



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Construction Specialties, Inc.
107 Johnson Boulevard
Del Rio ,TX 78840

Your application for Notice of Acceptance (NOA) of:

7000 Series Louvers

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 00-1107.03
EXPIRES: 05/10/2006

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 05/10/2001

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves extruded aluminum louvers, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The **Construction Specialties Louver System** and its components shall be constructed in strict compliance with the following documents: Drawing No. RD 104-1 through RD 104-9, titled "Louver System" prepared by Construction Specialties, Inc., dated 01/29/01 & 02/02/01 with no revisions. They bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 All permanent set components, included but not limited to embedded anchor bolts, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all time.
- 3.2 This approval applies to applications as shown on the approved drawings
- 3.3 Units with dimensions equal to or smaller than those shown in the approved drawings shall qualify under this approval.

4. INSTALLATION

- 4.1 The louvers shall be installed in strict compliance with the approved drawings.
- 4.2 The installation of this product **will not** require a hurricane protection system.
- 4.3 This vertical blade louver shall only be installed in a location where the room behind the louver is designed to drain water penetrating into the room, and the room will house water-resistant equipment, components, and supplies.

5. LABELING

- 5.1 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Candido Font PE. Senior Product Control Examiner
Product Control Division

APPROVED: MAY 10 2001

EXPIRES: MAY 10 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approval", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.



Candido Font PE. Senior Product Control Examiner
Product Control Division

APPROVED: MAY 10 2001

EXPIRES: MAY 10 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS.

1. Drawing prepared by Construction Specialties, Inc, titled "Louver System" Drawing No. RD 104-1 through RD 104-9, with no revision C dated 01/29/01 & 02/02/01, signed and sealed by A. K. Long, PE.

B. TESTS.

1. Test report on Large Missile Impact Test per PA 201, Cyclic Wind Pressure Test per PA 203, Uniform Static Air Pressure Test per PA 202 and Wind Driven Rain Test per PA100(A) of "Twin Operable Aluminum Louver", prepared by Architectural Testing, Inc., report No. 01-36644.03, dated 10/20/00, signed and sealed by A. N. Reeves, PE
2. Test report on Calibration Test of Wind Generator and Water Supply for PA 100(A) report NO. 01-36644.02, prepared by Architectural Testing, Inc., dated 10/18/00, signed and sealed by A. N. Reeves, PE.
3. 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 "Twin Fixed Aluminum Louver and Fixed Panel System", prepared by Architectural Testing, Inc., dated 10/20/00, signed and sealed by A. N. Reeves, PE.

C. CALCULATIONS.

1. Anchor calculations prepared by Construction Specialties, Inc, sheet 1 through 3 with out signature and without date.

D. MATERIAL CERTIFICATIONS.

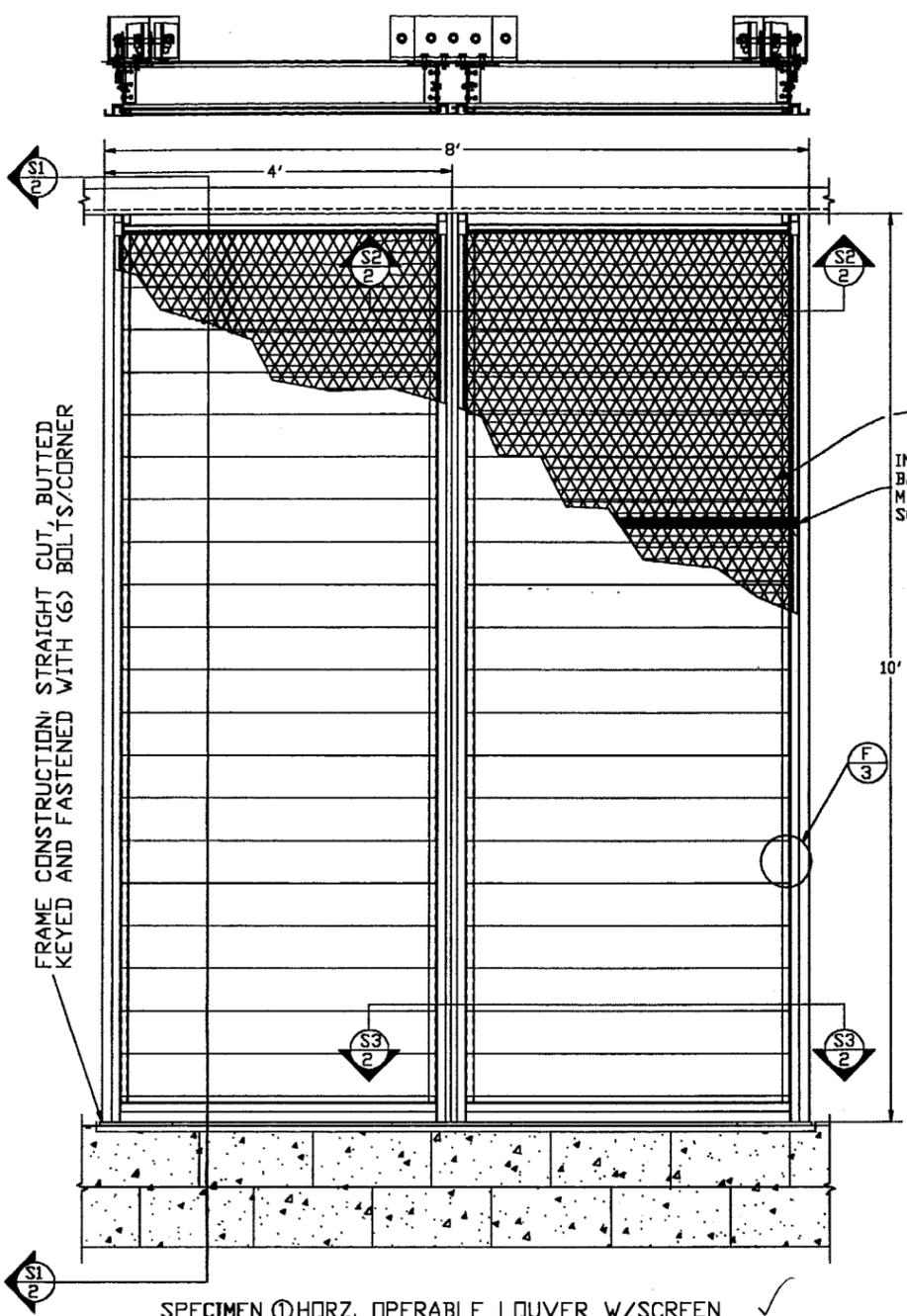
1. Extrusions drawings No. 7035-3 through 7035-12, prepared by Construction Specialties, Inc. on 04/06/00, 06/21/00, verified by Architectural Testing, Inc.
2. Product Approval Notice of Acceptance No. 98-0901.13, issued by Miami-Dade County on 01/20/99, signed by C. F. PE.

E. STATEMENTS

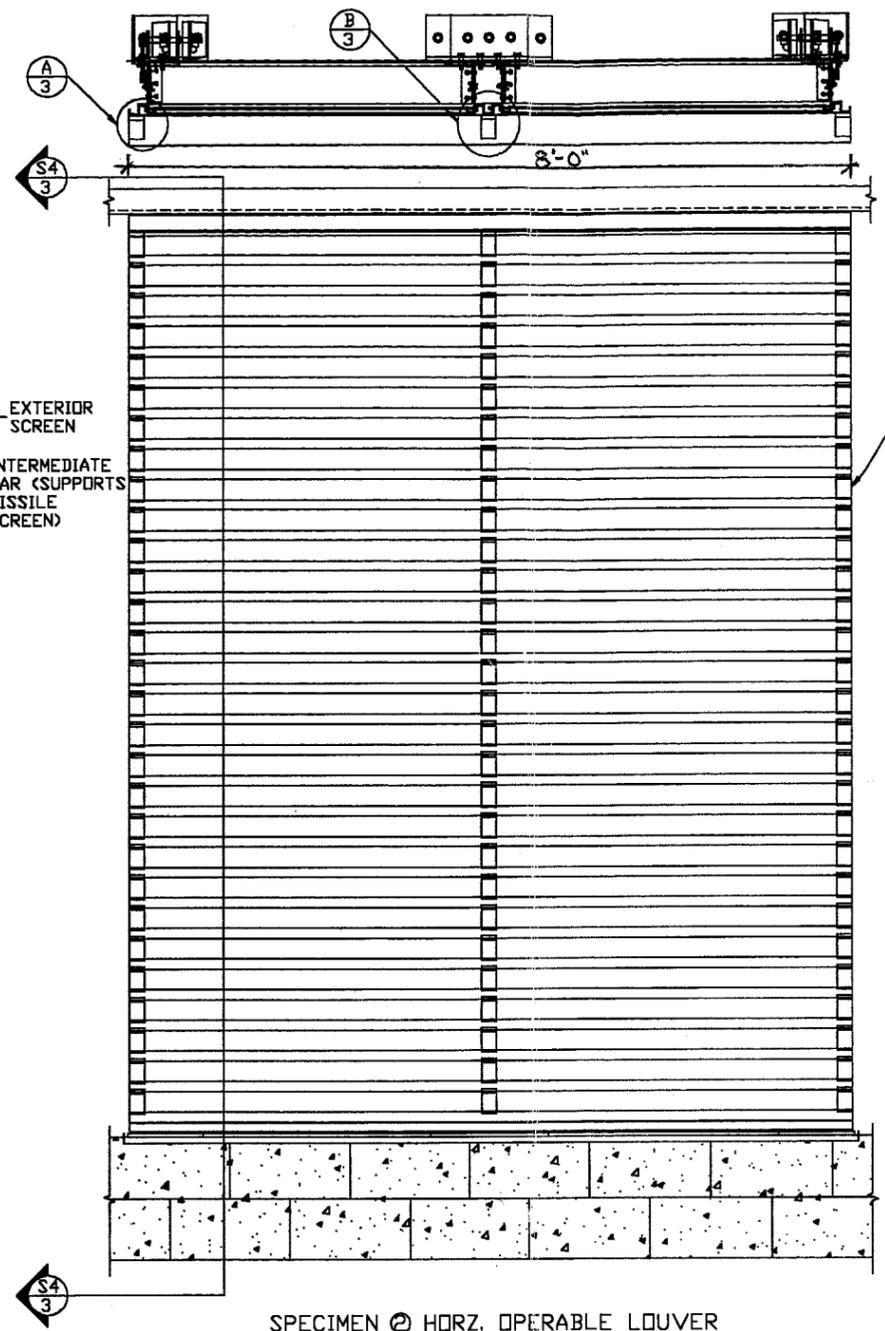
1. Test compliance letter issued by Architectural Testing, Inc., on 10/23/00, signed a by A.N. Reeves, PE.
2. Test compliance letter issued by Construction Specialties, Inc. on 11/01/00, signed and sealed by A.K. Long, PE.



