA #63636	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APP'D. BY:	DATE
DRAWN BY:	JTK	DATE:	3-6-98	DATE:		
DATE:	3-6-98	DATE:		DATE:		
TITLE:	DADE COUNTY LOUVERS SHEET 5 OF 9	ELF6375DXD LOUVER'S DETAIL'S AND NOTES	PLOT SCALE:	NONE	ECN:	3347
DWG. NO.:						60-021562-04D



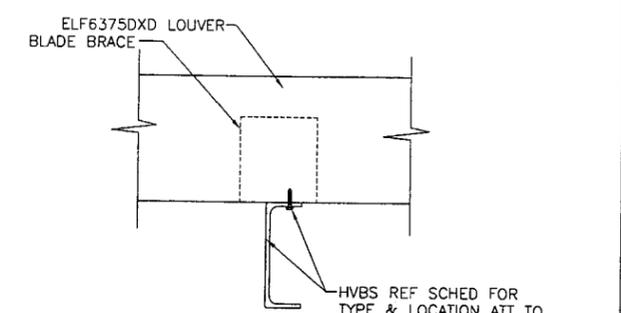
20 LOUVER JAMB DETAIL (W/ALUMINUM HVBS)
 OOD N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)



21 LOUVER JAMB DETAIL (W/STRUCTURAL STEEL HVBS)
 OOD N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)



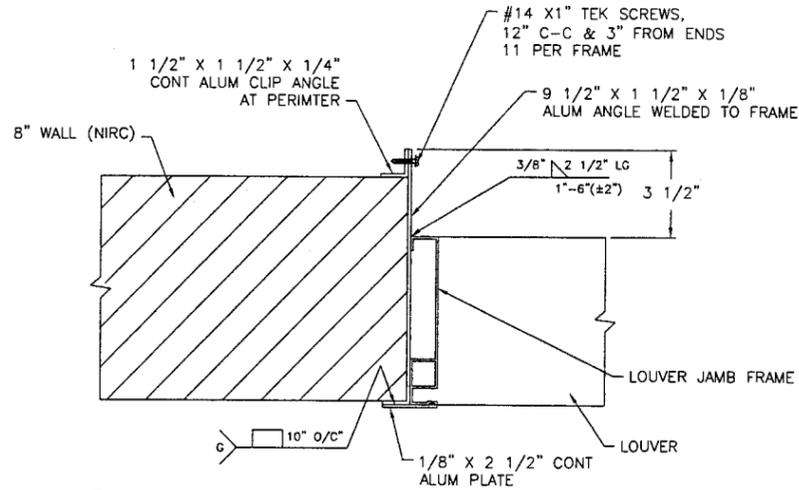
22 SECTION ATT DETAIL THRU ALUMINUM HVBS.
 N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)



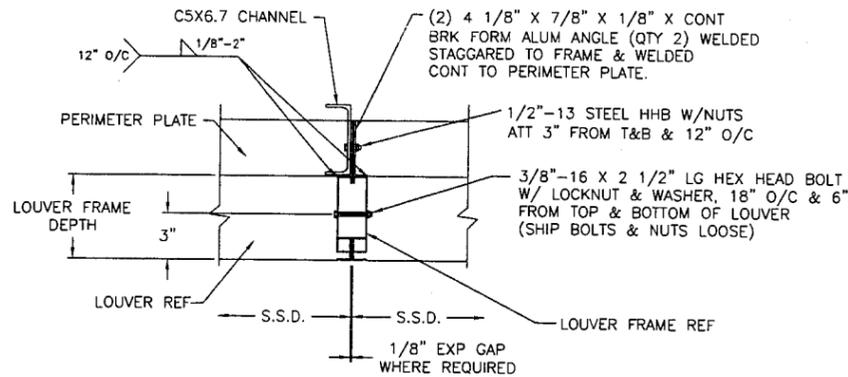
23 SECTION ATT DETAIL THRU STEEL HVBS.
 N.T.S. (SCREEN FRAME & SCREEN REMOVED FOR CLARITY)

NOTE:

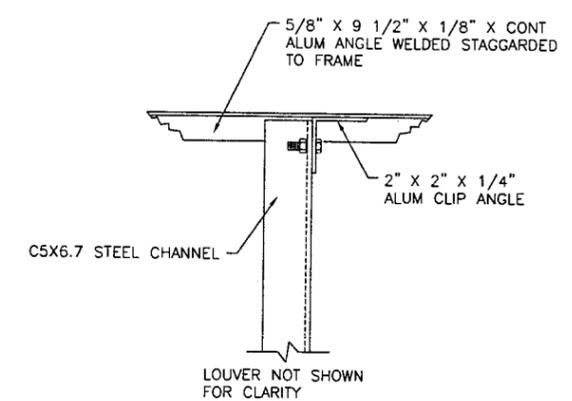
- 1) DIMENSION "X" = 2 3/4" FOR 4" DOUBLE DRAINABLE LOUVERS, 3 3/4" FOR 6" DOUBLE DRAINABLE LOUVER'S & 1/2 OF LOUVER FRAME DEPTH FOR ALL OTHER LOUVER'S.



