

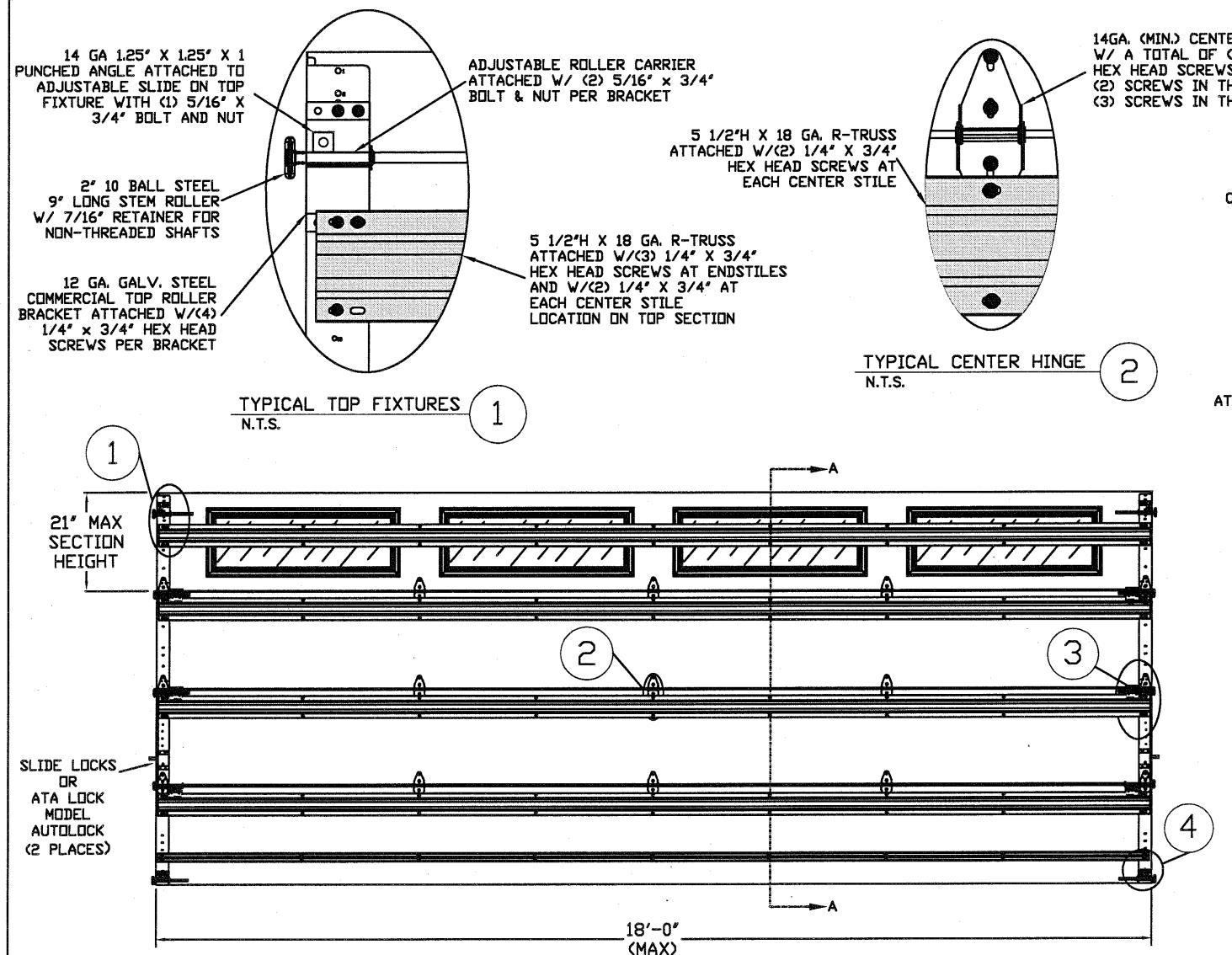
LARGE MISSILE
IMPACT RESISTANT

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):