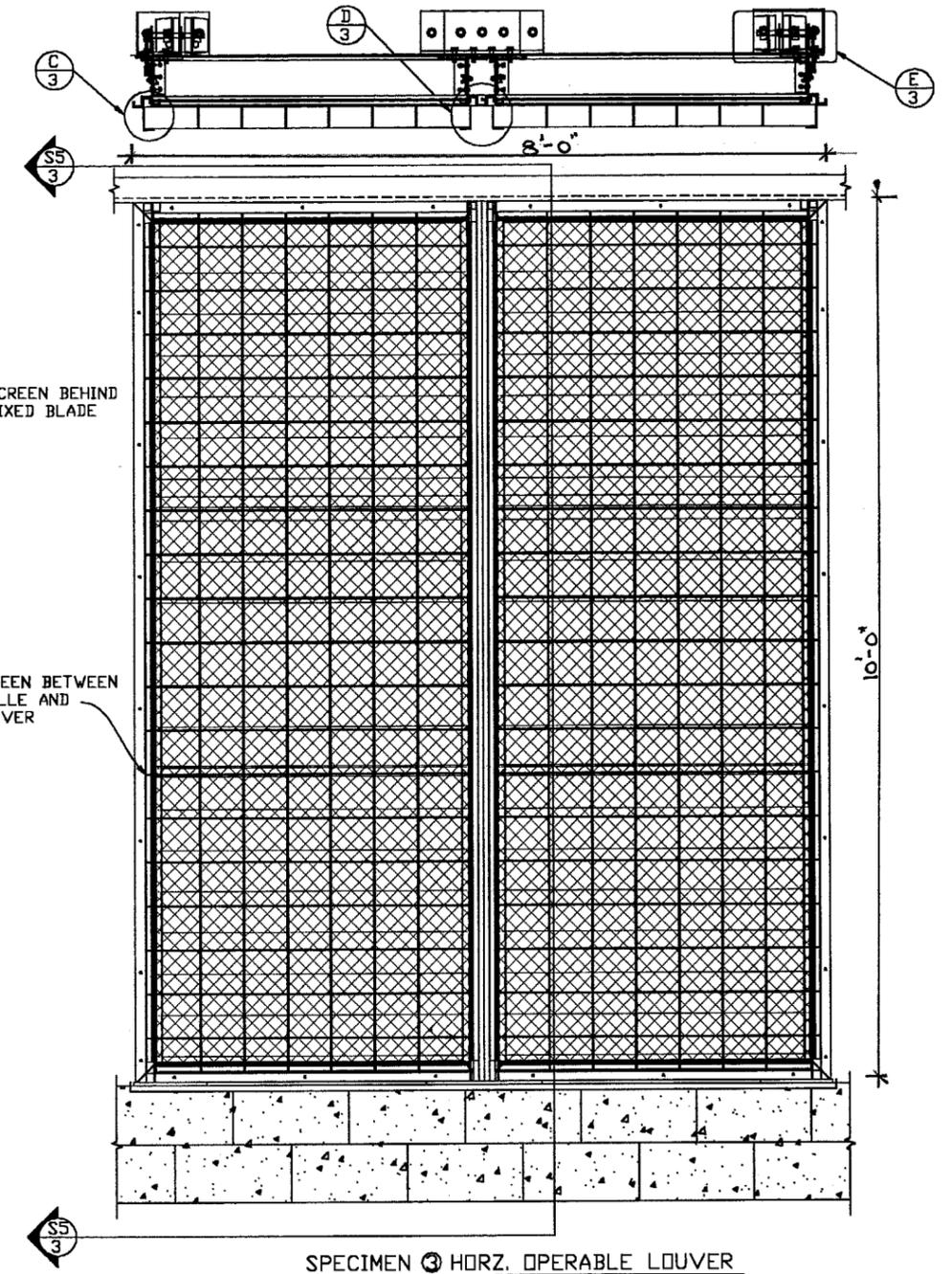
Candido Font PE. Senior Product Control Examiner
Product Control Division



SPECIMEN ① HORZ. OPERABLE LOUVER W/SCREEN ✓



SPECIMEN ② HORZ. OPERABLE LOUVER WITH FIXED STANDARD LOUVER BLADE



SPECIMEN ③ HORZ. OPERABLE LOUVER WITH GRILLE

- GENERAL NOTES:
- 1) MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE WITHOUT ADDITIONAL SUPPORTS = 48' X 120'
 - 2) MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH, LIMITED BY 10' MULLIONS EVERY 48' UP TO 120' HEIGHT WITHOUT ADDITIONAL SUPPORTS
 - 3) ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY OR HEIGHTS MAY EXCEED 120' PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY.
 - 4) MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 48'
 - 5) ALL FASTENERS SHALL BE STAINLESS STEEL OR PLATED STEEL
 - 6) SEPARATION OF DISSIMILAR MATERIALS MUST BE MAINTAINED PER SECTION 3004.4 OF THE SOUTH FLORIDA BUILDING CODE 1994 EDITION.
 - 7) APPROVED TYPE OF OPENINGS = 2000 PSI CONCRETE/ MASONRY OR STEEL.
 - 8) THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED 160 PSF.
 - 9) ALL HARDWARE AND FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THESE DRAWINGS.
 - 10) THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION.
 - 11) THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH DADE COUNTY PROTOCOLS PA-100(A), 201, 202 AND 203 FOR LARGE MISSILE IMPACT, STRUCTURAL AND CYCLIC TESTING.
 - 12) SEAL LOUVER AND PAN TO FRAME. CAULK JOINT BETWEEN PAN AND LOUVER LEAVING 2 PLACES 1/4" LONG 6" FROM EACH JAMB (LOCATED AT 4'-0" O.C.) TO DRAIN WATER FROM PAN

DESIGN PRESSURE RATING
±160 PSF
LARGE MISSILE IMPACT RESISTANCE

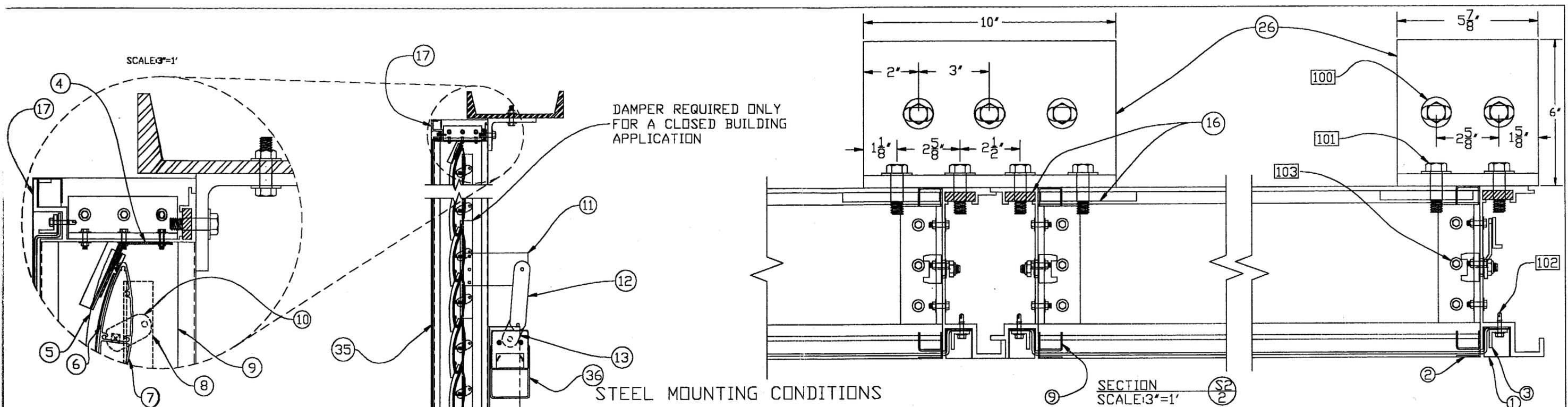
DAMPER REQUIRED ONLY FOR A CLOSED BUILDING APPLICATION

DECLARED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: APR 10 2001
BY: [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-407.03

