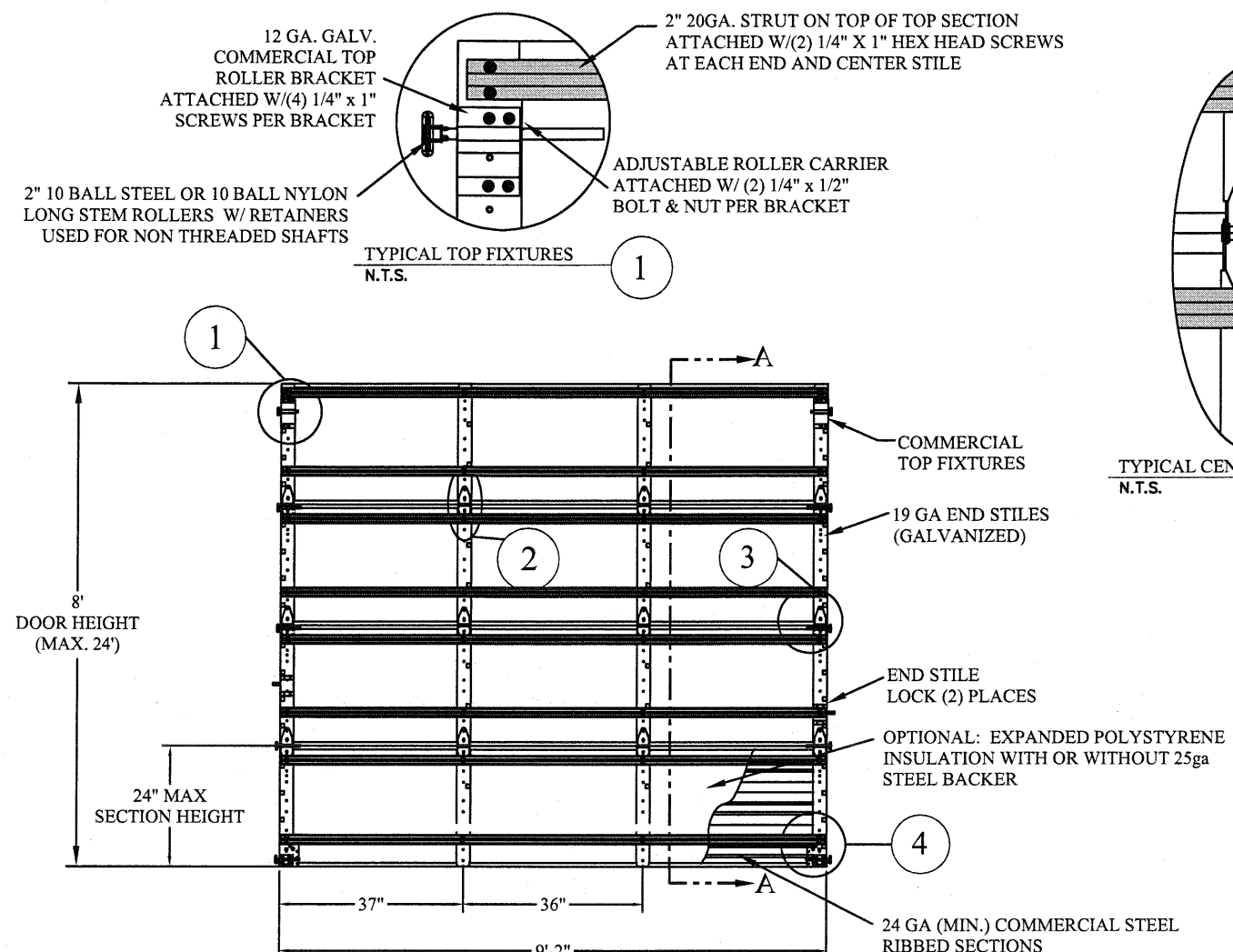
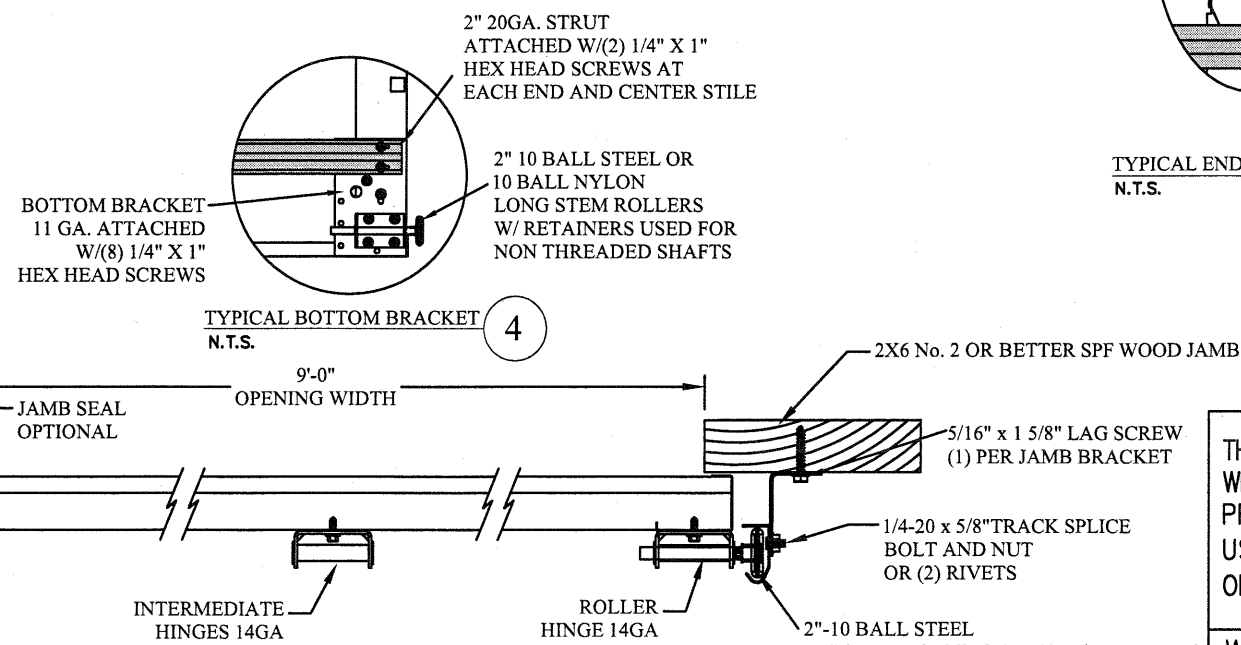
