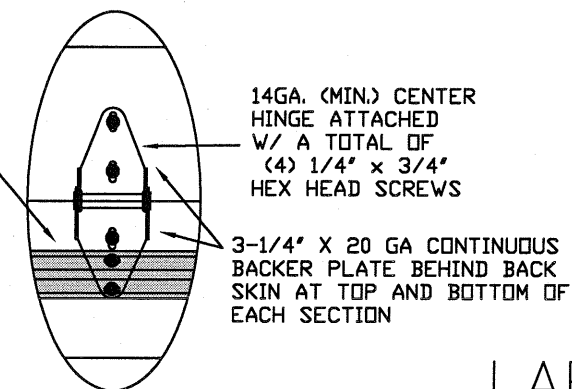
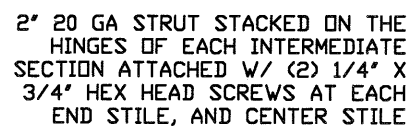
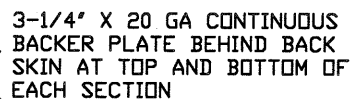
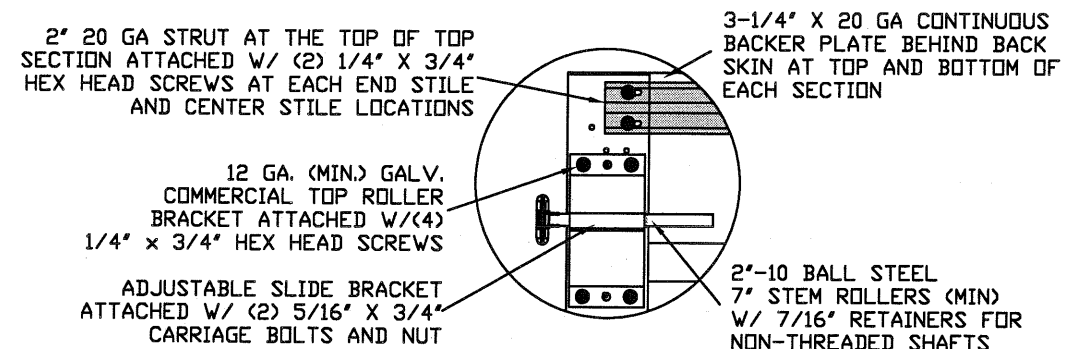
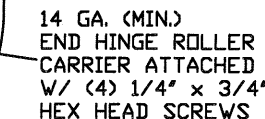
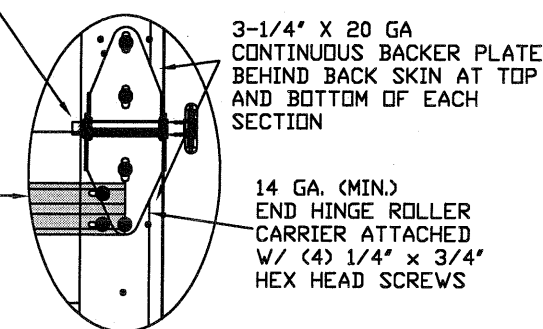
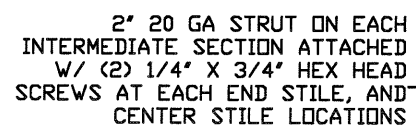
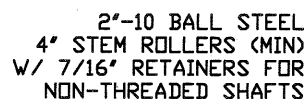
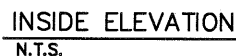
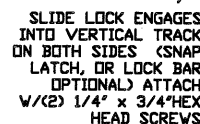
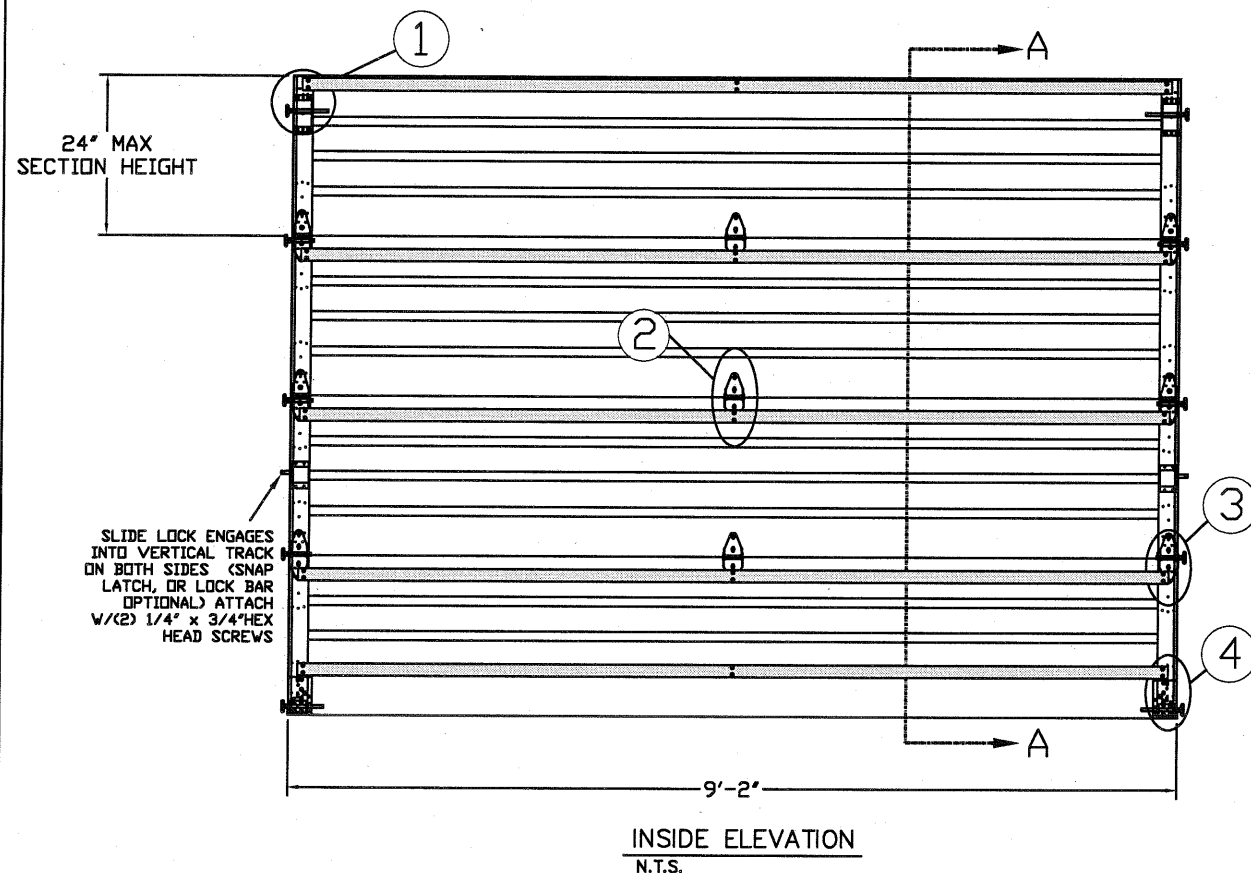
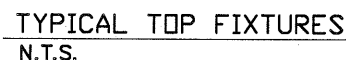
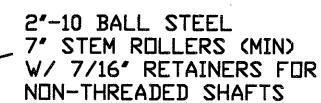
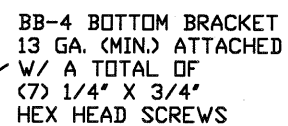
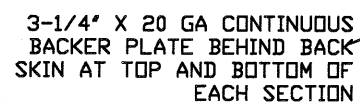
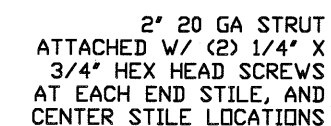


