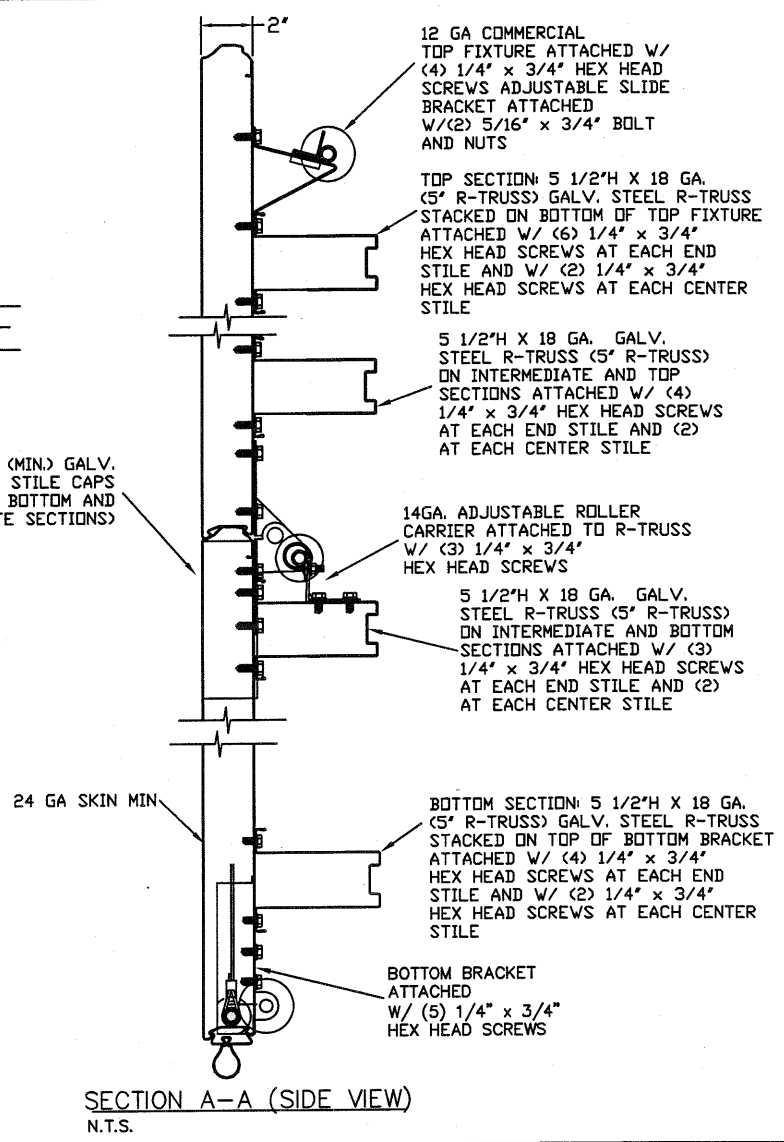
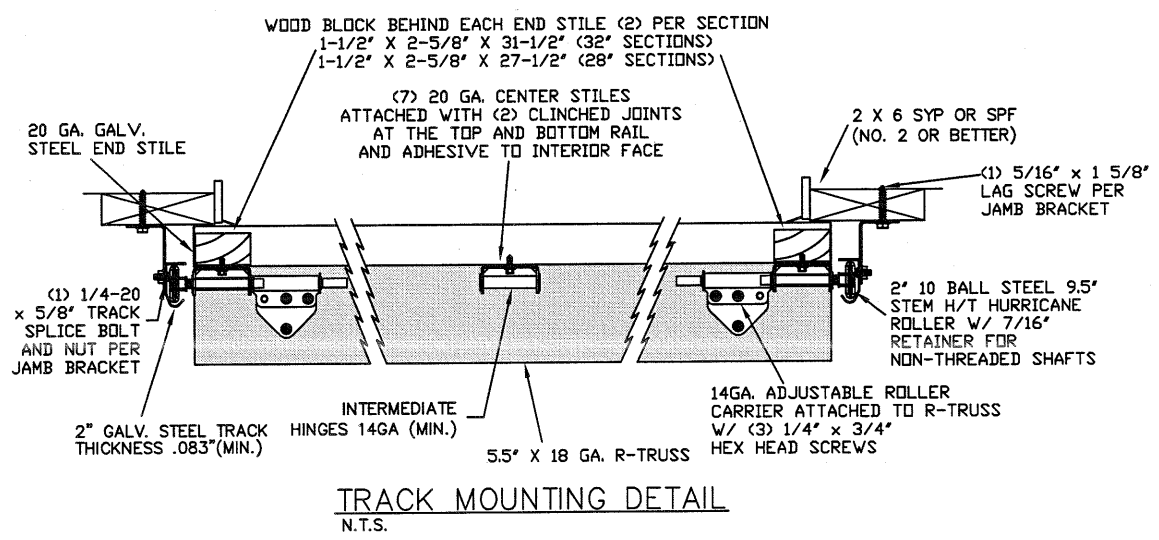