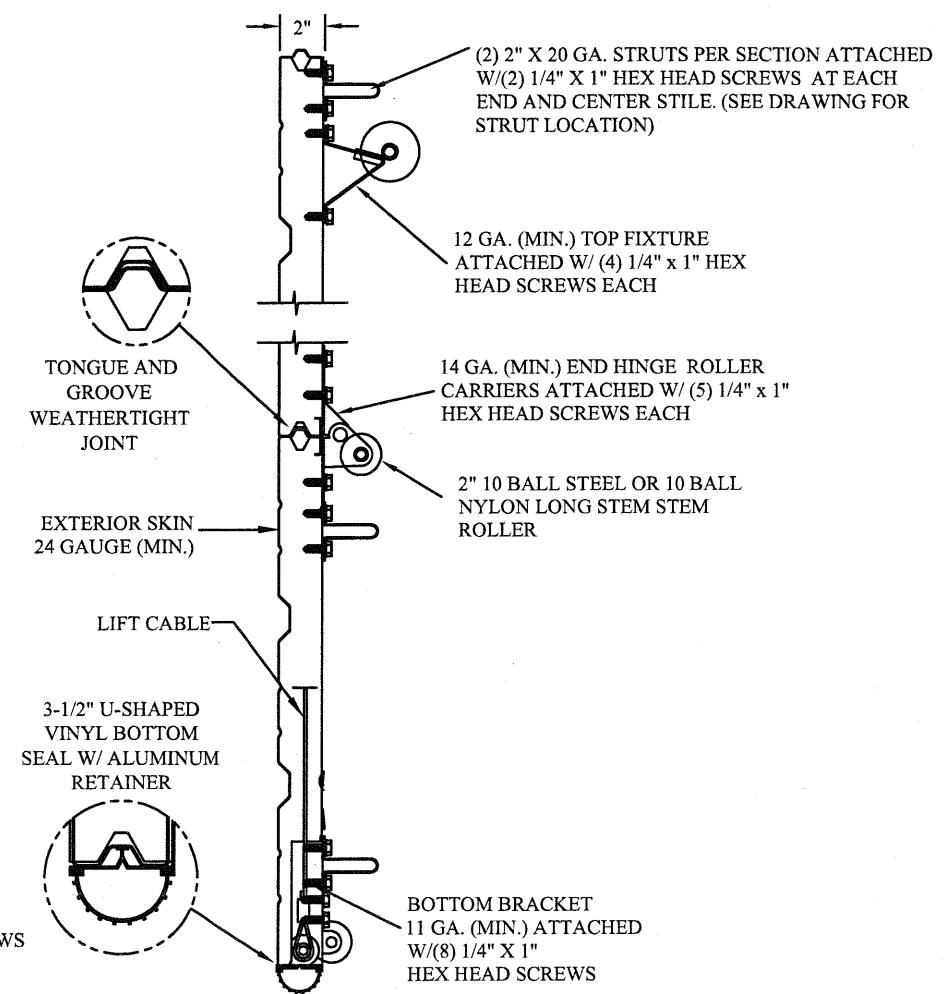
