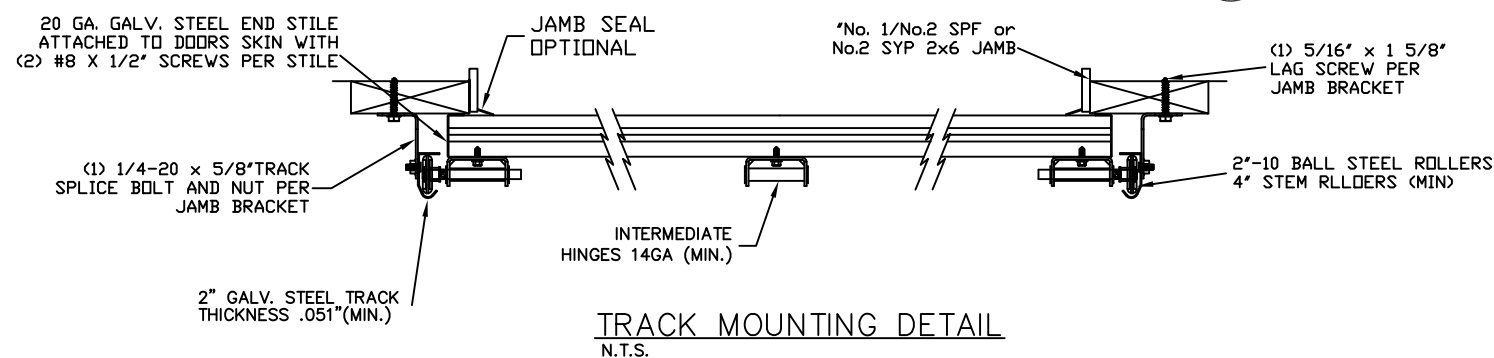
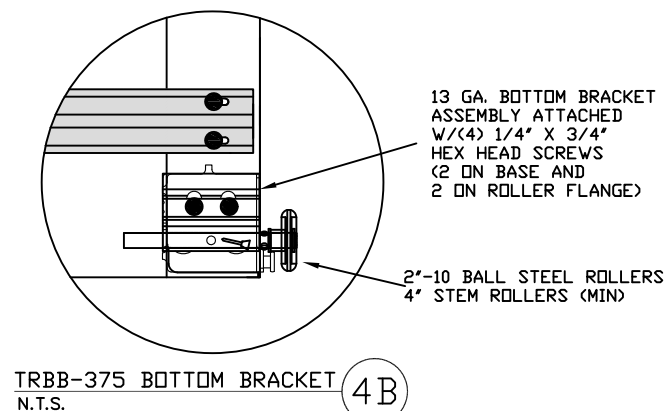