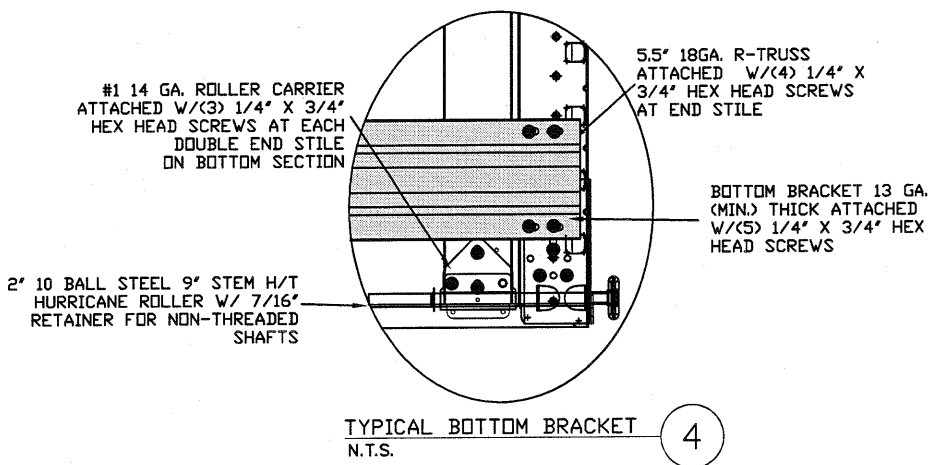
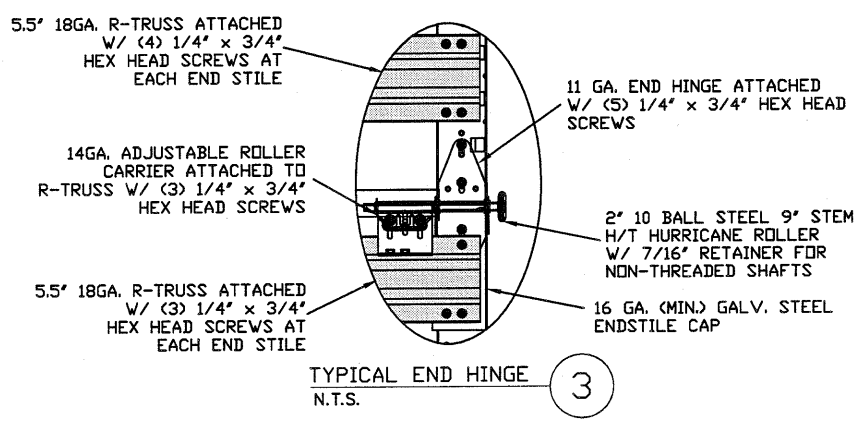
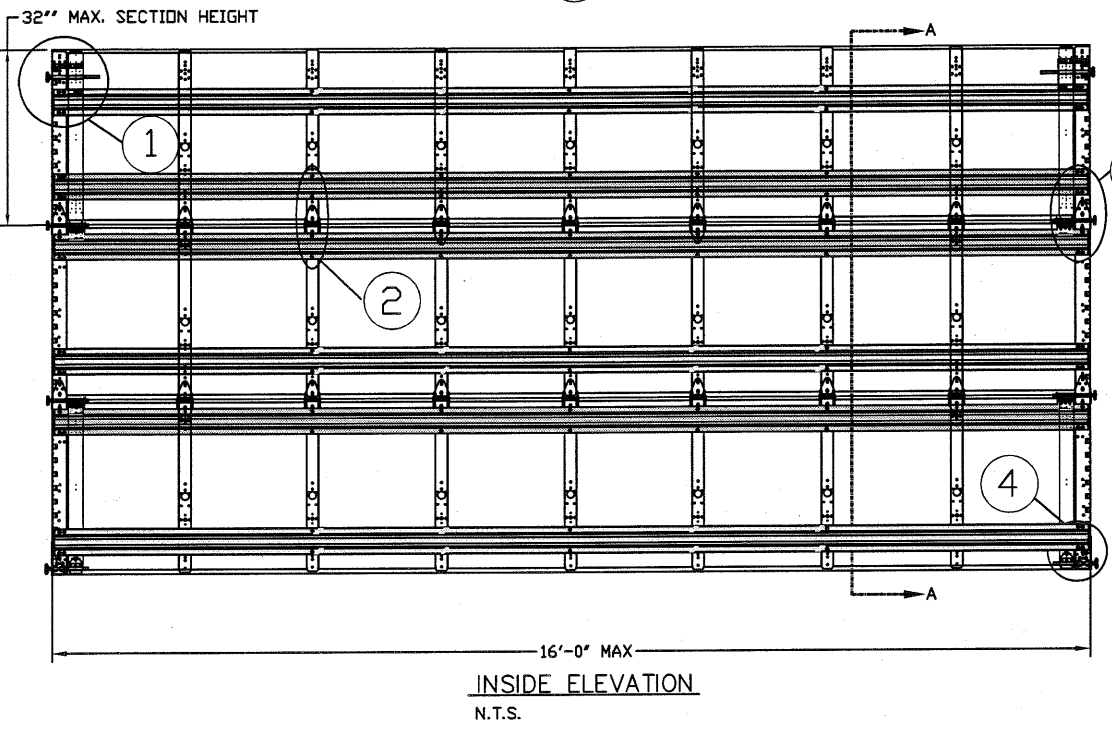