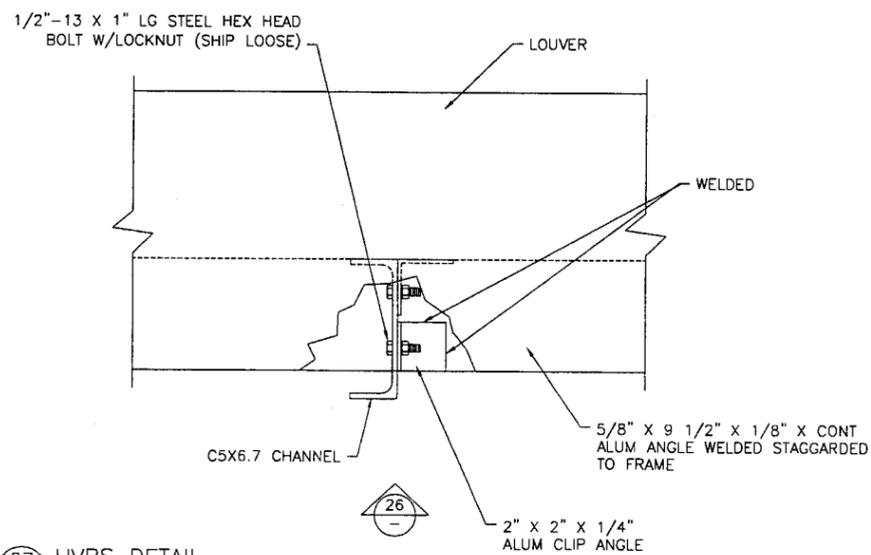
24 LOUVER @ JAMB DETAIL
 O1D N.T.S.



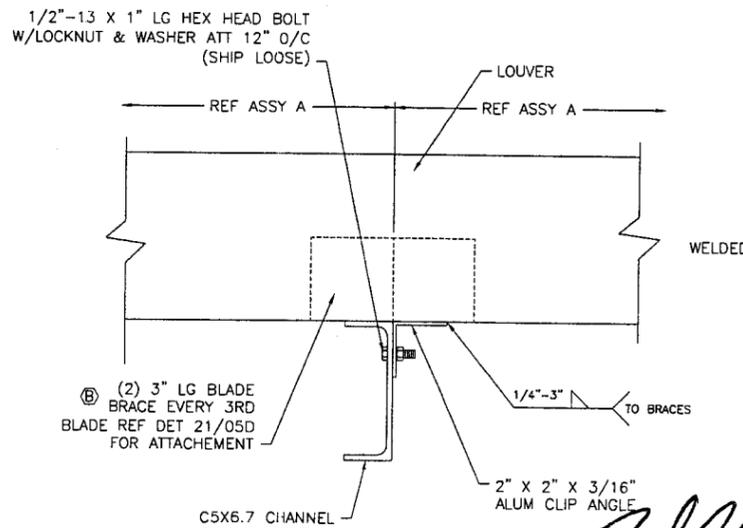
25 VISIBLE MULLION CONNECTION DETAIL
 O1D N.T.S.