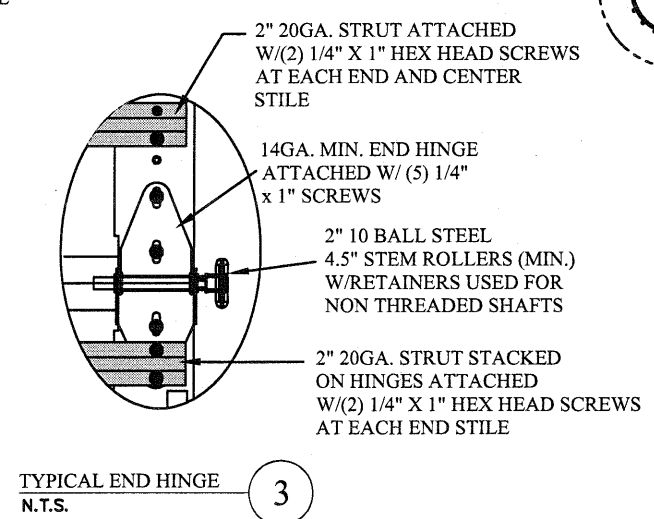
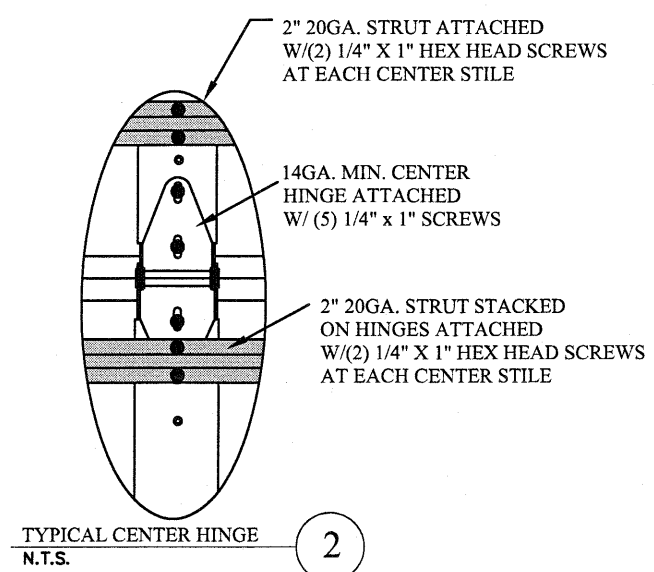




