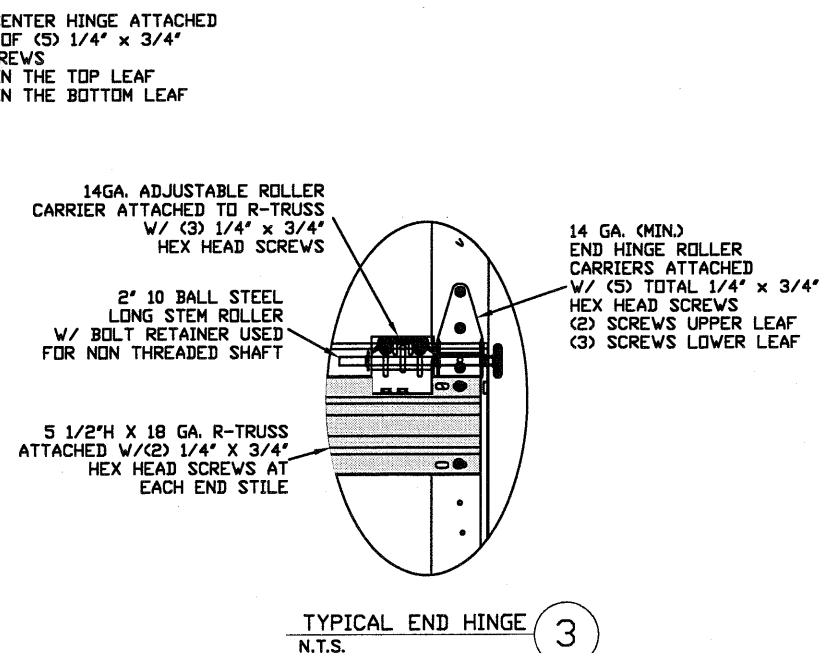