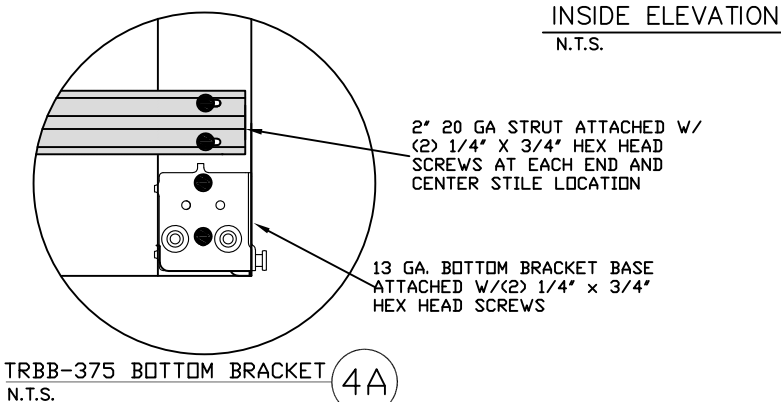
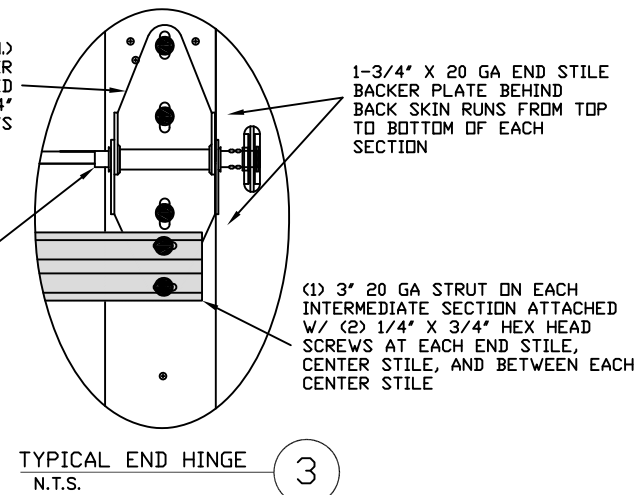
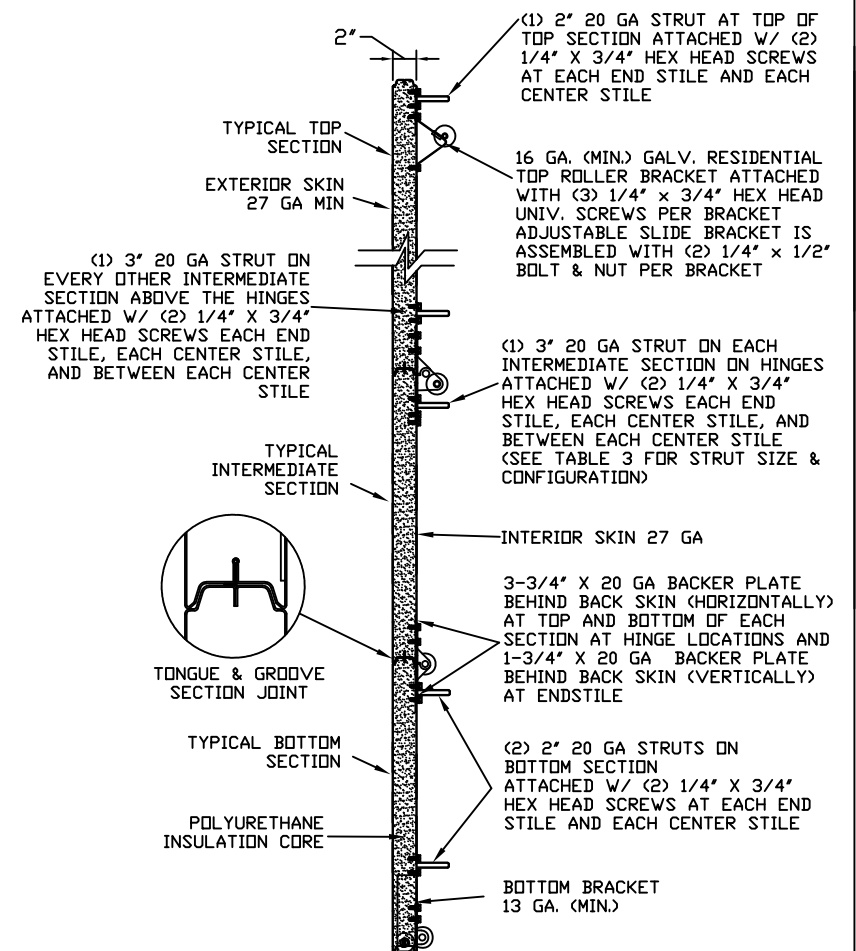