26 HVBS HEAD DETAIL @ ANGLE FRAME (SILL SIM)
 N.T.S. REAR VIEW



27 HVBS DETAIL
 O1D N.T.S.



28 HVBS DETAIL
 O1D N.T.S.

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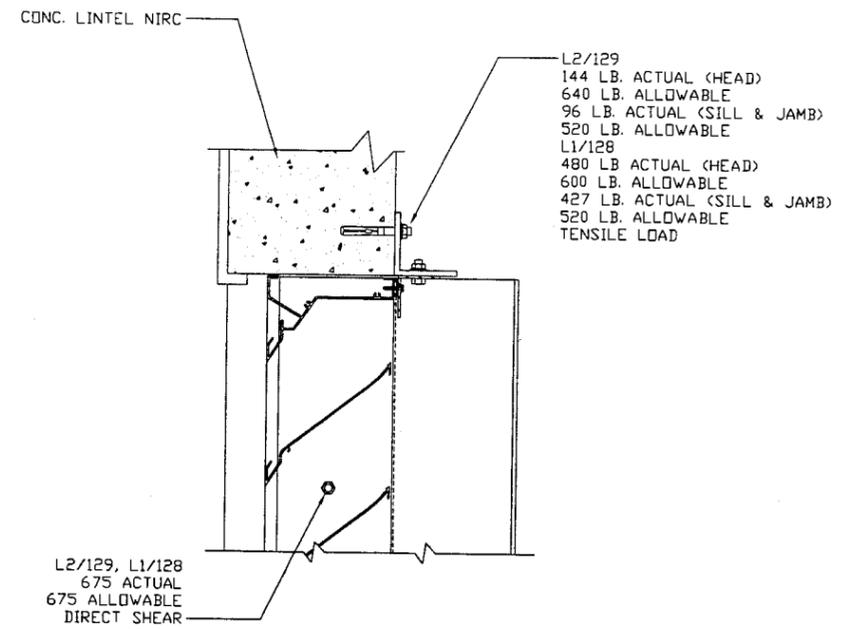
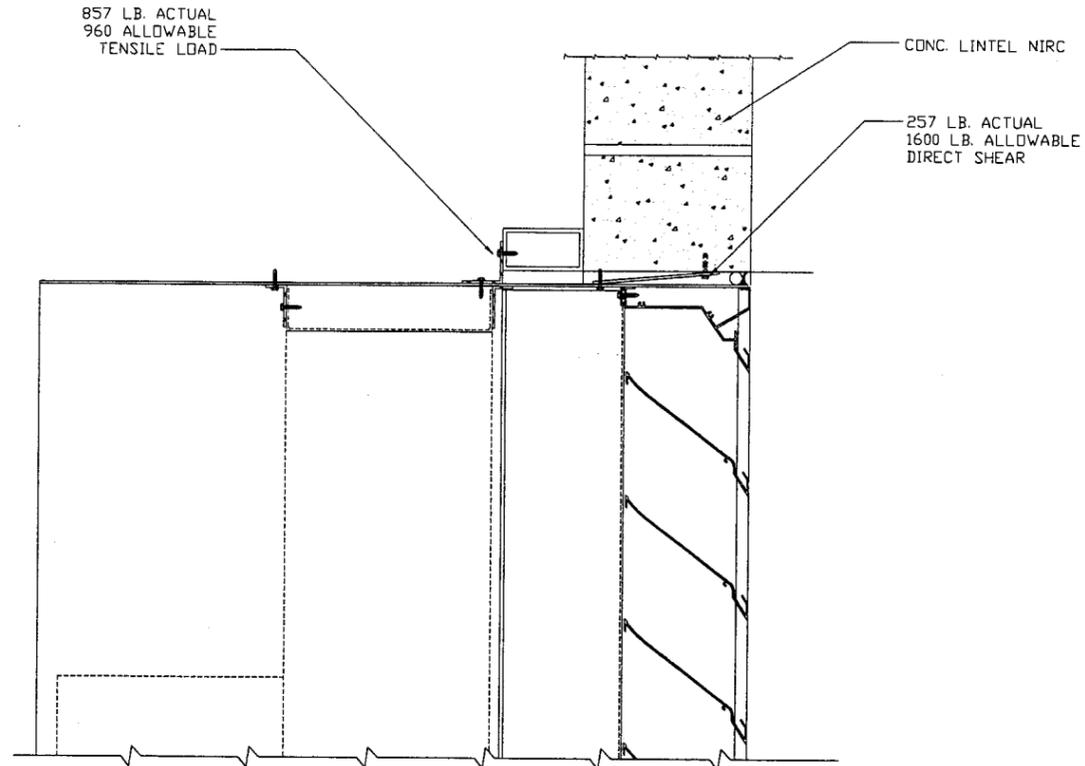
By: *[Signature]*
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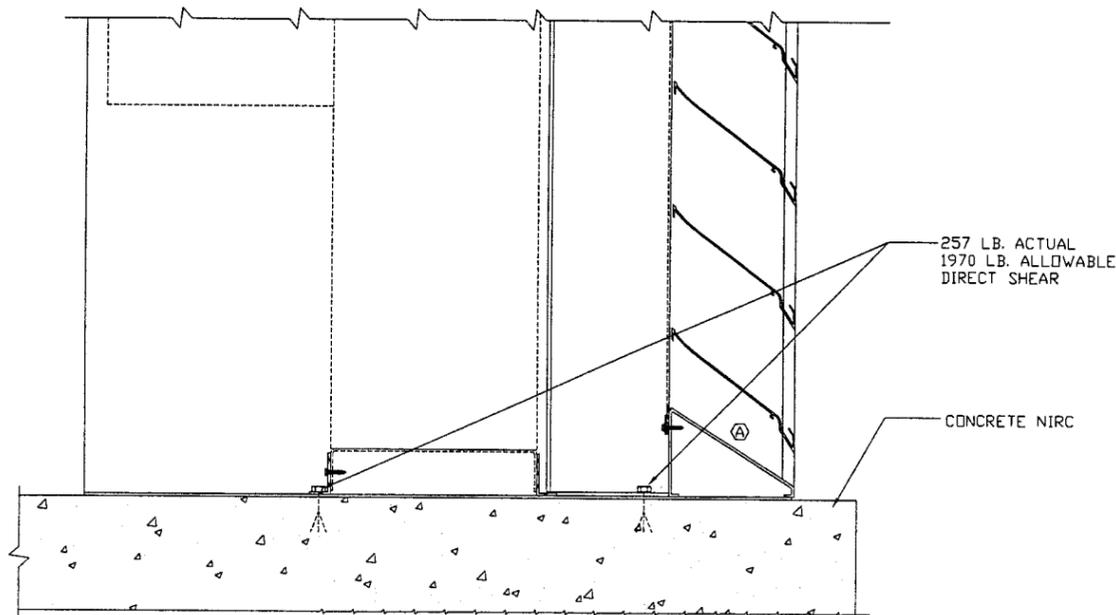
ENGINEER OF RECORD:	DANIEL J. RAU	REGISTRATION #:	STATE OF FLORIDA #63636	CHANGE LETTER:		REVISION DESCRIPTION:		ENR. BY:	DJR	CHK'D BY:	DJR	DATE:	4-14-08
ENGINEERING DISCIPLINE:	CIVIL ENGINEER	DATE:	3-9-98	DATE:	10/28/98	DATE:	10/28/98	DATE:		DATE:		DATE:	
DADE COUNTY LOUVERS SHEET 6 OF 9				ELF6375DXD LOUVERS DETAILS AND NOTES				PLOT SCALE: NONE					
								E.C.N.: 3347					
								D.W.G. NO.: 60-021562-05D					