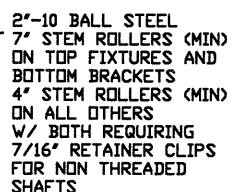
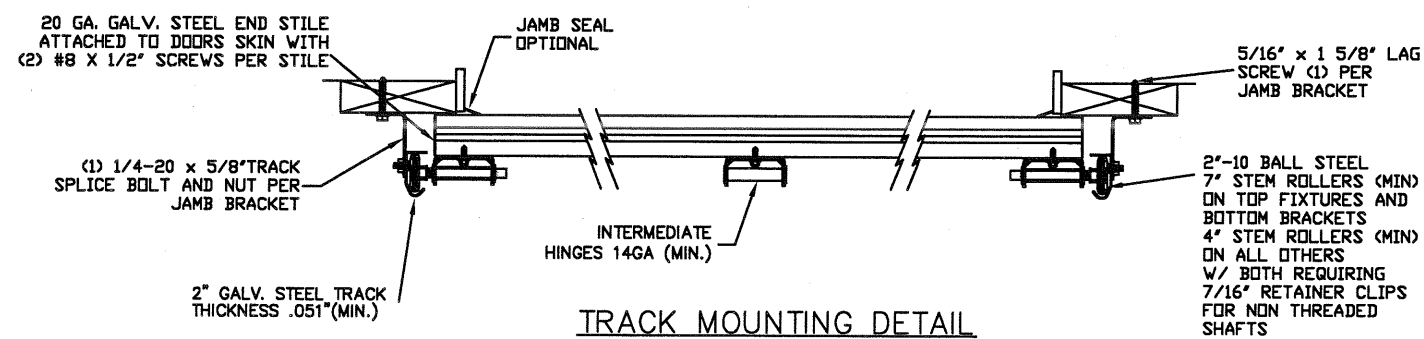
LARGE
MISSILE
IMPACT
RESISTANCE