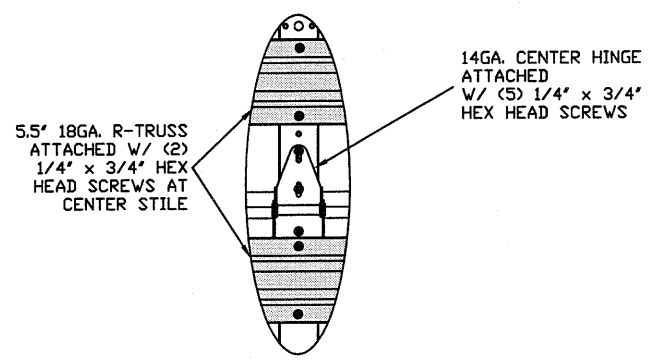
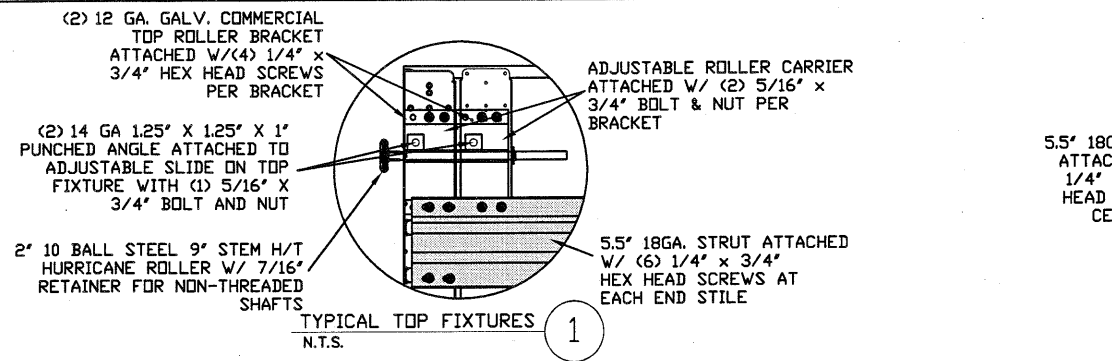