[Signature]
APR 03 2001
ALEXANDER K. LONG
FLORIDA P.E. NO. 50241

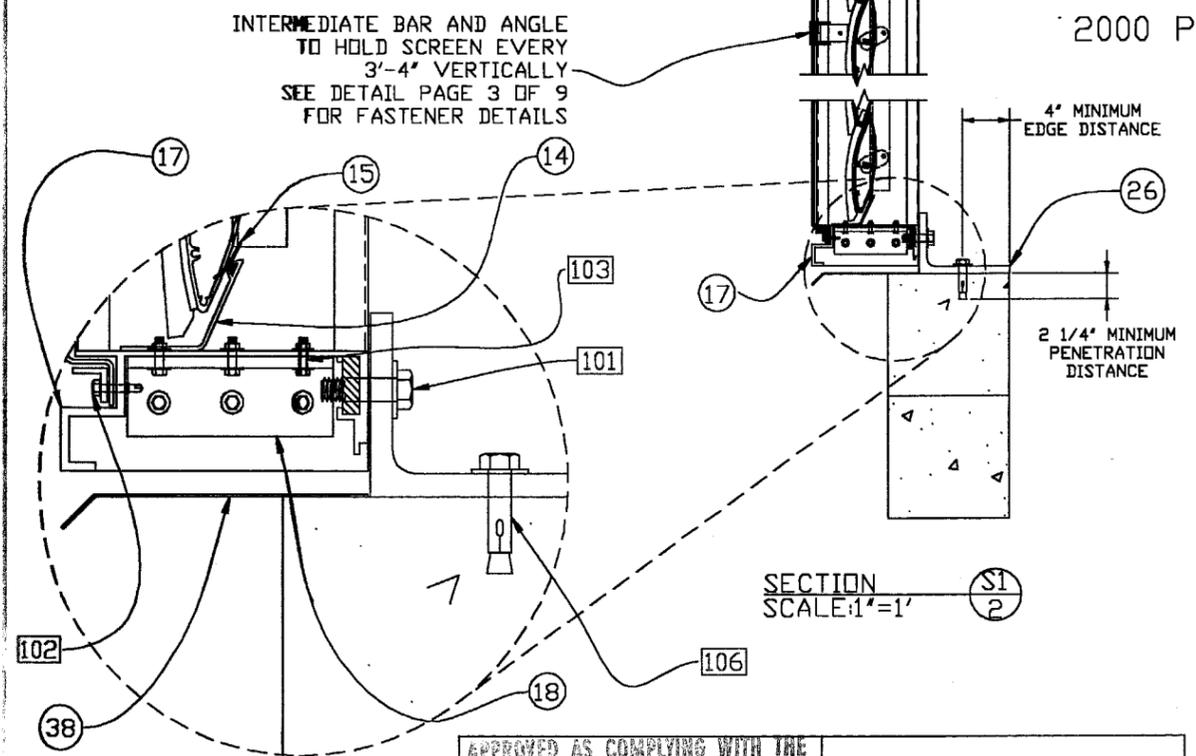
CS CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

DADE COUNTY LOUVER	TITLE: LOUVER SYSTEM
REVISION:	DATE: 1-29-01
SCALE: 1/2" = 1'	SHEET NUM: 1 OF 9
DRW BY: J. BLAKE	DRW NO: RD-104-1



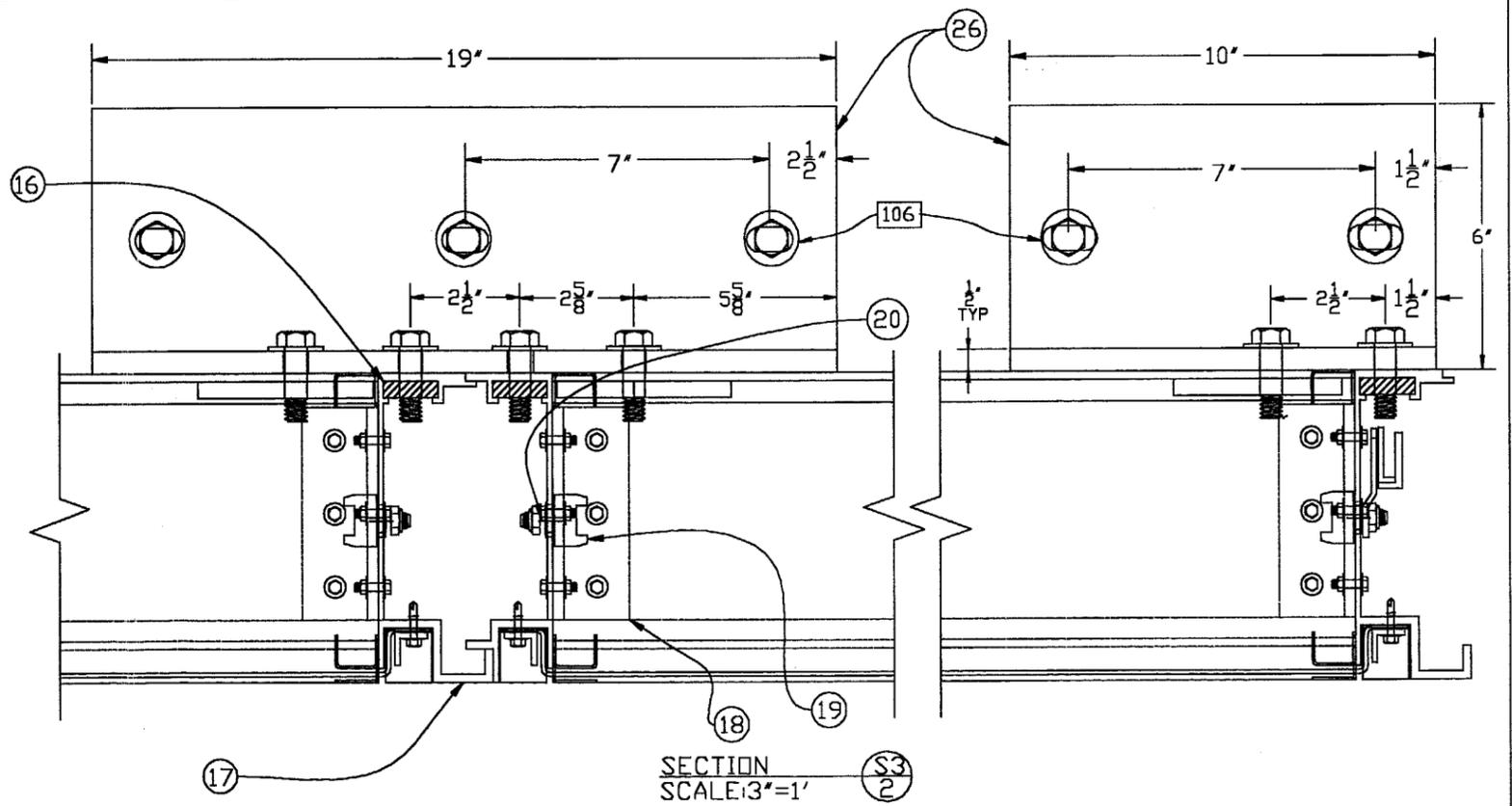
STEEL MOUNTING CONDITIONS

SECTION S2 SCALE: 3"=1'



2000 PSI CONCRETE MOUNTING CONDITIONS OR 2000 PSI GROUT FILLED CONCRETE MASONRY UNITS

SECTION S1 SCALE: 1"=1'



SECTION S3 SCALE: 3"=1'

FRAME AND OPERABLE LOUVER MOUNTING DETAILS

DETAIL OF FASTENING OPERABLE LOUVER TO JAMB SCALE: 3"=1'

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE **MAY 10 2001**
 BY *Alexander K. Long*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. **00-1107.03**

Alexander K. Long
 APR 03 2001

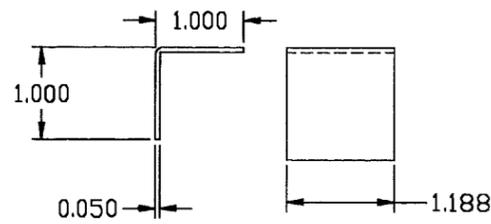
ALEXANDER K. LONG
 FLORIDA P.E. NO. 50241



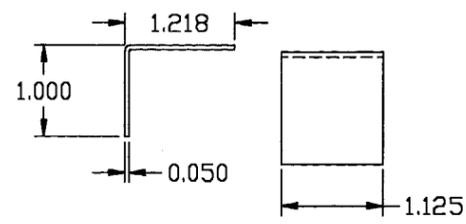
CONSTRUCTION SPECIALTIES, INC.
 49 MEEKER AVENUE, CRANFORD, NEW JERSEY
 PHONE: 1-800-631-7379 / FAX: 908-272-2920

DADE COUNTY LOUVER
 REVISION:
 SCALE: 1" = 1'
 DRW BY: J. BLAKE

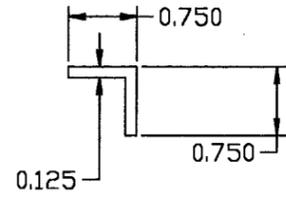
TITLE: LOUVER SYSTEM
 DATE: 1-29-01
 SHEET NUM: 2 OF 9
 DRW NO: RD-104-2



