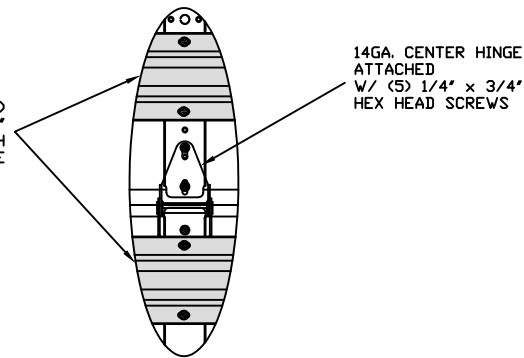
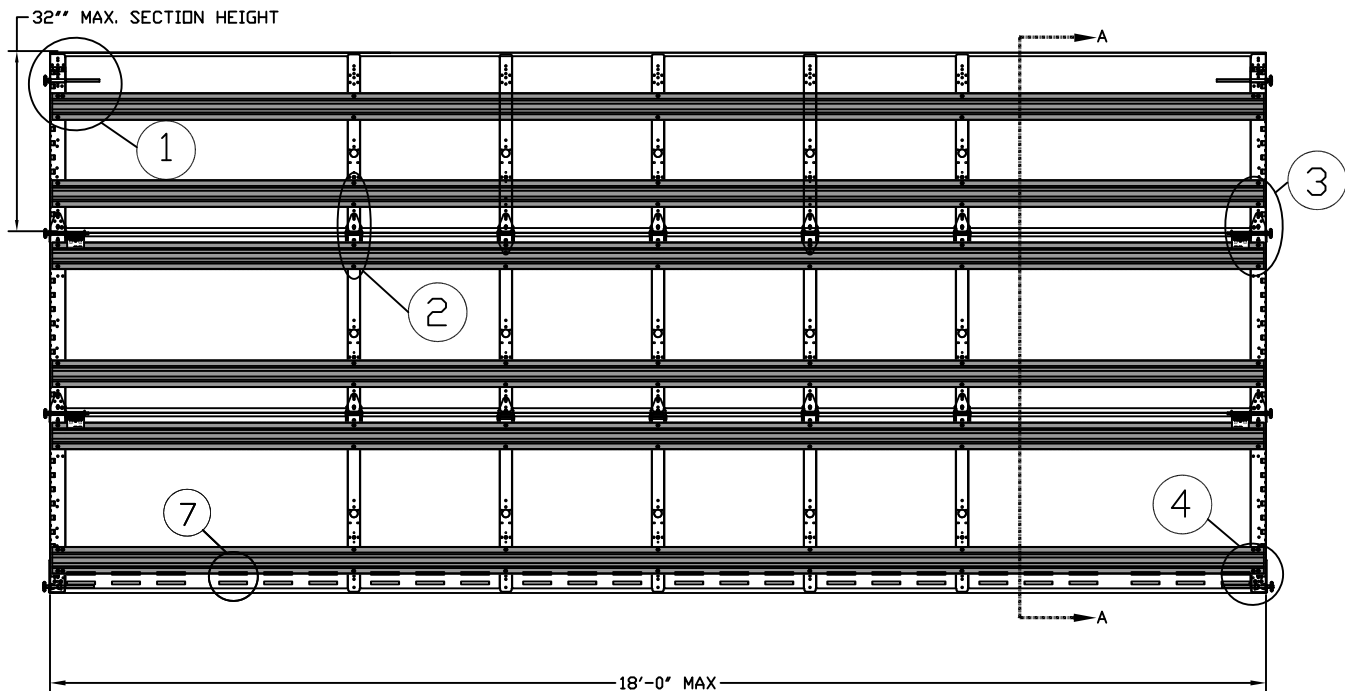
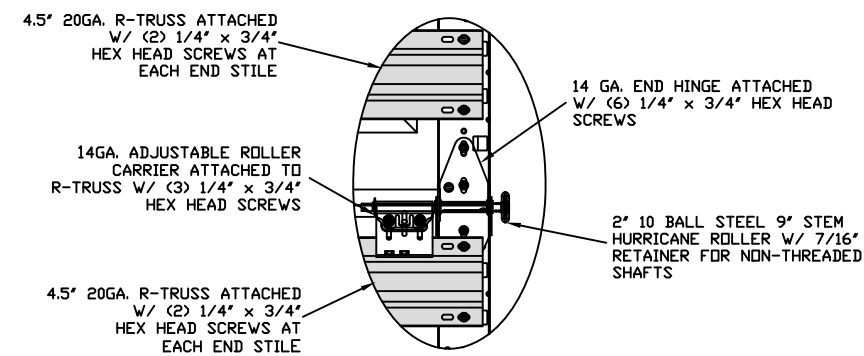


