



MIAMI-DADE
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)

Bernardo Shutter Corporation
915 S. Dixie Highway East
Pompano Beach, FL 33060

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: Extruded Aluminum Bahama Shutter

APPROVAL DOCUMENT: Drawing No. 96-100, titled "Bernardo Shutter Corporation Bahama Shutter", sheets 1 through 6 of 6, prepared, signed and sealed by Gene S. Sanders, P.E., dated 7/15/98, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each 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 # 01-0905.07 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



NOA No 02-0426.06
Expiration Date: August 27, 2006
Approval Date: May 06, 2002
Page 1

BERNARDO SHUTTER CORPORATION

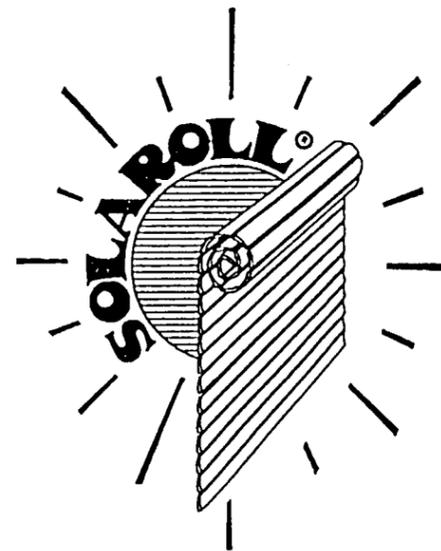
A MEMBER OF THE SOLAROLL® GROUP

POMPANO BEACH, FLORIDA 33060

BAHAMA SHUTTER

GENERAL NOTES

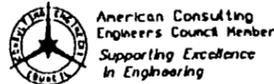
- 1.0 THE SHUTTER SYSTEM IS DESIGNED TO MEET THE REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE, SECTIONS 2909.6 & 3513. 1994 DADE COUNTY EDITION.
- 1.1 DESIGNING WIND PRESSURES SHALL BE DERIVED USING THE AMERICAN SOCIETY OF ENGINEERS STANDARD ASCE 7-88
- 1.2 THE LARGE MISSILE IMPACT, CYCLIC WIND PRESURE, AND UNIFORM STATIC AIR PRESURE TEST, ENTITLED AMERICAN TEST LAB REPORT #1007.01-96 DATED 10-7-96 PREPARED BY GERARD P. SULLIVAN WAS CONDUCTED IN ACCORDANCE TO THE REQUIREMENTS OF THE DADE COUNTY CODE COMPLIANCE OFFICE PROTOCOL #PA 201-94, PA 202-94 AND PA 203-94
- 1.3 MAXIMUM DESIGN LOAD 80 PSF.
- 2.0 ALUMINUM COMPONENTS ARE DESIGNED IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL".
- 3.0 THE ALUMINUM ALLOYS USED TO DERIVE THESE DESIGN CHARTS ARE AS SHOWN IN THE DRAWINGS.
- 4.0 STEEL SURFACES IN CONTACT WITH ALUMINUM COMPONENTS SHALL BE GALVANIZED OR HAVE ONE COAT OF ZINC CHROMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC TTP-645.
- 5.0 THE EMBEDMENT FOR ANCHORS SHOWN IN THESE DRAWINGS IS THE REQUIRED MINIMUM PENETRATION INTO THE BASE MATERIAL OF THE SUPPORTING STRUCTURE. MINIMUM EDGE DISTANCE (3 1/2") SHOWN IN THESE DRAWINGS INCLUDE A 1/2" ALLOWANCE FOR STUCCO.
- 6.0 BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL OR ALUMINUM ALLOY 2024-T4 OR 7075-T6
- 7.0 DEFLECTION DESIGN CRITERIA.
 - 7.1 MULLIONS HAVE BEEN SIZED TO LIMIT THE DEFLECTION OF THE ELEMENTS TO $\leq L/180$ AT THE DESIGN LOAD.
 - 7.2 SLATS HAVE BEEN SIZED TO LIMIT THE DEFLECTION AT THE DESIGN LOAD TO BE $\leq L/30$ FOR SUCTION AND THE LESSER OF $L/30$ OR 2 INCHES WHEN SUBJECTED TO POSITIVE PRESSURE.
 - 7.3 SHUTTERS SHALL BE CONFIGURED TO HAVE NO LESS THAN 2 15/16 INCHES MINIMUM CLEARANCE BETWEEN THE UNLOADED SLAT AND THE GLAZING FOR A MAXIMUM DESIGN LOAD OR 80 PSF.



PRODUCT MARKING

A LABEL SHALL BE PLACED ON THE LOWER RIGHT CORNER, WITH THE FOLLOWING STATEMENT:

EXTRUDED ALUMINUM BAHAMA SHUTTER
DADE COUNTY PRODUCT CONTROL APPROVED
MANUFACTURED BY BERNARDO SHUTTER, CORP.



JENKINS & CHARLAND
2535 N.W. 33rd St.
FORT LAUDERDALE, FL 33309
404-464-7777

7/15/98
PROF. ENGINEER
GENE S. SANDERS
FLA. PE # 26590

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-0426.06
Expiration Date 08/23/96
By: [Signature]
Miami Dade Product Control
Division

