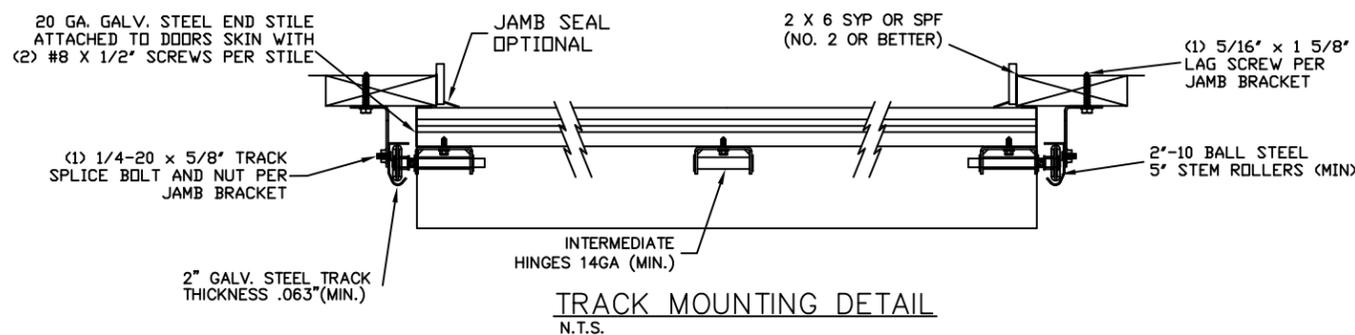
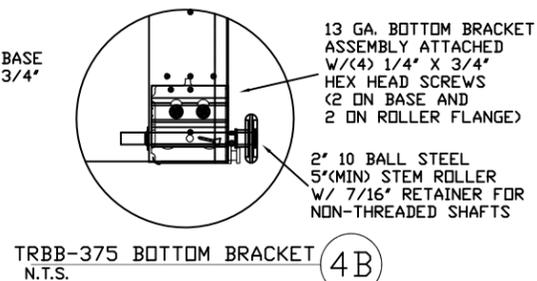
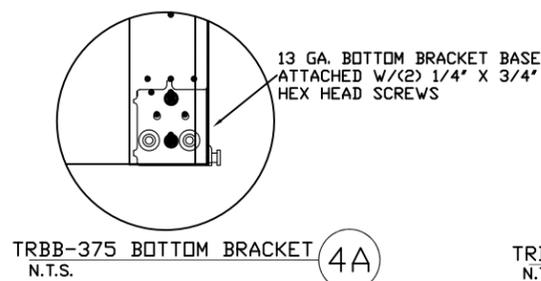
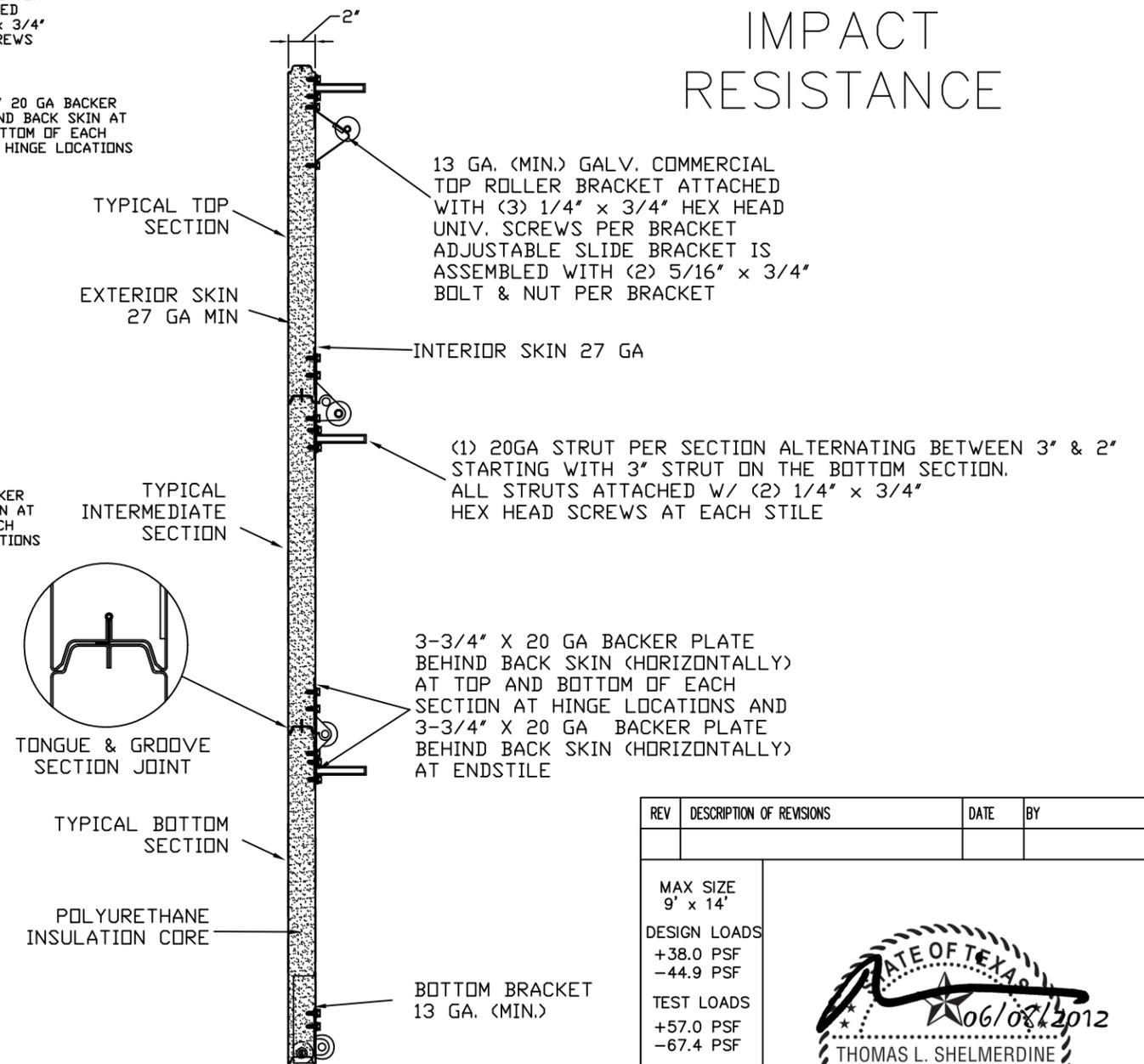
