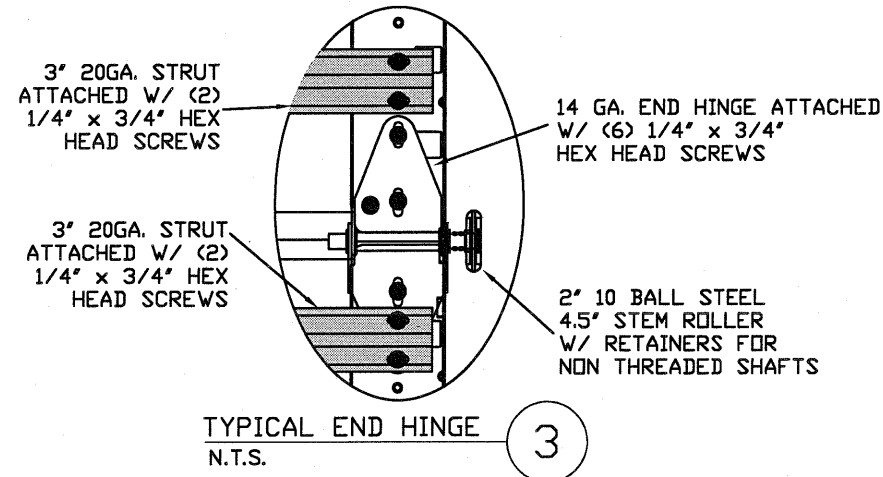
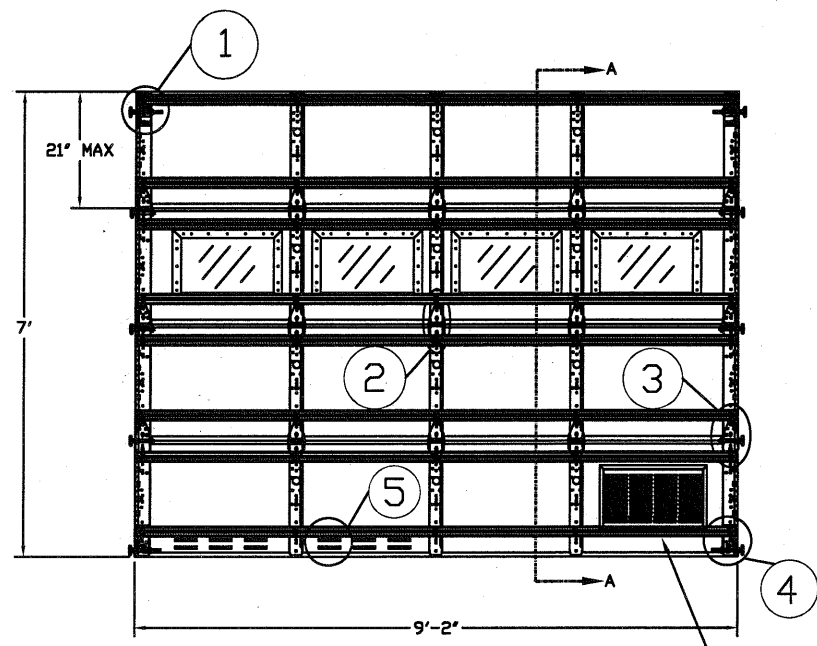
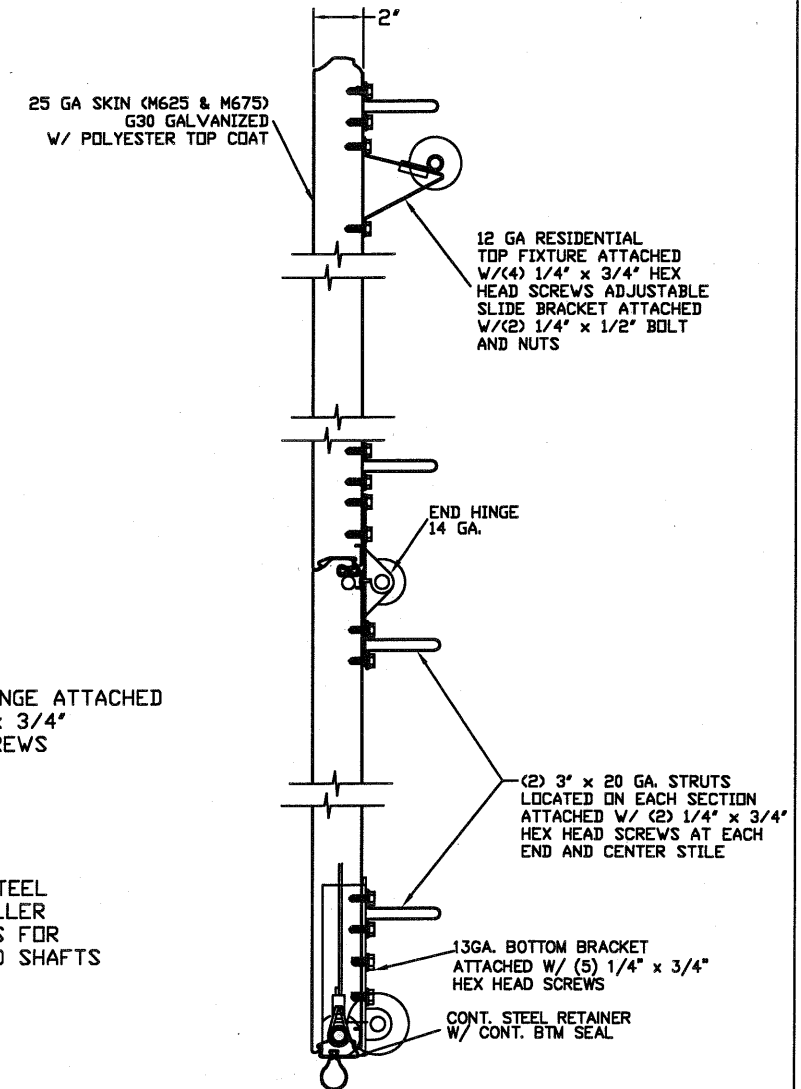