PRODUCT RENEWED

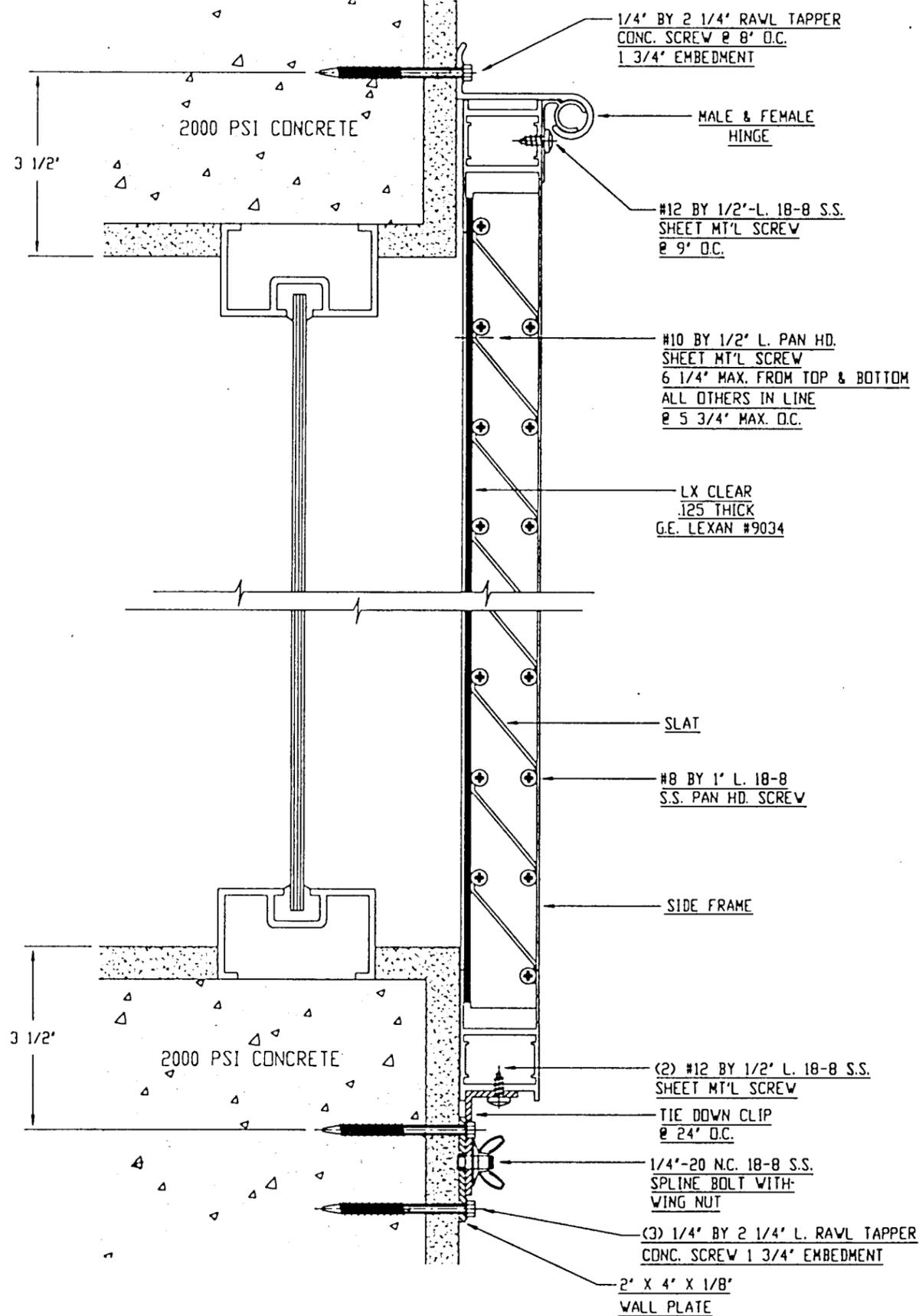
ACCEPTANCE No. 01-0905-07
EXPIRATION DATE August 27-2006
By: [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

TABLE OF CONTENTS

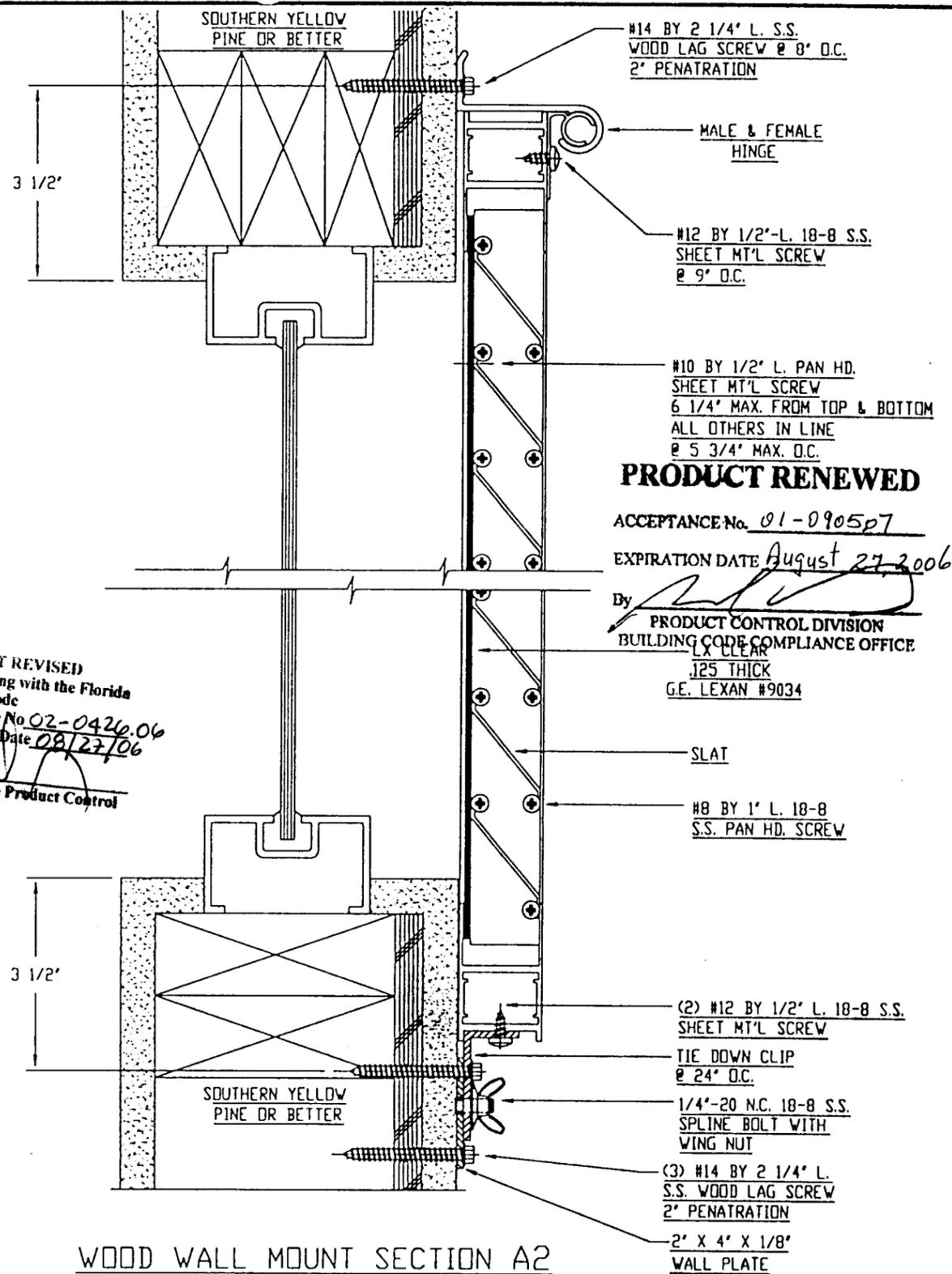
PAGE NO.	DESCRIPTION
1	GENERAL NOTES, TABLE OF CONTENTS
2	BAHAMA TYPICAL SECTIONS
3	BAHAMA TYPICAL SECTIONS
4	BAHAMA ELEVATION & PLAN VIEW
5	BAHAMA PANEL ASSEMBLY
6	BAHAMA COMPONENTS