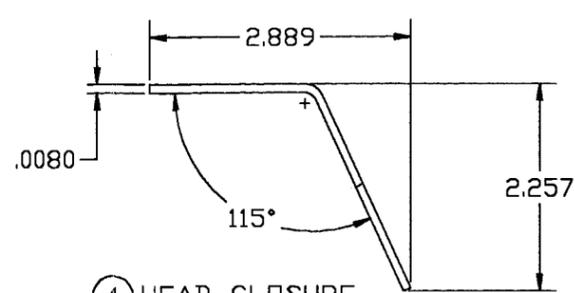
① TOP WATER BARRIER CLIP



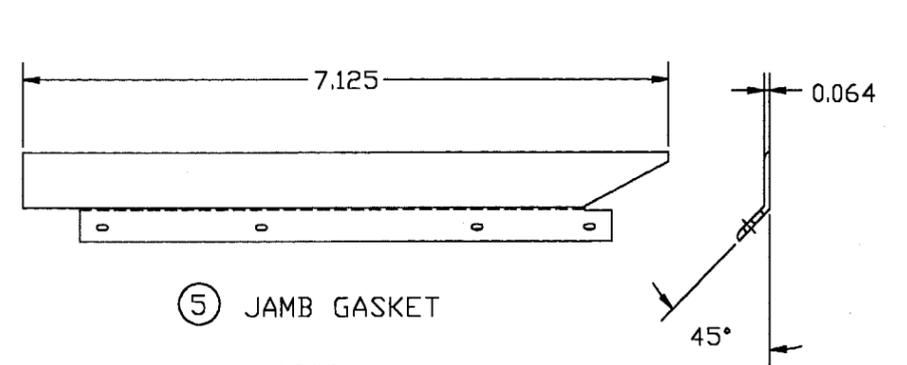
② HEAD-JAMB WATER BARRIER CLIP



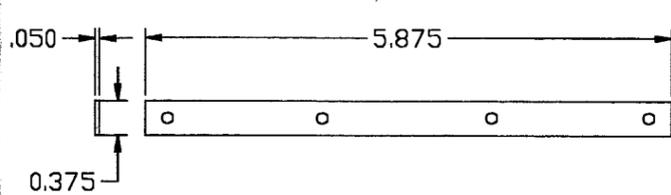
③ SCREEN RETAINING ANGLE



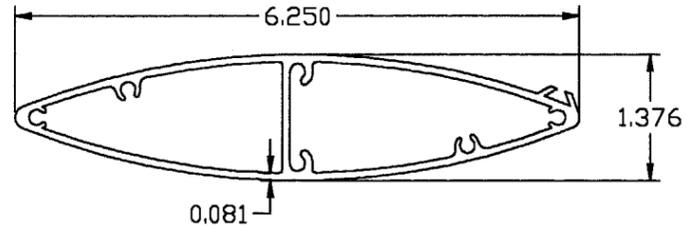
④ HEAD CLOSURE



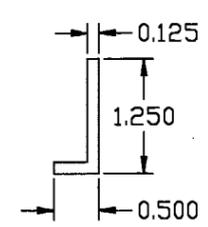
⑤ JAMB GASKET



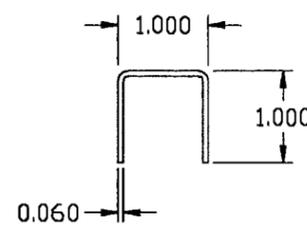
⑥ JAMB GASKET RETAINER



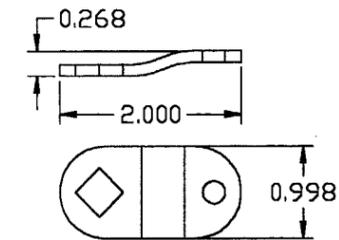
⑦ BLADE



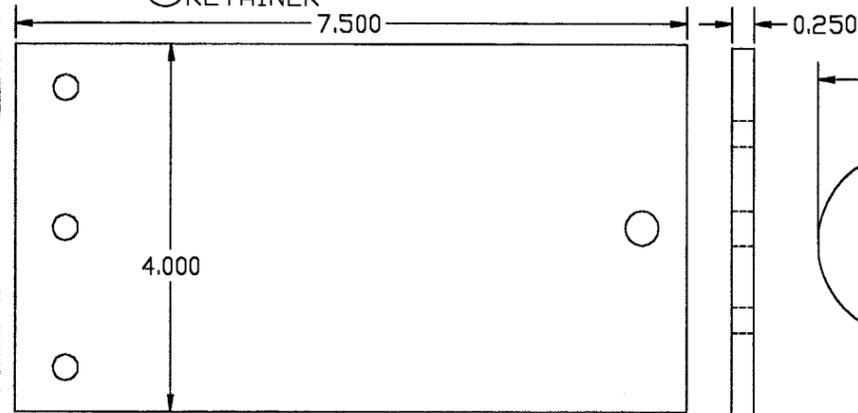
⑧ DRIVE BAR



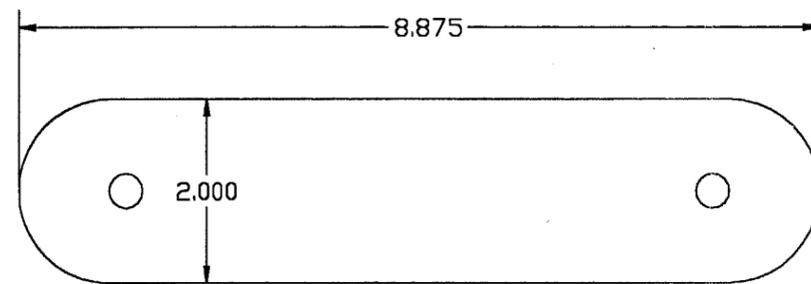
⑨ JAMB CHANNEL



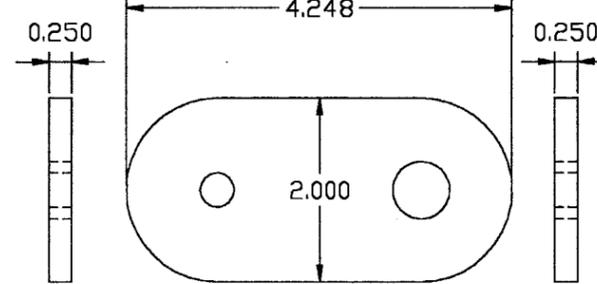
⑩ STANDARD LINK



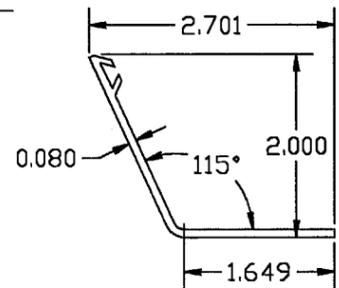
⑪ DRIVE PLATE



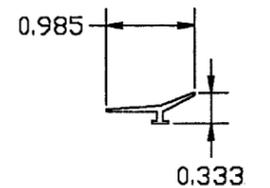
⑫ CONNECTING LINK



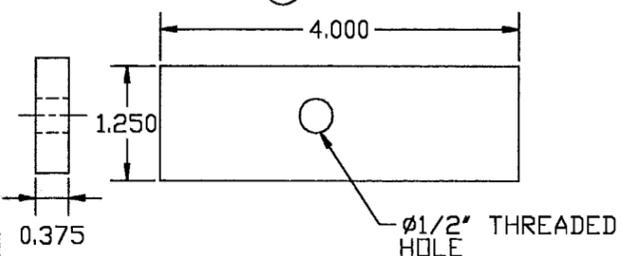
⑬ MOTOR CRANK ARM



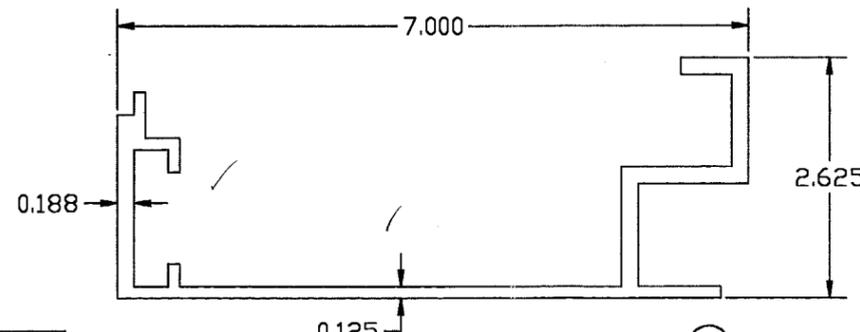
⑭ SILL CLOSURE



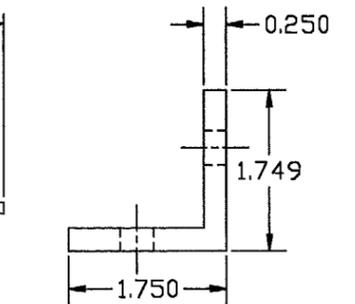
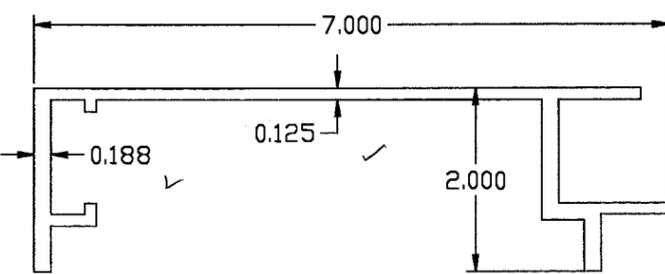
⑮ BLADE EDGE GASKET



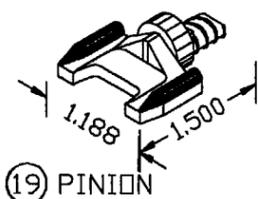
⑯ NUT PLATE
(STEEL RECEPTOR PLATE)



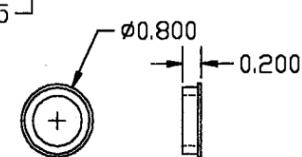
⑰ JAMB/MULLIONS



⑱ CORNER CLIP



⑲ PINION



⑳ PINION BUSHING

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **MAY 10 2001**
BY *[Signature]*
PROJECT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1107.03