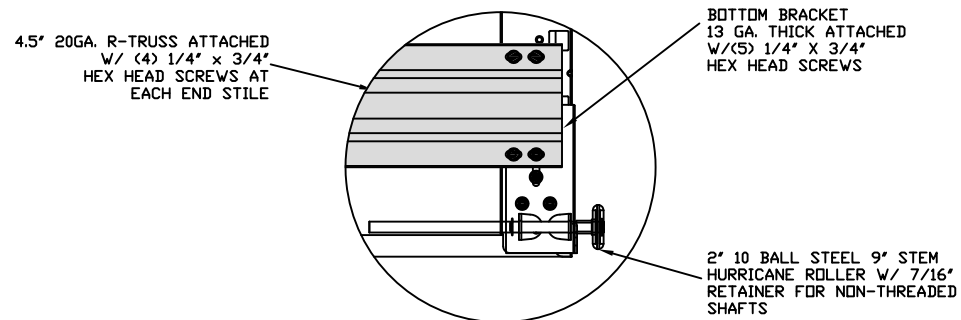
TYPICAL TOP FIXTURES
N.T.S. 1



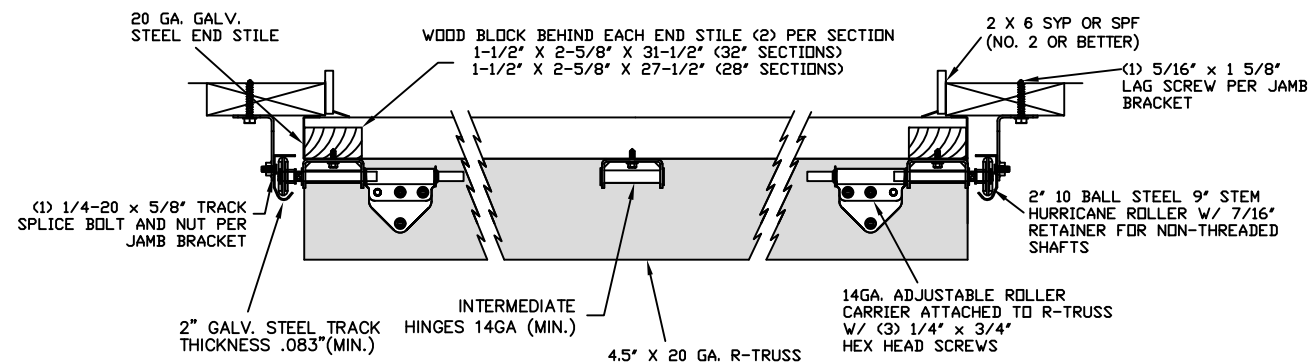
TYPICAL CENTER HINGE
N.T.S. 2



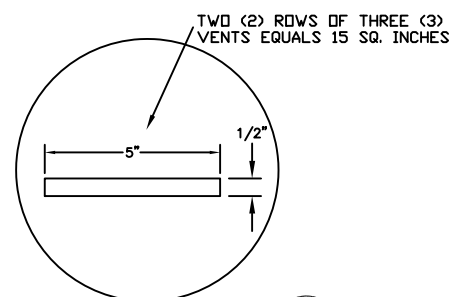
TYPICAL END HINGE
N.T.S. 3



TYPICAL BOTTOM BRACKET
N.T.S. 4



TRACK MOUNTING DETAIL
N.T.S.