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE August 27, 1998
By: [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0731-04

BERNARDO SHUTTER CORPORATION
Pompano Beach, Florida 33060
SCALE: DRAWING NUMBER: 96-100 DRAWN BY: [Signature]
DATE: 11-1-96 REV: 7-15-98
GENERAL NOTES &
TABLE OF CONTENTS
PAGE NUMBER
1 OF 6



CONCRETE WALL MOUNT SECTION A1



WOOD WALL MOUNT SECTION A2

PRODUCT RENEWED

ACCEPTANCE No. 01-0905p7
 EXPIRATION DATE August 27, 2006
 By [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 LX CLEAR
 .125 THICK
 G.E. LEXAN #9034

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 02-0426.06
 Expiration Date 08/27/06
 By [Signature]
 Miami Dade Product Control
 Division

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE August 27, 1998
[Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0731.04



American Consulting
 Engineers Council Member
 Supporting Excellence
 in Engineering

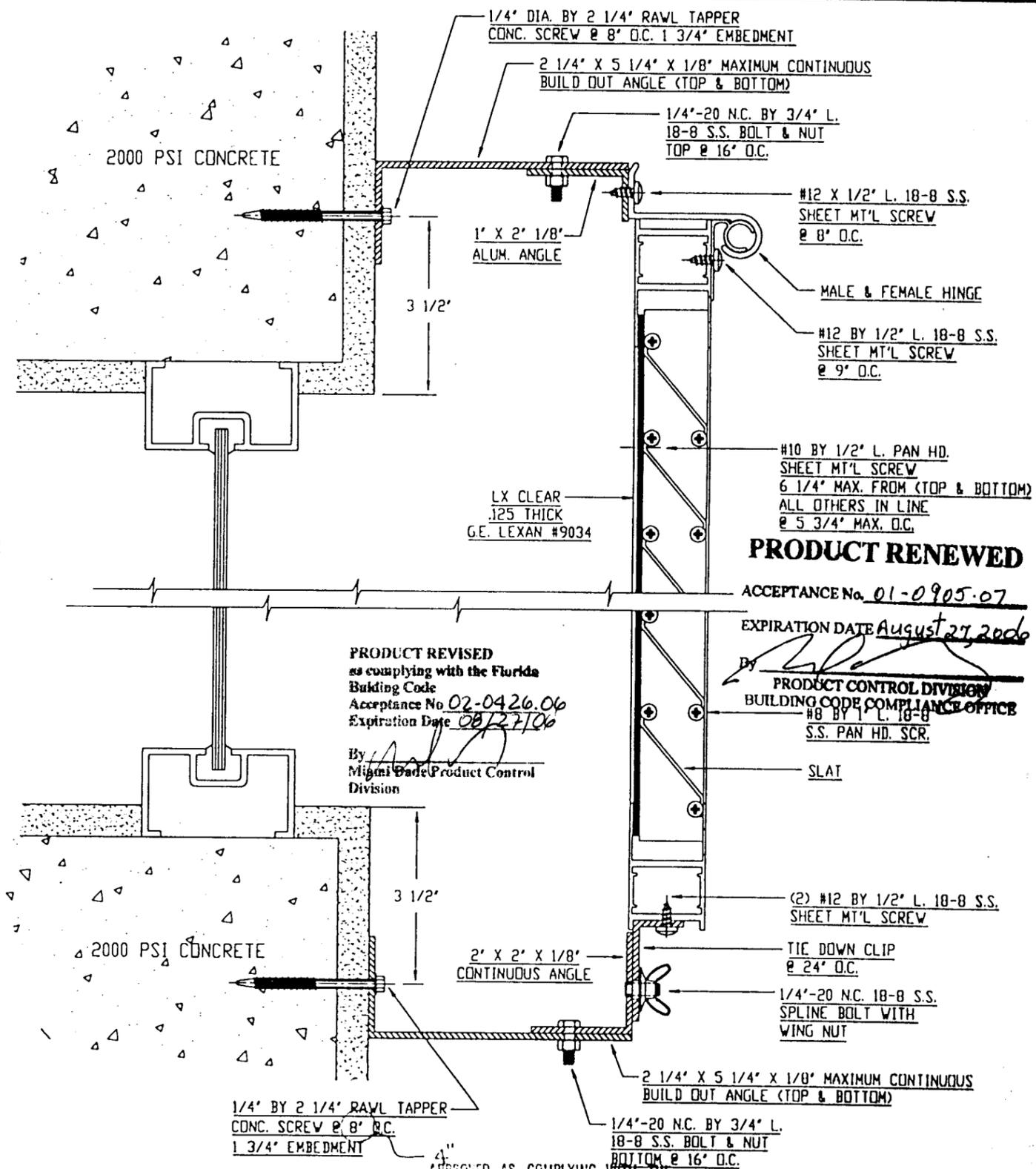
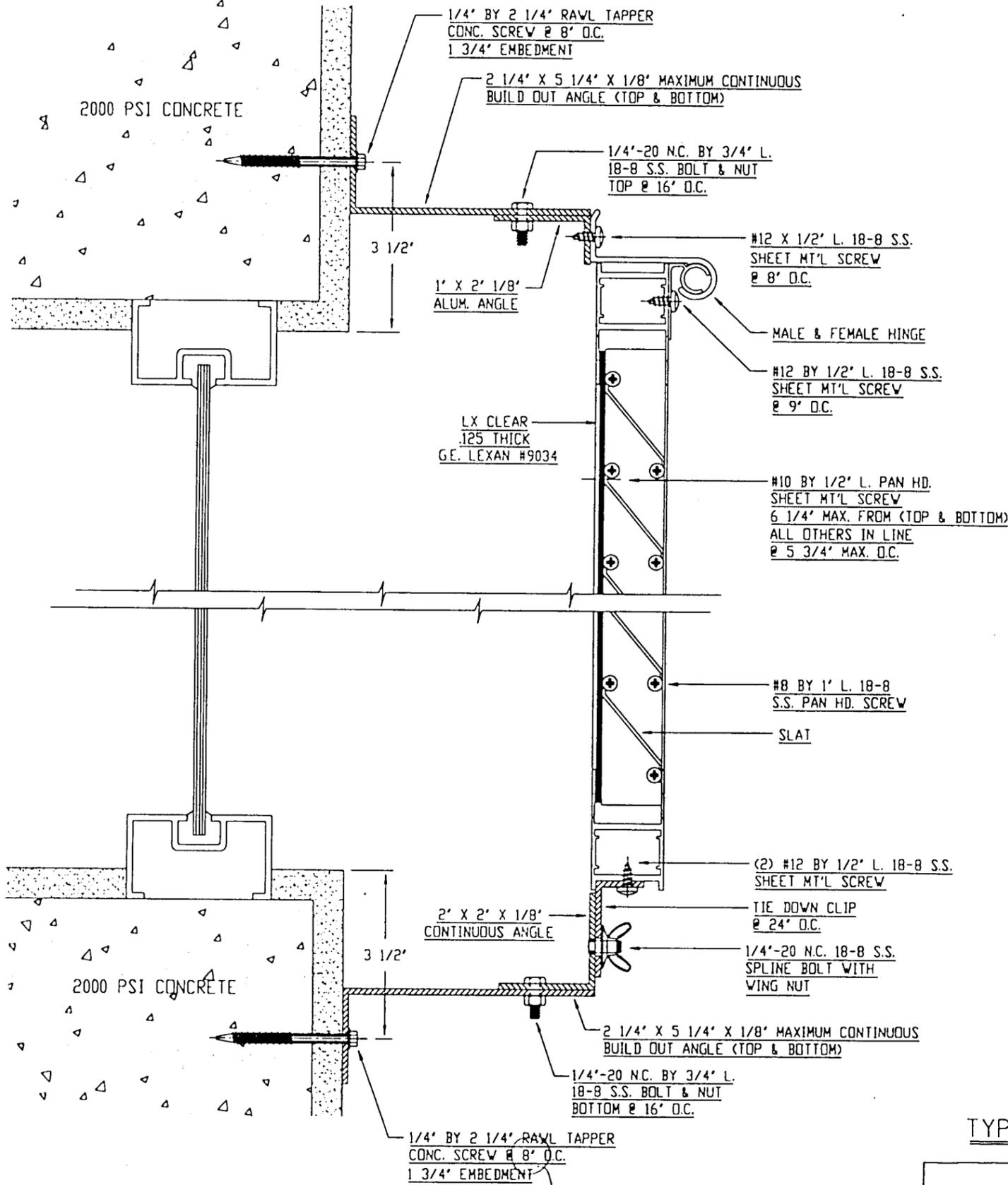
JENKINS &
 CHARLAND
 3331 N.W. 33rd Street
 Fort Lauderdale, FL 33309
 (954) 484-7777