ALEXANDER K. LONG
FLORIDA P.E. NO. 50241

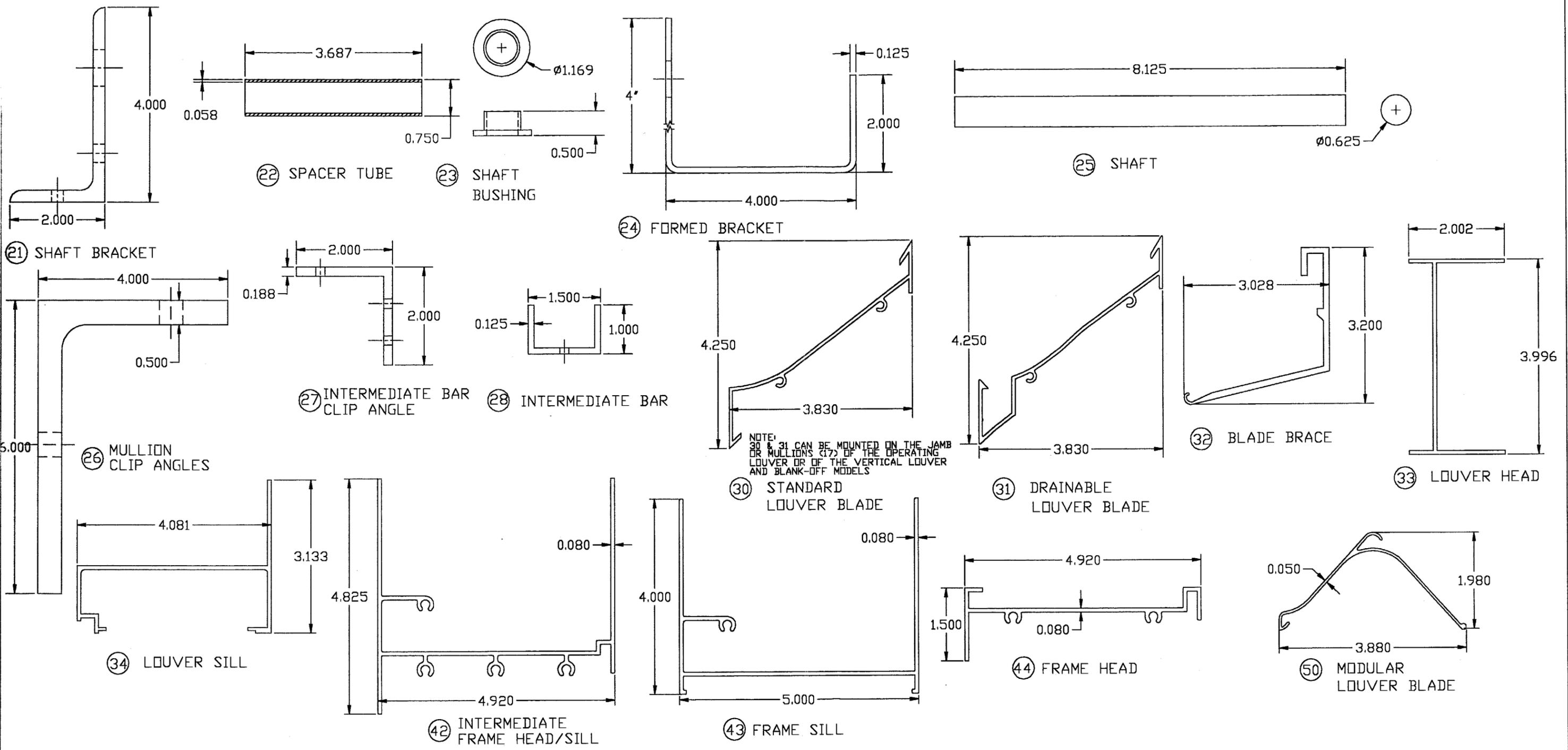
[Signature]
APR 03 2001



CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

OPERABLE LOUVER PARTS DETAILS

PROJECT: DADE COUNTY LOUVER	TITLE: LOUVER SYSTEM
REVISION:	DATE: 1-29-01
SCALE: HALF SCALE	SHEET NUM: 4 OF 9
DRW BY: J. BLAKE	DRW NO: RD-104-4



APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE **MAY 10 2001**
 BY *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-1107.03

Alexander K. Long
 APR 03 2001

ALEXANDER K. LONG
 FLORIDA P.E. NO. 50241

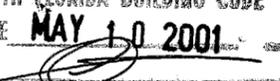


CONSTRUCTION SPECIALTIES, INC.
 49 MEEKER AVENUE, CRANFORD, NEW JERSEY
 PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT: DADE COUNTY LOUVER	TITLE: LOUVER SYSTEM
REVISION:	DATE: 1-29-01
SCALE: HALF SCALE	SHEET NUM: 5 OF 9
DRW BY: J. BLAKE	DRW NO: RD-104-5

LOUVERS PARTS DETAILS

PARTS LIST			DIMENSIONS
1	TOP WATER BARRIER CLIP	6063-T5 ALUMINUM 0.050 THK	
2	HEAD-JAMB WATER BARRIER CLIP	6063-T5 ALUMINUM 0.050 THK	
3	SCREEN RETAINING ANGLE	6063-T5 ALUMINUM 0.125 THK	
4	HEAD CLOSURE	6063-T5 ALUMINUM 0.080 THK	
5	JAMB GASKET	65 DURDMETER FLEXIBLE PVC	
6	JAMB GASKET RETAINER	6063-T5 ALUMINUM 0.050 THK	
7	AIRFOIL BLADE	6063-T5 ALUMINUM 0.080 THK	
8	DRIVE BAR	6063-T5 ALUMINUM 0.125 THK	
9	JAMB CHANNEL	6063-T5 ALUMINUM 0.060 THK	
10	STANDARD LINK	6063-T5 ALUMINUM 0.050 THK	
11	DRIVE PLATE	6063-T5 ALUMINUM 0.250 THK	
12	CONNECTING LINK	6063-T5 ALUMINUM 0.250 THK	NOT REQUIRED FOR PNEUMATIC DRIVE
13	MOTOR CRANK ARM	6063-T5 ALUMINUM 0.250 THK	NOT REQUIRED FOR PNEUMATIC DRIVE
14	SILL CLOSURE	6063-T5 ALUMINUM 0.080 THK	
15	BLADE EDGE GASKET	65 DURDMETER FLEXIBLE PVC	
16	NUT PLATE (STEEL RECEPTOR PLATE)	0.375 THK STAINLESS STEEL	
17	MULLION-JAMB	6063-T5 ALUMINUM	
18	CORNER CLIP	6063-T5 ALUMINUM 0.250 THK	
19	PINION	CAST ZAMAC (ZINC)	
20	PINION BUSHING	NYLON	
21	SHAFT BRACKET	6063-T5 ALUMINUM 0.125 THK	
22	SPACER TUBE	6061-T6 ALUMINUM	
23	SHAFT BUSHING	NYLON	
24	FORMED BRACKET	6063-T5 ALUMINUM 0.125 THK	
25	SHAFT	6061-T6 ALUMINUM	
26	MULLION CLIP ANGLE	6063-T5 ALUMINUM 0.500 THK	
27	INTERMEDIATE BAR CLIP ANGLE	6063-T5 ALUMINUM 0.188 THK	
28	INTERMEDIATE BAR	6063-T5 ALUMINUM 0.125 THK	
29	INTERMEDIATE BAR COVER	6063-T5 ALUMINUM 0.125 THK	
30	STANDARD LOUVER BLADE	6063-T5 ALUMINUM 0.068 THK	
31	DRAINABLE LOUVER BLADE	6063-T5 ALUMINUM 0.068 THK	
32	BLADE BRACE	6063-T5 ALUMINUM 0.125 THK	
33	LOUVER HEAD	6063-T5 ALUMINUM 0.080 THK	
34	LOUVER SILL	6063-T5 ALUMINUM 0.080 THK	
35	MISSILE SCREEN	3/4"X3/4" X 0.070" THK 304 STAINLESS STEEL EXPANDED MESH	
36	OPERATING MOTOR	ELECTRIC ACTUATOR OR AIR CYLINDER	
37	GRILLE CLIP CHANNEL	6063-T5 ALUMINUM 0.068 THK X 3" LONG	
38	SILL PAN	6063-T5 ALUMINUM 0.050 THK FORMED AND WELDED ON ENDS	
39	GRILLE	6063-T5 ALUMINUM MINIMUM 0.125" THK	6"x6"x3"x1/8" WELDED BAR GRILLE
40	4" DEEP LOUVER MODULE	6063-T5 ALUMINUM 0.050" THK BLADES - 0.063" THK FRAME	
41	2" DEEP BLANK-OFF MODULE	.032" THK ALUM SHEET - 0.080" THK FRAME	
42	INTERMEDIATE FRAME HEAD/SILL	6063-T5 ALUMINUM 0.080 THK	
43	FRAME SILL	6063-T5 ALUMINUM 0.080 THK	
44	FRAME HEAD	6063-T5 ALUMINUM 0.080 THK	
45	JAMB MODULE RETAINING ANGLE	6063-T5 ALUMINUM 3/4"X3/4"X1/8" THK	
46	HEAD/SILL BLANK-OFF MODULE RETAINING ANGLE	6063-T5 ALUMINUM 1 1/2"X2 3/8"X3/16" THK	
47	LOUVER HEAD MODULE RETAINING ANGLE	6063-T5 ALUMINUM 1 1/2"X3/4"X3/16" THK	
48	4' X 4' LOUVER CLIP ANGLE	6063-T5 ALUMINUM 2" X 2" X 1/8"	
49	SEALANT CRI 33S SILICONE	TO BE USED AS INDICATED ON SHEET 1 OF 9 FOR ALL CLOSED BUILDINGS	
50	MODULE VERTICAL BLADE	6063-T5 ALUMINUM 0.050" THK	
51	MODULE HEAD	6063-T5 ALUMINUM 0.060" THK	
52	MODULE JAMB	6063-T5 ALUMINUM 0.060" THK	
53	MODULE SILL CLIP	6063-T5 ALUMINUM 0.080" THK	
54	BLANK-OFF FRAME	6063-T5 ALUMINUM 0.063" THK	
100	1/2" x 3 1/2" BOLT	WITH FLAT WASHERS, LOCK WASHER AND NUT 2 AT JAMB, 3 AT MULLION (STEEL CONNECTION)	
101	1/2" x 2" BOLT	WITH FLAT WASHERS AND LOCK WASHER 2 AT JAMB, 4 AT MULLION	
102	#10 SD. ST SCREWS	HEX HEAD STAINLESS STEEL- 5 EACH SCREEN RET. ANGLE- 7 EACH INTER. BAR	
103	3/8" X 1 1/2" BOLT	WITH FLAT WSH, LOCK WSH AND NUT 6 SETS FOR EACH CORNER CLIP	
104	1/4"-20 BOLT	WITH FLAT WSH, LOCK WSH AND NUT- 5 EACH HEAD & SILL- 1 EACH BLADE BRACE - 20 EACH GRILLE SEC.	
105	1/8" BLIND POP RIVET	ALUM-ALUM DOME HEAD 188"-250" GRIP RANGE 8 EACH BLADE	
106	1/2"x4 1/2" HILTI KWIK BOLT 2	HILTI NO. 00045368 3 AT EACH MULLION, 2 AT EACH JAMB (CONCRETE CONNECTION)	
107	#8 SD. ST SCREWS	HEX HEAD STAINLESS STEEL- 4 EACH BLADE	

