



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
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Dorma Automatics, Inc.
924 Sherwood Drive
Lake Bluff, IL 60044

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: Series ESA 300 Aluminum Automatic Sliding Glass Door -LMI

APPROVAL DOCUMENT: Drawing No. **05-DOA-0004**, titled "ESA 300 Series Automatic Sliding Glass Doors (Large Missile Impact Resistant)", sheets 1 through 4 of 4, prepared by manufacturer, dated 05/09/06, and last revised on 11/06/06, signed and sealed by Frank L. Bennardo, P.E., bearing 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.

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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



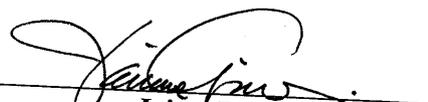
J. Gascon
1/10/07

NOA No 06-0518.04
Expiration Date: February 01, 2012
Approval Date: February 01, 2007
Page 1

Dorma Automatics, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. **DRAWINGS**
1. Manufacturer's die drawings and sections.
 2. Drawing No. **05-DOA-0004**, titled "ESA 300 Series Automatic Sliding Glass Doors (Large Missile Impact Resistant)", sheets 1 through 4 of 4, prepared by manufacturer, dated 05/09/06, and last revised on 11/06/06, signed and sealed by Frank L. Bennardo, P.E.
- B. **TESTS**
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an automatic aluminum sliding glass door, prepared by Hurricane Test Laboratory, LLC, Test Report No(s) **HTL-0357-0326-05** and **HTL-0357-0606-05**, dated 05/25/05-09/09/05, signed and sealed by Vinu J. Abraham, P.E.
- C. **CALCULATIONS**
1. Anchor verification calculation dated 04/28/06, complying w/ FBC 2004, prepared by Frank L. Bennardo, P.E., Inc., signed and sealed by Dr. Humayoun Farooq, P.E.
 2. Glazing complies with ASTM E-1300-98.
- D. **QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. **MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **04-0818.01** issued to E.I. DuPont DeNemours for "Sentry Glass ® Type 457", dated 01/13/05, expiring on 01/13/10.
 2. Notice of Acceptance No. **05-1208.02** issued to Solutia Inc. for "Vanceca TM Composite Interlayer" dated 12/11/03, expiring on 12/11/08.
- None
- F. **STATEMENTS**
1. Statement letter of compliance w/FBC-2004 and no financial interest, signed by Frank L. Bernnardo, P.E., dated 05/09/06.
- G. **OTHER**
1. Letter from the consultant stating that the product is in compliance with the Florida Building Code.


Jaime D. Gascon, P. E.