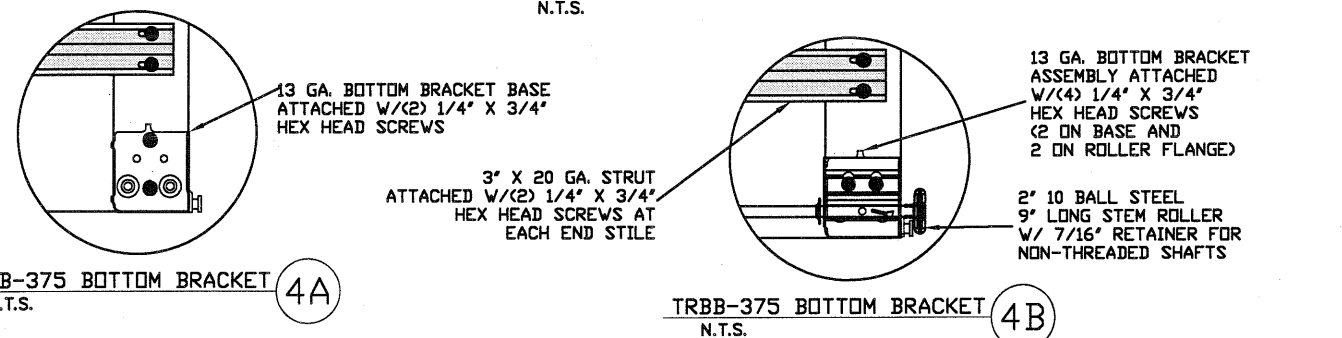
WIND SPEED (MPH)	200	181	172	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

SPECIFICATIONS AND NOTES

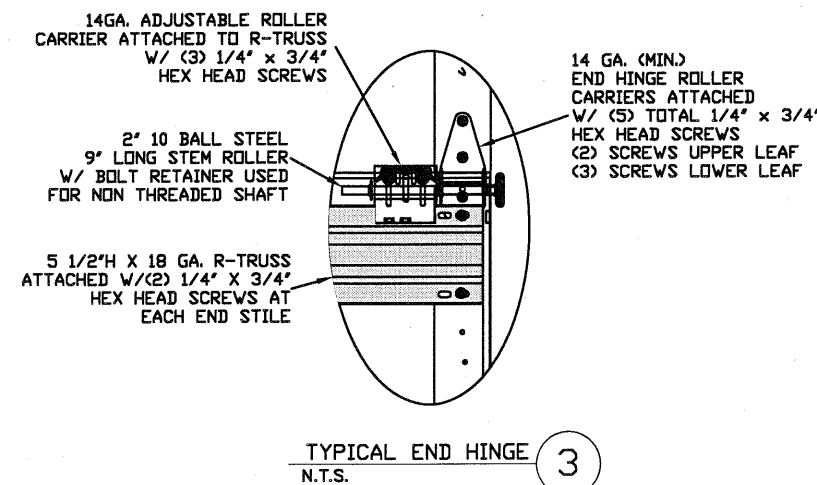
1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +333.0 LBS/FT & -365.4 LBS/FT
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.0151") ROLLED FORMED LIGHT COMMERCIAL QUALITY
3. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