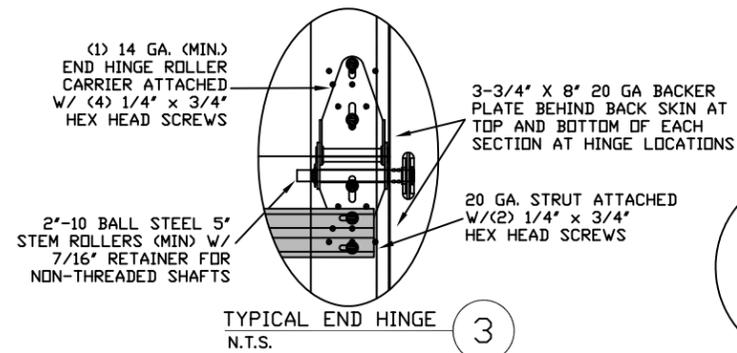
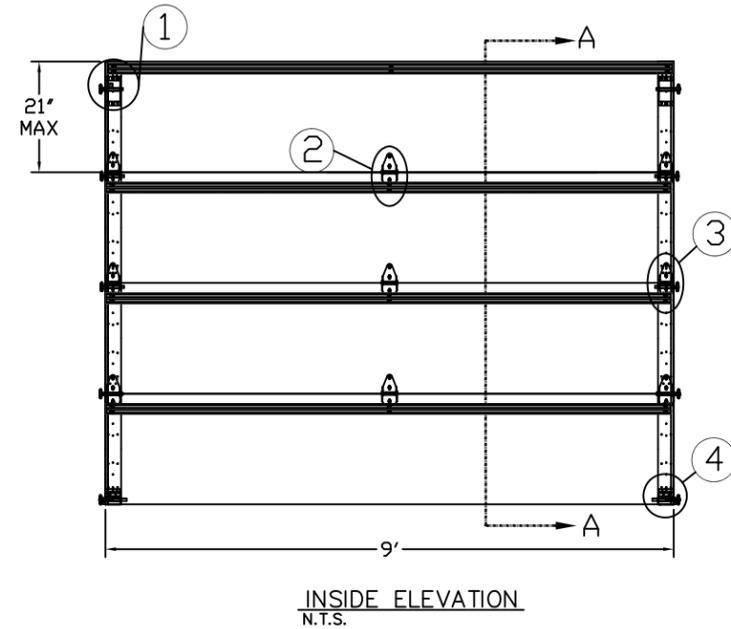
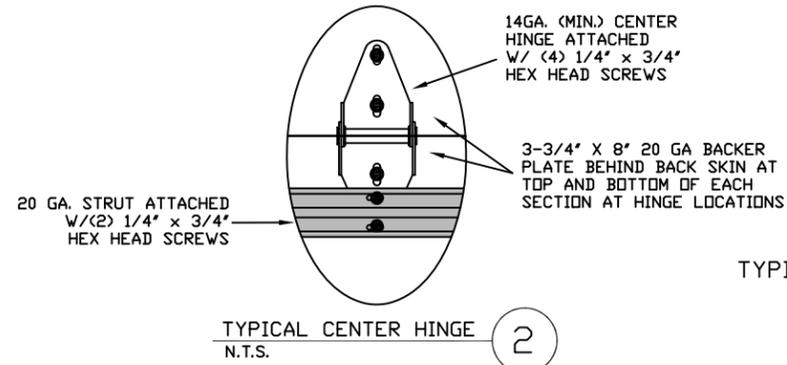
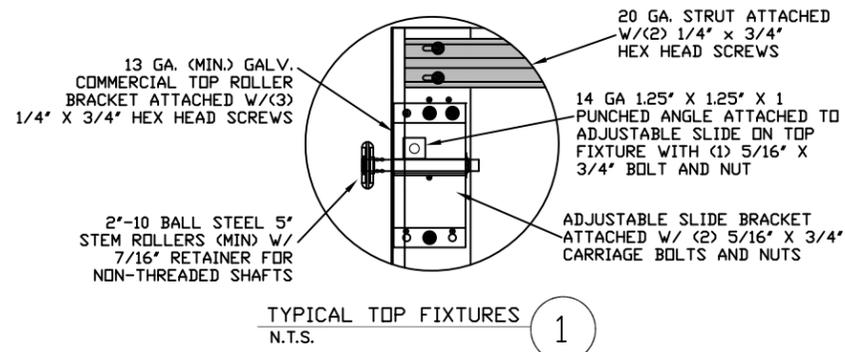