TYPICAL END HINGE
N.T.S.

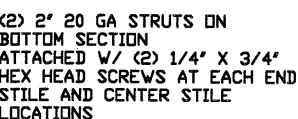
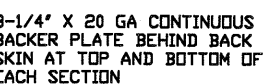
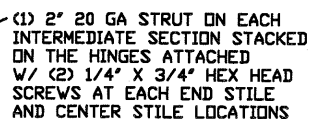
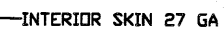
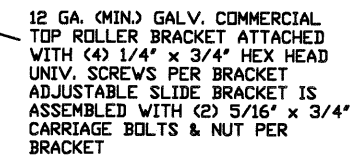
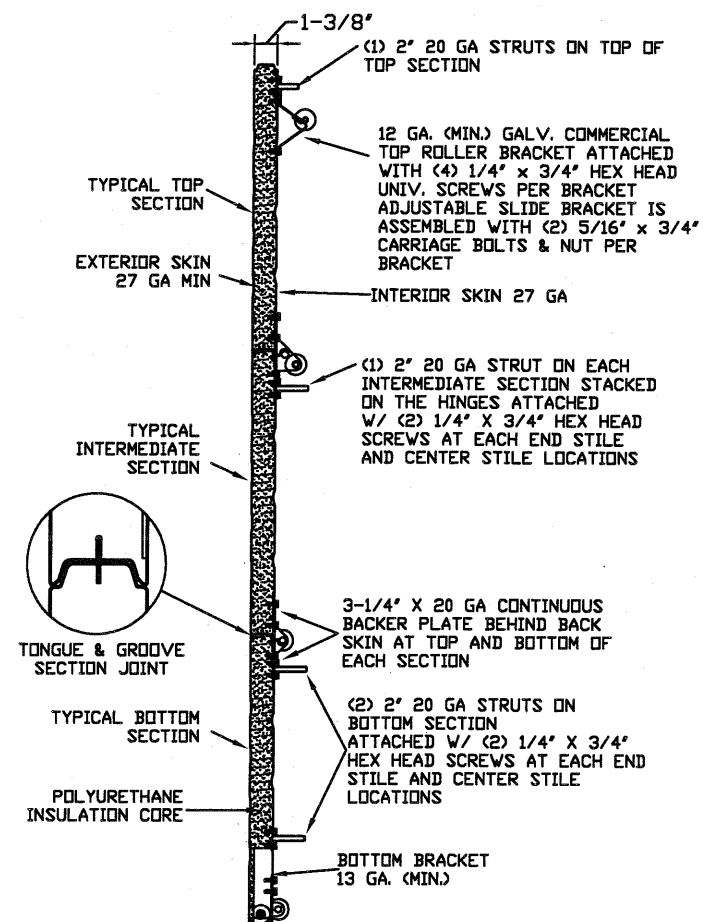