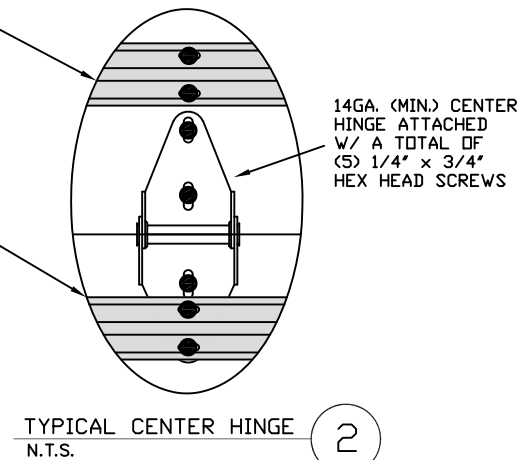
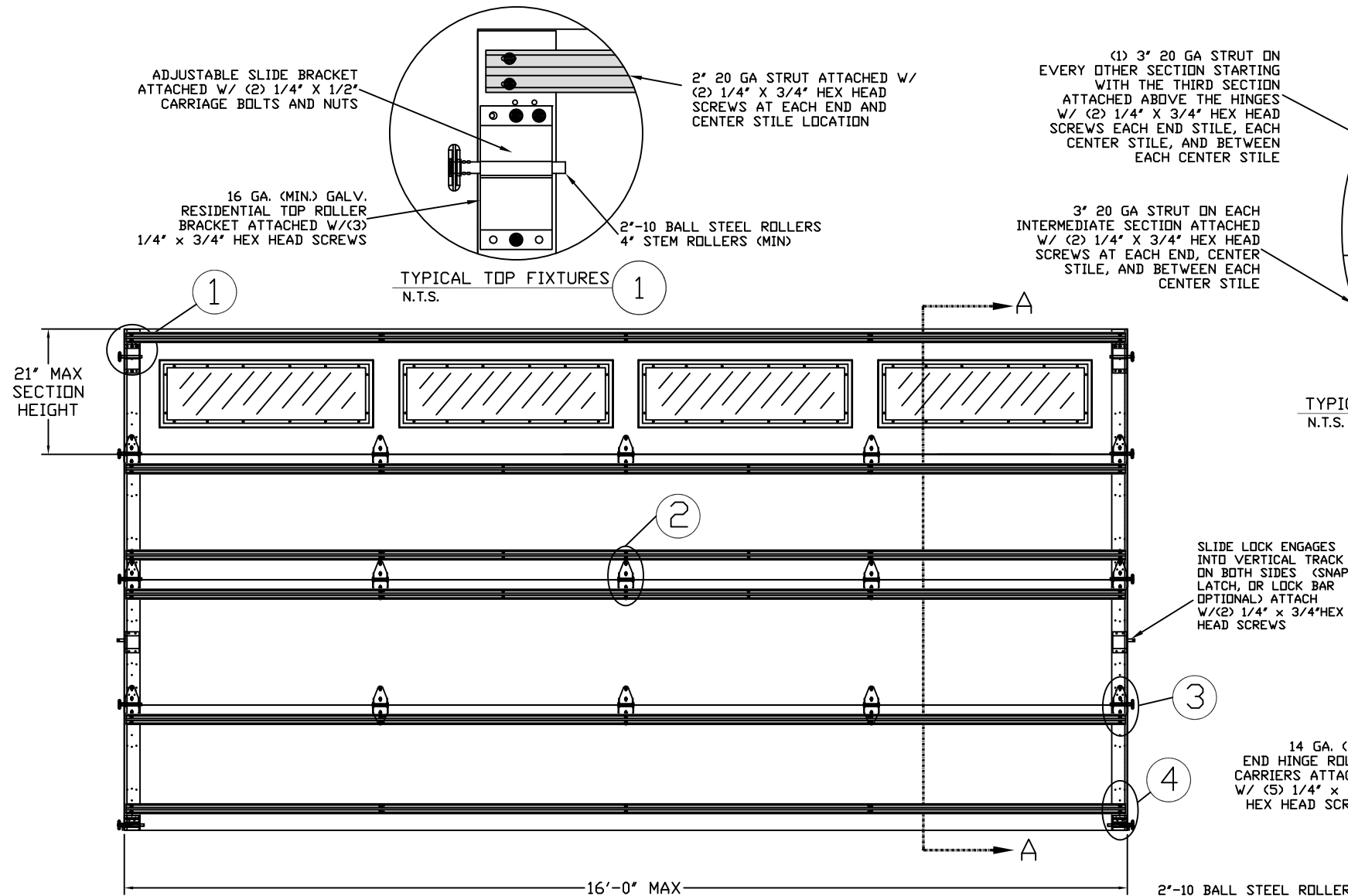




THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	142	129	122	117	112
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+18.3 PSF
-20.8 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+27.5 PSF
-31.2 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

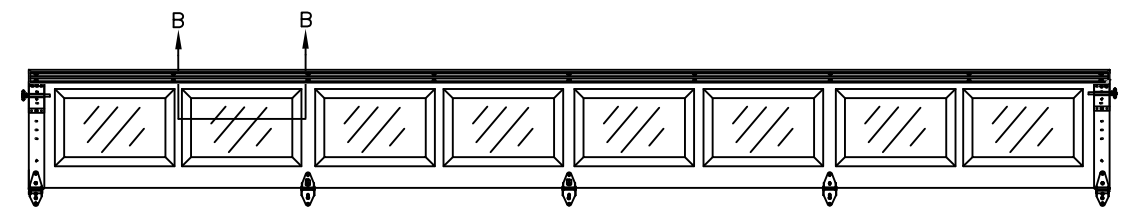
FL

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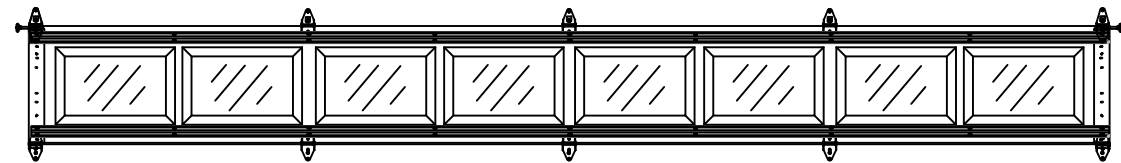
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Date: 2024.06.19 09:04:41 -04'00'

MODEL P500 AMARR OLYMPUS 500 MODEL D500 AMARR DESIGNERS CHOICE DC500			
SIZE	DRAWN BY	RLR	DATE 08/01/16
B	CHECKED BY	RLR	DATE 08/01/16
DRAWING NUMBER			165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105
SHEET 1 OF 4			IRC-P516-110-15

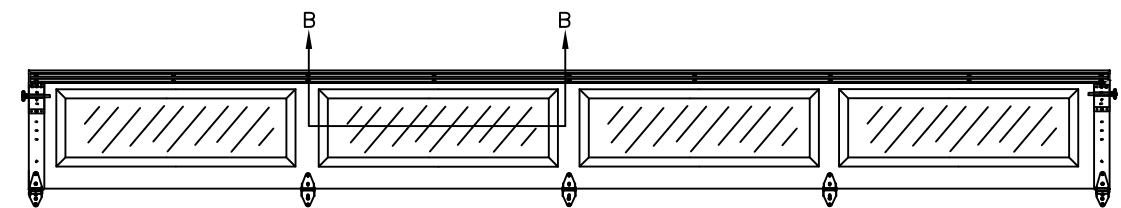
OPTIONAL SHORT, LONG AND SLIMLINE PANEL GLAZING LAYOUTS
GLAZING MEETS ASTM E1300-04