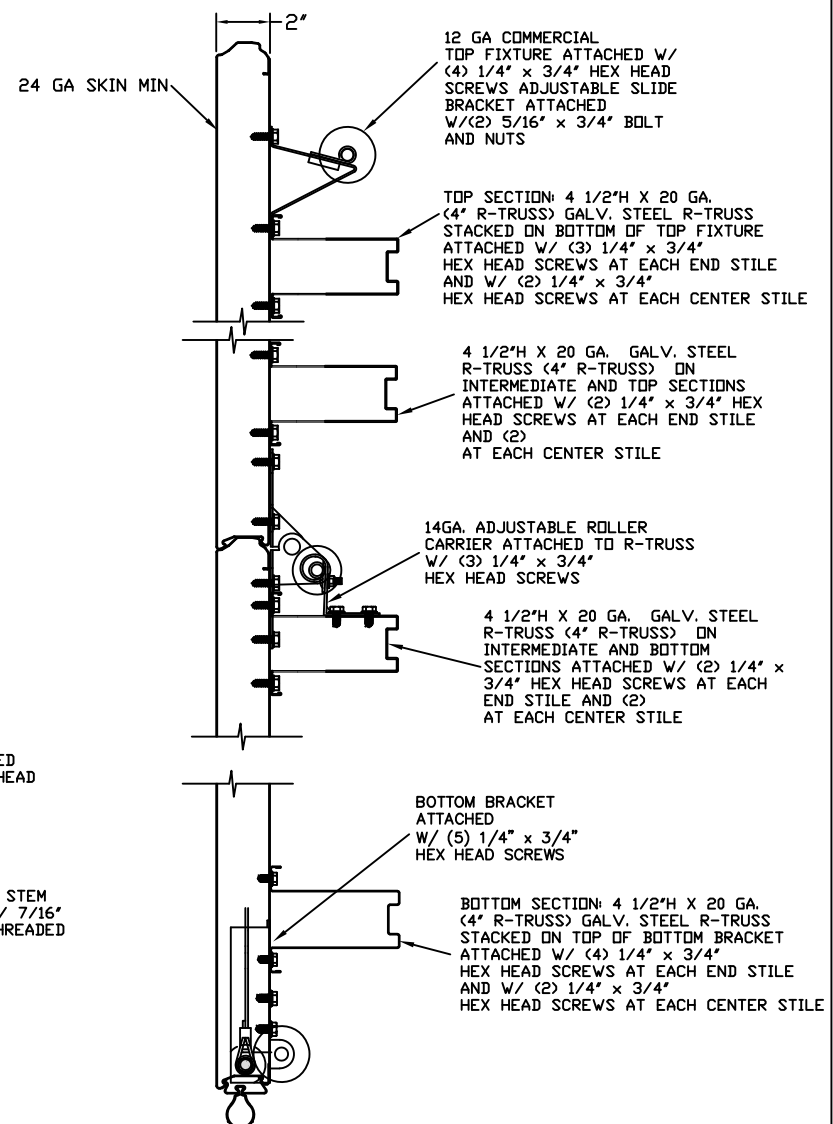


OPTIONAL VENT DETAIL
N.T.S. 7

LARGE MISSILE IMPACT RESISTANCE

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E1886, E1996, F588 AND DASMA 108, 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 8'

DESIGN LOADS
+25.1 PSF
-28.4 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+37.7 PSF
-42.6 PSF

Thomas L Shelmerdine

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

This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.

Digitally signed by Thomas L. Shelmerdine
DN: c=US, o=North Carolina, dnQualifier=A01410D000001856487A7B100125CE2, cn=Thomas L. Shelmerdine
Date: 2023.09.25 14:27:36 -0400

Amarr

MODEL #500 AMARR CLASSICA 1000, 2000

SIZE	DRAWN BY	DLJ	DATE	11/20/2020	DRAWING NUMBER
B	CHECKED BY	DRC	DATE	12/02/2020	IRC-5318-130-24-I
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 2

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 20" 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 18" 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)