NOTES:
 1) REFERENCE DRAWING #60-021562-000 FOR SPECIFICATION'S, SCHEDULE, ASSEMBLIES & ADDITIONAL NOTES

[Signature]
 7/17/2008



LOUVER DETAIL @HEAD (JAMB & SILL SIM) (138 PSF) REF DET 11 & 13/03D
 @ ASSEMBLIES A & B



ALLOWABLE TENSION/SHEAR VALUES FOR THE FASTENERS IN 1/8" ALUMINUM ARE PER "HILTI PRODUCT TECHNICAL GUIDE"

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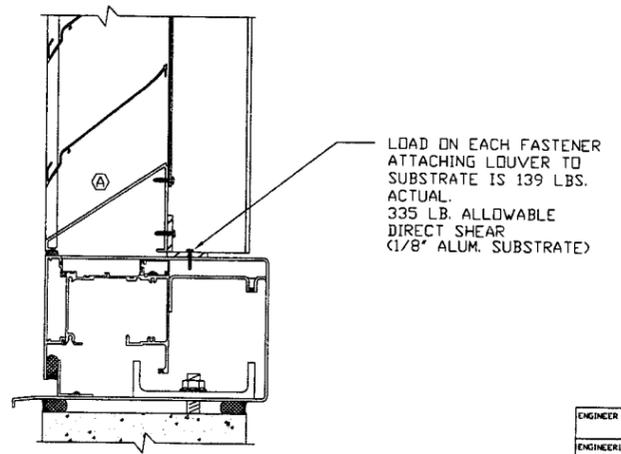
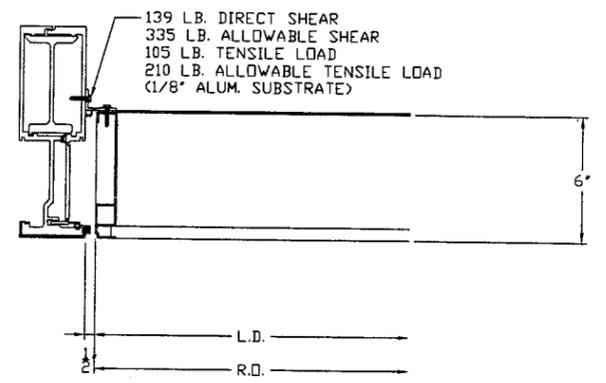
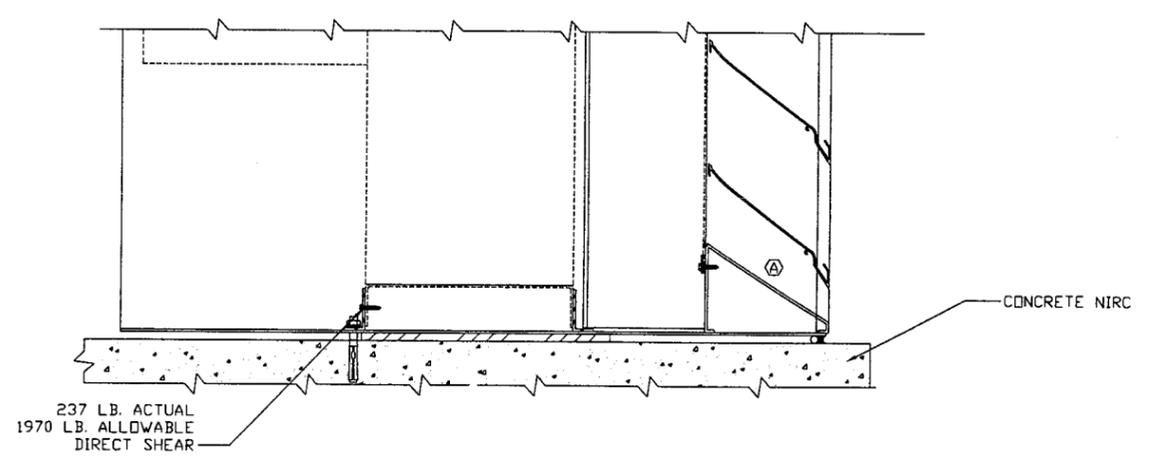
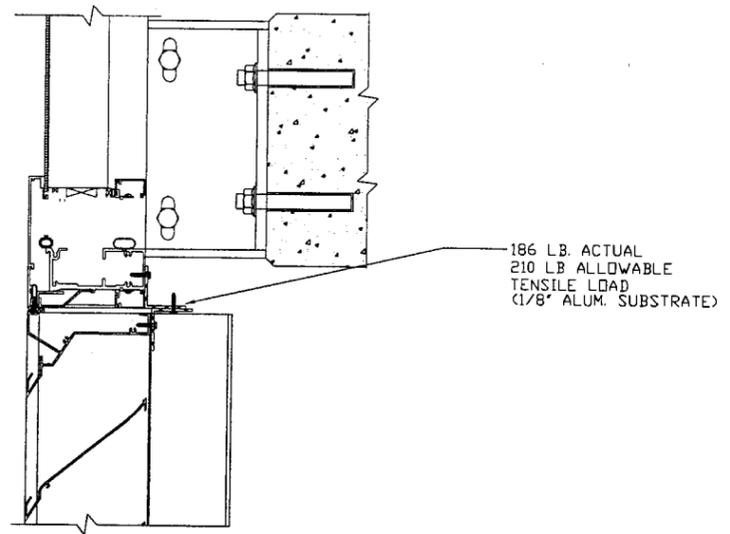
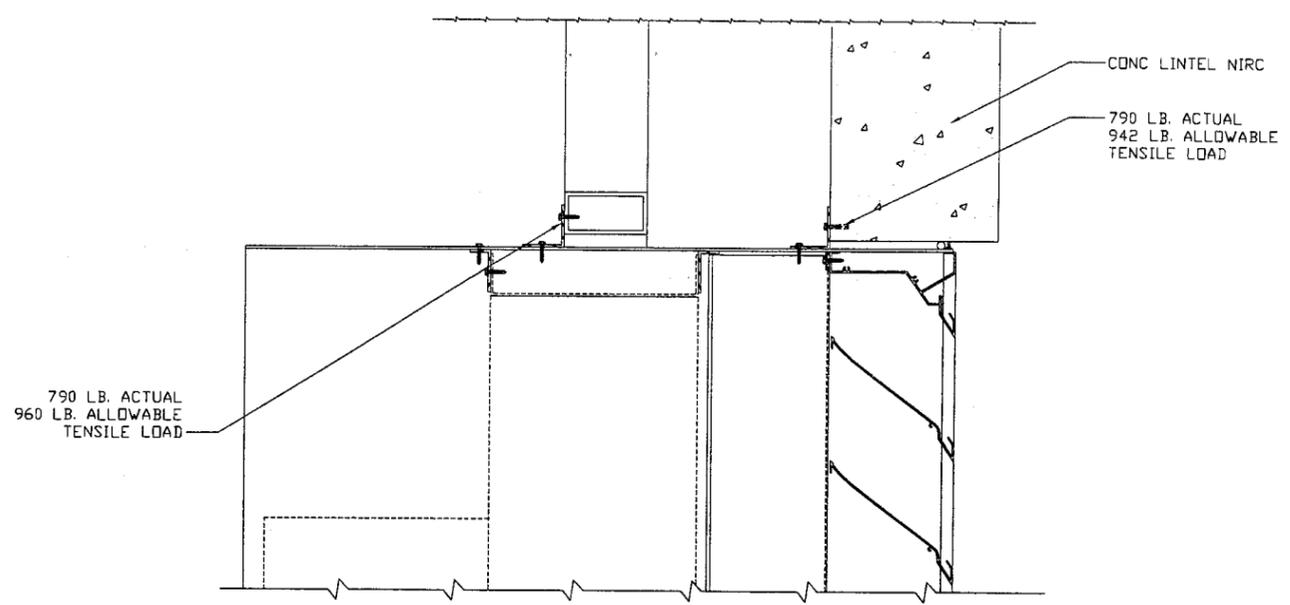
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 7/7/2008

SLEEVED LOUVER DETAILS (JAMB & SILL) (148 PSF) REF DET 7.8, & 9/02D
 SCALE: 3" = 1'-0"

@ ASSEMBLY C

ENGINEER OF RECORD DANIEL J. RAU		CHANGE SILL TO 70-021130-008, ENGR OF REC		RFM	DJR	DJR	4-14-08
ENGINEERING DISCIPLINE CIVIL ENGINEER		REGISTRATION # STATE OF FLORIDA #63636		CHG BY	CHK'D BY	APPR'D BY	DATE
DATE: 3-6-98		DATE: 3-6-98		DATE: 3-6-98		DATE: 3-6-98	
DADE COUNTY LOUVERS SHEET 7 OF 9		RUSKIN SWARTWOUT 3900 DR. GREAVES RD GRANDVIEW, MD 64030 PROPRIETARY INFORMATION		PLOT SCALE NONE		ECH: 3347	
TITLE ELF6375DXD LOUVER'S DETAILS AND NOTES		PVC NO 60-021562-13D					