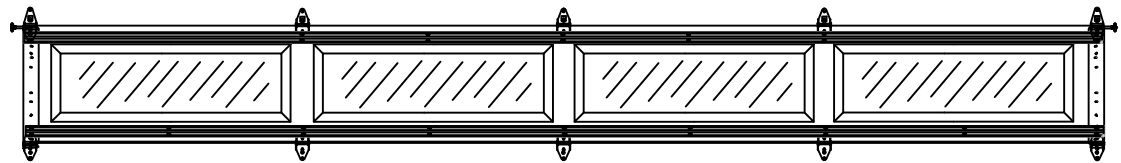
TOP SECTION



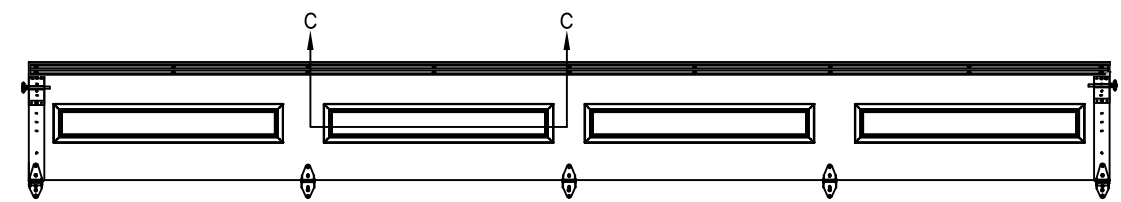
INTERMEDIATE SECTION



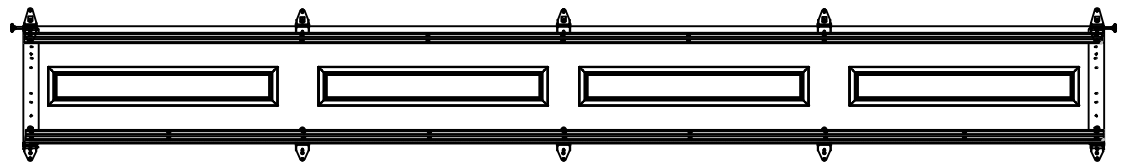
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INTERMEDIATE SECTION



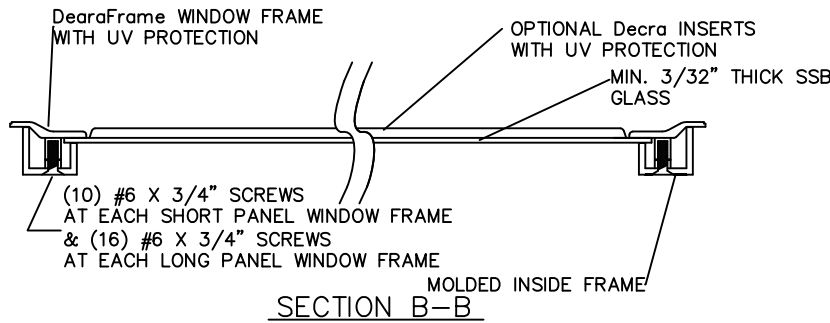
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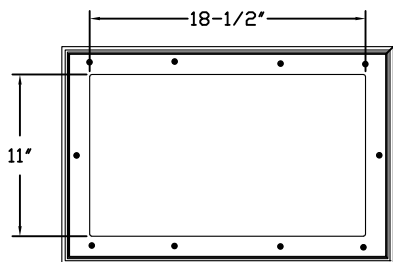
INTERMEDIATE SECTION

GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING MEETS ASTM E1300-04

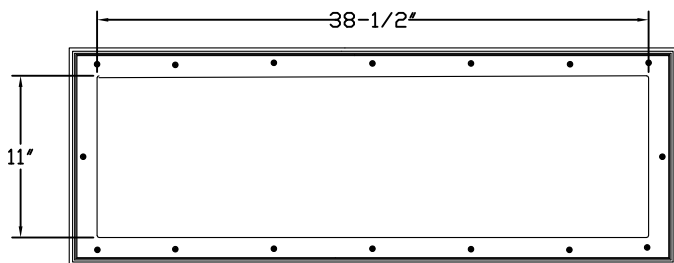


SECTION B-B



SHORT PANEL GLAZING FASTENER DETAIL

N.T.S.

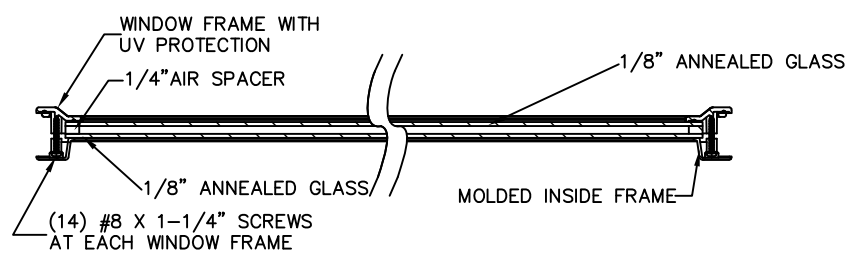


LONG PANEL GLAZING FASTENER DETAIL

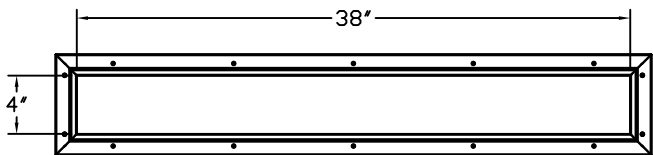
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GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING MEETS ASTM E1300-04