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **MAY 10 2001**
BY 
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1107.03

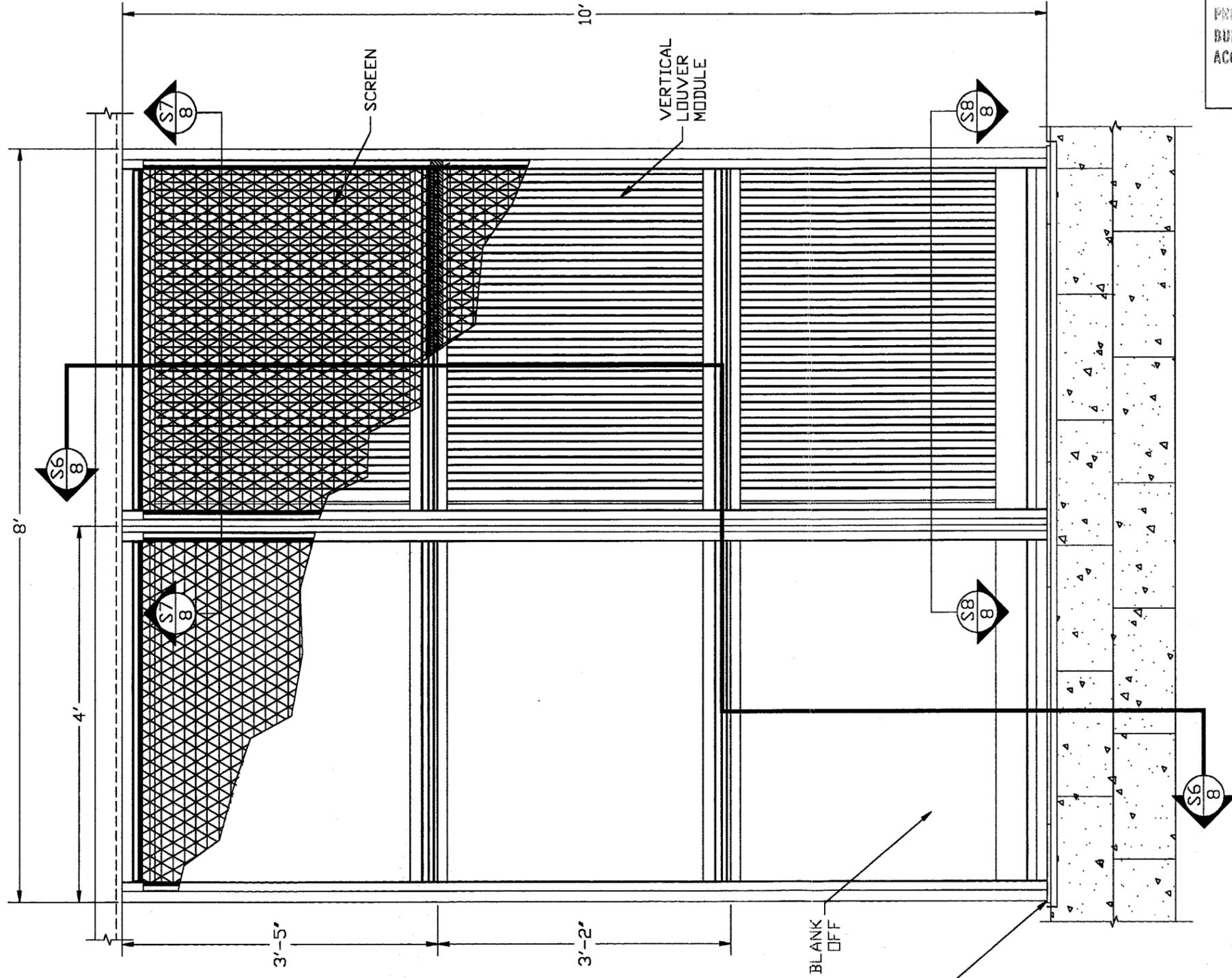
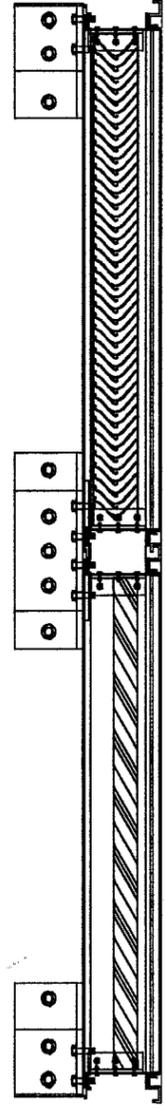

APR 03 2001

ALEXANDER K. LONG
FLORIDA P.E. NO. 50241



CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT: DADE COUNTY LOUVER	TITLE: LOUVER SYSTEM
REVISION:	DATE: 1-29-01
SCALE: HALF SCALE	SHEET NUM: 6 OF 9
DRW BY: J. BLAKE	DRW NO: RD-104-6



FRAME CONSTRUCTION: STRAIGHT CUT, BUTTED AND FASTENED WITH (6) BOLTS/CORNER KEYS

DESIGN PRESSURE RATING
±160 PSF
LARGE MISSILE IMPACT RESISTANCE

SPECIMEN ④

THREE SINGLE VERTICAL LOUVER (48"x36"EA) ✓
THREE SINGLE ALUM. BLANK-OFF (48"x36"EA)

- GENERAL NOTES:
- 1) MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE WITHOUT ADDITIONAL SUPPORTS = 48" X 120" ✓
 - 2) MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH LIMITED BY MODULES OF 48"x36", UP TO 120" ✓
 - 3) HEIGHT WITHOUT ADDITIONAL SUPPORTS ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY OR HEIGHTS MAY EXCEED 120" ✓
 - 4) PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY. ✓
 - 5) MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 36" ✓
 - 6) ALL FASTENERS SHALL BE STAINLESS STEEL OR PLATED STEEL ✓
 - 7) SEPARATION OF DISSIMILAR MATERIALS MUST BE MAINTAINED PER SECTION 3004.4 OF THE SOUTH FLORIDA BUILDING CODE 1994 EDITION. ✓
 - 8) APPROVED TYPE OF OPENINGS = 2000 PSI CONCRETE/ MASONRY OR STEEL. ✓
 - 9) THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED 160 PSF. ✓
 - 10) ALL HARDWARE AND FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THESE DRAWINGS. ✓
 - 11) THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION. ✓
 - 12) THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH DADE COUNTY PROTOCOLS 201, 202 AND 203 FOR LARGE MISSILE IMPACT, STRUCTURAL AND CYCLIC TESTING. ✓
 - 13) VERTICAL LOUVERS ARE TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVERS ARE DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT. ✓