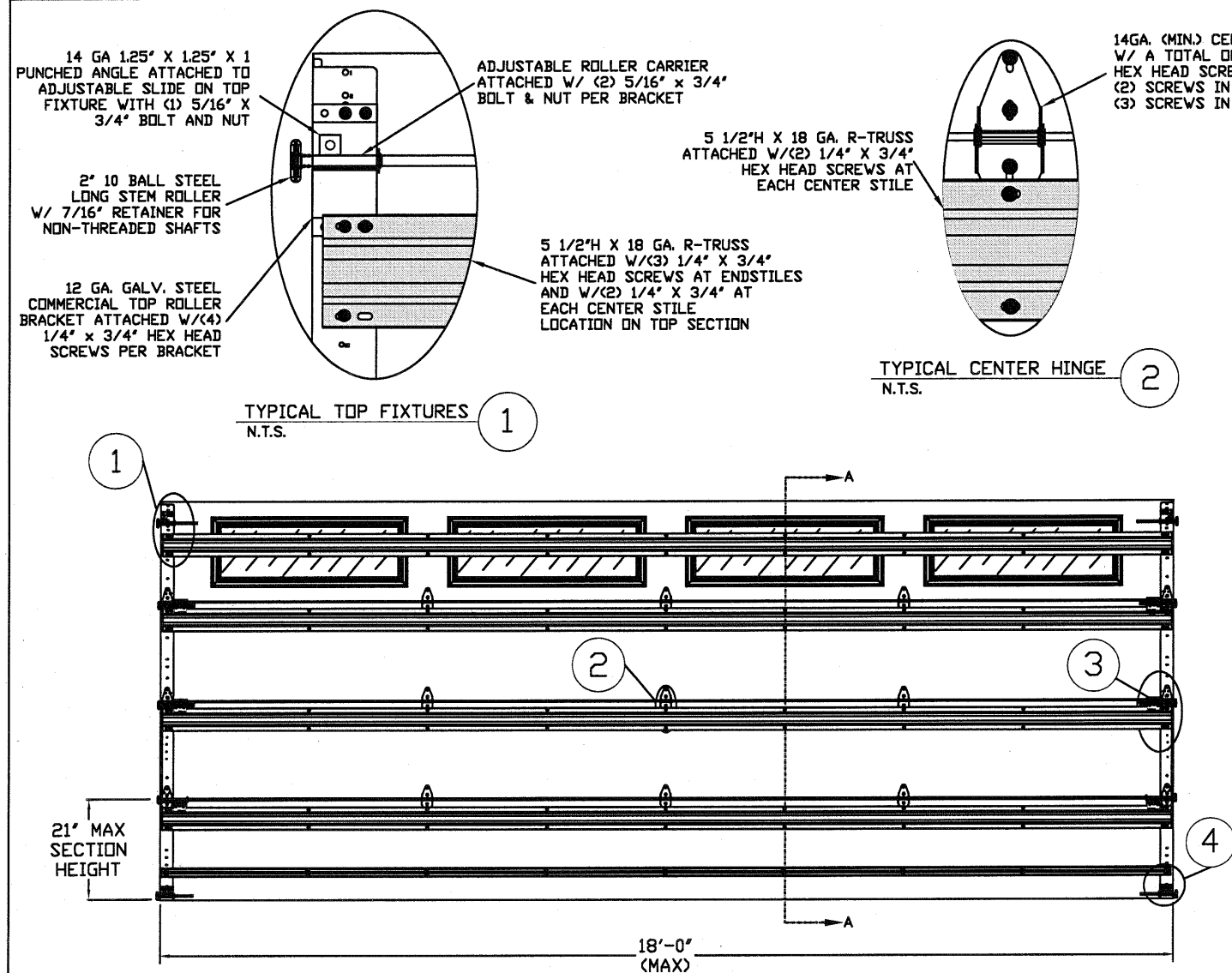
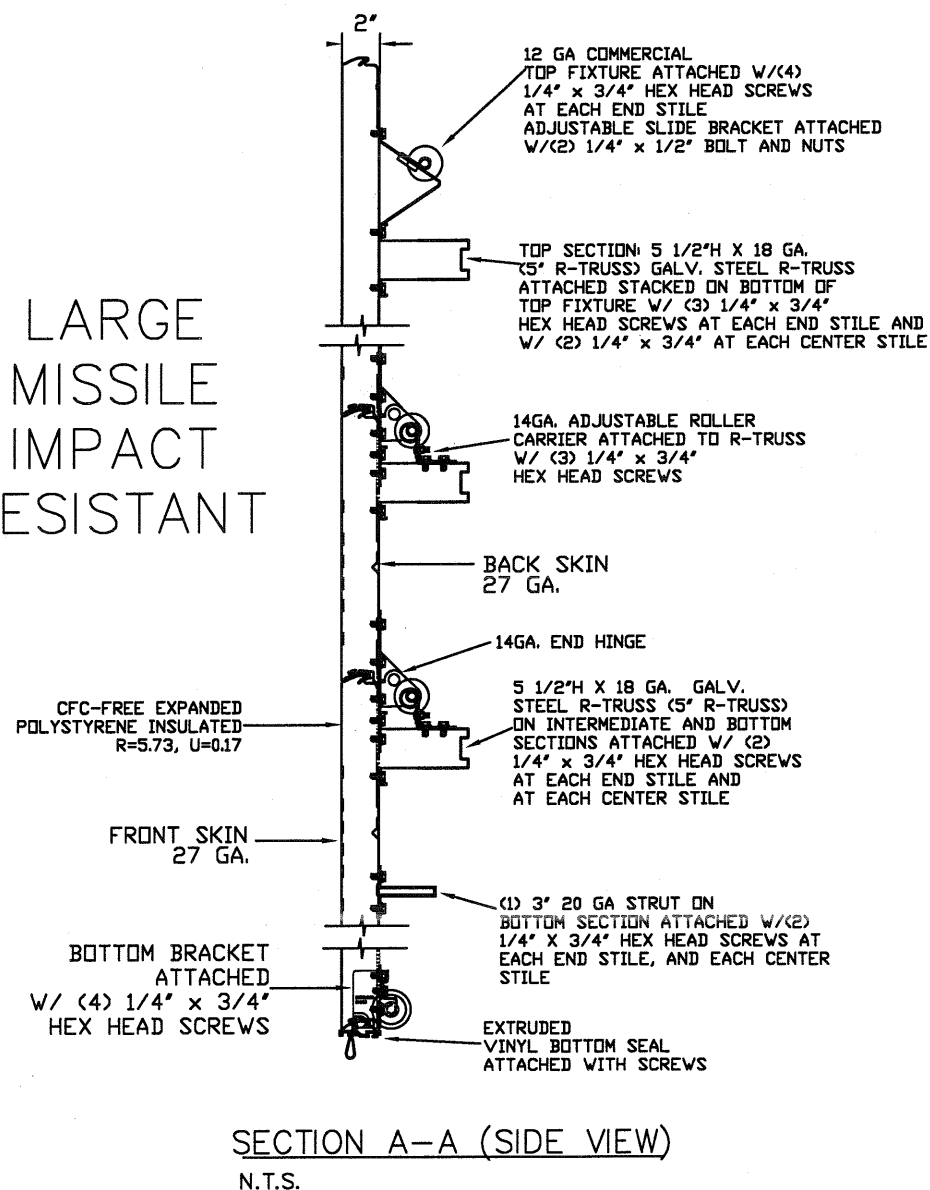