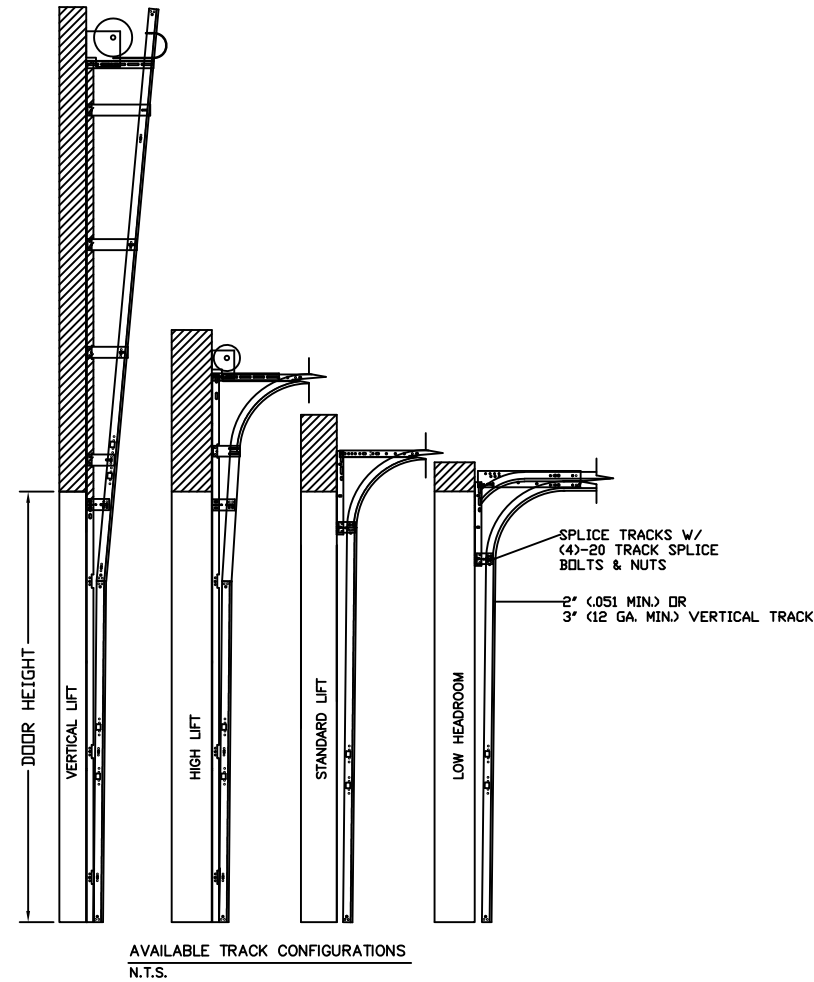
SECTION C-C



SLIMLINE PANEL GLAZING FASTENER DETAIL

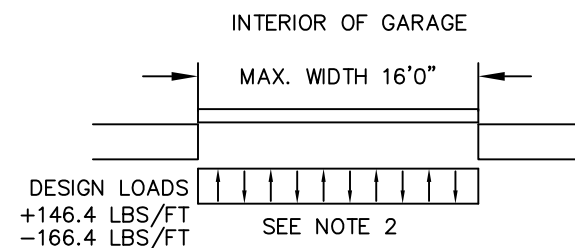
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE, 16' x 14' DESIGN LOADS +18.3 PSF -20.8 PSF TEST LOADS (1.5 x DESIGN LOADS) +27.5 PSF -31.2 PSF THOMAS L. SHELMERDINE LICENSE No. 48579 See Digital Signature STATE OF FLORIDA PROFESSIONAL ENGINEER 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. 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			
Amarr MODEL P500 AMARR OLYMPUS 500 MODEL D500 AMARR DESIGNERS CHOICE DC500			
SIZE	DRAWN BY RLR	DATE 08/01/16	DRAWING NUMBER
B	CHECKED BY RLR	DATE 08/01/16	IRC-P516-110-15
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 2 OF 4



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: +146.4 LBS/FT & -166.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR AND INTERIOR SKIN, ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 14'0" SEE TABLE 3 FOR STRUT CONFIGURATION.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

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 24" 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 24" O.C. (1 1/4" EMBEDMENT)