Chief, Product Control Division
NOA No 06-0518.04

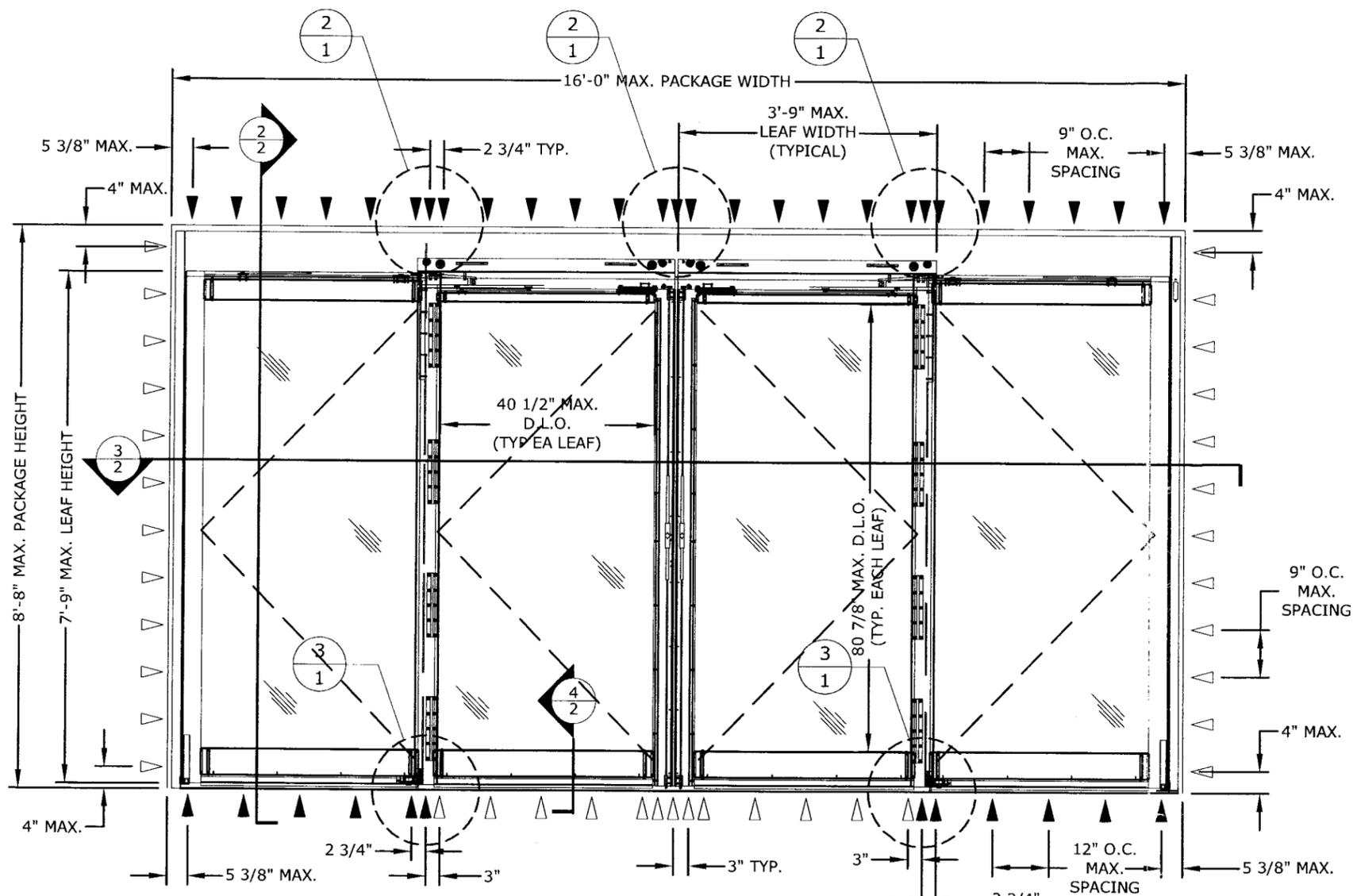
Expiration Date: February 01, 2012
Approval Date: February 01, 2007

ESA 300 AUTOMATIC SLIDING GLASS DOOR

LARGE MISSILE IMPACT RESISTANT - FULL BREAKOUT

FRANK L. BENNARDO, P.E.
PE0046549

12/20/2006



EXTERIOR ELEVATION
 1 SO-SX-SX-SO (CONFIGURATION)
 1 N.T.S. ELEV.

DESIGN PRESSURE RATING			
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED.	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED.	
GLAZING TYPES	"B" OR "C" *	"B" *	"C" *
POSITIVE	NOT APPROVED	+ 55.0 PSF	+ 52.4 PSF
NEGATIVE	NOT APPROVED	- 55.0 PSF	- 52.4 PSF

* SEE GLAZING SCHEDULE ON SHEET "2"

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED & DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE - HIGH VELOCITY HURRICANE ZONE (HVHZ) - AND HVHZ TEST PROTOCOL TAS 201, 202 & 203 AS LARGE MISSILE IMPACT RESISTANT SYSTEM.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE & NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. WHERE SITE CONDITIONS DIFFER FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND ADDITIONAL IMPOSED LOADS. WOOD BUCKS NOT BY THIS PRODUCT MANUFACTURER SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE HOST STRUCTURE.
- THE PRODUCT DETAILED HEREIN HAS BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS & LOADS SHOWN ON THESE DRAWINGS.
- ALL ALUMINUM EXTRUSIONS ARE 6063-T5 OR 6063-T6 ALUMINUM.
- ALL UNITS ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS FOR ALL EXTERIOR DOOR INSTALLATIONS.
- ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, SPACED AS NOTED HEREIN. ANCHOR EMBEDMENT TO BASE MATERIAL DOES NOT INCLUDE WALL DRESSING OR STUCCO.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, EXCEPT INSTALLATION ANCHORS.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR COATED.
- STRUCTURAL SILICONE ADHESIVE IS APPLIED ATOP OF HEADER, JAMBS, AND BELOW SIDE GUIDE, SPACER, AND THRESHOLDS.