TYPICAL BOTTOM BRACKET
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

EDGE OF DOOR 1" OVERLAP ON EACH SIDE



SECTION A-A (SIDE VIEW)

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9'2" x 24'

DESIGN LOADS
+24.3 PSF
-28.5 PSF

TEST LOADS
+36.5 PSF
-42.8 PSF

LARGE MISSILE
IMPACT
RESISTANCE

FL

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

dbs Structural Solutions of North Carolina, Inc.
2924 G.W. Center Dr., Suite 200
Charlotte, NC 28211
Tel: 704.366.1111
Fax: 704.366.1112
www.dbsinc.com

MAX SIZE
9'2" x 24'
DESIGN LOADS
+24.3 PSF
-28.5 PSF
TEST LOADS
+36.5 PSF
-42.8 PSF

DESIGN LOADS
+24.3 PSF
-28.5 PSF

TEST LOADS
+36.5 PSF
-42.8 PSF

**LARGE MISSILE
IMPACT
RESISTANCE**

Thomas L. Sheldermine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

THOMAS L. SHELDERMINE
LICENSE
No. 48579
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

FL

dba Structural Solutions of North Carolina, Inc.
301 G.W. F...

dba Structural Solutions of North Carolina, Inc.
5921 G.W. Friendly Ave. Greensboro, NC 27410

Amar

MODEL	1350	AMARR	2741
MODEL	2700	AMARR	2742
MODEL	2720	AMARR	2042

MODEL 2700 AMARR 2742

MODEL 2720 AMARR 2042

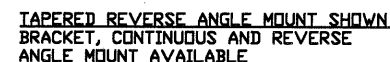
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B	CHECKED BY	DATE	
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 1 OF 3

ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105	SHEET 1 OF 3
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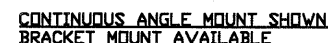


12 GA STEEL FRAMING
232 LBS/SCREW ALLOWABLE LOAD - 6' FROM ENDS AND 24' O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING
569 LBS/SCREW ALLOWABLE LOAD - 6' FROM ENDS AND 24' O.C.
REFER TO NOTES: 1, 2 AND 5



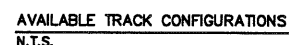
STEEL FRAMING 12GA OR GREATER
1590 LBS/IN ALLOWABLE LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9



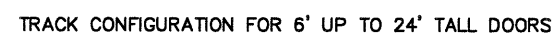
2000 PSI CONCRETE OR GREATER
351 LBS/EXPANSION ANCHOR ALLOWABLE LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