SLEEVED LOUVER DETAILS (JAMB SIM) (138 PSF) REF DET 12 & 14/03D
 SCALE: 3" = 1'-0"
 @ ASSEMBLY E

ALLOWABLE TENSION/SHEAR VALUES FOR THE FASTENERS IN 1/8" ALUMINUM ARE PER "HILTI PRODUCT TECHNICAL GUIDE"

Daniel J. Rau
 7/7/2008

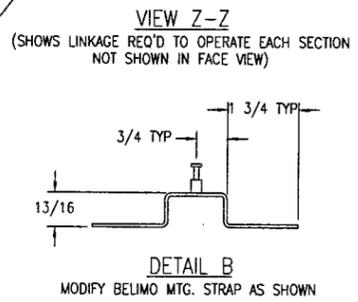
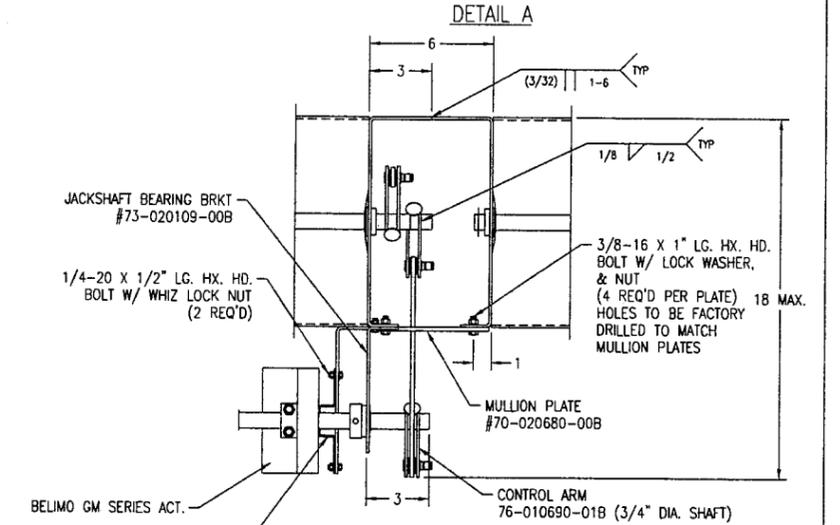
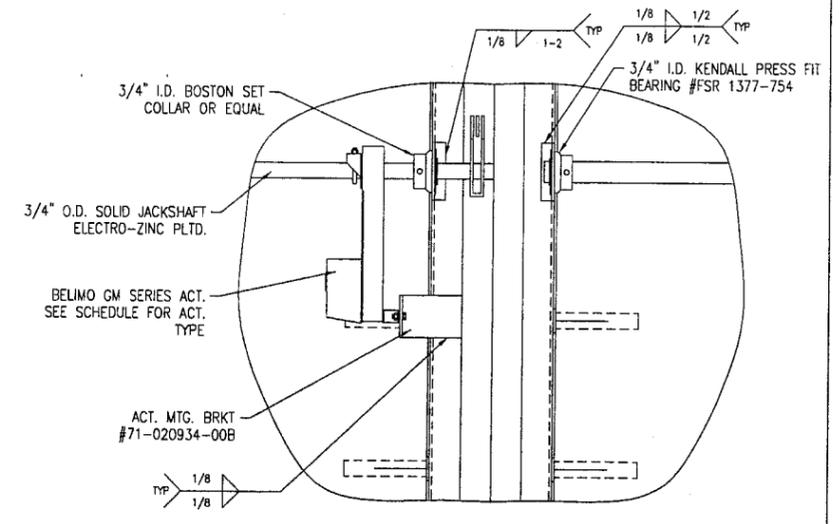
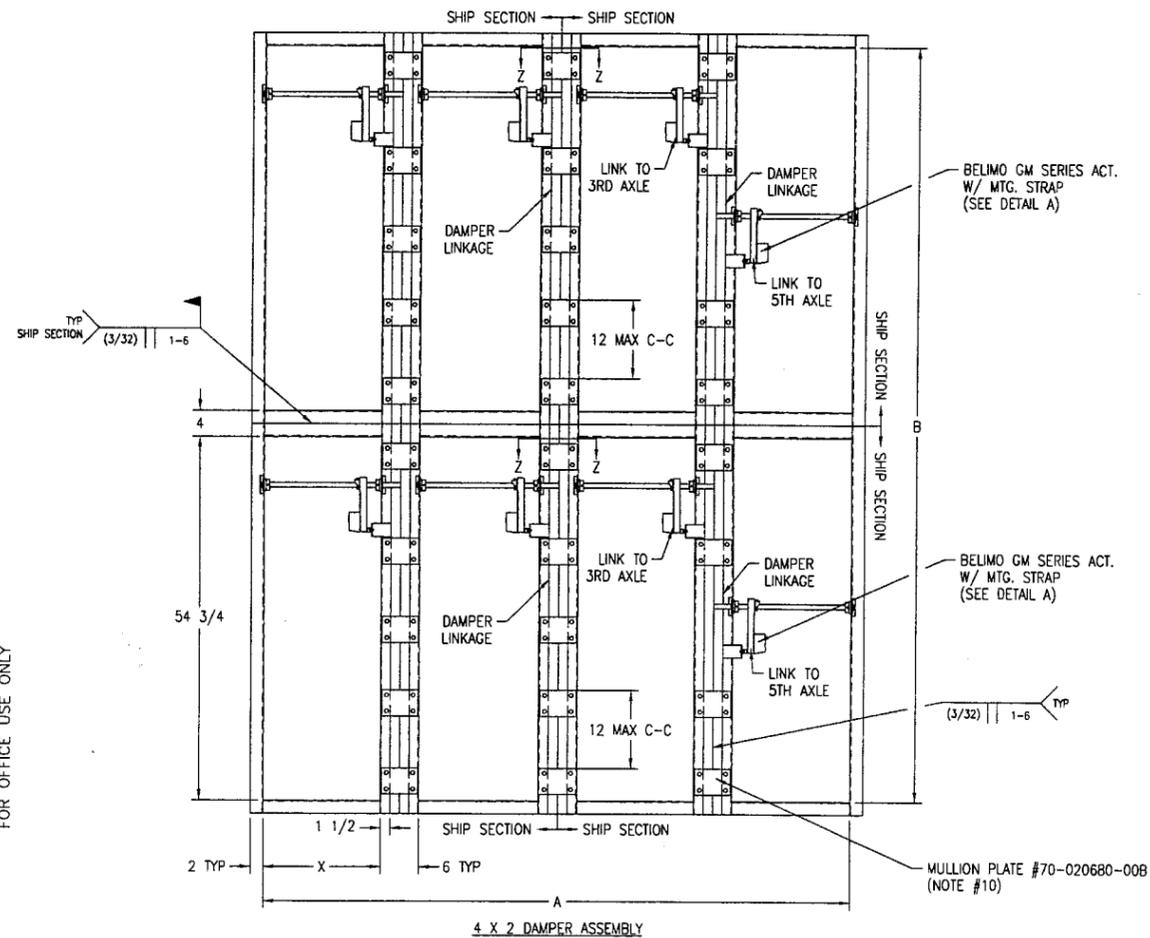
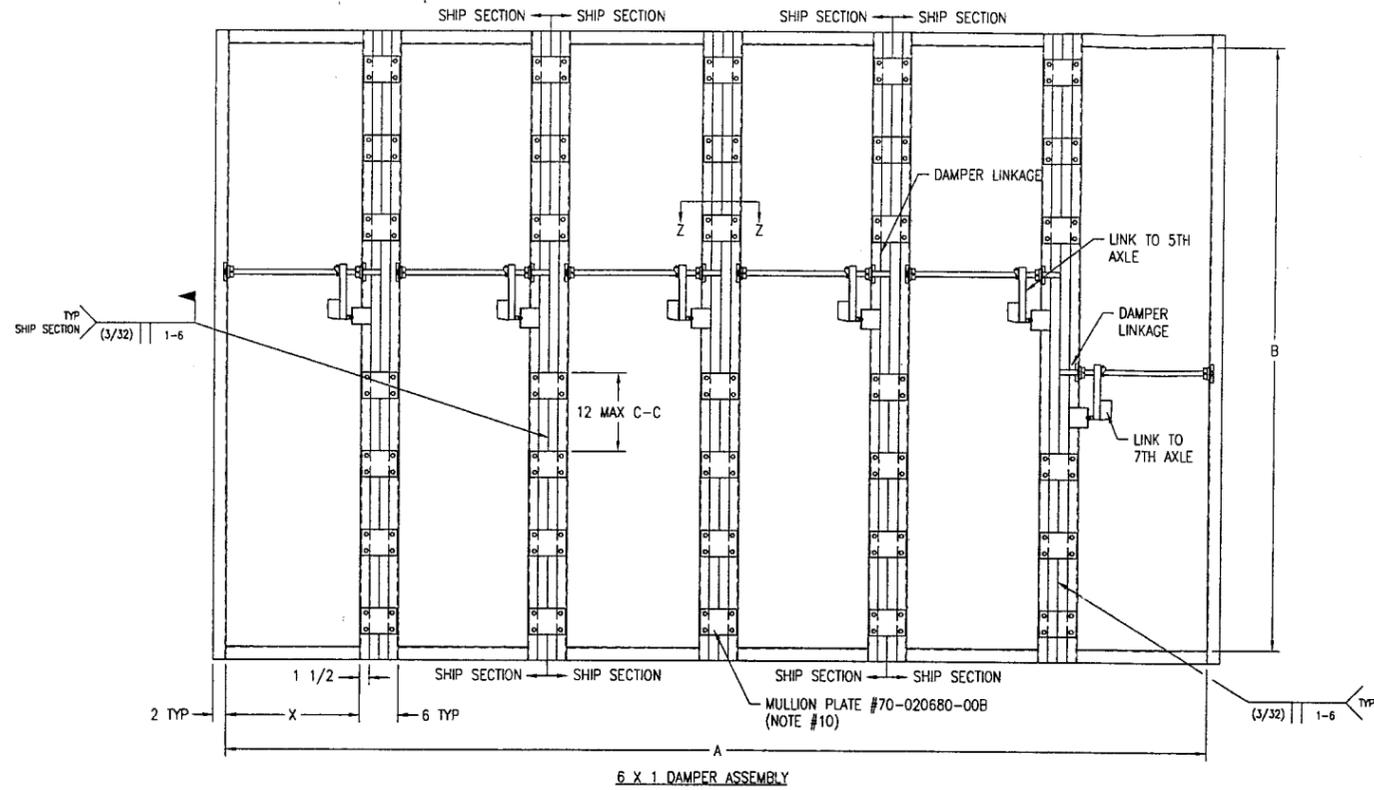
LOUVER DETAILS (138PSF) REF DET 15, 16 & 17/04D
 SCALE: 3" = 1'-0"
 @ ASSEMBLY D