LARGE MISSILE IMPACT RESISTANCE



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16' x 14'

DESIGN LOADS +43.3 PSF -49.3 PSF

TEST LOADS (1.5 x DESIGN LOADS) +65.0 PSF -74.0 PSF

LARGE MISSILE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)

STATE OF TEXAS
THOMAS L. SHELMERDINE
85829
LICENSED PROFESSIONAL ENGINEER

TX

5921-G W. Friendly Ave., Greensboro, NC 27410

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996, AND TAS 201, 202, AND 203. 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)	219	199	189	181	173
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

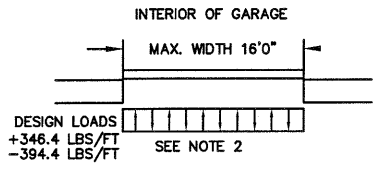
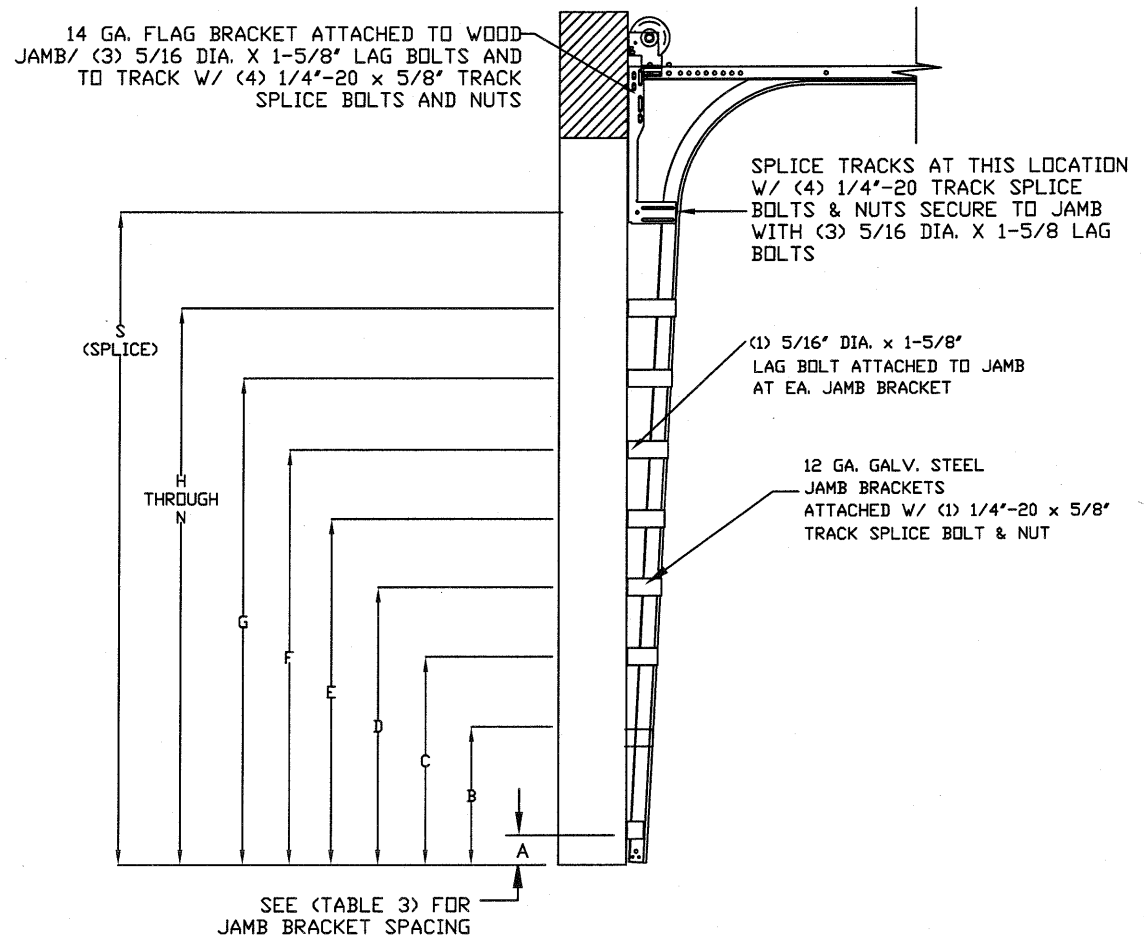
Amarr