PROF. ENGINEER
 GENE S. SANDERS
 FLA. PE # 26590

BERNARDO SHUTTER CORPORATION
 Pompano Beach, Florida 33060
 SCALE: 3/8"=1" DRAWING NUMBER 96-100 DRAWN BY: S.V.
 DATE: 11-1-96 REV: 7-15-98

TYPICAL BAHAMA
 SECTIONS

PAGE NUMBER
 2 OF 6



REVERSED BUILD OUT SECTION A3

TYPICAL BUILD OUT SECTION A4

PRODUCT RENEWED

ACCEPTANCE No. 01-0905-07

EXPIRATION DATE August 27, 2006

By [Signature]
PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 02-0426-06
 Expiration Date 08/27/06
 By [Signature]
 Miami Dade Product Control
 Division

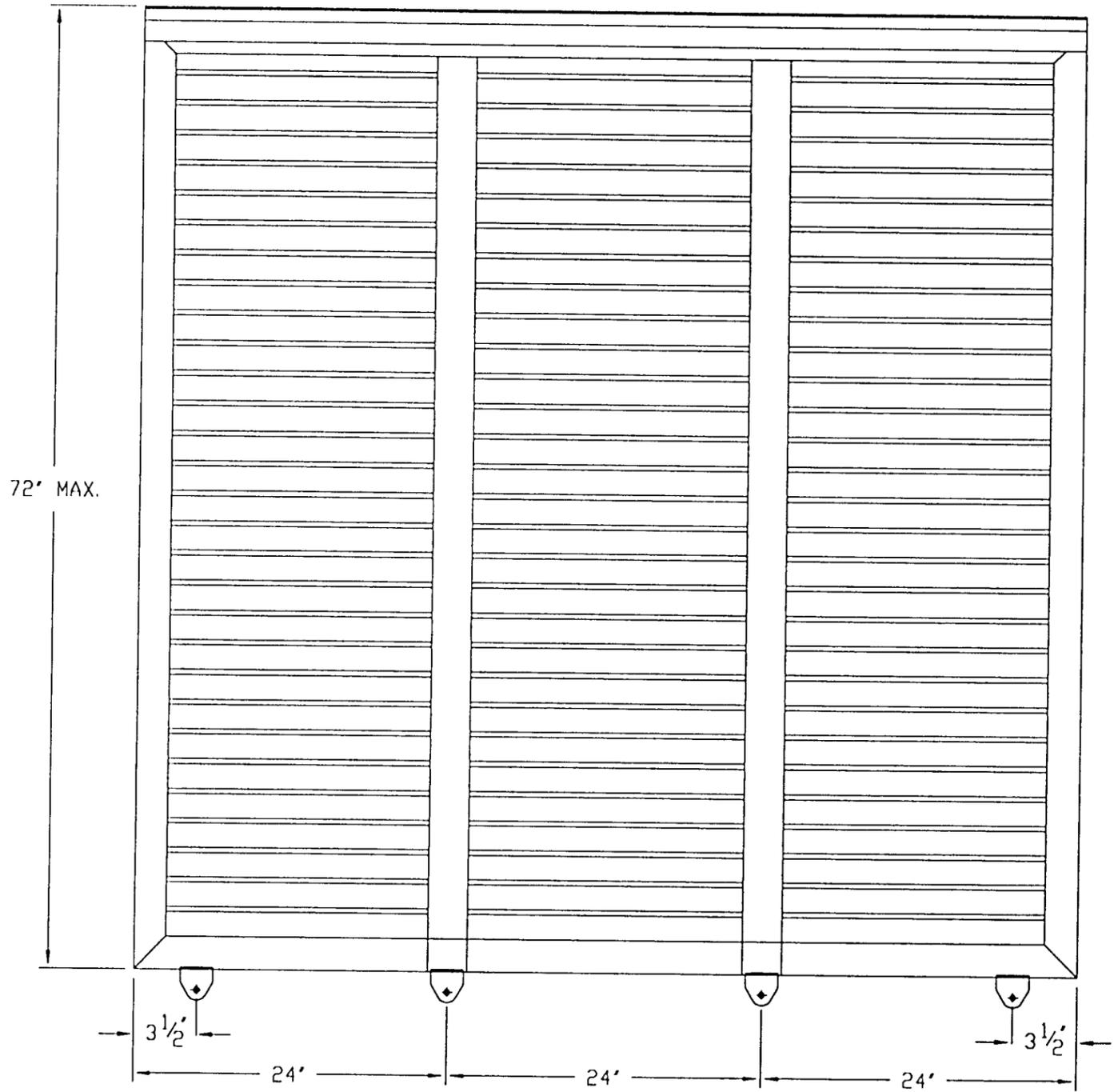
APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 AT August 27, 1998
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0731-04