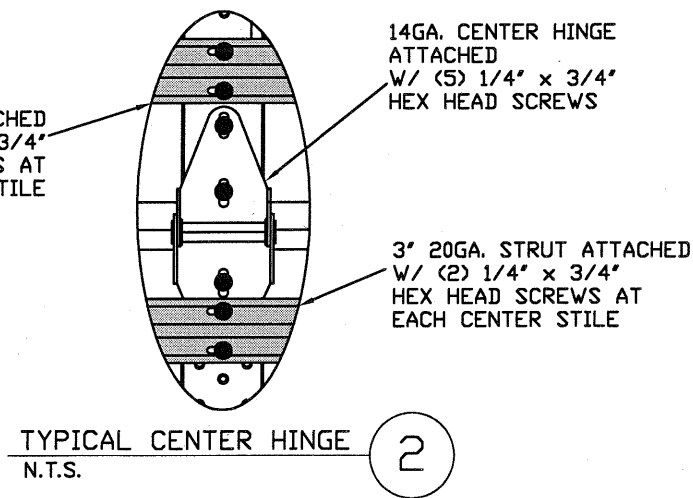
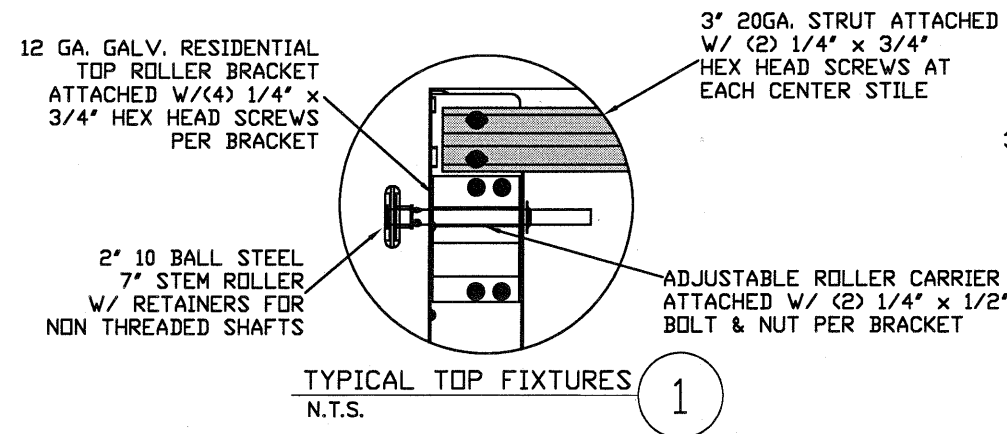