MODEL #500 AMARR CLASSICA 1000, 2000

SIZE	DRAWN BY	DLJ	DATE	11/05/2020	DRAWING NUMBER
B	CHECKED BY	DRC	DATE	11/24/2020	IRC-5316-169-26-1

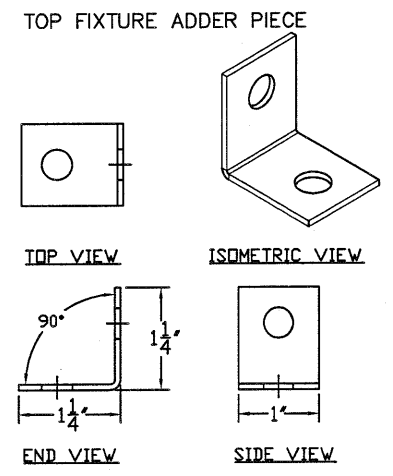
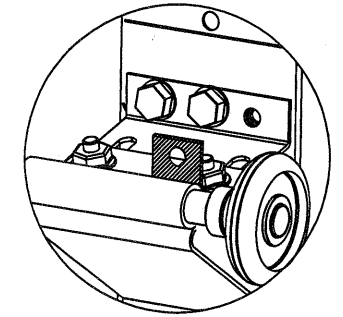
AMARR COMPANY
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105

SHEET 1 OF 3



- 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: +346.4 LBS/FT & -394.4 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, W/ BAKED ON POLYESTER FINISH
 5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
 6. DOOR IS MANUFACTURED AND TESTED IN ACCORDANCE WITH THE 2018 IRC/IBC

TOP FIXTURE REINFORCEMENT ILLUSTRATION

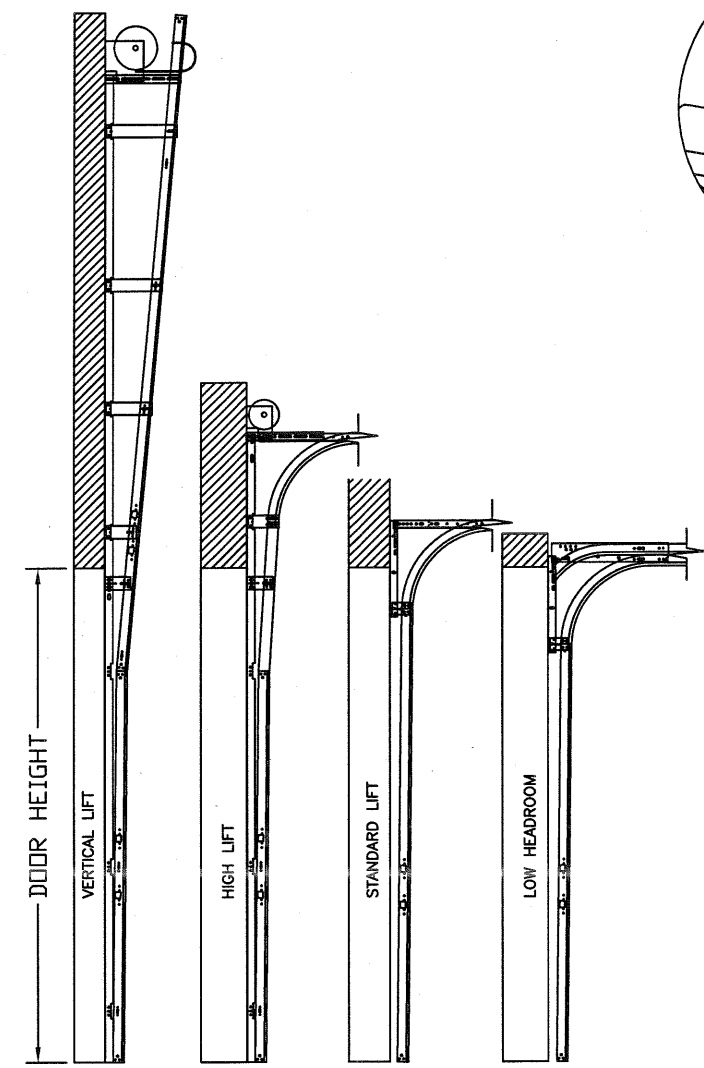
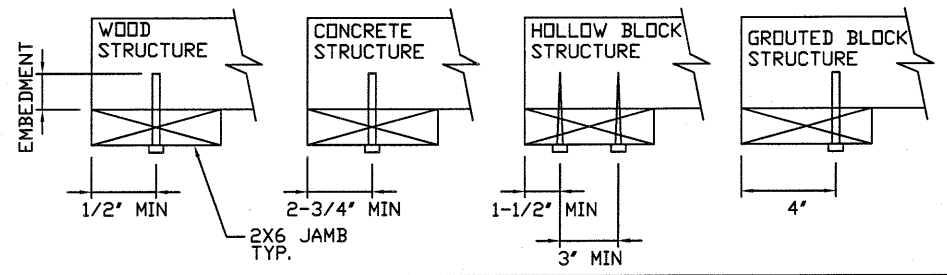