BERNARDO SHUTTER CORPORATION
 Pompano Beach, Florida 33060
 SCALE: 3/8"=1'
 DATE: 11-1-96
 DRAWING NUMBER 96-100
 DRAWN BY: S.V.
 REV: 7-13-98

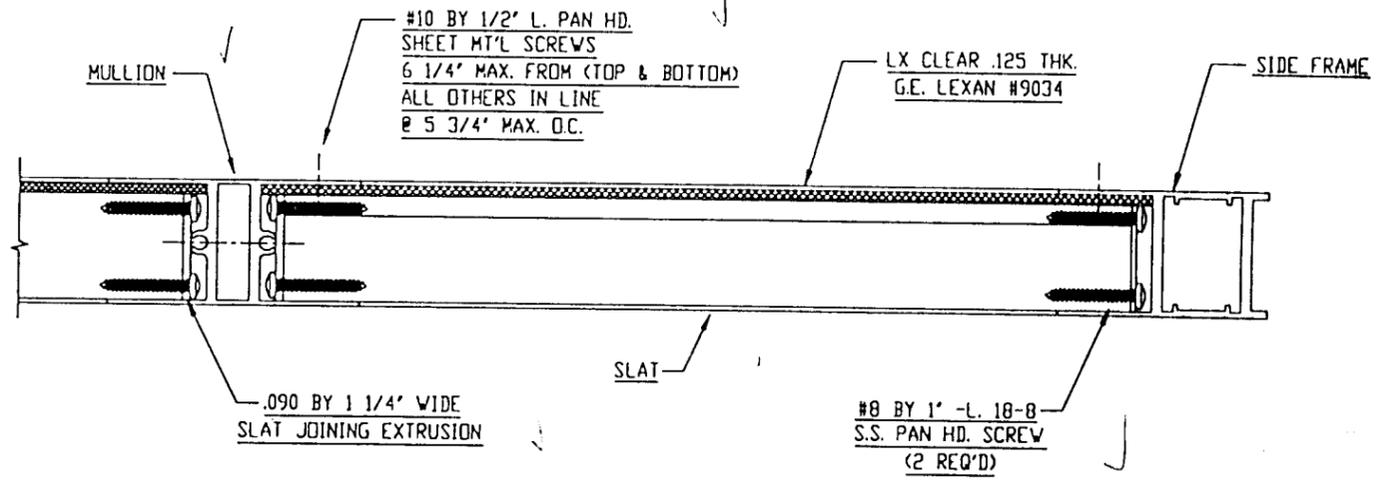
TYPICAL BAHAMA
 SECTIONS

PAGE NUMBER
 3 OF 6

JENKINS & CHARLAND
 American Consulting Engineers Council Member
 Supporting Excellence in Engineering
 3339 N.W. 33rd Street
 FORT LAUDERDALE, FL 33309
 (954) 484-7777
 TO THE BEST OF HIS KNOWLEDGE AND ABILITY, THE COMPLETE STRUCTURE DEPICTED IN THESE PLANS COMPLIES WITH THE APPLICABLE FLORIDA BUILDING CODE.
 7/15/98
 PROF. ENGINEER
 GENE S. SANDERS
 FLA. PE # 26590



ELEVATION
N.T.S.



PLAN VIEW
1/2" = 1"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-042606
Expiration Date 09/23/06
By [Signature]
Miami Dade Product Control
Division

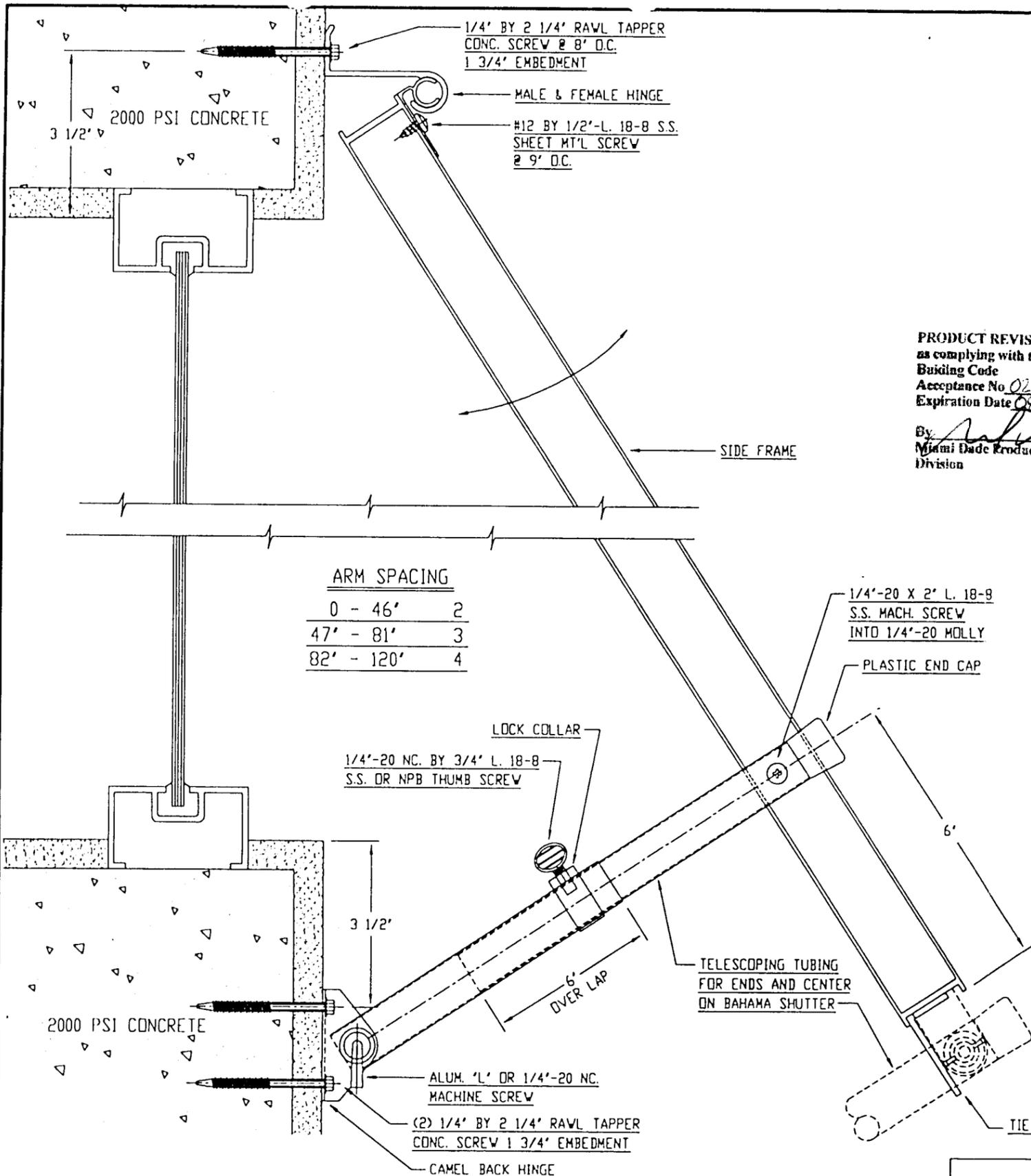
PRODUCT RENEWED
ACCEPTANCE No. 01-0905-07
EXPIRATION DATE August 27, 2006
By [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE August 27, 1998
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0731-01