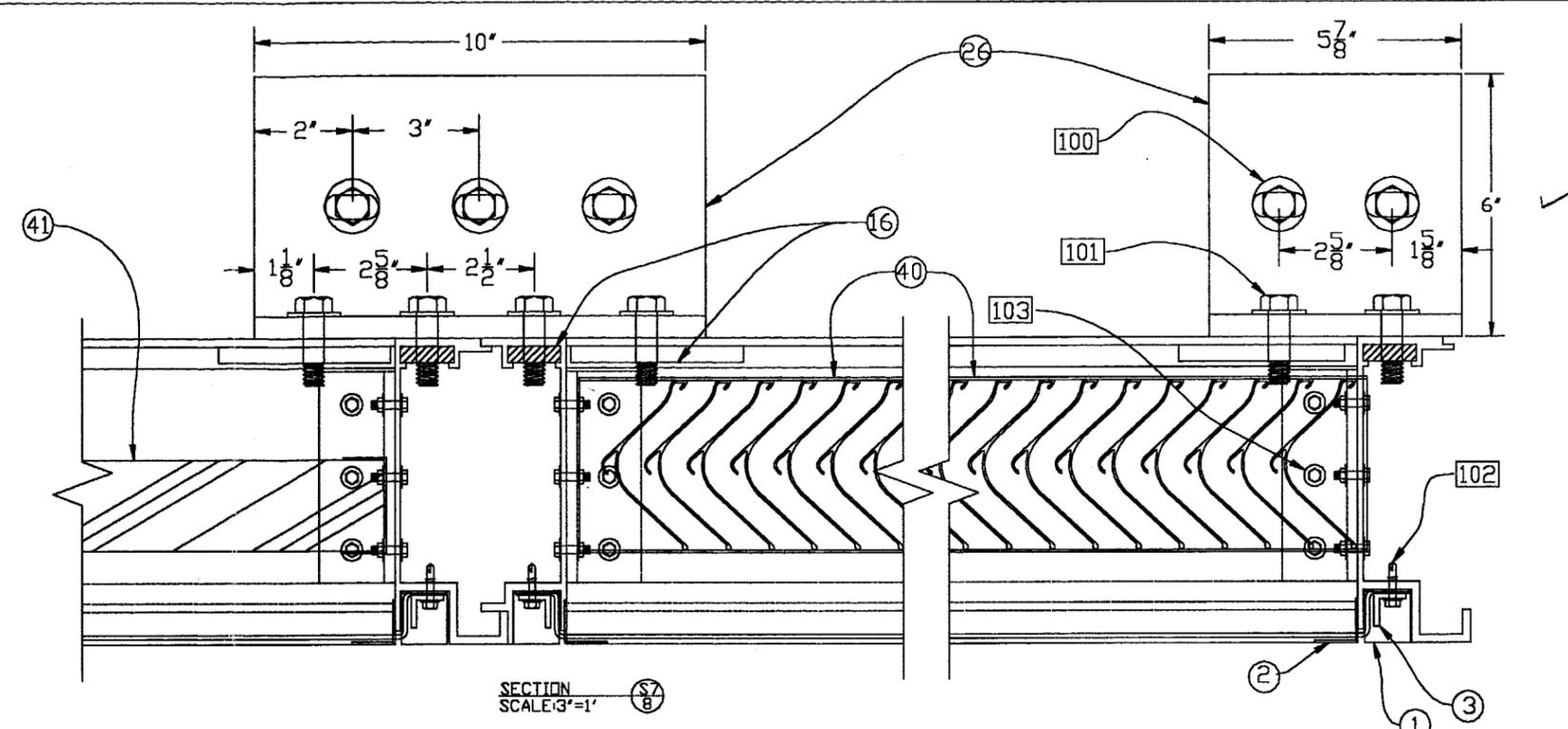
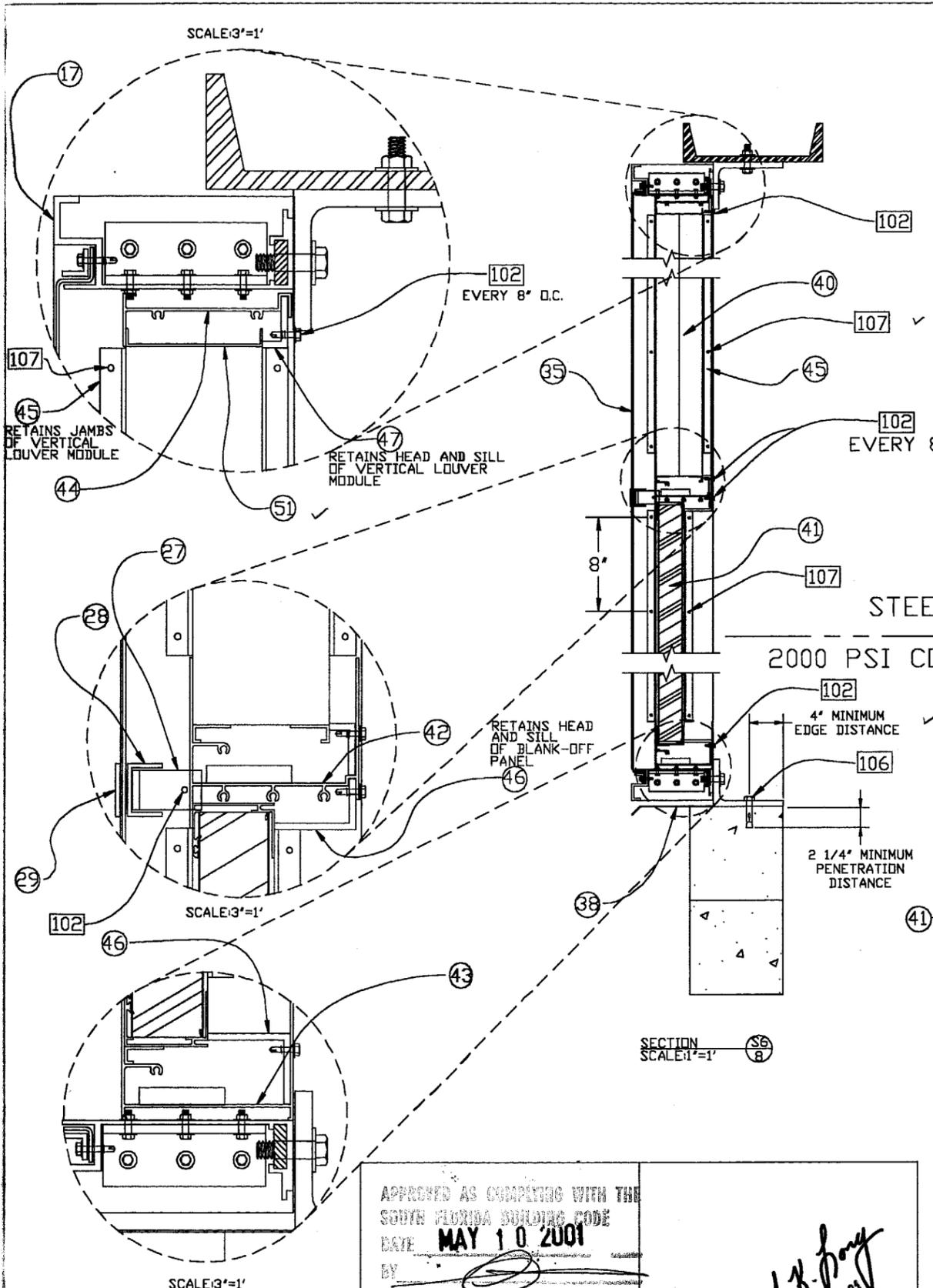
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE **MAY 10 2001**
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **06-1107.03**

[Signature]
APR 13 2001

ALEXANDER K. LONG
FLORIDA P.E. NO. 50241

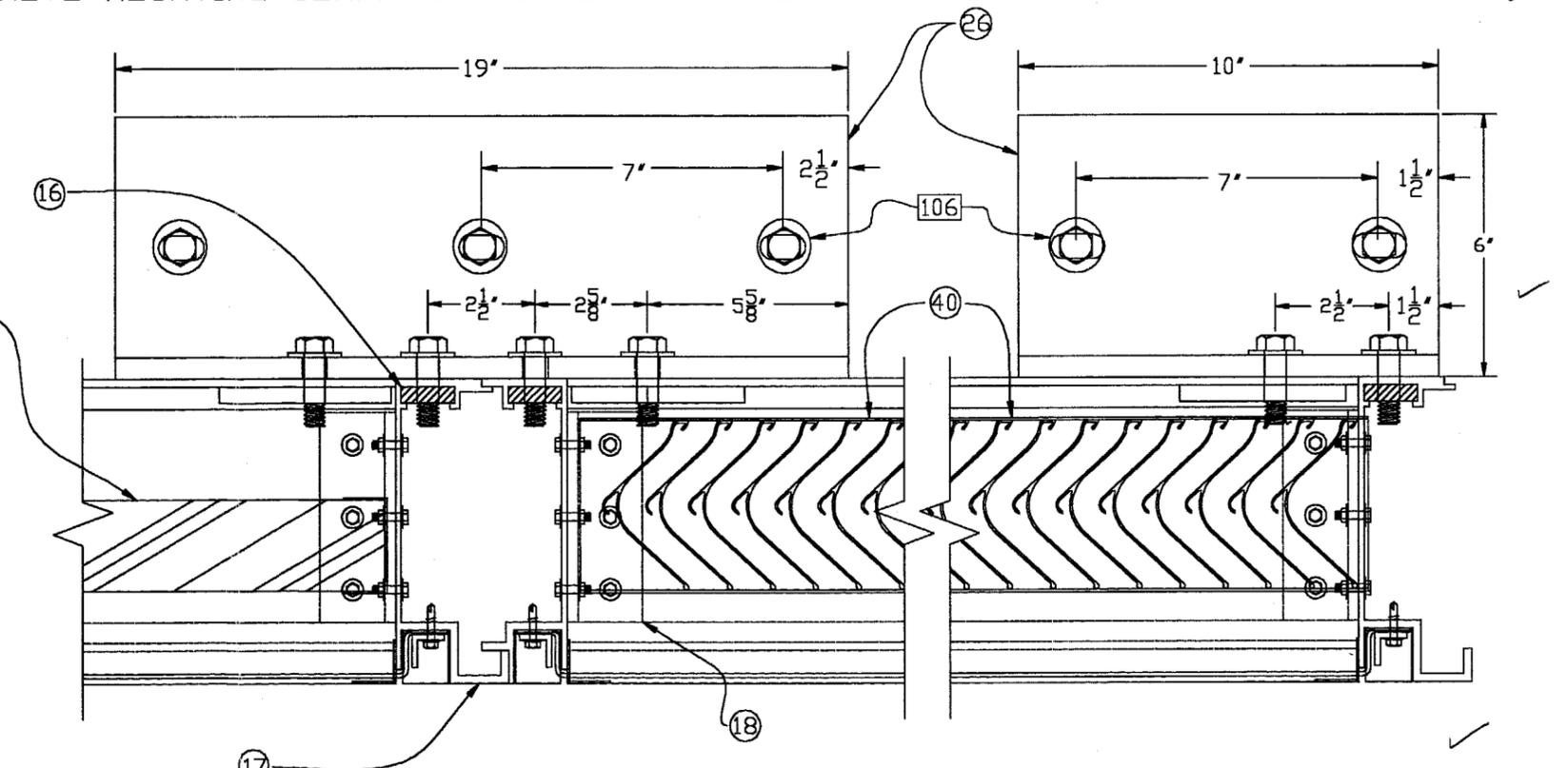
DADE COUNTY LOUVER		TITLE: LOUVER SYSTEM	
REVISION:		DATE: 1-29-01	
SCALE: 3/4" = 1'		SHEET NUM: 7 OF 9	
DRW BY: J. BLAKE		DRW NO: RD-104-7	

CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
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STEEL MOUNTING CONDITIONS

2000 PSI CONCRETE MOUNTING CONDITIONS OR 2000PSI GROUT FILLED CONCRETE MASONRY UNITS



DETAIL OF VERTICAL LOUVER AND BLANK-OFF

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE **MAY 10 2001**
 BY *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-1107.03