LARGE MISSILE IMPACT RESISTANCE



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASTMA 115-05, ASTM E1886-05, E1996-09, AND F588-04. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE I=1.0):

WIND SPEED (MPH)	155	141	134	128	123
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 9' x 14'

DESIGN LOADS +38.0 PSF -44.9 PSF

TEST LOADS +57.0 PSF -67.4 PSF

LARGE MISSILE IMPACT RESISTANCE



Amarr

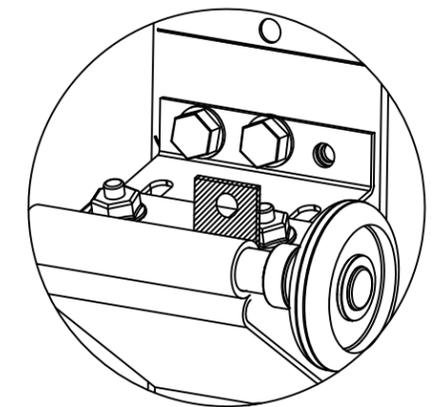
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

MODEL P500, D500 (2")
FIMBEL FLUSH, OLYMPUS, AND DESIGNERS CHOICE PANELS

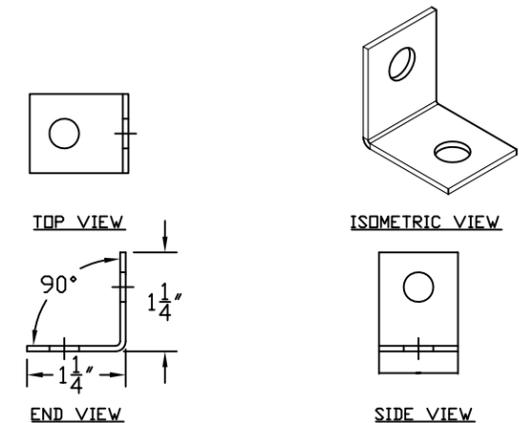
SIZE	DRAWN BY	RLR	DATE	03/16/12	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-P509-155-15-1

ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579 SHEET 1 OF 3

TOP FIXTURE REINFORCEMENT ILLUSTRATION

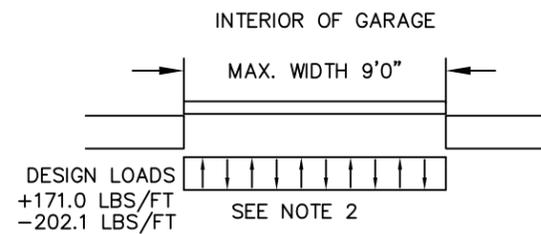


TOP FIXTURE ADDER PIECE



SPECIFICATIONS AND NOTES

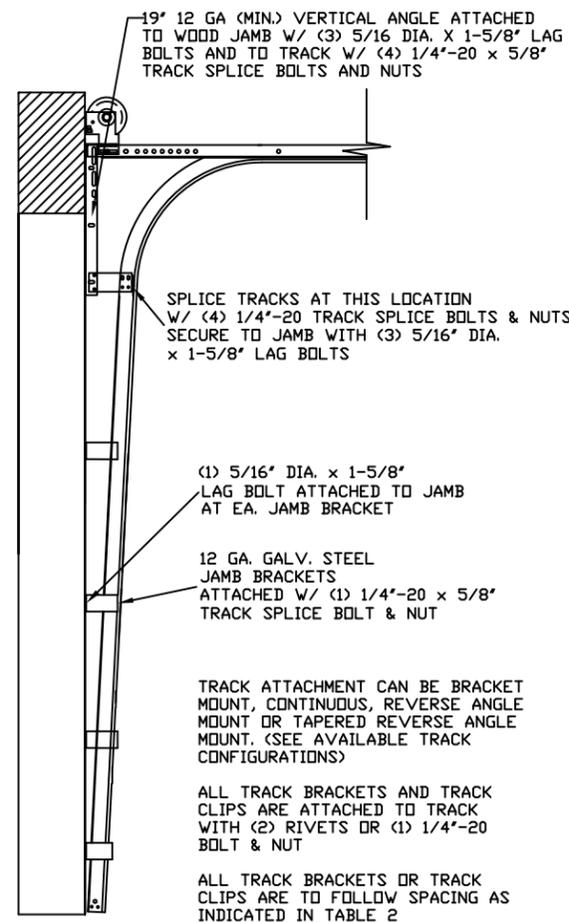
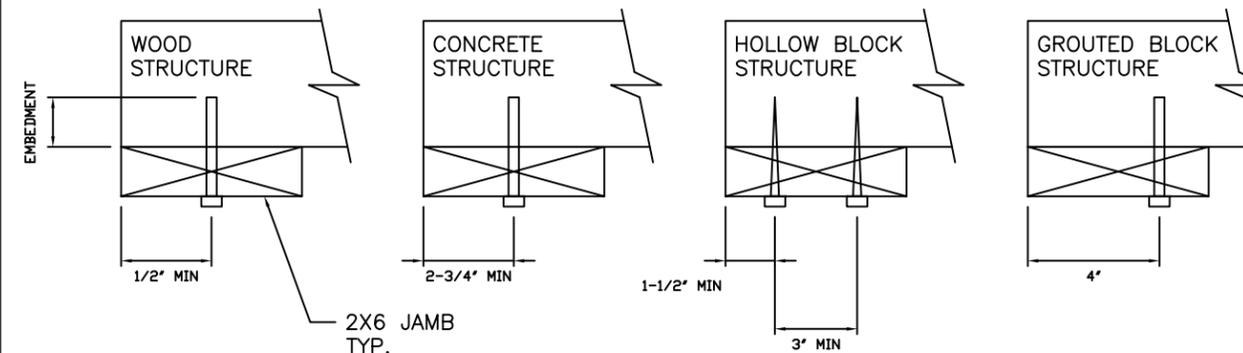
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +171.0 LBS/FT & -202.1 LBS/FT.
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27GA MIN. INTERIOR AND 27GA MIN. EXTERIOR SKIN 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. PANEL STAMP DOES NOT AFFECT WINDLOAD CAPABILITIES.