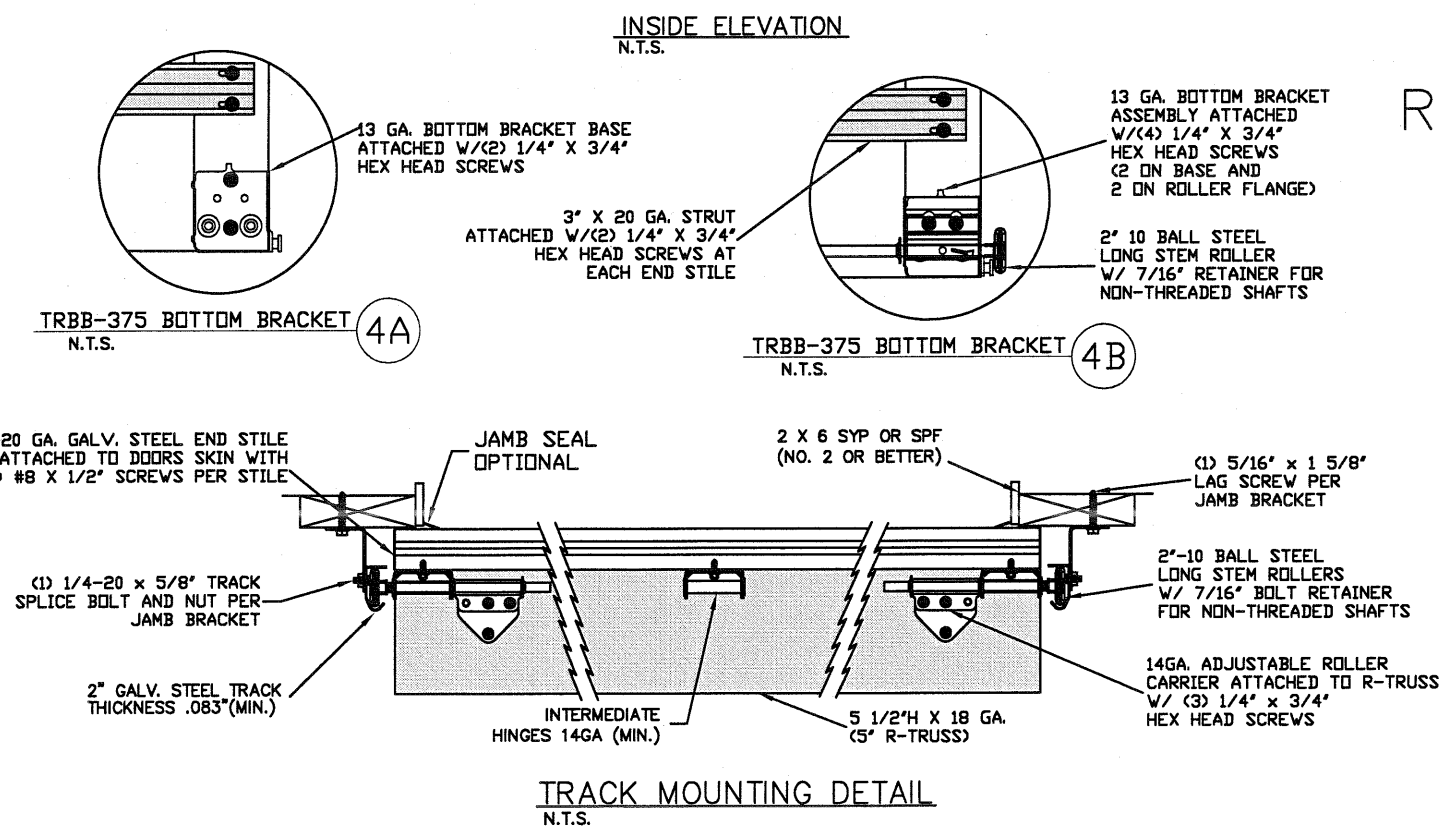




THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, ASTM E330, E1886, E1996, & F588. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	200	182	173	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS) DESIGN LOADS +36.1 PSF -40.8 PSF TEST LOADS +54.2 PSF -61.2 PSF	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
	FL		

MODEL #1600 AMARR LINCOLN 3000 MODEL #1650 AMARR HILLCREST 3000			
SIZE	DRAWN BY	R/LR	DATE 02/24/14
B	CHECKED BY		DATE
			DRAWING NUMBER IRC-1618-155-26-1

ENTREMATRIC

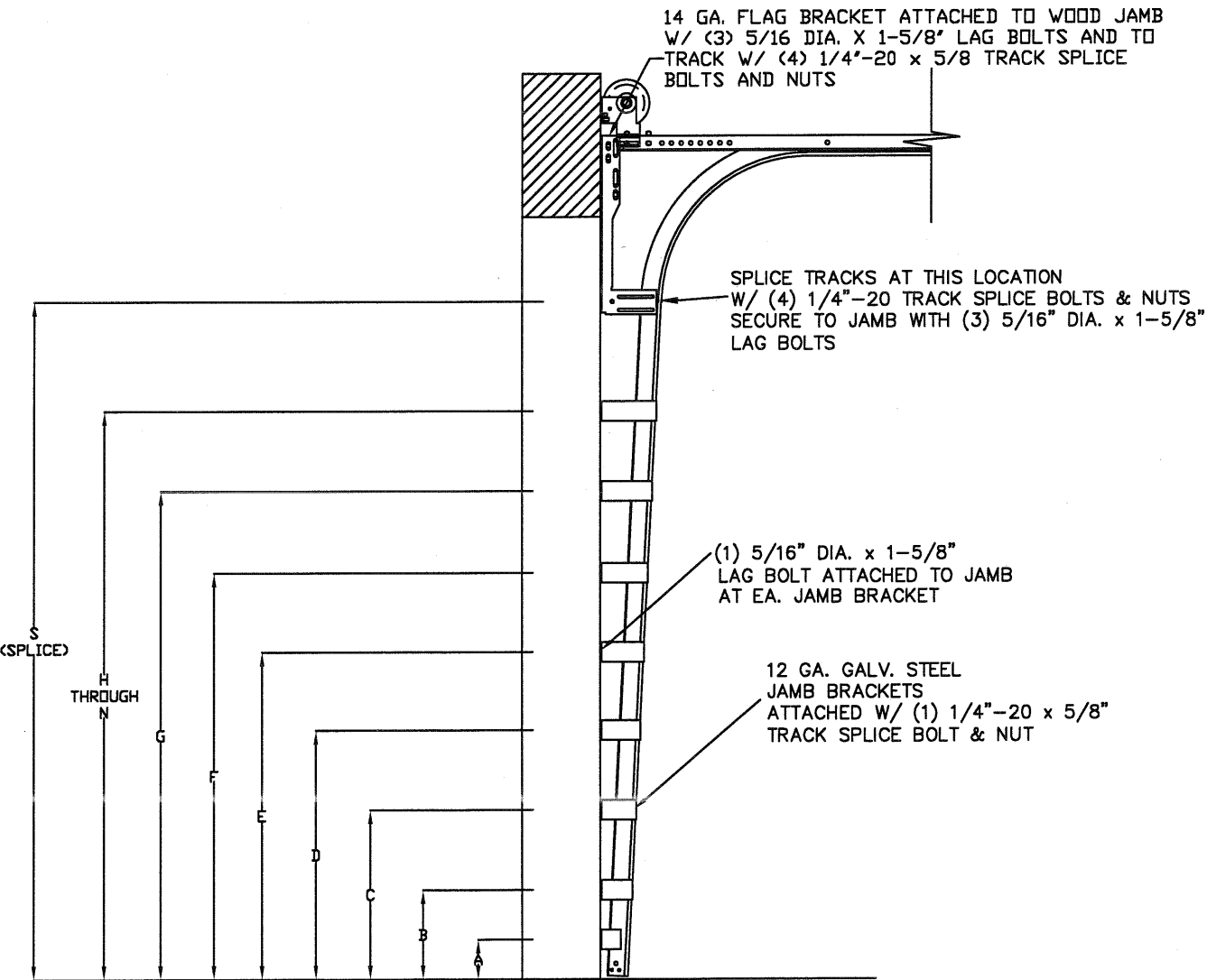
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105

SHEET 1 OF 3

TABLE 1

HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 0"	3.5"	10"	22"	34"	46"	58"									64"
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7' 0"	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"							88"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						100"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

ALL TRACK ATTACHMENT SPACING +/- 1" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY



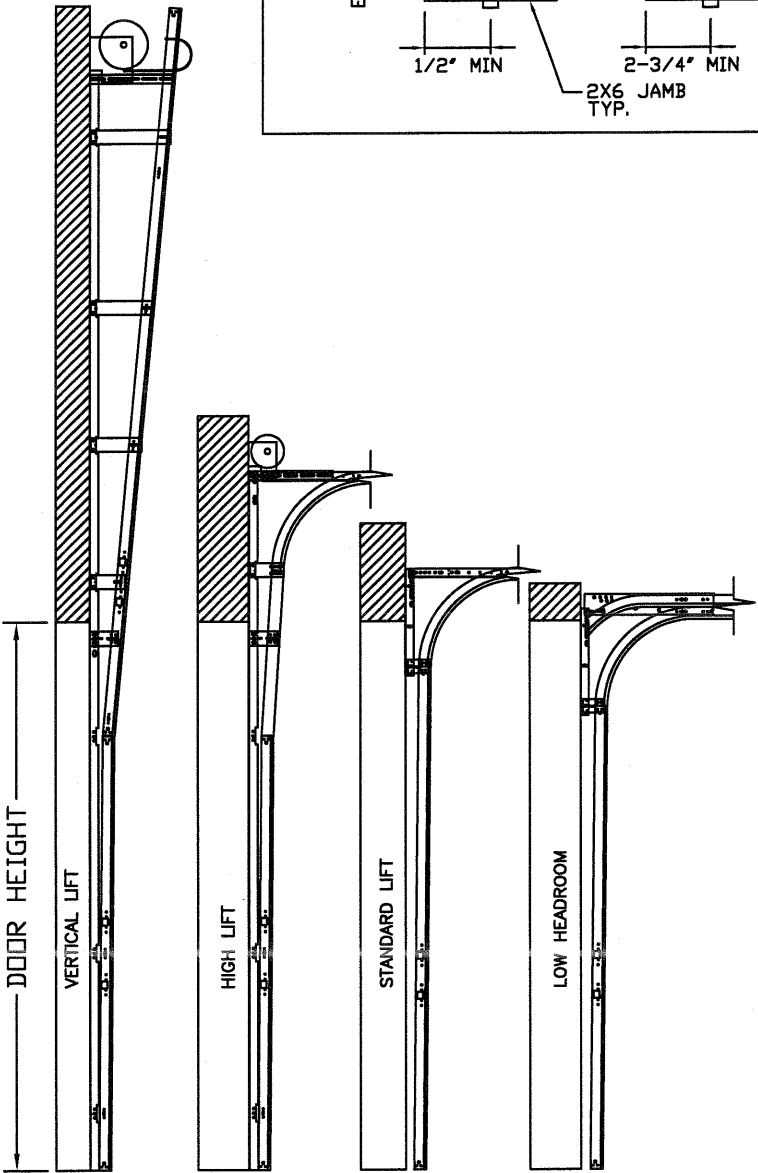
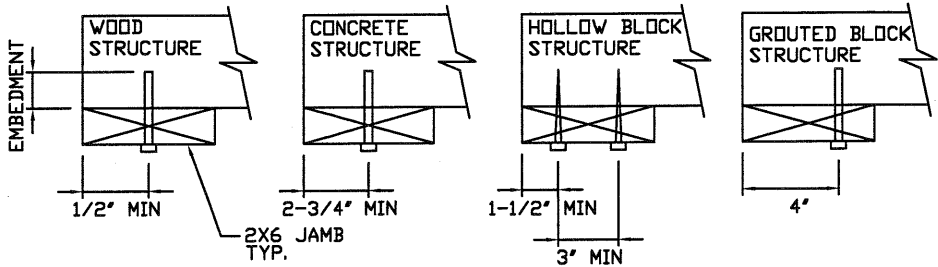
SEE TABLE 1 FOR JAMB BRACKET SPACING
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS

WOOD JAMB ATTACHMENT TO STRUCTURE

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3' LAG SCREWS STARTING 6" FROM ENDS THEN 14" 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 12" 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 8" 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 8" 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 16" 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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' WIDTH
14' HEIGHT
(DOOR HEIGHT
SUBJECT TO
WEIGHT LIMITATIONS)

DESIGN LOADS
+36.1 PSF
-40.8 PSF

TEST LOADS
+54.2 PSF
-61.2 PSF

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

THOMAS L. SHELMERDINE
LICENSE
No. 48579
1/2/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

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

Amarr

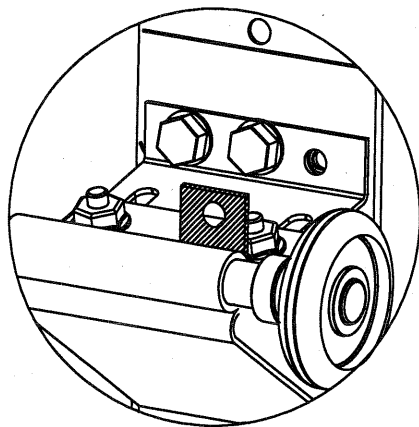
MODEL #1600 AMARR LINCOLN 3000
MODEL #1650 AMARR HILLCREST 3000