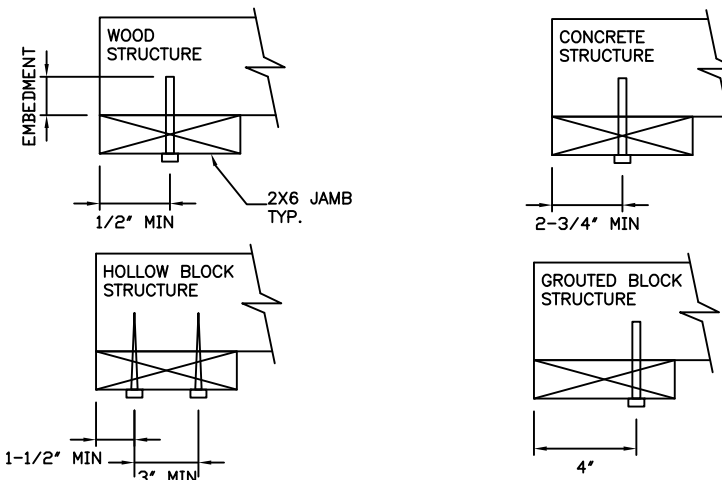
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

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



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 MODEL P500 AMARR OLYMPUS 500 MODEL D500 AMARR DESIGNERS CHOICE DC500			
SIZE B DRAWN BY RLR CHECKED BY RLR		DATE 08/01/16 DATE 08/01/16 DRAWING NUMBER IRC-P516-110-15	
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105		SHEET 3 OF 4	

TABLE 1

DOOR HEIGHT		TRACK ATTACHMENT						TYPICAL SPLICE
		A	B	C	D	E	F	
7'	0"	10.0"	34"	58"				76"
7'	6"	10.0"	34"	58"				82"
8'	0"	10.0"	34"	58"				88"
9'	0"	10.0"	34"	58"	82"			100"
9'	6"	10.0"	34"	58"	82"			106"
10'	0"	10.0"	34"	58"	82"			112"
11'	0"	10.0"	34"	58"	82"	106"		124"
12'	0"	10.0"	34"	58"	82"	106"		136"
13'	0"	10.0"	34"	58"	82"	106"	130"	148"
14'	0"	10.0"	34"	58"	82"	106"	130"	160"

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

TABLE 3

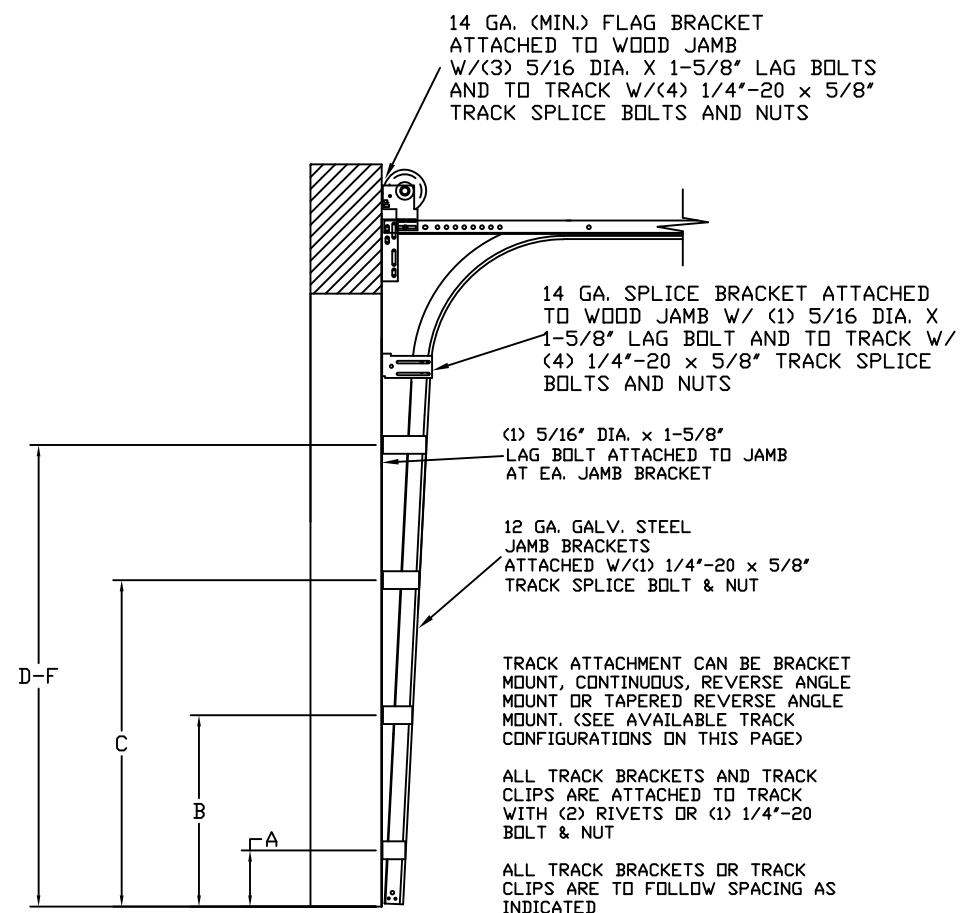
DOOR HEIGHT	SECTION											
	Btm		#2	#3		#4	#5		#6	#7		#8
12' 6"-14'-0"	2"	2"	3"	3"	3"	3"	3"	3"	3"	3"	3"	2"
10' 9"-12'-3"	2"	2"	3"	3"	3"	3"	3"	3"	3"	2"		
9' 0"-10'-6"	2"	2"	3"	3"	3"	3"	3"	3"	2"			
7' 6"-8'-9"	2"	2"	3"	3"	3"	3"	2"					
6' 0"-7'-0"	2"	2"	3"	3"	3"	2"						