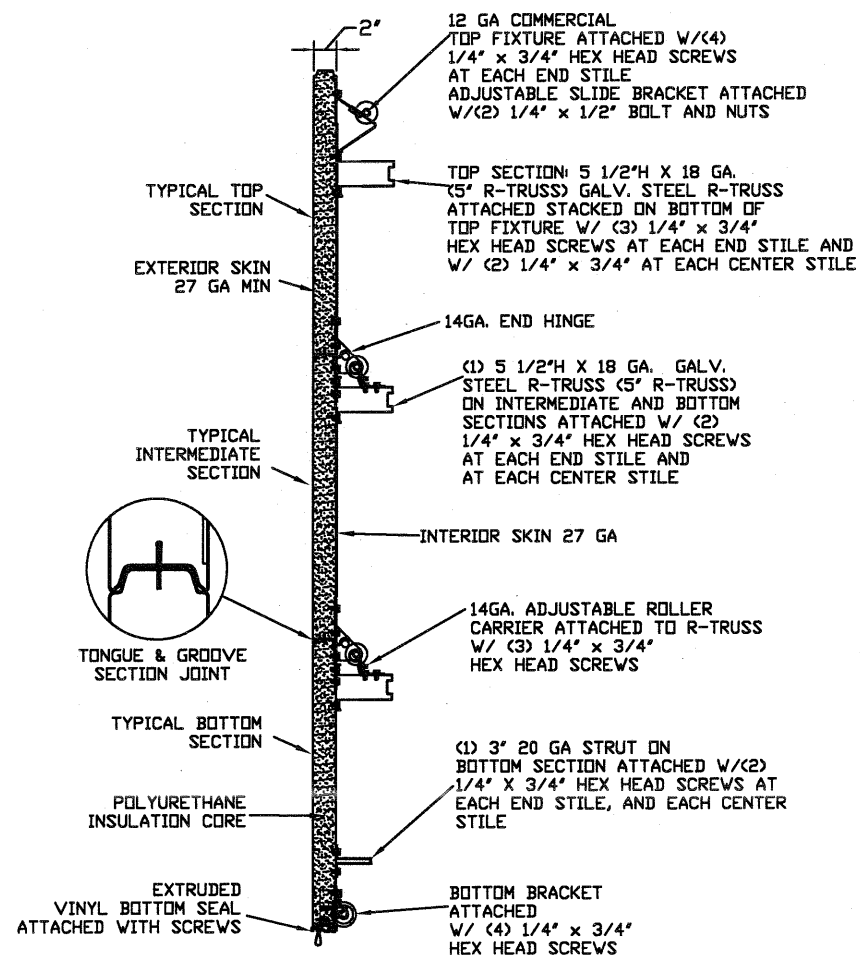
INSIDE ELEVATION
N.T.S.



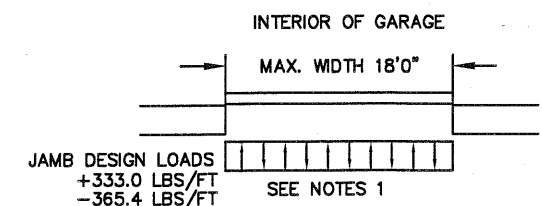
TRACK MOUNTING DETAIL
N.T.S.



TYPICAL END HINGE
N.T.S.