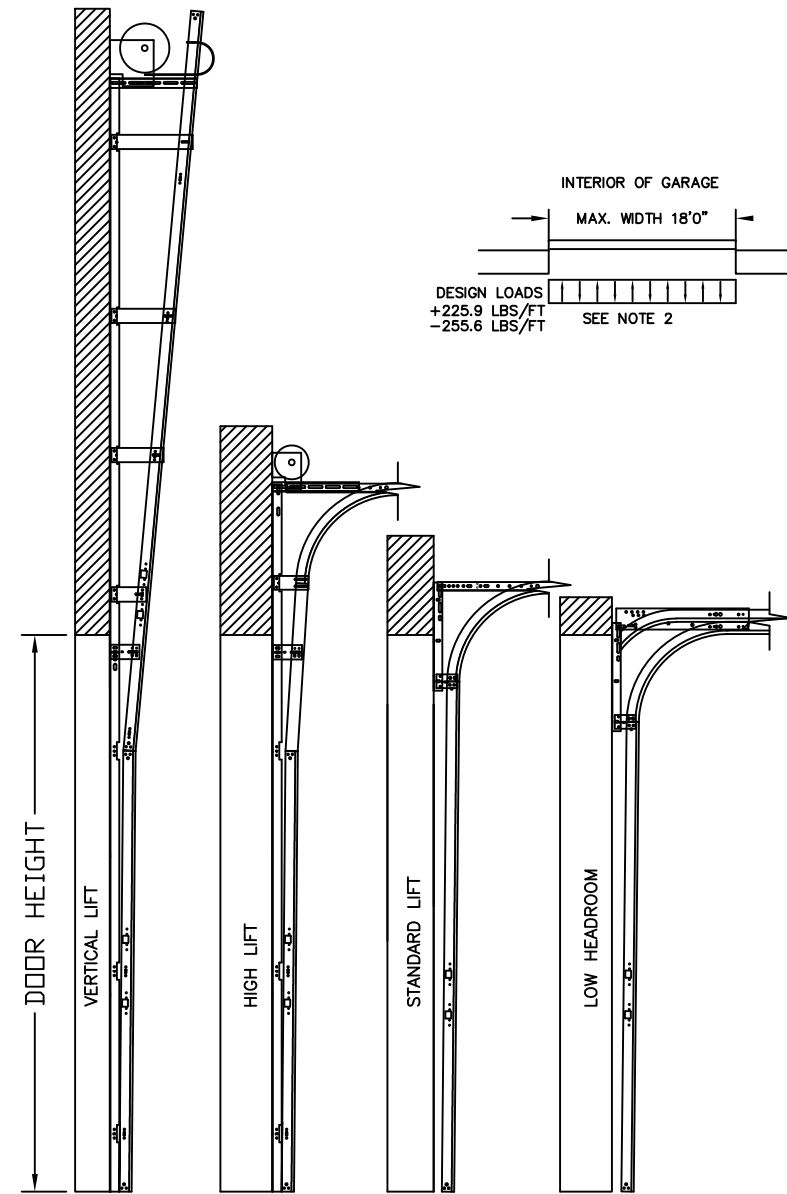
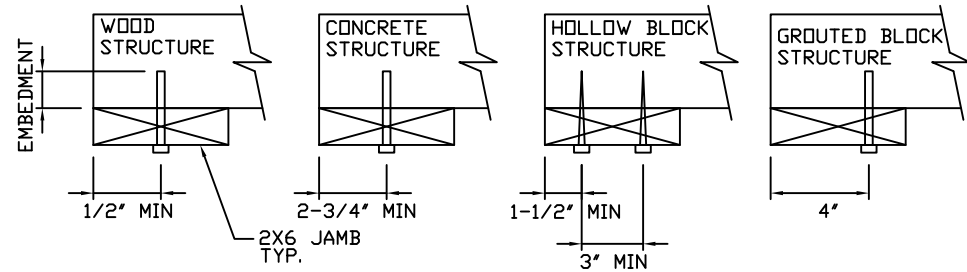
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 8' O.C. (1 1/4" EMBEDMENT)

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 22" 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.

TABLE 1

DOOR HEIGHT		TRACK ATTACHMENT												TYPICAL SPLICE
		A	B	C	D	E	F	G	H	I	J	K	L	
7'	0"	10"	22"	34"	46"	58"								76"
7'	6"	10"	22"	34"	46"	58"	70"							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"

ALL TRACK AND ATTACHMENT SPACING $\pm 2"$
ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

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:
+225.9 LBS/FT & -255.6 LBS/FT