TABLE 4

SECTION	STRUT SIZE
8TH	2"
7TH	3"
	3"
6TH	3"
5TH	3"
	3"
4TH	3"
3RD	3"
	3"
2ND	3"
BOTTOM	2"
	2"

TABLE 2

Section	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
Width (ft)		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
13' 10	Short	57.16	82.94	108.71		21.1	24.0
13' 10	Designers Choice	56.56	109.44			16.0	18.2
14' 0	Short	57.76	83.94	110.11		20.9	23.7
14' 0	Designers Choice	57.31	110.69			15.8	18.0
14' 2	Short	58.85	84.94	111.41		20.6	23.4
14' 2	Designers Choice	58.06	111.94			15.6	17.8
14' 4	Short	59.16	85.94	112.71		20.4	23.2
14' 4	Designers Choice	58.81	113.19			15.5	17.6
14' 6	Short	59.86	86.94	114.01		20.1	22.9
14' 6	Designers Choice	59.56	114.44			15.3	17.4
14' 8	Short	60.56	87.94	115.31		19.9	22.6
14' 8	Designers Choice	60.31	115.69			15.1	17.2
14' 10	Short	61.26	88.94	116.61		19.7	22.4
14' 10	Designers Choice	61.06	116.94			15.0	17.0
15' 0	Short	61.94	89.94	117.94		19.5	22.1
15' 0	Designers Choice	61.81	118.19			14.8	16.8
15' 2	Short	62.66	90.94	119.21		19.3	21.9
15' 2	Designers Choice	62.56	119.44			14.7	16.7
15' 4	Short	53.60	79.20	104.80	130.40	19.0	21.7
15' 4	Designers Choice	63.31	120.69			14.5	16.5
15' 6	Short	46.62	93.00	139.38		18.8	21.4
15' 6	Designers Choice	47.42	93.00	138.58		18.8	21.4
15' 8	Short	47.62	94.00	140.38		18.6	21.2
15' 8	Designers Choice	48.02	94.00	139.98		18.6	21.2
15' 10	Short	48.62	95.00	141.38		18.4	21.0
15' 10	Designers Choice	48.62	95.00	141.38		18.4	21.0
16' 0	Short	49.62	96.00	142.38		18.3	20.8
16' 0	Designers Choice	48.42	96.00	143.58		18.3	20.8



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS
SEE TABLE 1

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16' x 14' DESIGN LOADS +18.3 PSF -20.8 PSF TEST LOADS (1.5 x DESIGN LOADS) +27.5 PSF -31.2 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. 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	
			
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DRAWING NUMBER			IRC-P516-110-15
SHEET 4			OF 4