SECTION A-A (SIDE VIEW)
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9'2" x 14'

DESIGN LOADS
+45.2 PSF
-53.4 PSF

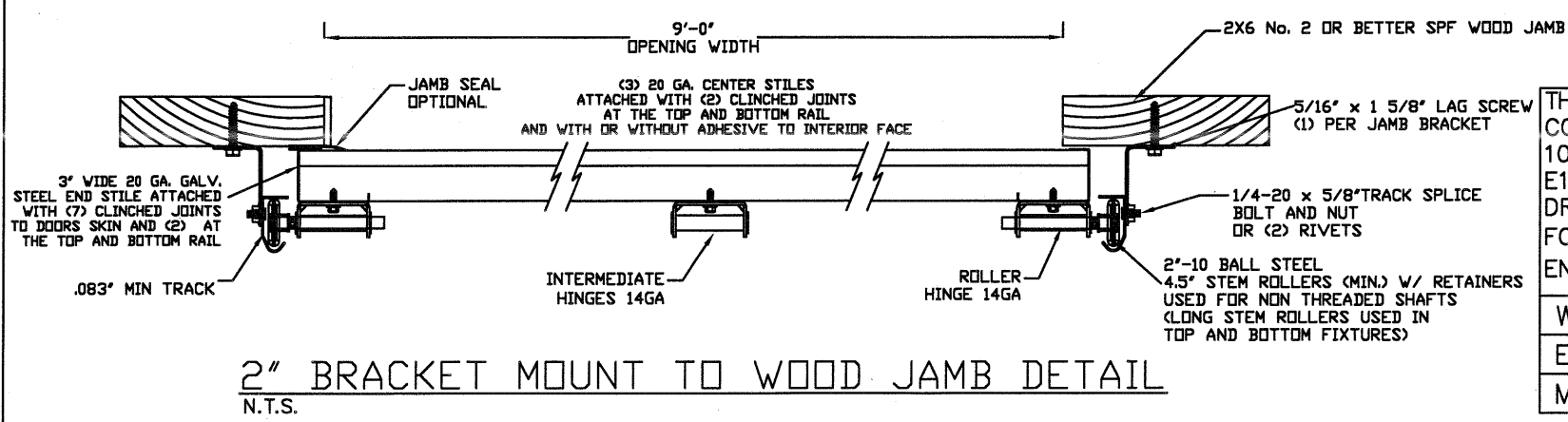
TEST LOADS
+67.8 PSF
-80.1 PSF

LARGE MISSILE
IMPACT
RESISTANCE

FL

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)
dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

LARGE MISSILE IMPACT RESISTANT



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASHA 108-05 & 115-05, AND ASTM E330-02, E1886-05, E1996-09, & F588-07. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	218	198	188	180	173
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