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 160 SW 12th AVENUE, #106
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 CERTIFICATE OF AUTHORIZATION: #9885
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 WWW.ENGINEERINGEXPRESS.COM

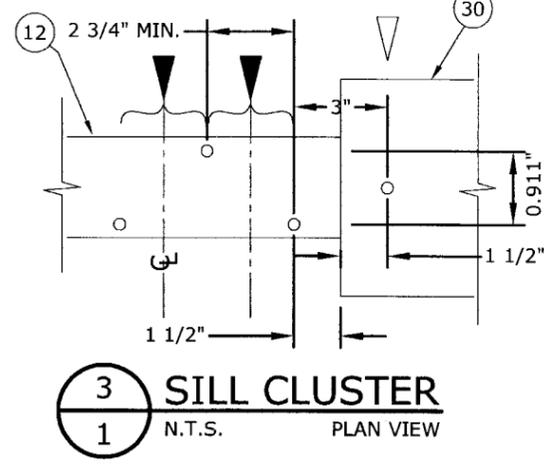
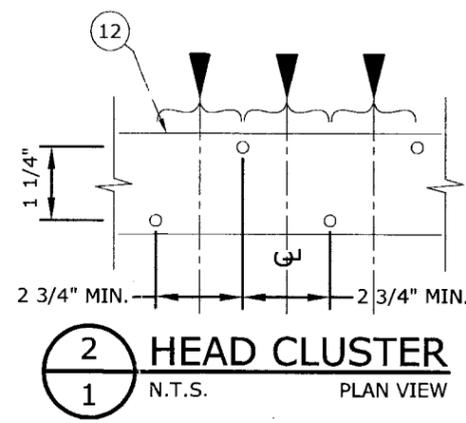
DORMA AUTOMATICS
 924 SHERWOOD DRIVE
 LAKE BLUFF, ILLINOIS 60044
 WWW.DORMA-USA.COM
 ESA 300 SERIES
 AUTOMATIC SLIDING GLASS DOORS
 (LARGE MISSILE IMPACT RESISTANT)

DATE	DRWN	CHKD	INIT	ISSUE	COUNTY	COMMENTS
5/9/06	AML	CL	CL			
11/6/06						

Approved as complying with the Florida Building Code
 Date: 02/01/07
 MO: 06-0518-04
 Miami Code Product Control
 Division: *James P...*
 05-DOA-0004
 SCALE: N.T.S. 01
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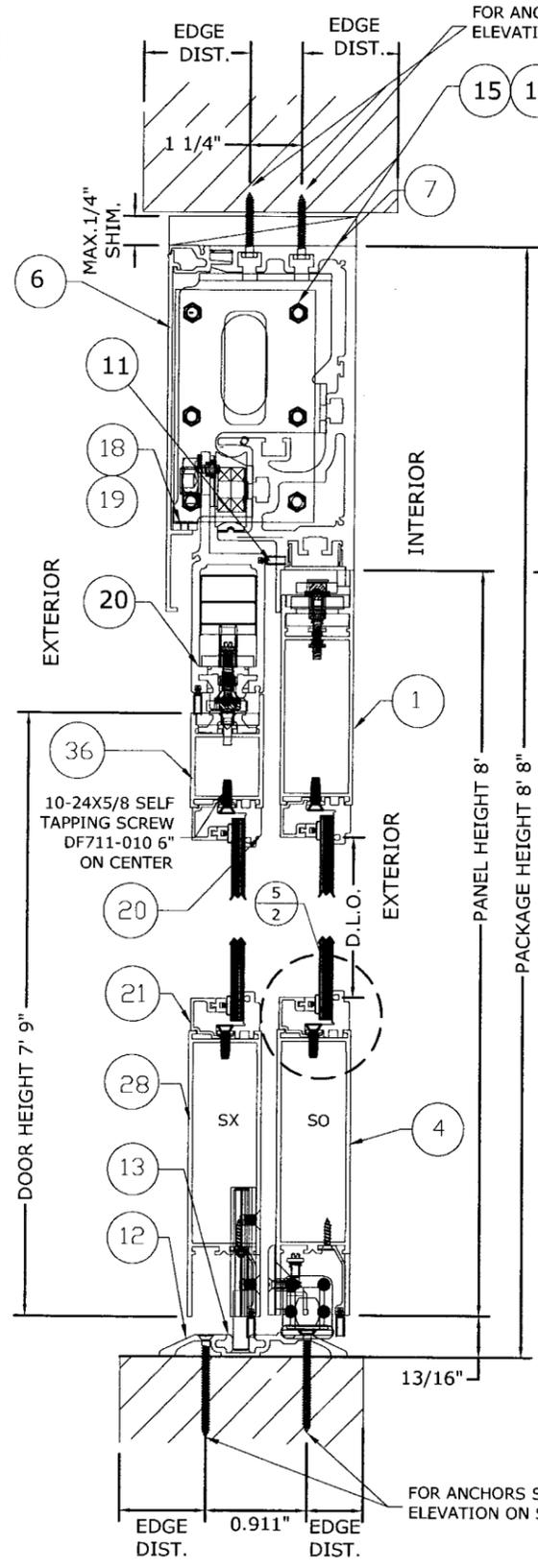
ANCHOR LEGEND:

- ▽ INDICATES SINGLE ANCHOR
- ▼ INDICATES STAGGERED PAIR OF ANCHORS (CENTERLINE SHOWN ON ELEVATION)

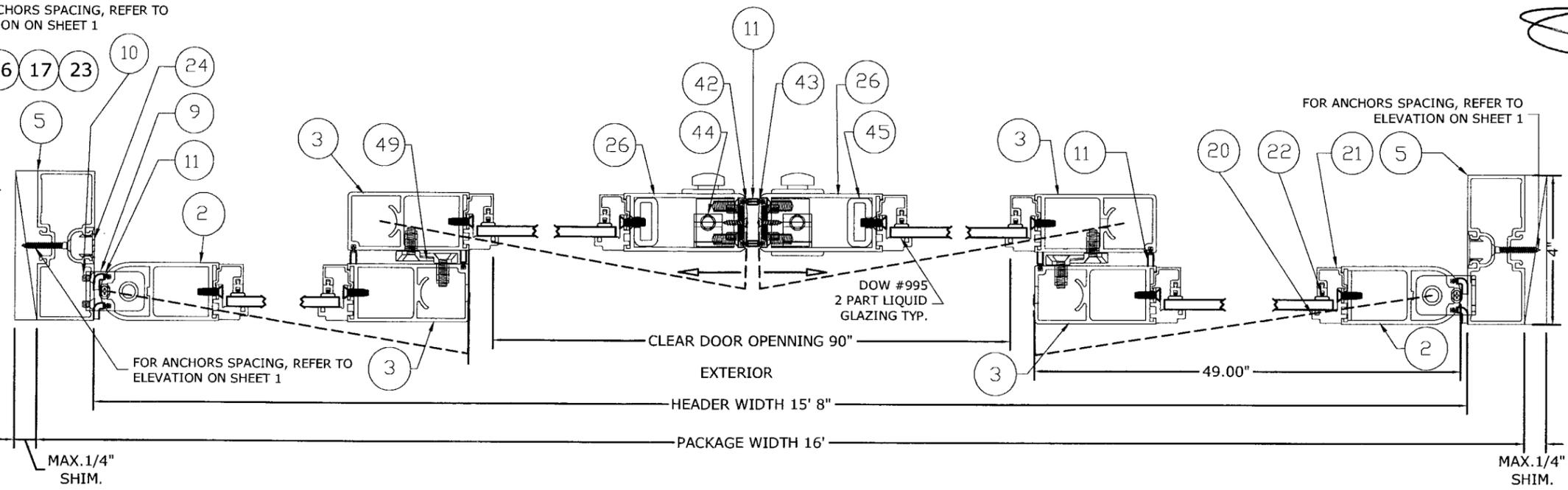


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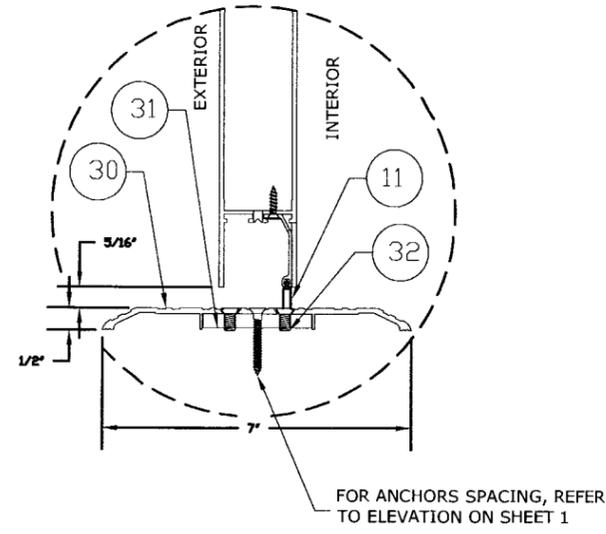
2 **TYPICAL VERTICAL SECTION (SHOWN IN OPEN POSITION)**
 2 N.T.S. VERT. SECTION