Alexander K. Long
 APR 03 2001

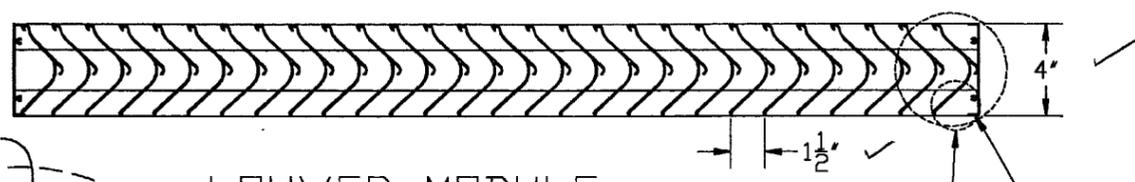
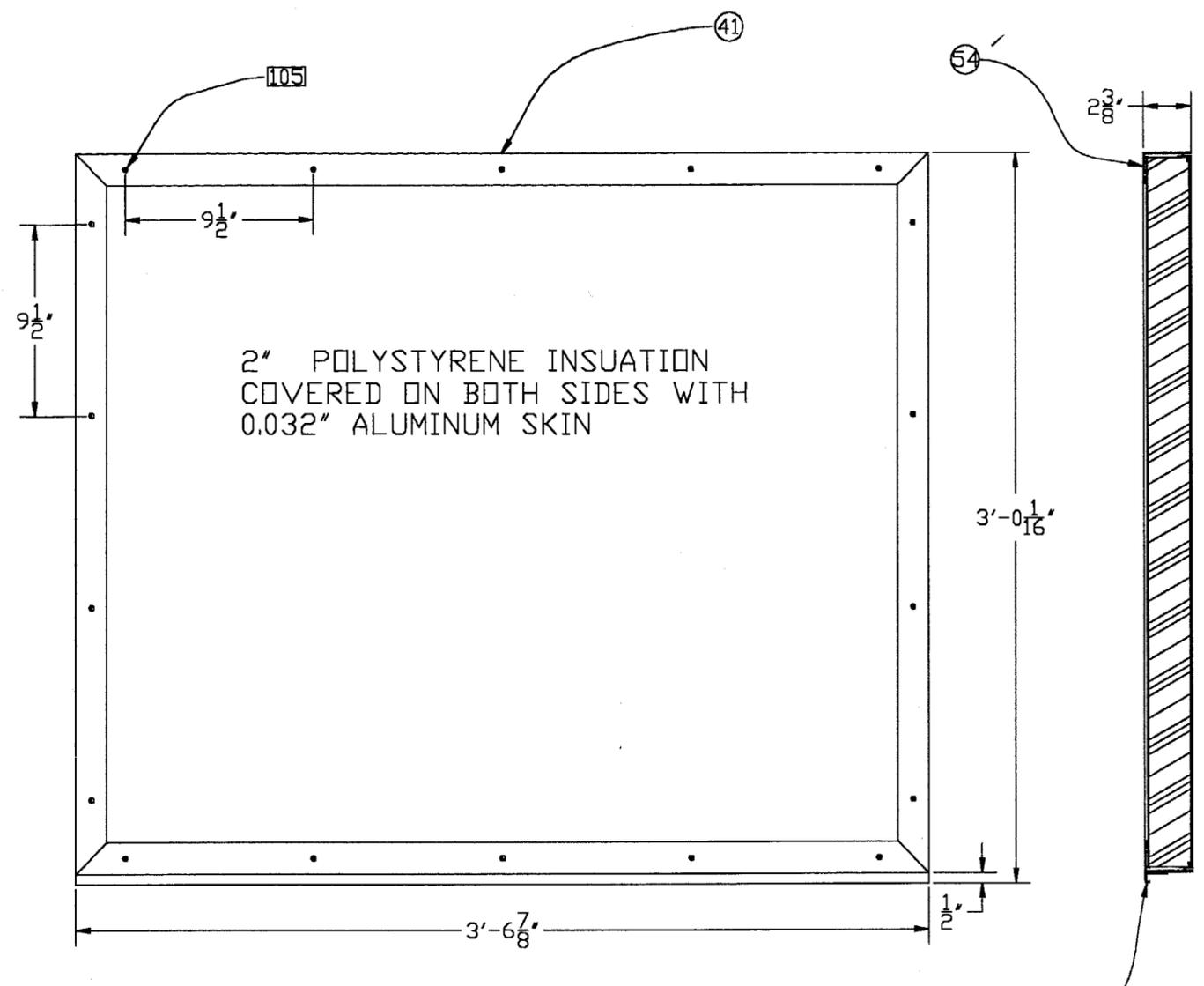
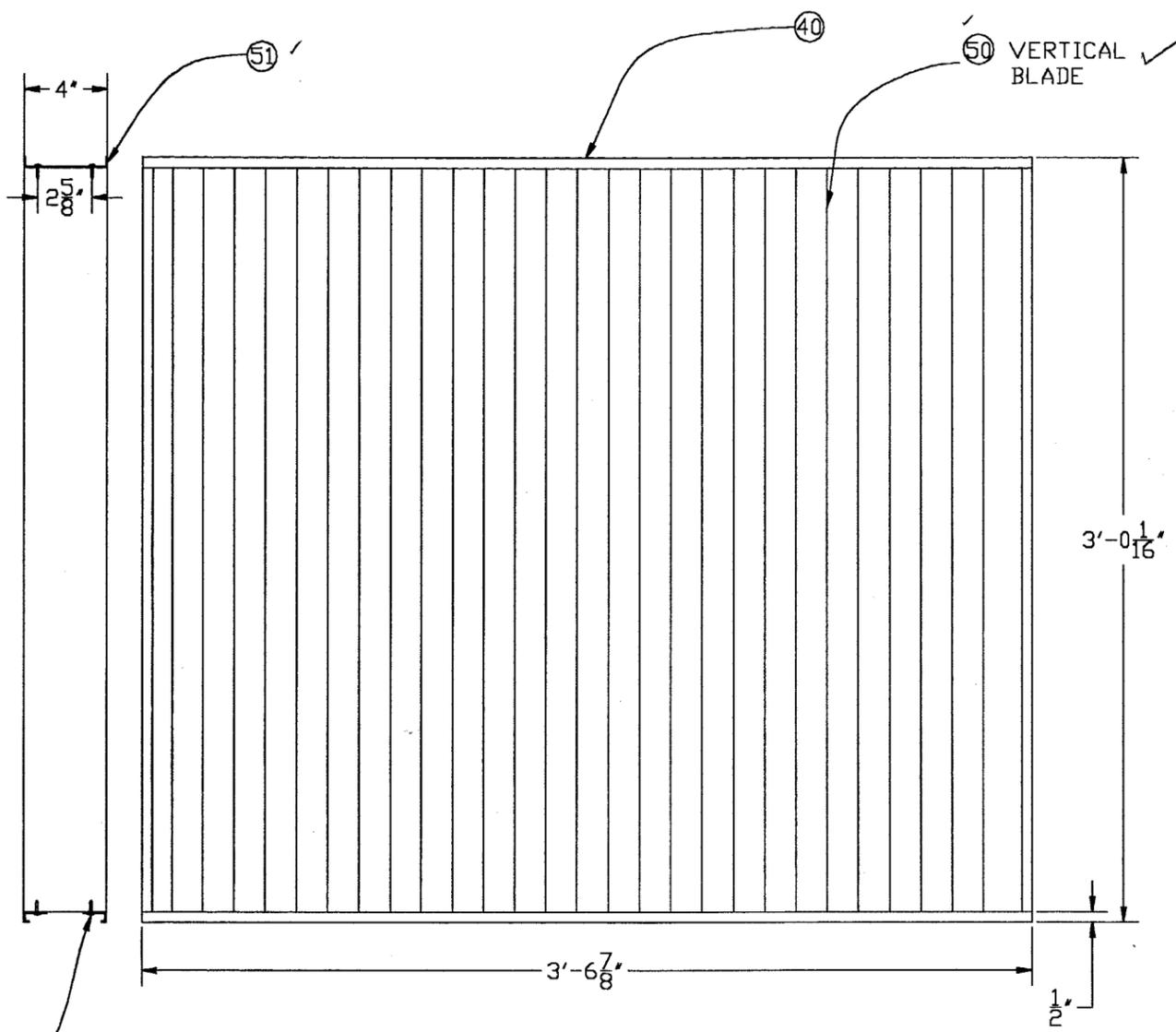
ALEXANDER K. LONG
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CONSTRUCTION SPECIALTIES, INC.
 49 MEEKER AVENUE, CRANFORD, NEW JERSEY
 PHONE: 1-800-631-7379 / FAX: 908-272-2920

DADE COUNTY LOUVER
 REVISION:
 SCALE: 1" = 1'
 DRW BY: J. BLAKE

TITLE: LOUVER SYSTEM
 DATE: 1-29-01
 SHEET NUM: 8 OF 9
 DRW NO: RD-104-8



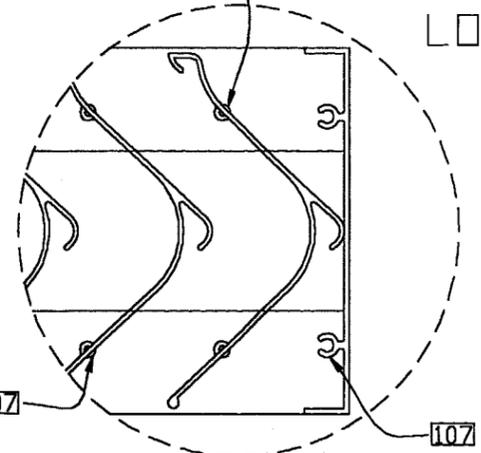
PUNCHED AND FORMED SCREW BOSSES

LOUVER MODULE

BLANK-OFF MODULE

THESE COMPONENTS ONLY WHERE ENHANCED WATER PROTECTION IS REQUIRED

MODULES HELD INTO LOUVER USING CONTINUOUS ANGLES (45, 46, 47) AND #8 SCREWS (107) EVERY 8"



DETAIL SCALE: FULL G9

BLADES PUNCHED AND FORMED 1/4" FROM ENDS TO PROVIDE SCREW BOSSES FOR ATTACHMENT (0.4" LG)

Alexander K. Long
APR 03 2001
ALEXANDER K. LONG
FLORIDA P.E. NO. 50241



CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT: DADE COUNTY LOUVER	TITLE: LOUVER SYSTEM
REVISION:	DATE: 2-02-01
SCALE: 1 1/2" = 1'	SHEET NUM: 9 OF 9
DRW BY: J. BLAKE	DRW NO: RD-104-9

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: MAY 10 2001
BY: *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1107.03