SIZE	DRAWN BY	RLR	DATE	02/24/14	DRAWING NUMBER
B	CHECKED BY	DATE	IRC-1618-155-26-1		
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 2 OF 3

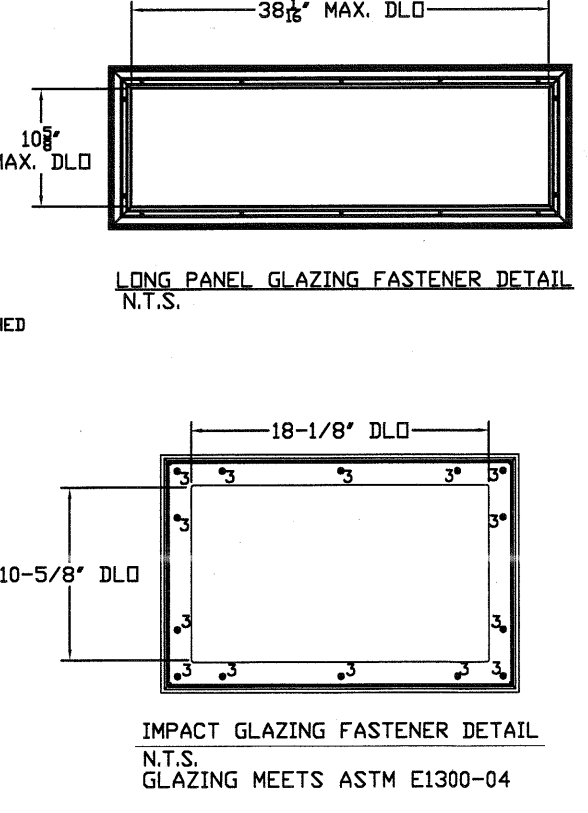