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 24" 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 24" 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 16" 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 16" 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 24" 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



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE 9' x 14'		
	DESIGN LOADS +38.0 PSF -44.9 PSF		
	TEST LOADS +57.0 PSF -67.4 PSF		
	LARGE MISSILE IMPACT RESISTANCE		
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM			
MODEL P500, D500 (2") FIMBEL FLUSH, OLYMPUS, AND DESIGNER CHOICE PANELS			
SIZE	DRAWN BY RLR	DATE 03/16/12	DRAWING NUMBER
B	CHECKED BY	DATE	IRC-P509-155-15-1
ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579			SHEET 2 OF 3

TABLE 1

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

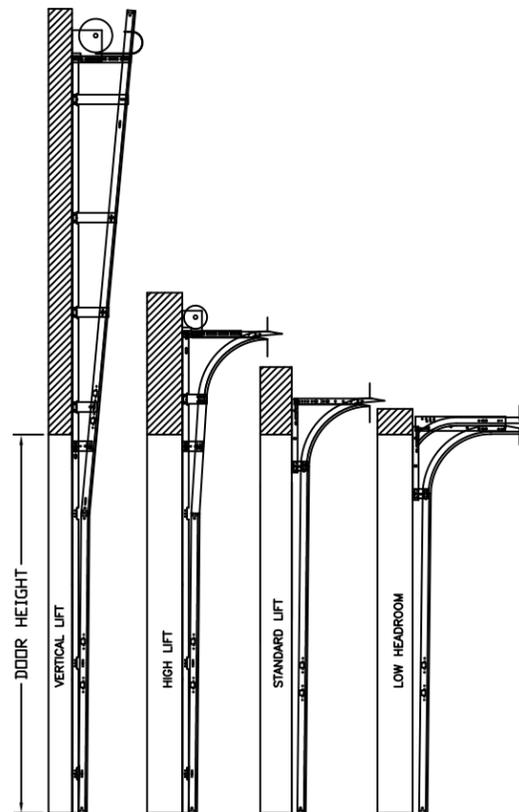
TABLE 3

Section Width (ft)	Center Stile Location (Measured from Left Edge)	
	1st (in)	2nd (in)
6' 0	24.406	47.594
7' 0	29.200	54.800
7' 2	30.200	55.800
7' 4	31.200	56.800
7' 6	32.200	57.800
7' 8	32.200	60.000
7' 10	33.000	61.000
8' 0	48.000	
8' 2	49.000	
8' 4	50.000	
8' 6	51.000	
8' 8	52.000	
8' 10	53.000	
9' 0	54.000	

TABLE 2

HEIGHT	TRACK ATTACHMENT						SPLICE
	A	B	C	D	E	F	
6' 0"	10"	38"					64"
6' 6"	10"	38"	63"				70"
7' 0"	10"	38"	63"				76"
7' 6"	10"	38"	63"				82"
8' 0"	10"	38"	63"				88"
8' 6"	10"	38"	63"				94"
9' 0"	10"	38"	63"	88"			100"
9' 6"	10"	38"	63"	88"			106"
10' 0"	10"	38"	63"	88"			112"
10' 6"	10"	38"	63"	88"			118"
11' 0"	10"	38"	63"	88"	112"		124"
11' 6"	10"	38"	63"	88"	112"		130"
12' 0"	10"	38"	63"	88"	112"		136"
12' 6"	10"	38"	63"	88"	112"		142"
13' 0"	10"	38"	63"	88"	112"	136"	148"
13' 6"	10"	38"	63"	88"	112"	136"	154"
14' 0"	10"	38"	63"	88"	112"	136"	160"

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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9' x 14' DESIGN LOADS +38.0 PSF -44.9 PSF TEST LOADS +57.0 PSF -67.4 PSF LARGE MISSILE IMPACT RESISTANCE			
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM			
MODEL P500, D500 (2") FIMBEL FLUSH, OLYMPUS, AND DESIGNERS CHOICE PANELS			
SIZE	DRAWN BY	RLR	DATE 03/16/12
B	CHECKED BY		DATE
ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579			DRAWING NUMBER IRC-P509-155-15-1 SHEET 3 OF 3