2000 PSI CONCRETE OR GREATER
336 LBS/SLEEVE ANCHOR ALLOWABLE LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



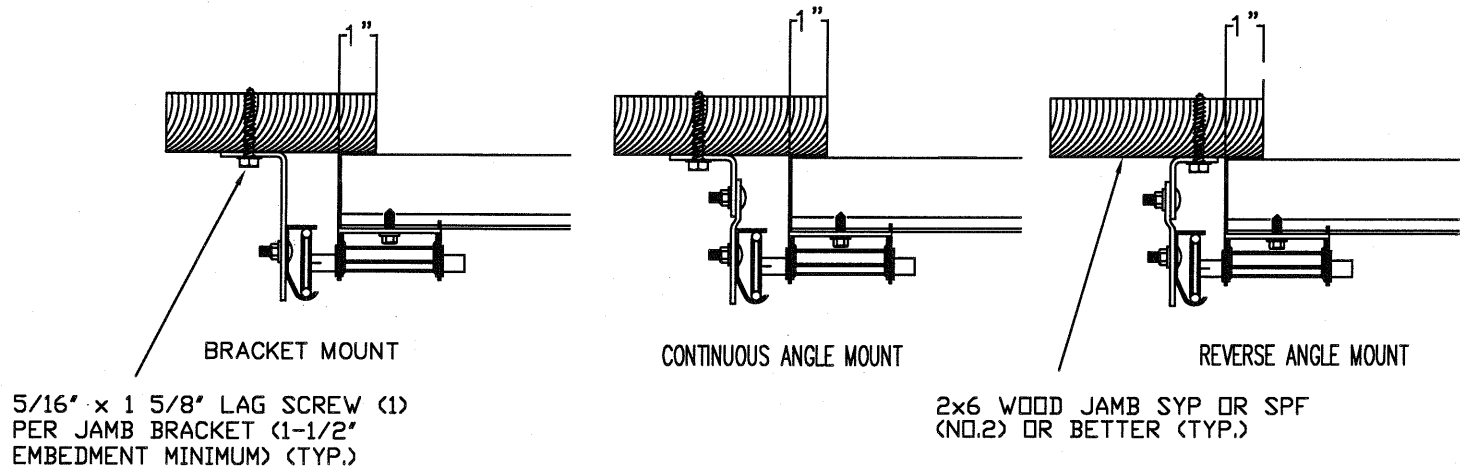
- NOTES:
1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
 2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
 3. MIN. EDGE DISTANCE OF 3" REQUIRED.
 4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
 5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
 6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
 7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
 8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
 9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2" x 24'	DESIGN LOADS +24.3 PSF -28.5 PSF	TEST LOADS +36.5 PSF -42.8 PSF	LARGE MISSILE IMPACT RESISTANCE
Thomas L. Shelmerdine, PE (FL PE #00048579) Structural Solutions, PA (FL Firm #29412) FL dba Structural Solutions of North Carolina, Inc.			
MODEL 1350 AMARR 2741 MODEL 2700 AMARR 2742 MODEL 2720 AMARR 2042			
SIZE	DRAWN BY	RLR	DATE 05/10/12
B	CHECKED BY		DATE
			DRAWING NUMBER
			IBC-1309-130-11-
ENTREMATIC			SHEET 2 OF 3
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			

TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE SHEET 2 TRACK CONFIGURATION DETAIL



WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

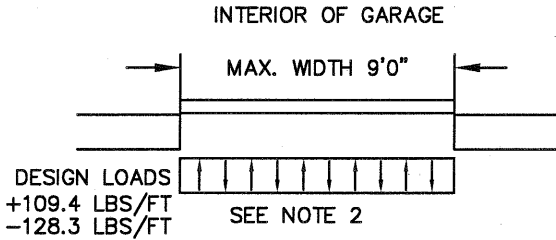
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 24" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 24" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT) (OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +109.4 LBS/FT & -128.3 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA MIN. INTERIOR AND EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 24'0" HIGH REQUIRE (2) 2" 20 GA STRUTS ON BOTTOM, (1) 2" 20 GA STRUT ON EACH INTERMEDIATE, AND (1) 2" 20 GA STRUT ON TOP SECTION.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

TABLE 1

Section Width (ft)		Center Stile Locations
		1st (in)
6'	0"	36.000
7'	0"	42.000
7'	2"	43.000
7'	4"	44.000
7'	6"	45.000
7'	8"	46.000
7'	10"	47.000
8'	0"	48.000
8'	2"	49.000
8'	4"	50.000
8'	6"	51.000
8'	8"	52.000
8'	10"	53.000
9'	0"	54.000
9'	2"	55.000

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE, 9'2" x 24"

DESIGN LOADS
+24.3 PSF
-28.5 PSF

TEST LOADS
+36.5 PSF
-42.8 PSF

LARGE MISSILE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

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No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Amarr

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165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 3 OF 3