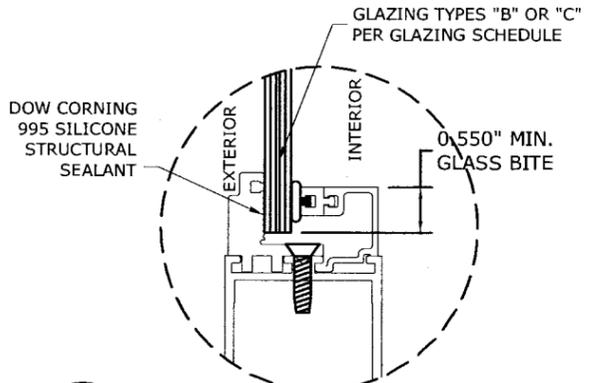
3 **TYPICAL HORIZONTAL SECTION SO-SX-SX-SO (CONFIGURATION)**
 2 N.T.S. HORIZ. SECTION

- ANCHOR SCHEDULE:**
- 1/4" ELCO TAPCONS WITH 1 1/4" MIN. EMBED. INTO MIN. 3000 PSI CONCRETE (2 1/2" MIN. EDGE DISTANCE)
 - #14 METAL SCREWS TO A36 STEEL OR MIN. 6063-T5 ALUM. ALLOY (1/8" MIN. THICK)
 - #14 METAL SCREWS WITH 1 1/2" MIN. THREAD PENETRATION TO WOOD, 1" MIN. E.D. (G=0.55 OR GREATER)

- ANCHOR NOTES:**
1. ANY ANCHOR LISTED IN ANCHOR SCHEDULE ABOVE MAY BE USED AT LOCATIONS/SPACING SPECIFIED IN SECTION DETAILS.
 2. ANCHORS SHALL BE INSTALLED PER MANUFACTURERS' RECOMMENDATIONS.



4 **BI-PART THRESHOLD**
 2 N.T.S. VERT. SECTION



5 **GLAZING DETAIL**
 2 N.T.S. DETAIL

- GLAZING SCHEDULE:**
- (B) 1/4" HS - 0.045 DUPONT BUTACITE PVB INTERLAYER - 0.007" DUPONT ABRASION-RESISTANT POLYESTER
 - (C) 1/8" HS - 0.075 SOLUTIA VANCEVA INTERLAYER - 1/8" HS

Approved as complying with the Florida Building Code
 Date 02/01/07
 NOA# 06-0518-04
 Miami Code Product Control Division
 By *[Signature]*

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 CERTIFICATE OF AUTHORIZATION: #9865

DORMA AUTOMATICS
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DORMA

ESA 300 SERIES
 AUTOMATIC SLIDING GLASS DOORS
 (LARGE MISSILE IMPACT RESISTANT)