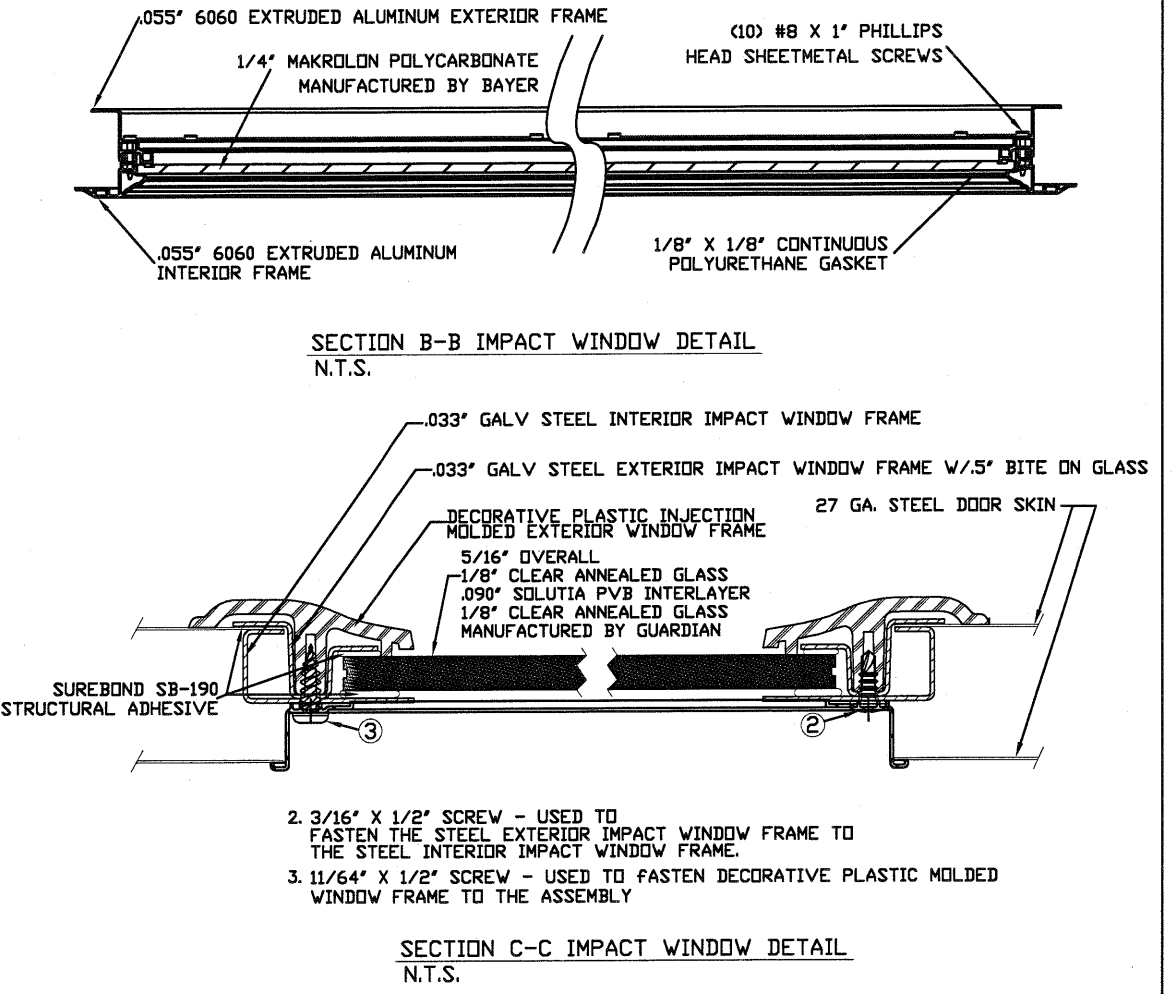
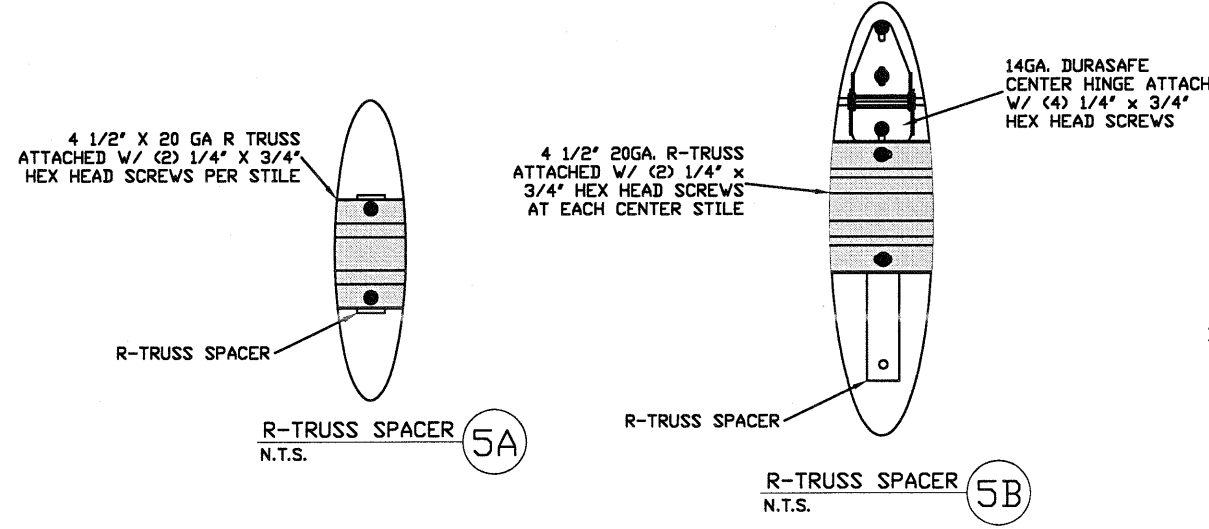
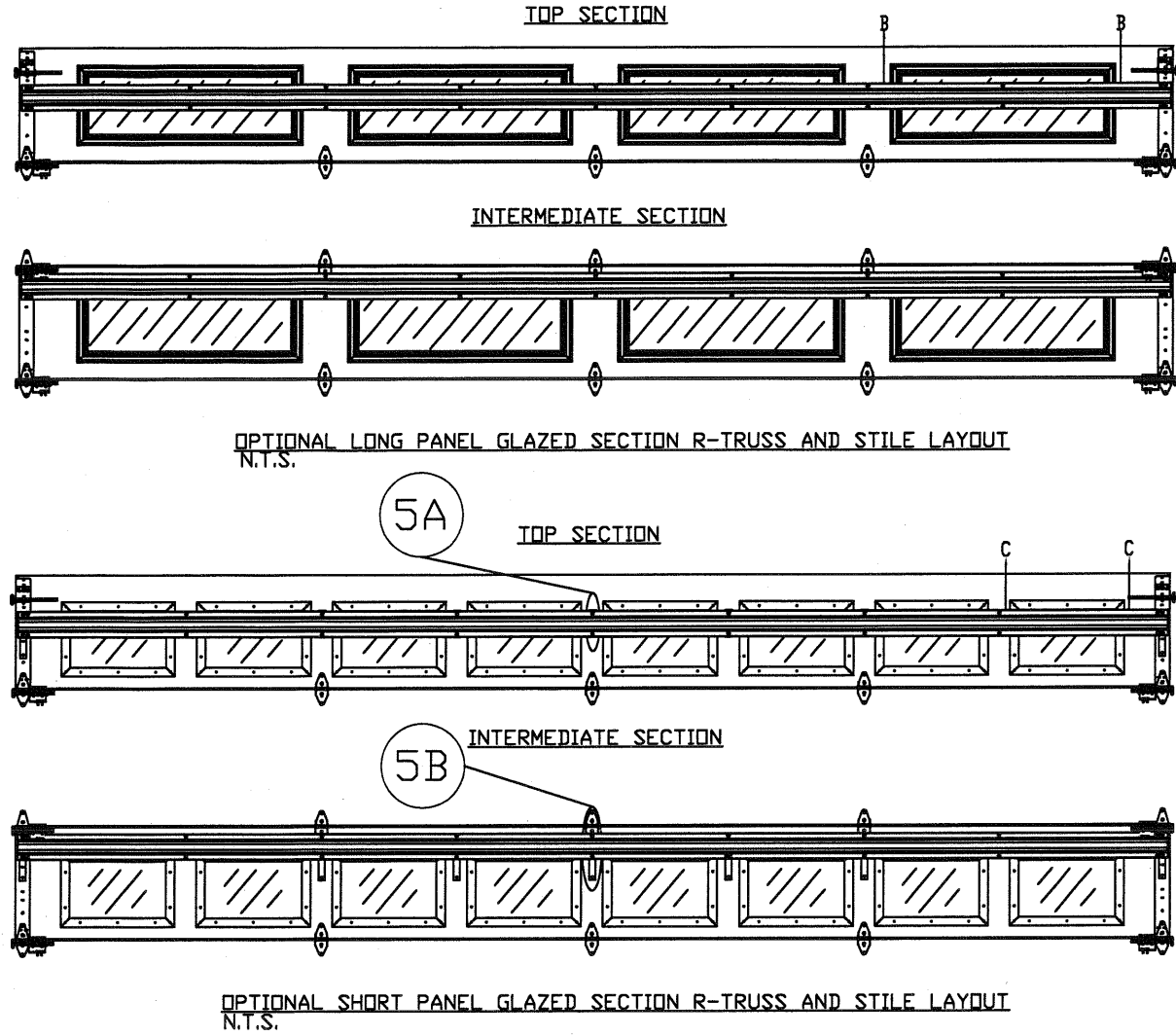
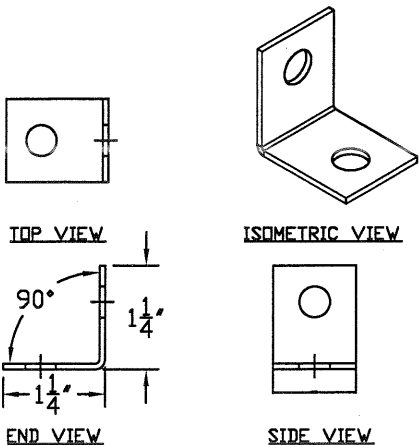
TABLE 2