JENKINS & CHARLAND
American Consulting
Engineers Council Member
Supporting Excellence
in Engineering
2338 N.W. 53rd Street
Fort Lauderdale, FL 33309
(954) 484-7777
TO THE BEST OF MY KNOWLEDGE
AND ABILITY, THE COMPLETE
STRUCTURE DESCRIBED IN THESE
PLANS COMPLIES WITH THE
APPLICABLE FLORIDA BUILDING
CODES.

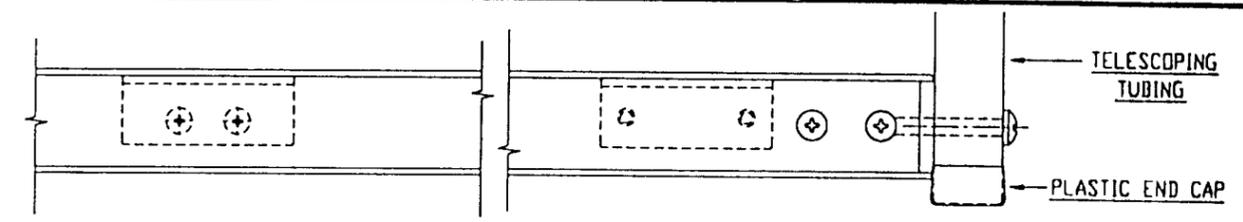
PROF. ENGINEER
GENE S. SANDERS
FLA. PE # 26590

BERNARDO SHUTTER CORPORATION
Pompano Beach, Florida 33060
SCALE: NOTED
DATE: 11-1-96
DRAWING NUMBER
96-100
DRAWN BY: S.V.
REV: 7-13-98
ELEVATION - PLAN VIEW
PAGE NUMBER
4 OF 6

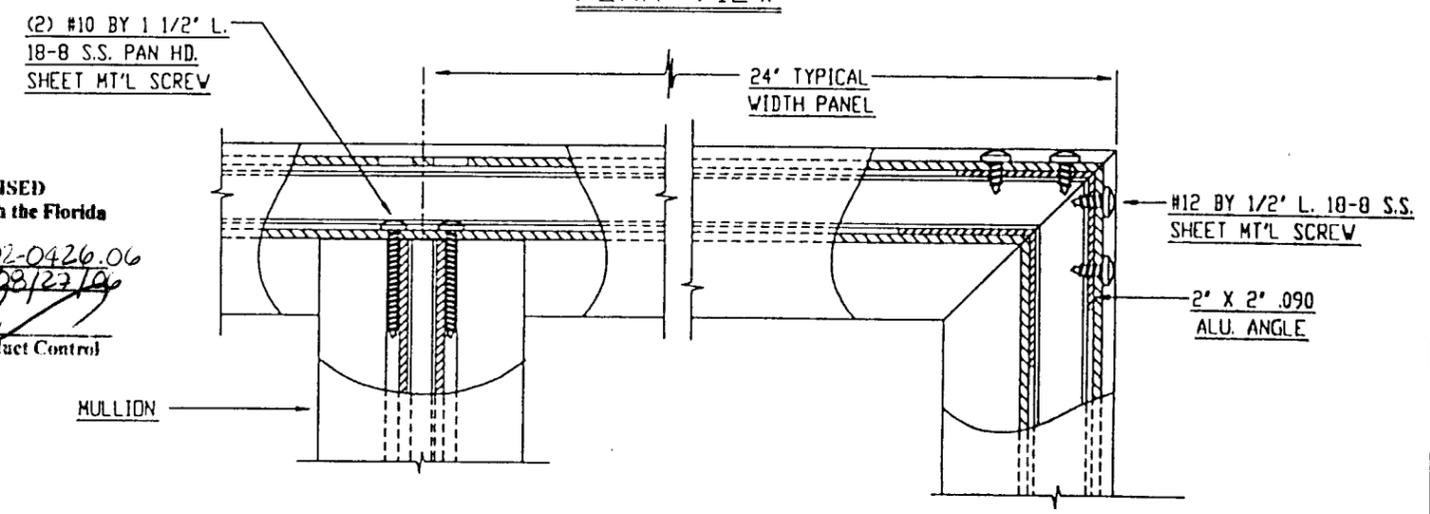


SILL - PARTIALLY OPEN VIEW A5

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 02-0426.06
 Expiration Date 08/27/06
 By: *[Signature]*
 Miami Dade Product Control
 Division