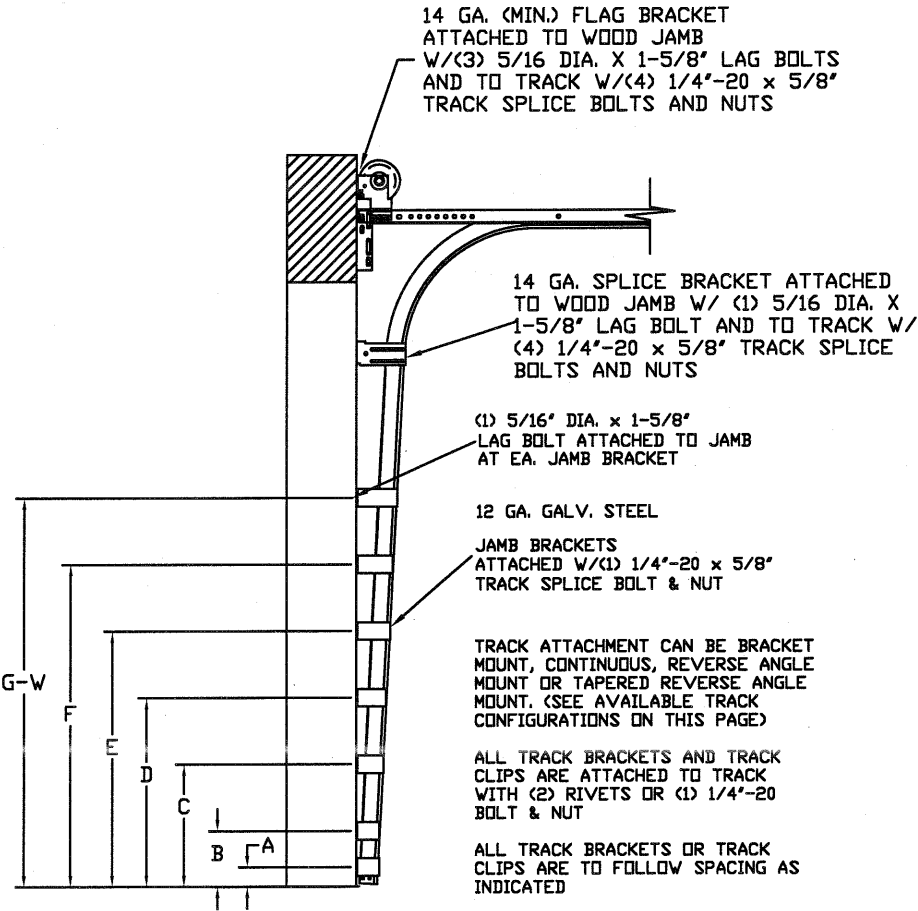
TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT																						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
7' 0"	3.5"	10.0"	22.0"	34"	46"	58"																	
7' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
10' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
11' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"													
12' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"												
13' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"											
14' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"										
15' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"									
16' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"								
17' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"							
18' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"						
19' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"					
20' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"				
21' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"			
22' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"		
23' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	
24' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"

ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY

TABLE 2

DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
14' 0"	21"	21"	21"	21"	21"	21"	21"	21"
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
13' 0"	21"	21"	21"	18"	18"	18"	18"	21"
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
12' 0"	21"	21"	21"	21"	21"	18"	21"	
11' 6"	21"	21"	21"	18"	18"	18"	21"	
11' 0"	21"	18"	18"	18"	18"	18"	21"	
10' 6"	21"	21"	21"	21"	21"	21"		
10' 0"	21"	21"	21"	18"	18"	21"		
9' 6"	21"	18"	18"	18"	18"	21"		
9' 0"	18"	18"	18"	18"	18"	18"		
8' 6"	21"	21"	21"	18"	21"			
8' 0"	21"	18"	18"	18"	21"			
7' 6"	18"	18"	18"	18"	18"			
7' 0"	21"	21"	21"	21"				
6' 6"	21"	18"	18"	21"				



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS
SEE TABLE 1

TABLE 3

Section Width (ft)	Panel Type	Center Stile Location (Measured from Left Edge)			Max Design Loads Allowed	
					Positive (PSF)	Negative (PSF)
8' 0	Short, Hillcrest	24.8	48.0	71.2	51.5	60.9
8' 2	Short, Hillcrest	25.8	49.0	72.2	50.5	59.6
8' 4	Short, Hillcrest	26.6	50.0	73.4	49.5	58.4
8' 6	Short, Hillcrest	26.7	51.0	75.3	48.5	57.3
8' 8	Short, Hillcrest	27.3	52.0	76.8	47.6	56.2
8' 10	Short, Hillcrest	28.0	53.0	78.0	46.7	55.1
9' 0	Short, Hillcrest	28.6	54.0	79.4	45.8	54.1
9' 2	Short, Hillcrest	29.4	55.0	80.6	45.2	53.4

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9'2 x 14'

DESIGN LOADS
+45.2 PSF
-53.4 PSF

TEST LOADS
+67.8 PSF
-80.1 PSF

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LICENSE
No. 48579
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

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

MODEL #625 AMARR LINCOLN 1000, 1500, 2000
MODEL #675 AMARR HILLCREST 1000, 1500, 2000

SIZE B	DRAWN BY RLR	DATE 11/9/17	DRAWING NUMBER IRC-6209-169-15-I
	CHECKED BY RLR	DATE 11/9/17	

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

SHEET 3 OF 3