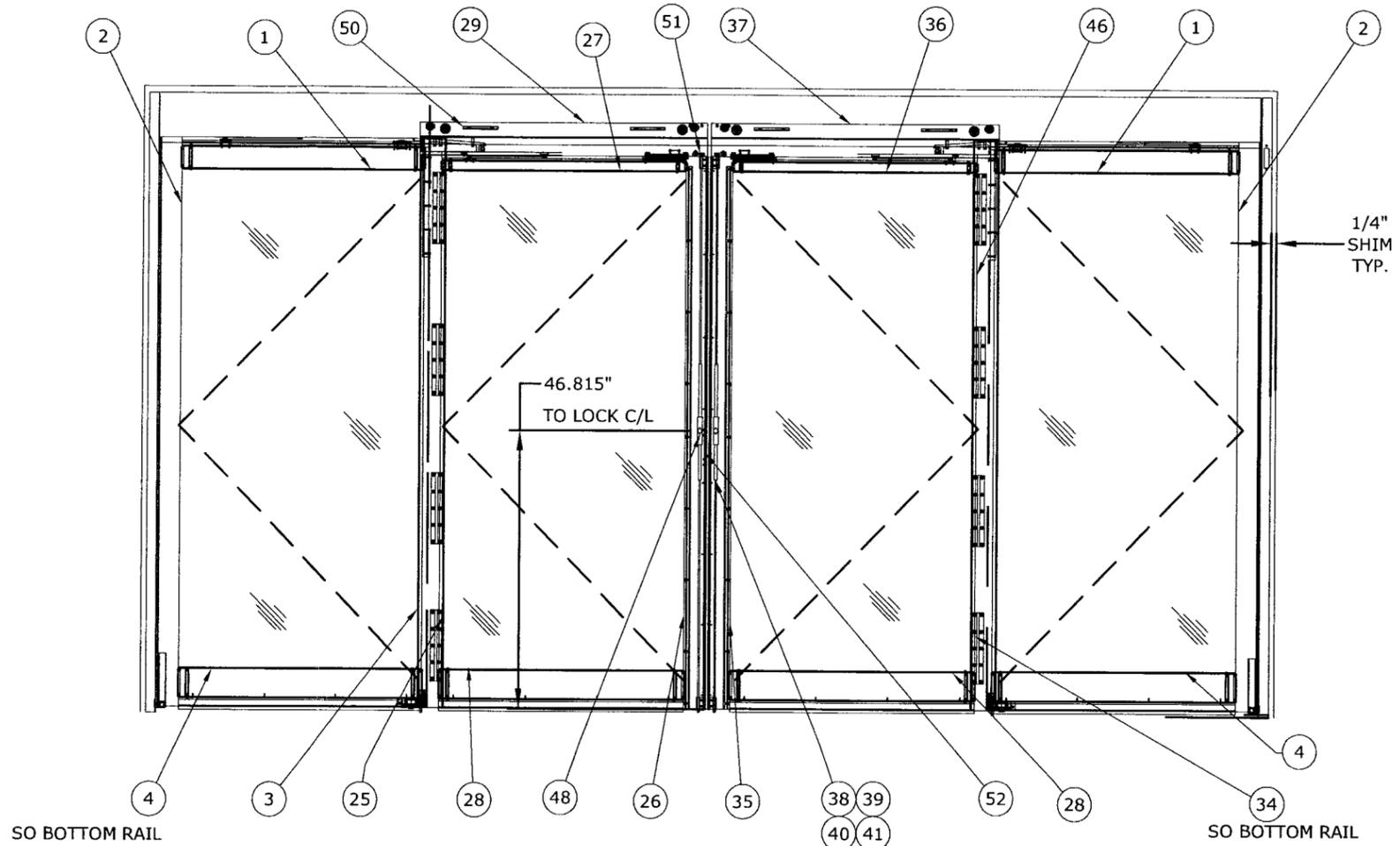
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AWL	CL
INIT/ISSUE	
COUNTY COMMENTS	

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BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	MATERIAL	QUANT
1	DE0199-03	SO TOP RAIL ASSEMBLY ESA300		2
2	DE0203-01	SO PIVOT ASSEMBLY ESA300		2
3	DE0202-01	SO INTERLOCK / PIVOT RAIL ASSEMBLY ESA300		2
4	DE0186-01	SO BOTTOM RAIL ASSEMBLY ESA300		2
5	DE0200-01	JAMB DOUBLE POCKET		1
6	DE0158-03	HEADER FACEPLATE		1
7	DE0155-04	HEADER ASSEMBLY (REGULAR)		1
8	DE0159-02	HEADER ADAPTER		1
9	DS1979-010	SO BTM PIVOT ASSEMBLY		2
10	DF0628-00G	10-24X3/4 PHILPS FL CS.SS		8
11	DE2212-020	WEATHERSTRIP "13.4mm"		16
12	DE0195-010	BOTTOM TRACK		1
13	DE0234-010	TRACK CAP		1
14	DC2185-010	SIDE CARRIER		2
15	DC1498-010	HEADER BACK BLOCK		2
16	DF0728-01Z	1/4-20X1" HX-HD MS GR5 ZINC		10
17	DF0939-01Z	A6.4(M6) SPRING WASHER ZINC		10
18	DC0831-010	COVER HOLDING BAR		1
19	DF0999-01Z	10-24X3/4" PH FL HD UNC ZINC		4
20	DE1767-010	GLASS STOP EXT.		1
21	DE0210-010	GLASS STOP 1/4" SNAP		1
22	DE0148-020	GLAZING BEAD CO-EXTRUSION		1