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



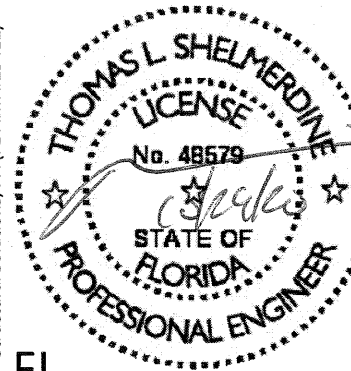
REV	DESCRIPTION OF REVISIONS	DATE	BY

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

DESIGN LOADS
+37.0 PSF
-40.6 PSF

TEST LOADS
+55.5 PSF
-60.9 PSF

Thomas L. Sheldermine, 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

Amar

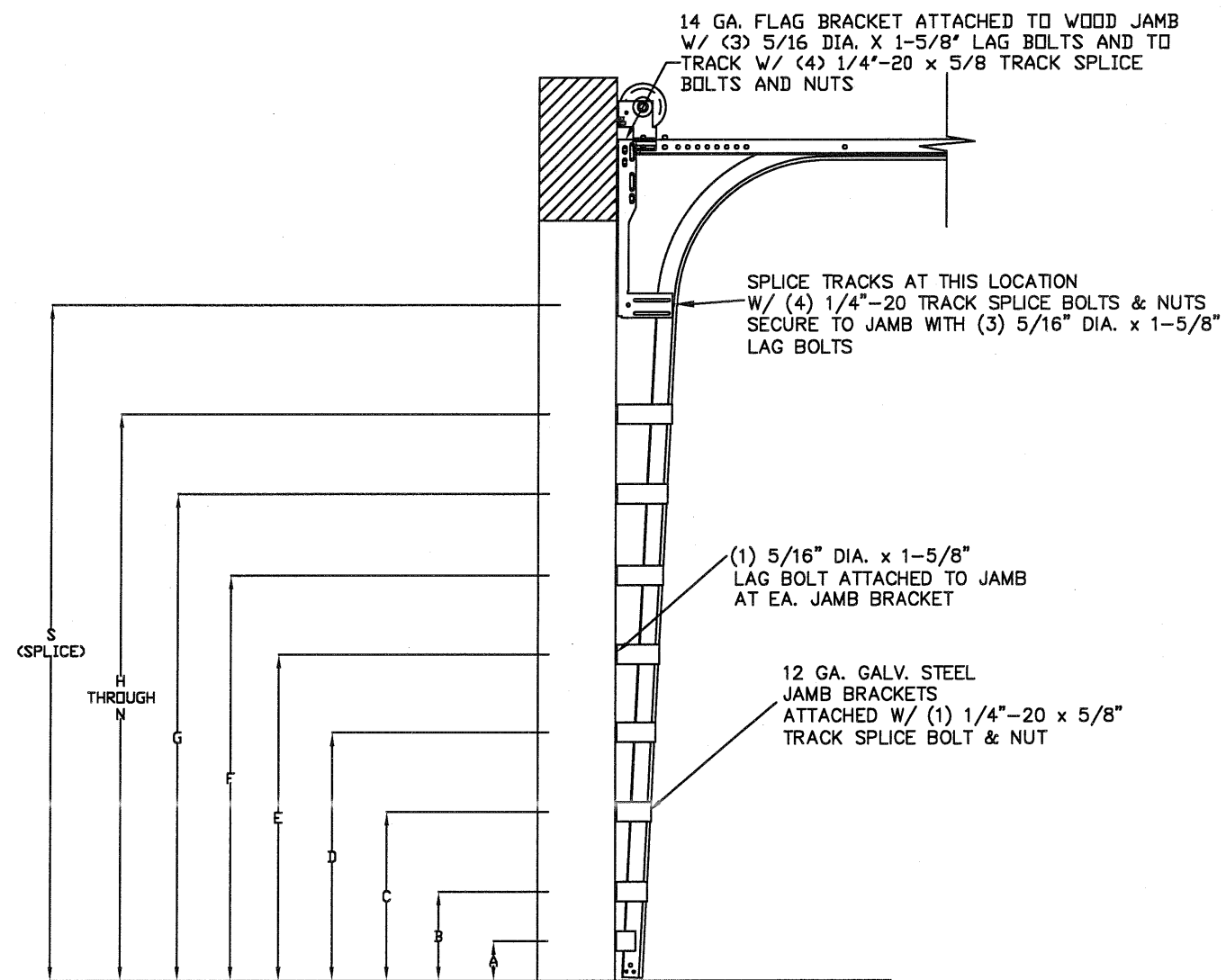
MODEL P500 AMARR OLYMPUS 500
MODEL D500 AMARR DESIGNERS CHOICE DC500

SIZE B	DRAWN BY	RLR	DATE	02/06/18	DRAWING NUMBER IRC-P518-155-26-1
	CHECKED BY	RLR	DATE	02/06/18	
ENTREMTIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 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 $\pm 1"$ ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY



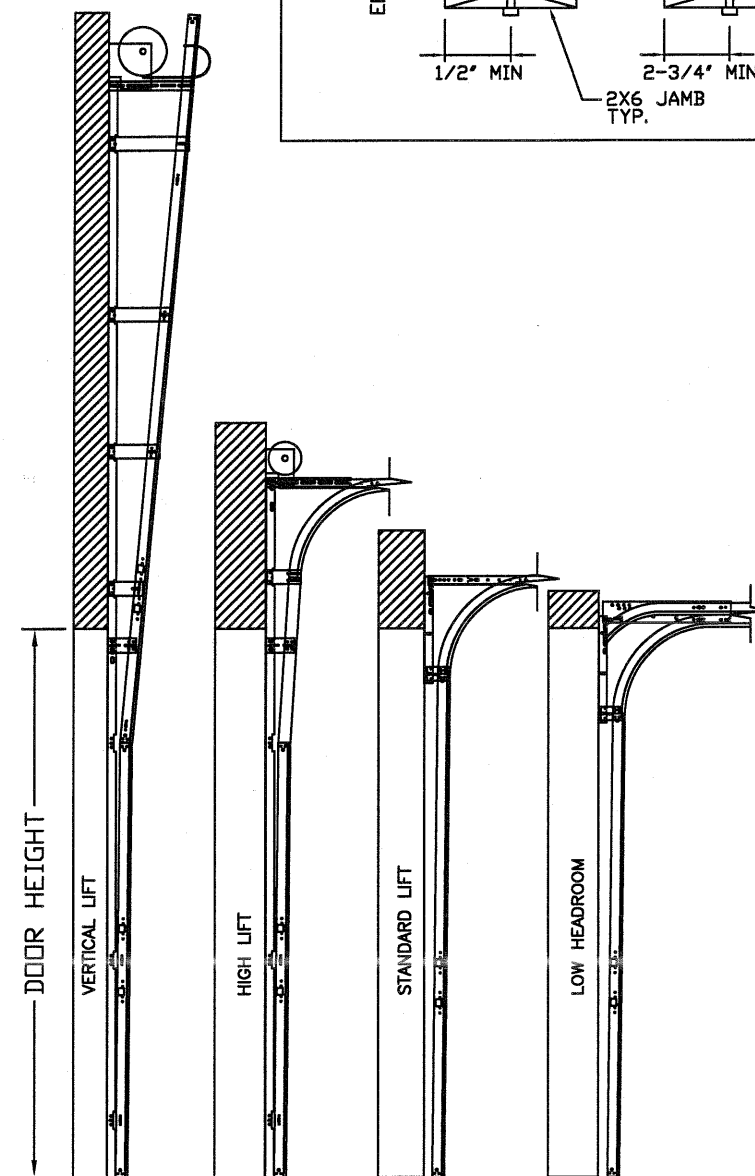
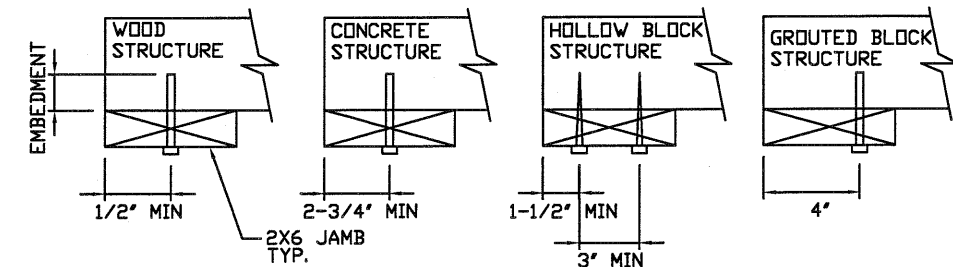
SEE TABLE 1 FOR JAMB BRACKET SPACING
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS

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/RAMSEY 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.

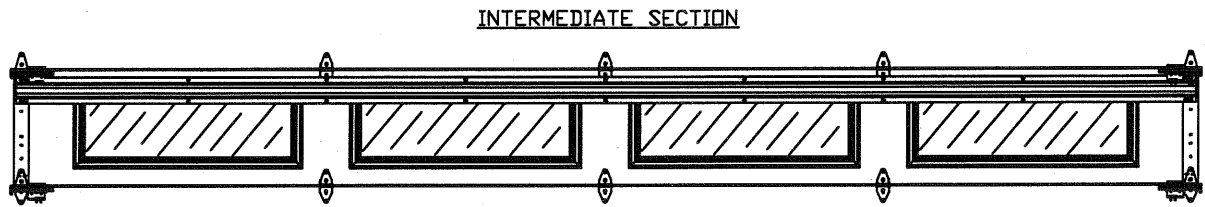
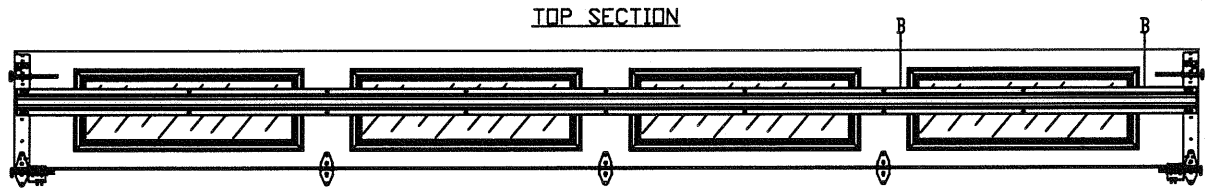
REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS) DESIGN LOADS +37.0 PSF -40.6 PSF TEST LOADS +55.5 PSF -60.9 PSF	Thomas L. Sheldermine, 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