DOOR INTERIOR ELEVATION



2" BRACKET MOUNT TO WOOD JAMB DETAIL

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10° OR LESS):

WIND SPEED (MPH)	195	177	168	161	154
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9'2" x 24'

DESIGN LOADS
+32.7 PSF
-38.4 PSF

TEST LOADS
+49.1 PSF
-57.6 PSF

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

FL

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

MODEL 2400 AMARR 2402, 2412, 2422 (24GA)			
MODEL 2000 AMARR 2002, 2012, 2022 (20GA)			
SIZE	DRAWN BY RS	DATE 2/09/15	DRAWING NUMBER IBC-2409-150-11
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ITW BUILDDEX 1/4"-14 X 3/4"
SELF-TAPPING SCREWS
(TEKS)

12 GA. OR 3/16" STEEL
(SEE BELOW)

The diagram illustrates a cross-section of a steel beam connected to a concrete wall. A 12 GA. OR 3/16" steel plate is shown attached to the side of the beam using ITW Buildex 1/4"-14 X 3/4" self-tapping screws (TEKS). The plate is also secured to the concrete wall with additional fasteners. The concrete wall is shown with a hatched pattern.

1/8" NOM X 1" LONG
FILLET WELD (E60xx
ELECTRODES MIN.)

1/4" LONG TACK WELD
SAME SPACING AS
FILLET WELD

The diagram shows a cross-section of a fillet weld joint. Two plates are joined by a fillet weld. A dimension line indicates the fillet weld is 1/8" nominal thickness by 1" long. A label points to the fillet weld with the text "1/8" NOM X 1" LONG FILLET WELD (E60xx ELECTRODES MIN.)". Another dimension line indicates a 1/4" long tack weld. A label points to the tack weld with the text "1/4" LONG TACK WELD SAME SPACING AS FILLET WELD". The diagram also shows a vertical plate and a horizontal plate, with a dimension line indicating the distance between the tack welds.

2000 PSI MIN.
CONCRETE

SIMPSON STRONG-TIE 3/8"Ø
WEDGE-ALL EXPANSION
ANCHOR WITH 7/8"Ø WASHER.
1-3/4" MIN. EMBEDMENT

2-5/8" THICK
WALL MIN.
(1.5 x EMBEDMENT)

3" MIN. EDGE
DISTANCE

2000 PSI MIN.
CONCRETE

SIMPSON STRONG-TIE 3/8"Ø
SLEEVE-ALL EXPANSION
ANCHOR WITH 7/8"Ø WASHER
1-3/4" MIN. EMBEDMENT

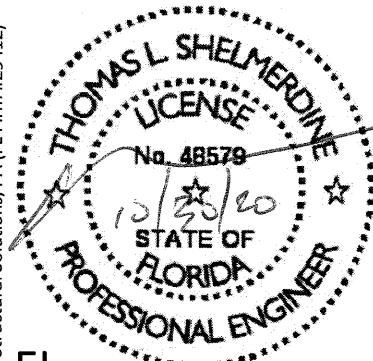
2-5/8" THICK
WALL MIN.
(1.5 x EMBEDMENT)

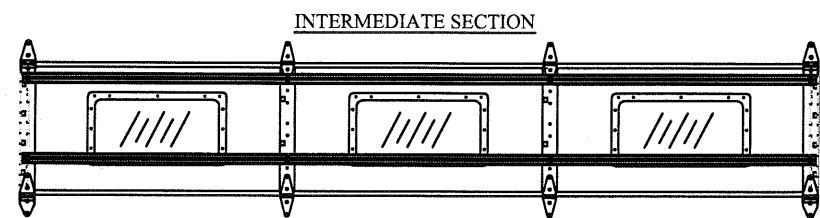
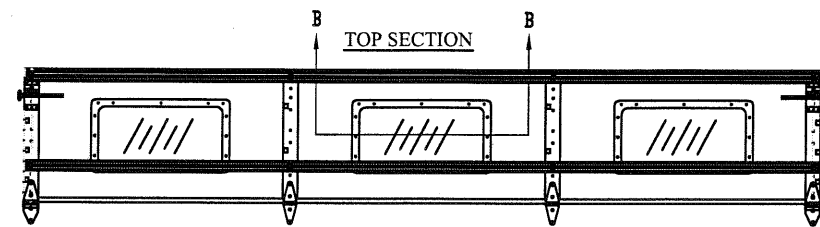
3" MIN. EDGE
DISTANCE

The technical drawings illustrate the required dimensions for wood and hollow block structures. The top drawing, labeled 'WOOD STRUCTURE', shows a cross-section with a vertical '2X6 JAMB TYP.' and a horizontal 'EMBEDMENT' dimension. The bottom drawing, labeled 'HOLLOW BLOCK STRUCTURE', shows a cross-section with two vertical jamba bolts and horizontal dimensions of '1-1/2" MIN' and '3" MIN'.