PLAN VIEW



TYPICAL MULLION TO SIDE FRAME

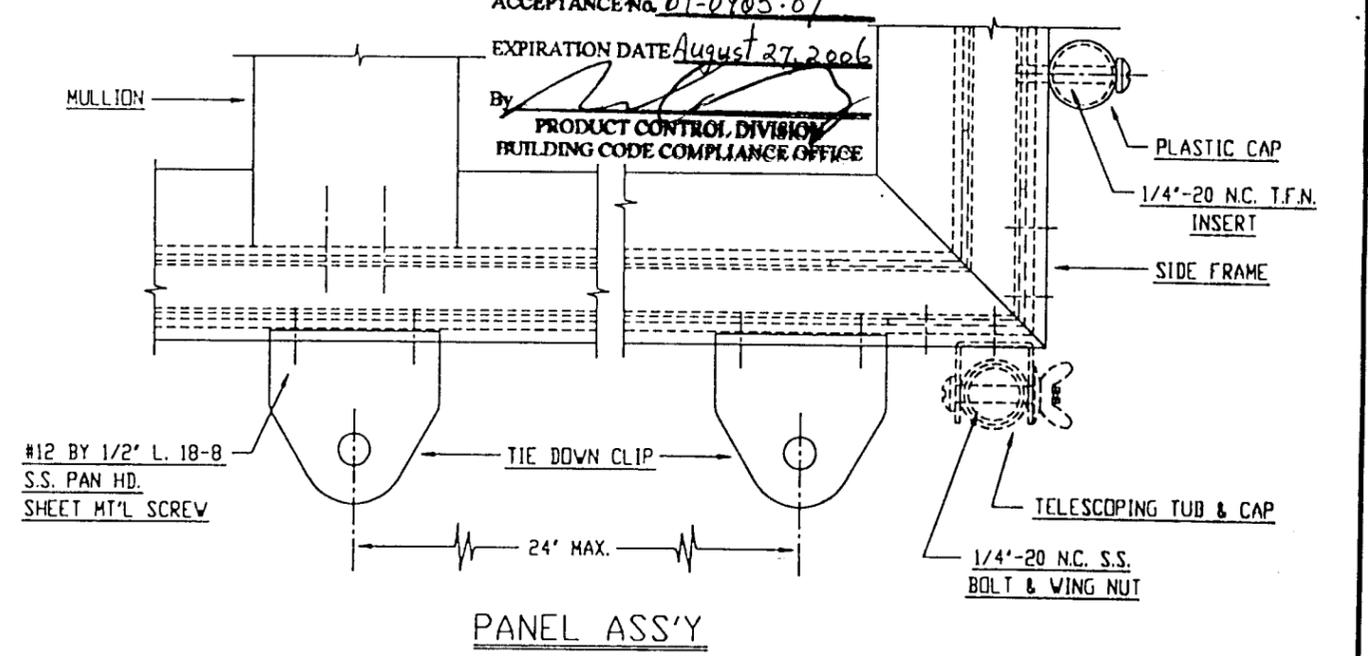
TYPICAL CORNER ASS'Y

PRODUCT RENEWED

ACCEPTANCE No. 01-0905.07

EXPIRATION DATE August 27, 2006

By: *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE



PANEL ASS'Y

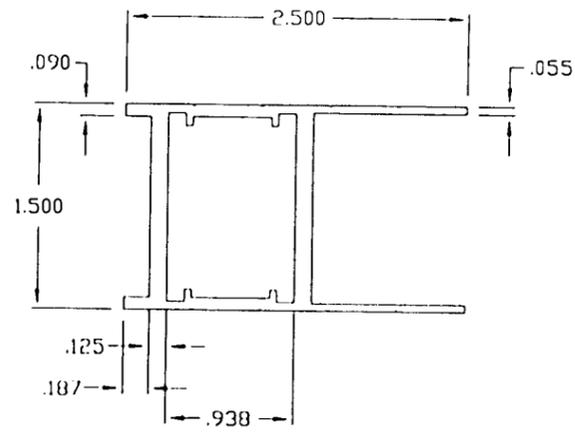
American Consulting Engineers Council Member
 Supporting Excellence in Engineering

JENKINS & CHARLAND
 3339 N.W. 33rd St.
 FORT LAUDERDALE, FL 33309
 (954) 464-7777

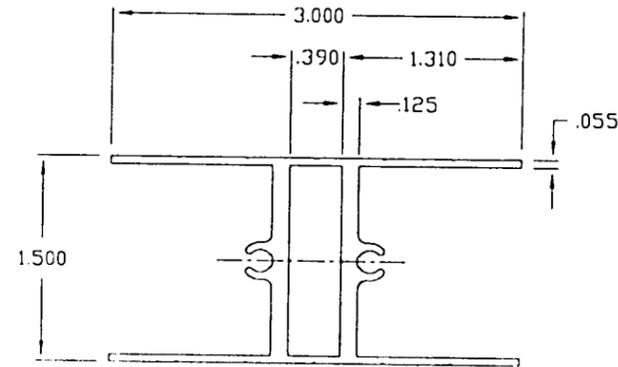
715758
 PROF. ENGINEER
 GENE S. SANDERS
 FLA. PE # 26590

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE August 27, 19 98
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0731.04

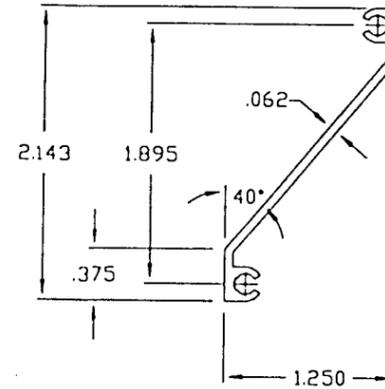
BERNARDO SHUTTER CORPORATION
 Pompano Beach Florida 33060
 SCALE: 3/8" = 1"
 DATE: 11-1-96
 DRAWING NUMBER 96-100
 DRAWN BY: S.V.
 REV: 7-15-98
 BAHAMA PANEL ASSEMBLY
 PAGE NUMBER 5 OF 6



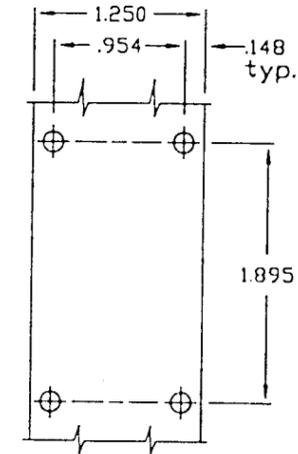
① SIDE FRAME
MAT'L ALUM. 6063-T6



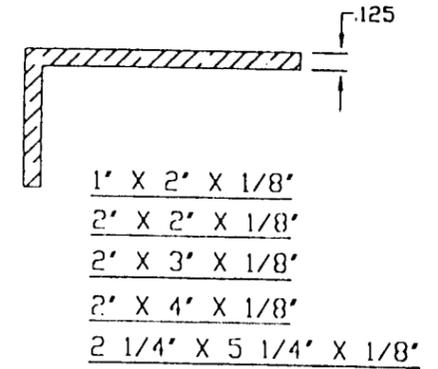
② MULLION
MAT'L ALUM. 6063-T6



③ SLAT
MAT'L ALUM. 6061-T6



④ .090 THK.
SLAT JOINING EXTRUSION
MAT'L ALUM. 6063-T6

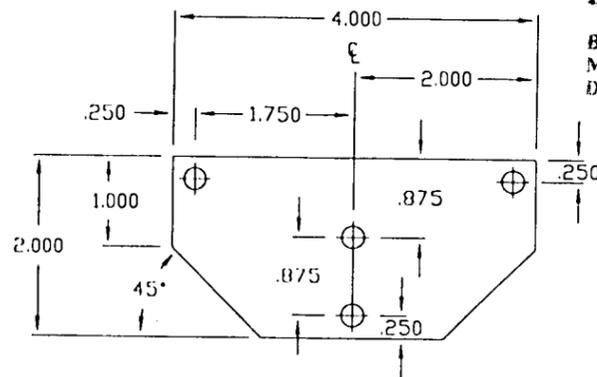


⑤ ANGLES
MAT'L ALUM. 6063-T6

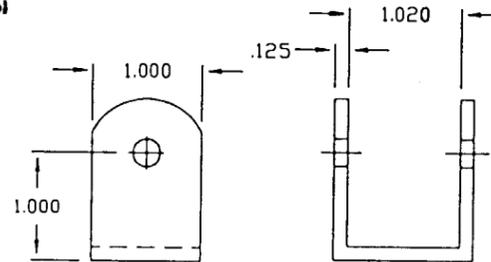
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-0926.06
Expiration Date 08/27/06