STANDARD TRACK CONFIGURATION FOR 7' AND 8' TALL DOORS
N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

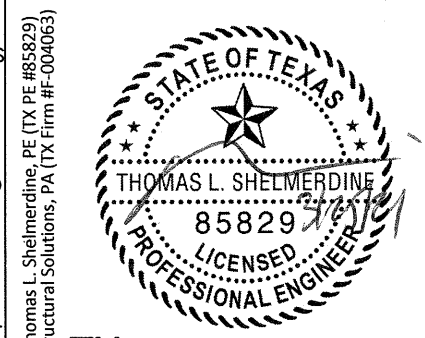
- 2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 14" O.C. (1 1/2" EMBEDMENT)
- 2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" 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 14" 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 16' x 14'		
	DESIGN LOADS +43.3 PSF -49.3 PSF		
	TEST LOADS (1.5 x DESIGN LOADS) +65.0 PSF -74.0 PSF		
	LARGE MISSILE IMPACT RESISTANCE		



MODEL #500 AMARR CLASSICA 1000, 2000

SIZE	DRAWN BY	DLJ	DATE	11/05/2020	DRAWING NUMBER
B	CHECKED BY	DRC	DATE	11/24/2020	IRC-5316-169-26-1
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 2 OF 3

TABLE 1

Section	Center Stile Locations (Measured from Left Edge)							
	Width (ft)	1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	6th (in)	7th (in)
15' 6	24.63	47.42	70.21	93.00	115.79	138.58	161.37	
15' 8	25.03	48.02	71.01	94.00	116.99	139.98	162.97	
15' 10	25.43	48.62	71.81	95.00	118.19	141.38	164.57	
16' 0	24.63	48.42	72.21	96.00	119.79	143.58	167.37	

TABLE 2

SECTION	STRUT SIZE
TOP	5.5"
	5.5"
5TH	5.5"
	5.5"
4TH	5.5"
	5.5"
3RD	5.5"
	5.5"
2ND	5.5"
	5.5"
BOTTOM	5.5"
	5.5"

TABLE 3

DOOR HEIGHT	TRACK ATTACHMENT														TYPICAL SPLICE	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N		
7' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"									76"
7' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"									82"
8' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"								88"
8' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"								94"
9' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"							100"
9' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"							106"
10' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"						112"
11' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"					124"
12' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"				136"
13' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"			148"
14' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"		160"

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

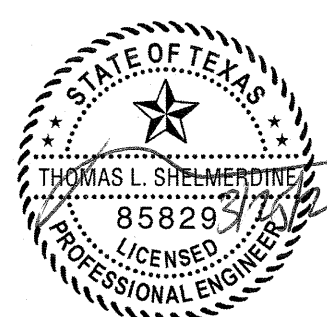
REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+43.3 PSF
-49.3 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+65.0 PSF
-74.0 PSF


LARGE MISSILE
IMPACT
RESISTANCE



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