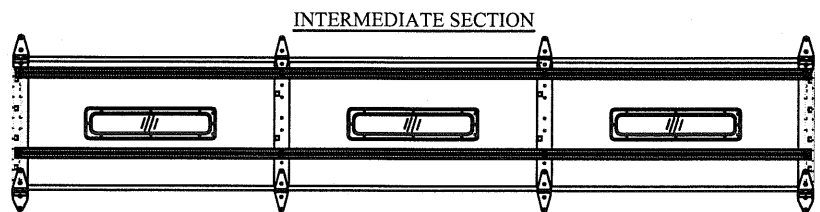
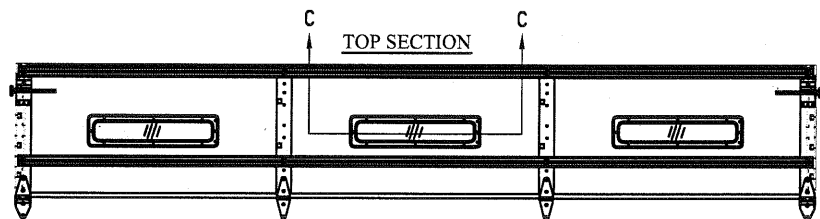
Diagram illustrating the design loads and interior width of a garage section:

- INTERIOR OF GARAGE MAX. WIDTH 9'0"**
- DESIGN LOADS**
 - +149.9 LBS/FT
 - 176.0 LBS/FT
- SEE NOTE 2**

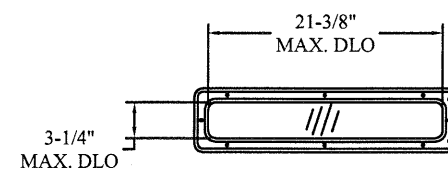
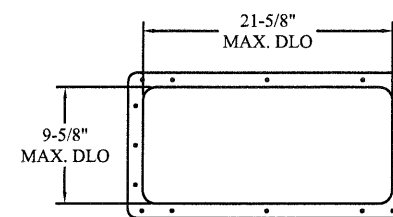
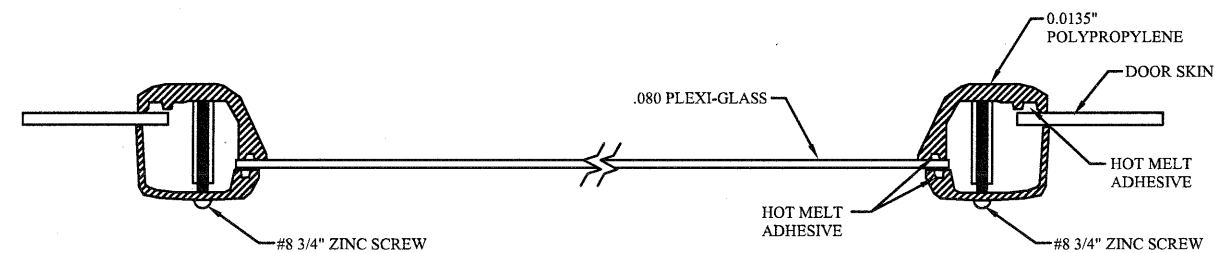
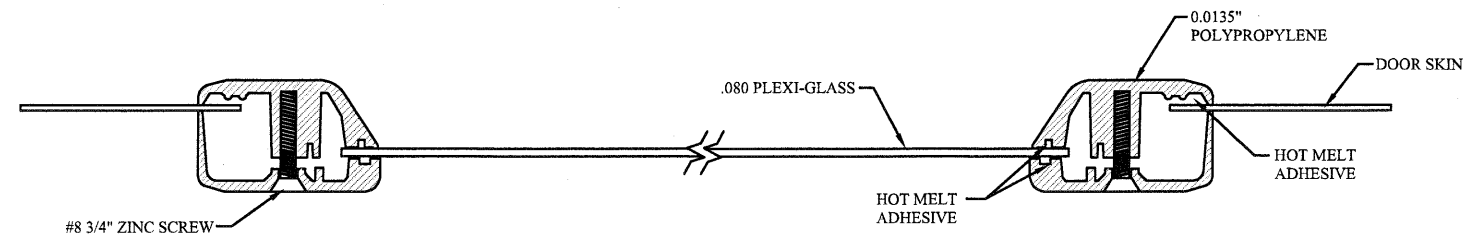
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2" x 24' DESIGN LOADS +32.7 PSF -38.4 PSF TEST LOADS +49.1 PSF -57.6 PSF		 Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 2400 AMARR 2402, 2412, 2422 (24GA) MODEL 2000 AMARR 2002, 2012, 2022 (20GA)			
SIZE B	DRAWN BY RS	DATE 2/09/15	DRAWING NUMBER IBC-2409-150-11
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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			SHEET 2 OF 4



OPTIONAL GLAZED SECTION W/ 24" X 12" WINDOWS AND STRUT LAYOUT
N.T.S.