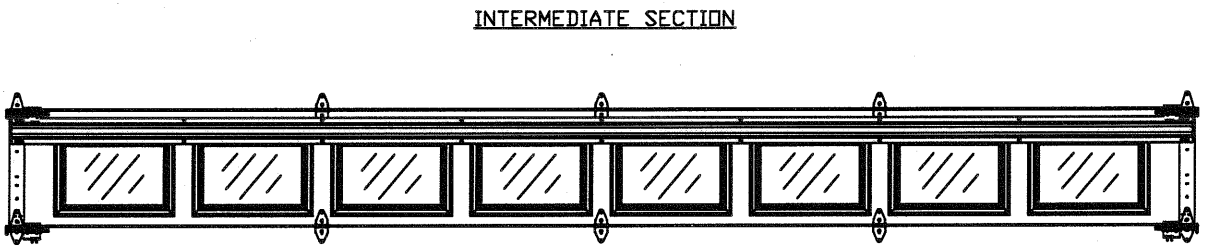
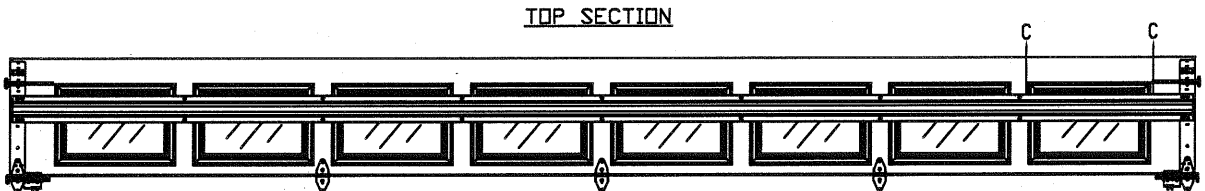
MODEL P500 AMARR OLYMPUS 500			
MODEL D500 AMARR DESIGNERS CHOICE DC500			
SIZE B	DRAWN BY	R/LR	DATE 02/06/18
	CHECKED BY	R/LR	DATE 02/06/18
			DRAWING NUMBER IRC-P518-155-26-1
ENTREMATICA 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 2 OF 3

TABLE 2

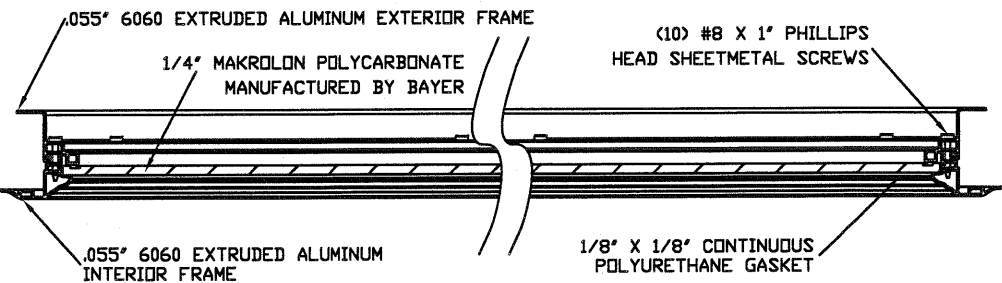
Section		Center Stile Locations (Measured from Left)			Max Design Loads Allowed	
Width (ft)		1st (in)	2st (in)	3rd (in)	Positive (PSF)	Negative (PSF)
16'	2	50.27	97.00	143.73	41.0	45.0
16'	4	51.27	98.00	144.73	40.6	44.5
16'	6	52.27	99.00	145.73	40.2	44.1
16'	8	51.34	100.00	148.66	39.8	43.6
16'	10	51.50	101.00	150.50	39.4	43.2
17'	0	53.34	102.00	150.66	39.0	42.8
17'	2	53.00	103.00	153.00	38.6	42.4
17'	4	54.00	104.00	154.00	38.2	42.0
17'	6	55.00	105.00	155.00	37.9	41.6
17'	8	54.80	106.00	157.20	37.5	41.2
17'	10	55.80	107.00	158.20	37.2	40.8
18'	0	57.25	108.00	158.75	37.0	40.6