By *[Signature]*
Miami Dade Product Control
Division

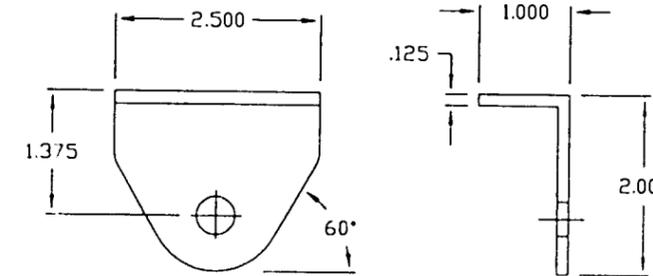
1/4"-20 N.C.
SPLINE BOLT



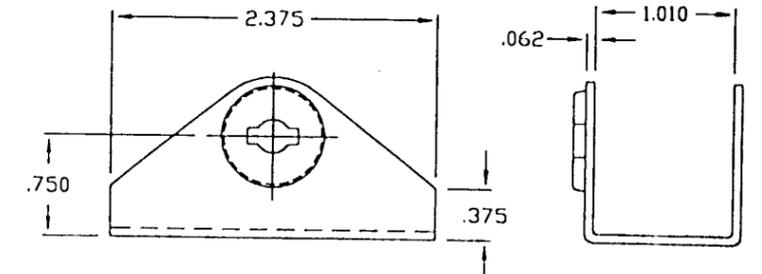
⑥ WALL PLATE
MAT'L ALUM. 6063-T6



⑦ 'U' HINGE
MAT'L ALUM. 6063-T6



⑧ TIE DOWN CLIP
MAT'L ALUM. 6063-T6

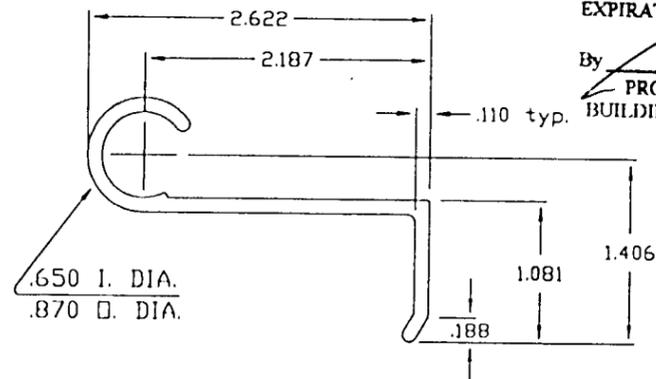


⑨ ALUM. CAMEL BACK HINGE

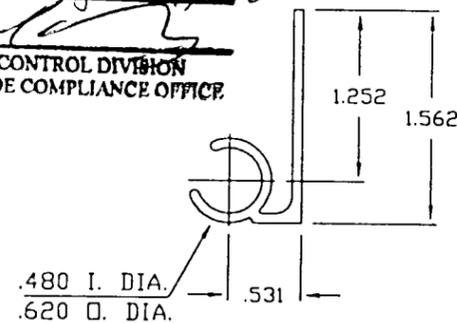
PRODUCT RENEWED

ACCEPTANCE No. 01-0905.07
EXPIRATION DATE August 27, 2006

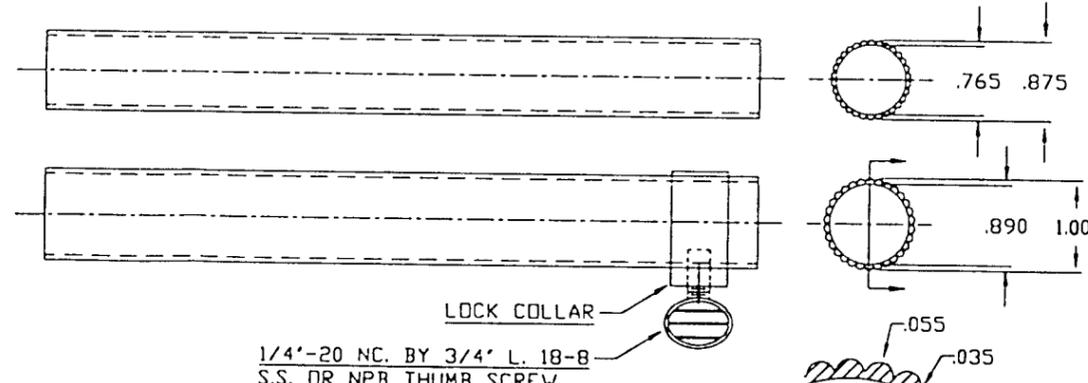
By *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE



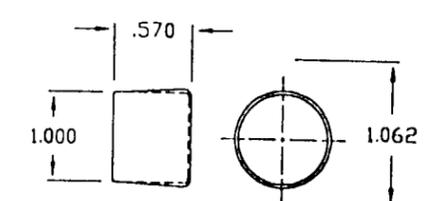
⑩ MOUNTING HINGE
(FEMALE)
MAT'L ALUM. 6063-T6



⑪ MOUNTING HINGE
(MALE)
MAT'L ALUM. 6063-T6



⑫ .055 THK. SERRATED ALUMINUM
TUBES TELESCOPIC



⑬ PLASTIC END CAP
ON EXTENDED ARMS

JENKINS & CHARLAND
American Consulting
Engineers Council Member
Supporting Excellence
in Engineering

2539 N.W. 33rd Street
Fort Lauderdale, FL 33309
407-484-7777

7/15/98
PROF. ENGINEER
GENE S. SANDERS
FLA. PE # 26590

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE August 27 1998
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE No. 97-0731.04

BERNARDO SHUTTER CORPORATION
Pompano Beach, Florida 33060
SCALE: N.T.S. DRAWING NUMBER 96-100 DRAWN BY: S.V.
DATE: 11-1-96 REV: 7-15-98

**BAHAMA
COMPONENTS**

PAGE NUMBER
6 OF 6