23	DF0385-010	RIVET NUT 1/4-20 SF UNC IFC STEEL		10
24	DE0206-010	JAMB DOUBLE POCKET FILLER		1
25				
26	DE0201-02	VERTICAL LOCK RAIL		1
27	DS1727-010	SX TOP RAIL ASSEMBLY ESA300		1
28	DE0188-01	SX BOTTOM RAIL ASSEMBLY ESA300		2
29	DS1724-010	CARRIER ASSEMBLY		1
30	DE0246-01A	THRESHOLD BI-PART (MACHINED)		1
31	DC0837-010	BOTTOM PLATE		1
32	DF0848-01Z	1/4-20X1/2 FL HD SOC SC ZINC		4
33				
34	DS1831-010	SX PIVOT ASSEMBLY ESA300		1
35				
36	DE0162-020	SX TOP RAIL ASSEMBLY ESA300		1
37	DS1833-010	CARRIER ASSEMBLY		1
38	DC0572-00A	LOCK CYLINDER RING CLEAR/DC0572-00B		1
39	DC0571-00A	KEY LOCK CYLINDER -CLEAR/ DC0571-00B		1
40	DC0621-00A	THUMB KEY-CLEAR/ DC0621-00B-DARK BRONZE		1
41	DC2057-010	3 POINTS CONVERTER ADAMS RITE P/N "MS 4016-20-02"		1
42	DC1766-010	ASTRAGAL- L.H		1
43	DC1701-010	ASTRAGAL- R.H		1
44	DC1497-010	LATCH BLOCK		4
45	DC1700-010	PUSH BAR		2
46	DS1827-010	SO-INTERLOCK RAIL ASSEMBLY		1
47				
48	DC2055-010	2 WAY BOLT ADAMS RITE P/N "MS 1880-03-682"		1
49	DC0836-010	BREAKOUT INTERLOCK CLIP		4
50	DC0838-010	ANTI-DERAIL BLOCK		4
51	DC1978-01Z	BREAKOUT STOP		2
52	DC2492-01Z	CATCH PLATE		1