OPTIONAL GLAZED SECTION W/ 24" X 6" WINDOWS AND STRUT LAYOUT
N.T.S.



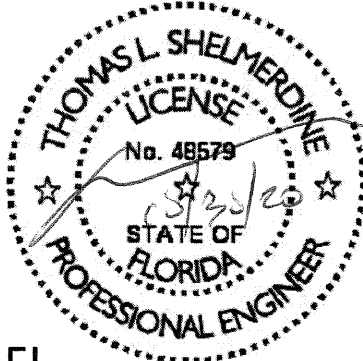
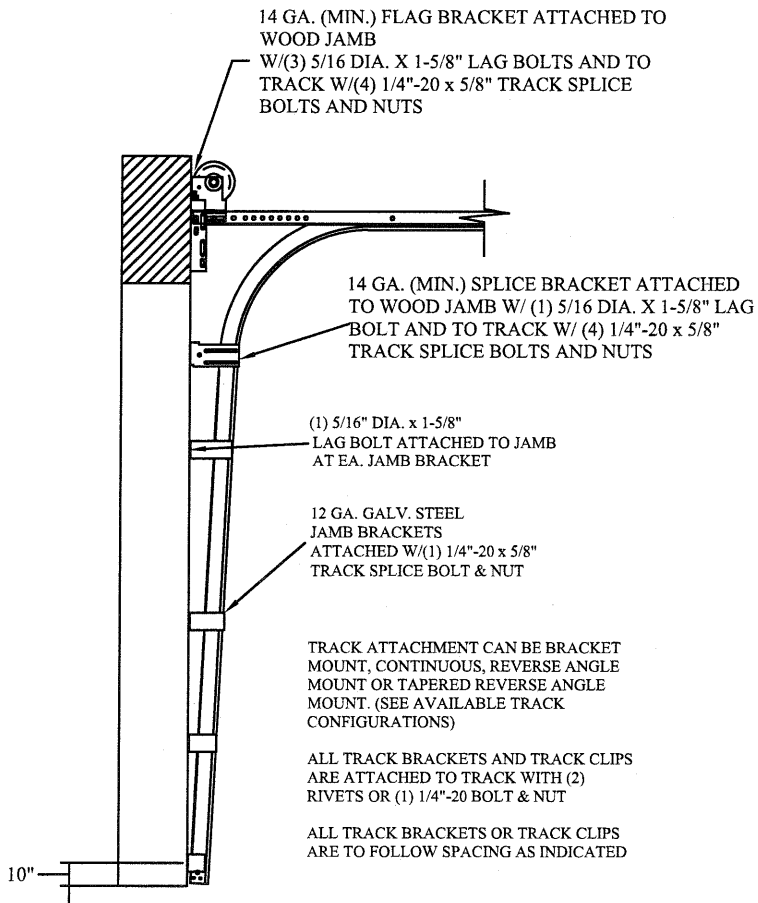
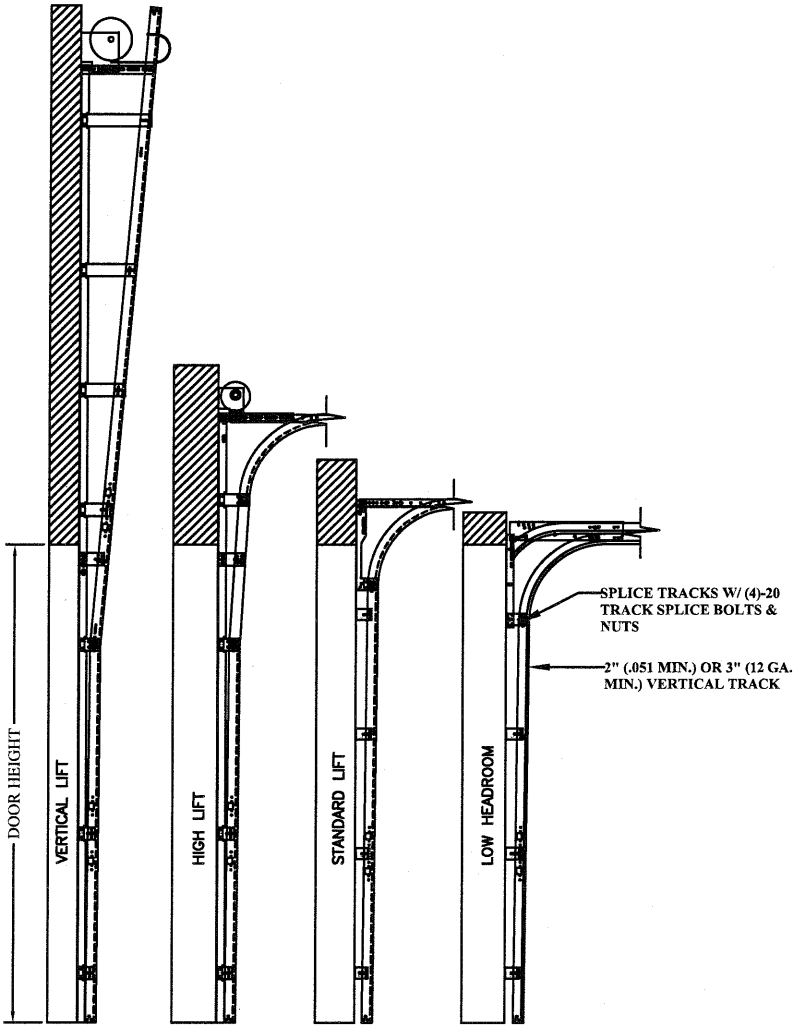
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2" x 24' DESIGN LOADS +32.7 PSF -38.4 PSF TEST LOADS +49.1 PSF -57.6 PSF		 Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 4