OPTIONAL LONG PANEL GLAZED SECTION R-TRUSS AND STILE LAYOUT
N.T.S.

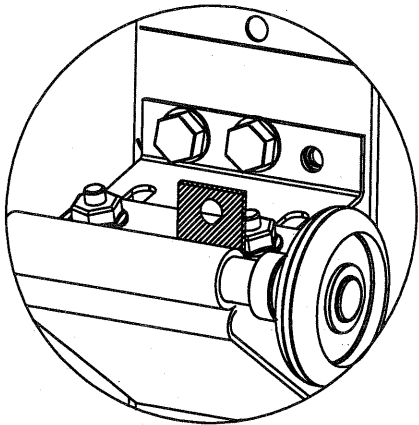


OPTIONAL SHORT PANEL GLAZED SECTION R-TRUSS AND STILE LAYOUT
N.T.S.

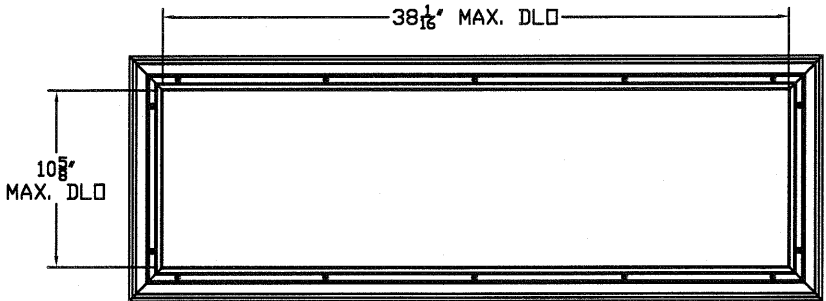
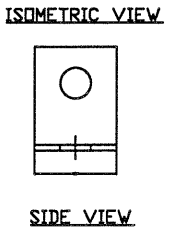
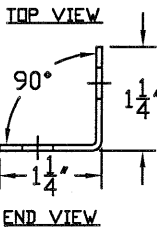
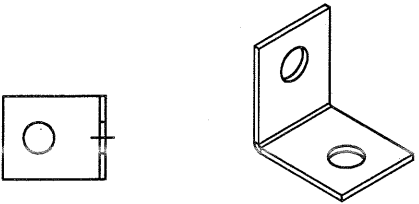


SECTION B-B IMPACT WINDOW DETAIL
N.T.S.

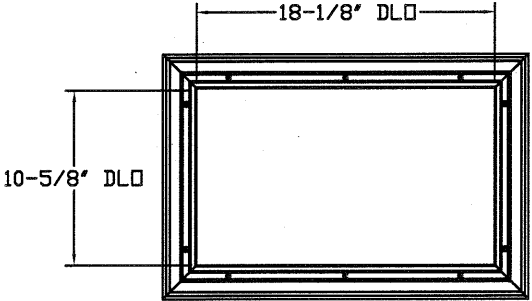
TOP FIXTURE REINFORCEMENT
ILLUSTRATION



TOP FIXTURE ADDER PIECE



LONG PANEL GLAZING FASTENER DETAIL
N.T.S.



SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

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14' HEIGHT
(DOOR HEIGHT
SUBJECT TO
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-40.6 PSF

TEST LOADS
+55.5 PSF
-60.9 PSF

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Structural Solutions, PA (FL Firm #29412)

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

Amarr

MODEL P500 AMARR OLYMPUS 500
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SHEET 3 OF 3