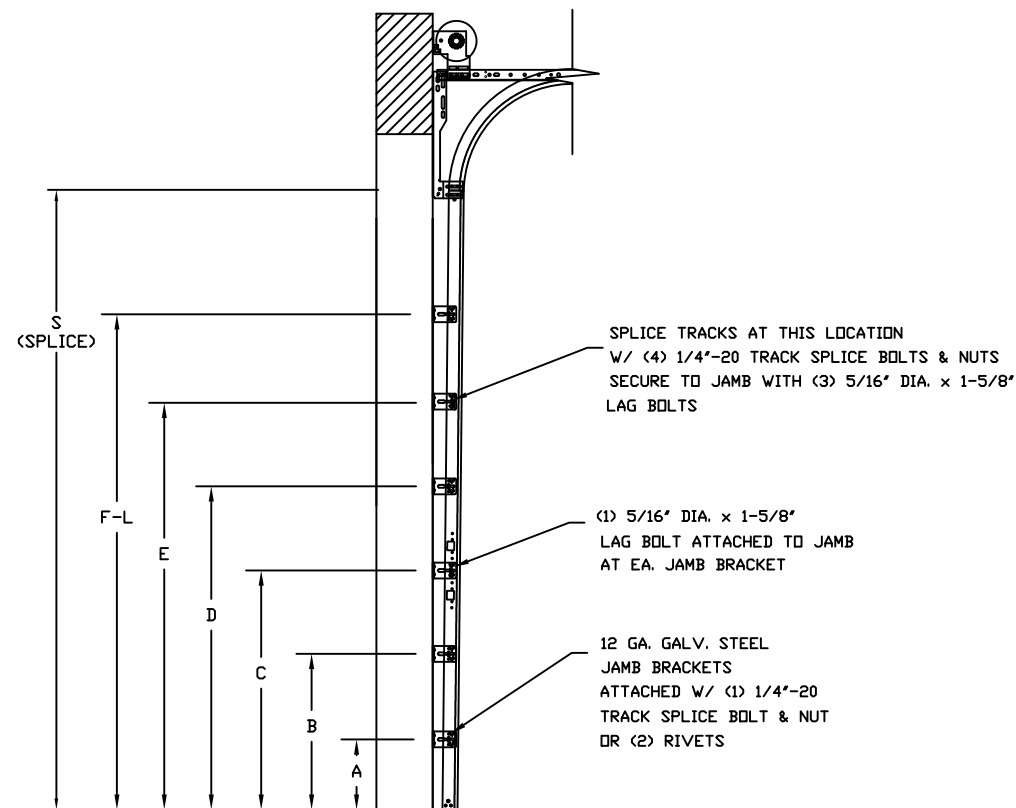
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.

4. DOOR SECTIONS SHALL BE 24 GA. MIN. (.022") ROLLED FORMED LIGHT COMMERCIAL QUALITY

5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

TABLE 2

Section	Center Stile Locations (Measured from Left Edge)							Max Design Loads Allowed	
	Width (ft)	1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	6th (in)	7th (in)	Positive (PSF)
16' 2	24.63	48.75	72.880	97.00	121.13	145.25	169.38	27.7	31.4
16' 4	24.63	49.08	73.540	98.00	122.46	146.92	171.38	27.5	31.1
16' 6	24.63	49.42	74.210	99.00	123.79	148.59	173.38	27.2	30.8
16' 8	24.88	49.92	74.960	100.00	125.04	150.09	175.13	27.0	30.5
16' 10	25.13	50.42	75.710	101.00	126.29	151.59	176.88	26.7	30.2
17' 0	25.38	50.92	76.460	102.00	127.54	153.09	178.63	26.4	29.9
17' 2	25.63	51.42	77.210	103.00	128.79	154.59	180.38	26.2	29.6
17' 4	25.88	51.92	77.960	104.00	130.04	156.09	182.13	25.9	29.3
17' 6	26.13	52.42	78.710	105.00	131.29	157.59	183.88	25.7	29.1
17' 8	26.38	52.92	79.460	106.00	132.54	159.09	185.63	25.4	28.8
17' 10	26.63	53.42	80.210	107.00	133.79	160.59	187.38	25.2	28.5
18' 0	26.88	53.92	80.960	108.00	135.04	162.09	189.13	25.1	28.4



TRACK CONFIGURATION FOR 8' TALL DOORS
N.T.S. SEE TABLE 1 FOR LOCATIONS

TABLE 3

SECTION	STRUT SIZE
TOP	4.5"
	4.5"
5TH	4.5"
	4.5"
4TH	4.5"
	4.5"
3RD	4.5"
	4.5"
2ND	4.5"
	4.5"
BOTTOM	4.5"
	4.5"

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 18' x 8' DESIGN LOADS +25.1 PSF -28.4 PSF TEST LOADS (1.5 x DESIGN LOADS) +37.7 PSF -42.6 PSF		This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies. 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			
MODEL #500 AMARR CLASSICA 1000, 2000			
SIZE	DRAWN BY	DLJ	DATE 11/20/2020
B	CHECKED BY	DRC	DATE 12/02/2020
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			DRAWING NUMBER IRC-5318-130-24
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			SHEET 2 OF 2