TABLE 1

Section	Center Stile Locations		Max Design Loads Allowed	
	Width (ft)	1st (in)	2nd (in)	Positive (PSF) Negative (PSF)
6'0	36"			33.1 38.9
6'2	37"			32.2 37.8
6'4	23"	53"		45.0 52.8
6'6	24"	54"		44.2 51.9
6'8	25"	55"		43.4 50.9
6'10	26"	56"		42.6 50.0
7'0	27"	57"		41.8 49.1
7'2	28"	58"		41.1 48.3
7'4	27"	61"		39.1 45.9
7'6	28"	62"		38.5 45.2
7'8	29"	63"		37.8 44.4
7'10	30"	64"		37.2 43.8
8'0	31"	65"		36.7 43.1
8'2	32"	66"		36.1 42.4
8'4	32"	68"		35.1 41.2
8'6	33"	69"		34.5 40.6
8'8	34"	70"		34.1 40.0
8'10	35"	71"		33.6 39.4
9'0	36"	72"		33.1 38.9
9'2	37"	73"		32.7 38.4



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 2



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT																						TYPICAL SPLICE	
		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"	10"	22"	34"	46"	58"																			76"
7'	6"	10"	22"	34"	46"	58"																			82"
8'	0"	10"	22"	34"	46"	58"	70"																		88"
8'	6"	10"	22"	34"	46"	58"	70"	82"																	94"
9'	0"	10"	22"	34"	46"	58"	70"	82"																	100"
9'	6"	10"	22"	34"	46"	58"	70"	82"	94"																106"
10'	0"	10"	22"	34"	46"	58"	70"	82"	94"																112"
11'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"															124"
12'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"														136"
13'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"													148"
14'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"												160"
15'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"											172"
16'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"										184"
17'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"									196"
18'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"								208"
19'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"							220"
20'	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"						232"
21	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"					244"
22	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"				256"
23	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"			268"
24	0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"		280"

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9'2 x 24'

DESIGN LOADS
+32.7 PSF
-38.4 PSF

TEST LOADS
+49.1 PSF
-57.6 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

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

Amarr

MODEL 2400 AMARR 2402, 2412, 2422 (24GA)
MODEL 2000 AMARR 2002, 2012, 2022 (20GA)

SIZE	DRAWN BY	RS	DATE	2/09/15	DRAWING NUMBER
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165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 4 OF 4