Section		Center Stile Locations (Measured from Left)			Max Design Loads Allowed	
Width (ft)		1st (in)	2st (in)	3rd (in)	Positive (PSF)	Negative (PSF)
16'	2	50.27	97.00	143.73	40.0	45.2
16'	4	51.27	98.00	144.73	39.6	44.7
16'	6	52.27	99.00	145.73	39.2	44.3
16'	8	51.34	100.00	148.66	38.8	43.8
16'	10	51.50	101.00	150.50	38.4	43.4
17'	0	53.34	102.00	150.66	38.0	43.0
17'	2	53.00	103.00	153.00	37.7	42.6
17'	4	54.00	104.00	154.00	37.3	42.2
17'	6	55.00	105.00	155.00	36.9	41.8
17'	8	54.80	106.00	157.20	36.6	41.4
17'	10	55.80	107.00	158.20	36.3	41.0
18'	0	57.25	108.00	158.75	36.1	40.8

TOP FIXTURE REINFORCEMENT
ILLUSTRATION



TOP FIXTURE ADDER PIECE



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 18' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)	DESIGN LOADS +36.1 PSF -40.8 PSF	TEST LOADS +54.2 PSF -61.2 PSF	
Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER FL Amarr MODEL #1600 AMARR LINCOLN 3000 MODEL #1650 AMARR HILLCREST 3000 SIZE B DRAWN BY RLR CHECKED BY DATE 02/24/14 DATE DRAWING NUMBER IRC-1618-155-26-1 SHEET 3 OF 3 ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			