6 EXTERIOR ELEVATION
1 N.T.S. ELEV.

INSTALL 3 POINTS CONVERTER ADAMS RITE P/N "MS 4016-20-02" THUMBTURN TO FACE INTERIOR ONLY.

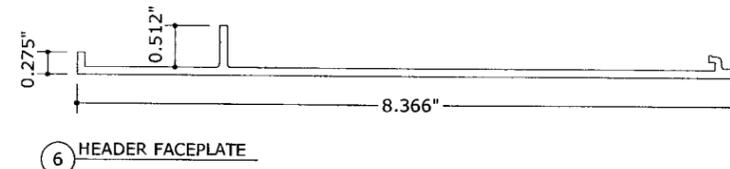
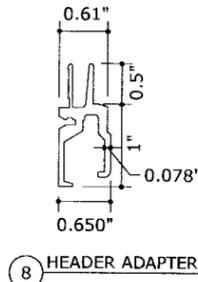
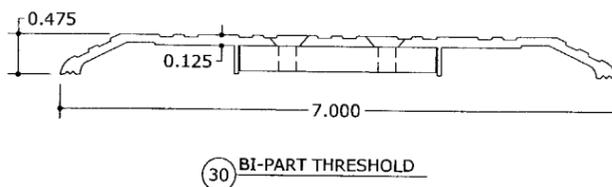
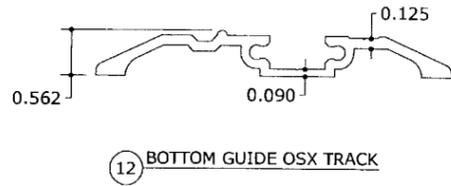
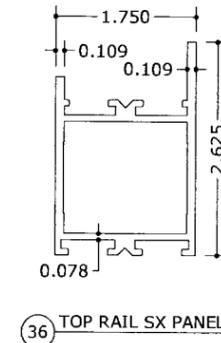
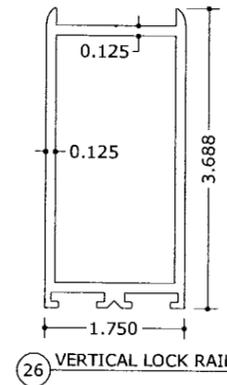
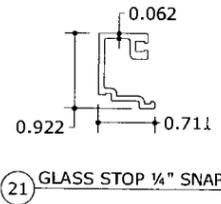
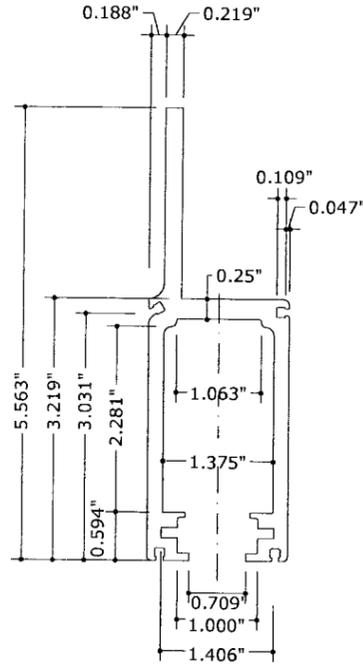
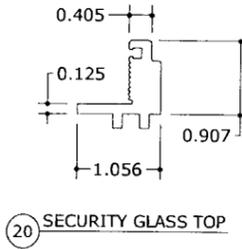
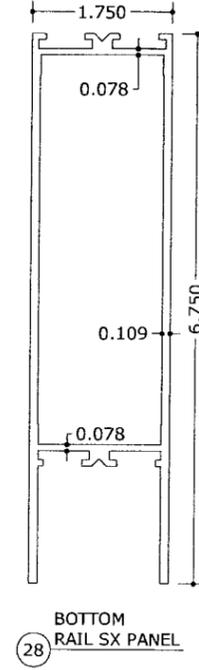
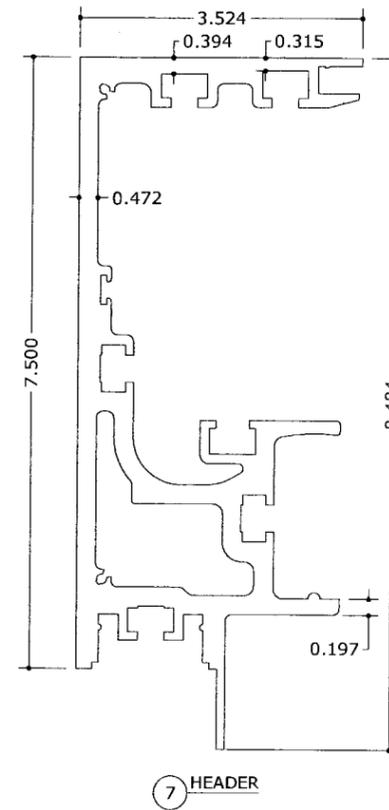
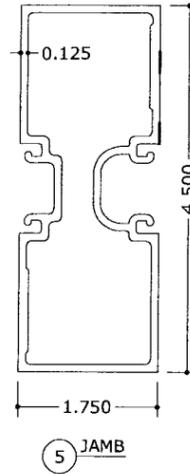
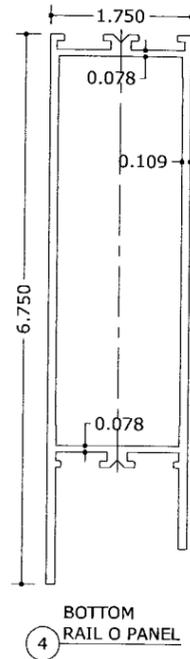
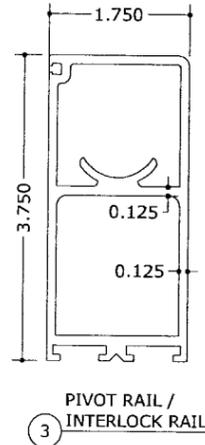
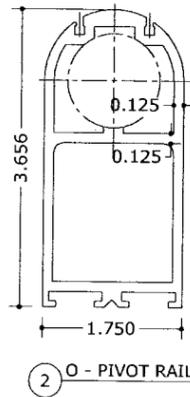
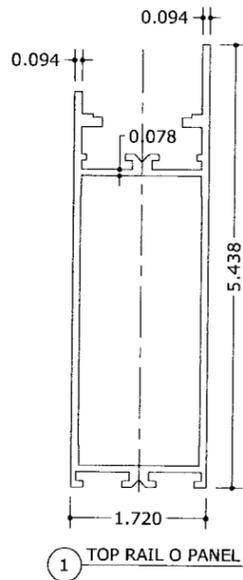
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 Minimal State Product Control
 Division
 By: *[Signature]*

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 # PE0046549
 12/20/2006
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 160 SW 12th AVENUE, #106
 DEERFIELD BEACH, FL 33442
 PH: (954) 354-0660 FAX: (954) 354-0443
 CERTIFICATE OF AUTHORIZATION: #9885
 Creators Of
ENGINEERING EXPRESS
 WWW.ENGINEXP.COM

DORMA AUTOMATICS
 924 SHERWOOD DRIVE
 LAKE BLUFF, ILLINOIS 60044
 WWW.DORMA-USA.COM
 ESA 300 SERIES
 AUTOMATIC SLIDING GLASS DOORS
 (LARGE MISSILE IMPACT RESISTANT)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	AML	CL	5/9/06
COUNTY COMMENTS		CL	11/6/06

05-DOA-0004
 SCALE: N.T.S. 01
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