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ENGINEER OF RECORD DANIEL J. RAU		CHANGE SILL TO 70-021130-008, ENGR OF REC		RFM	DJR	DJR	4-14-08
ENGINEERING DISCIPLINE CIVIL ENGINEER		REVISION DESCRIPTION		DATE	BY	DATE	BY
REGISTRATION NO. STATE OF FLORIDA #63636		3900 DR. GREAVES RD GRANDVIEW, MO 64020		PLDT SCALE	NONE		
DATE	DATE	DATE	DATE	ECH	3347		
3-6-98							
DADE COUNTY LOUVERS SHEET 8 OF 9		TITLE ELF6375DXD LOUVER'S DETAIL'S AND NOTES		DWG. NO. 60-021562-14D			

DAMPER SCHEDULE										(NOTE #5)
QTY	A	B	BLD ACT	X	TAG NUMBER	ARRANGEMENT	REQ'D TORQUE PER SECTION	BELIMO ACT. PER SECT.	LOUVER MATCH TAG	LOUVER SLEEVE I.D. SIZE
2	151 11/16	91 3/4	OB	20 9/32	AHU-28 MAXIMUM OA INTAKE	6 X 1	257 IN/LBS	GM24	L4/M05	156 X 96
1	92	113 1/2	OB	18 1/2	MAU'S INTAKE	4 X 2	142 IN/LBS	GM24	L1/144	96 1/4 X 117 3/4



- NOTES:
- SEE SPEC. SHEET FOR DAMPER CONSTRUCTION DETAILS & DIMENSIONS. GALVANIZED FRAME, ALUM. BLADE & PLTD STEEL AXLES.
 - DELETED
 - EACH DAMPER SECTION TO OPERATE INDEPENDENT OF EACH OTHER.
 - TORQUES BASED ON 5" W.G. @ 530 FPM.
 - ALL DAMPERS MUST BE INSTALLED IN FIELD AS SHOWN IN DWG. NO. 60-021562-02D & 60-021562-03D.
 - SEE SCHEDULE FOR TYPE OF ACTUATOR TO MOUNT PER DAMPER.
 - BLADE WIDTH 24" MAX. BASED ON LOAD OF 168 PSF WIND LOAD (32.3" W.G.).
 - LINKAGE NOT TO EXTEND PAST DAMPERS OUTSIDE FLANGES. JACKSHAFT MAY BE MOVED (1) AXLE LOWER TO PREVENT THIS.
 - DELETED
 - SPACE MULLION PLATES ON 12" C-C MAX IN DAMPERS 'B' DIM., STRADDLING ALL MOUNTING BRACKETS.
 - ALL DAMPERS TO BE PROVIDED W/ STN. STL. JAMB SEALS 80-012019-00B & SILICONE BLADE SEALS 80-008170-01A.

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UNLESS OTHERWISE SPECIFIED USE
 STANDARD ENGINEERING TOLERANCES

ENGINEER OF RECORD: DANIEL J. RAU		CHNG ENGR OF REC		DWS	DJR	DJR	4/21/08
ENGINEERING DISCIPLINE: CIVIL ENGINEER		REVISION DESCRIPTION		DRW. BY:	CHK'D. BY:	APP'D. BY:	DATE:
REGISTRATION #: STATE OF FLORIDA #63636		REVISION DESCRIPTION		DRW. BY:	CHK'D. BY:	APP'D. BY:	DATE:
DRW. BY:	CHK. BY:	APP'D. BY:	DATE:	RUSKIN Mfg 3900 DR. Geovies RD. Grandview, MO 64030		PLOT SCALE NONE	
DATE:	DATE:	DATE:	DATE:	DADE COUNTY LOUVERS		DWC. CERTIFIED DATE:	
SHEET 9 OF 9		TITLE CD-102 DAMPER ASSEMBLY		DWC. NO.		60-021562-15D	