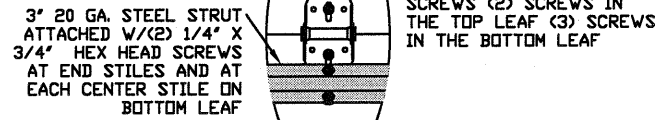
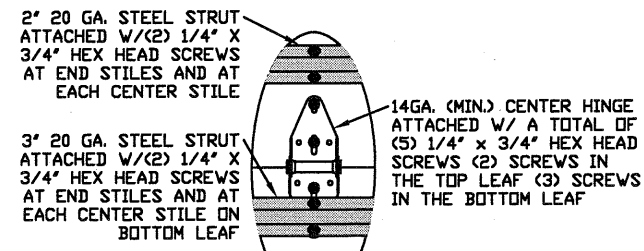


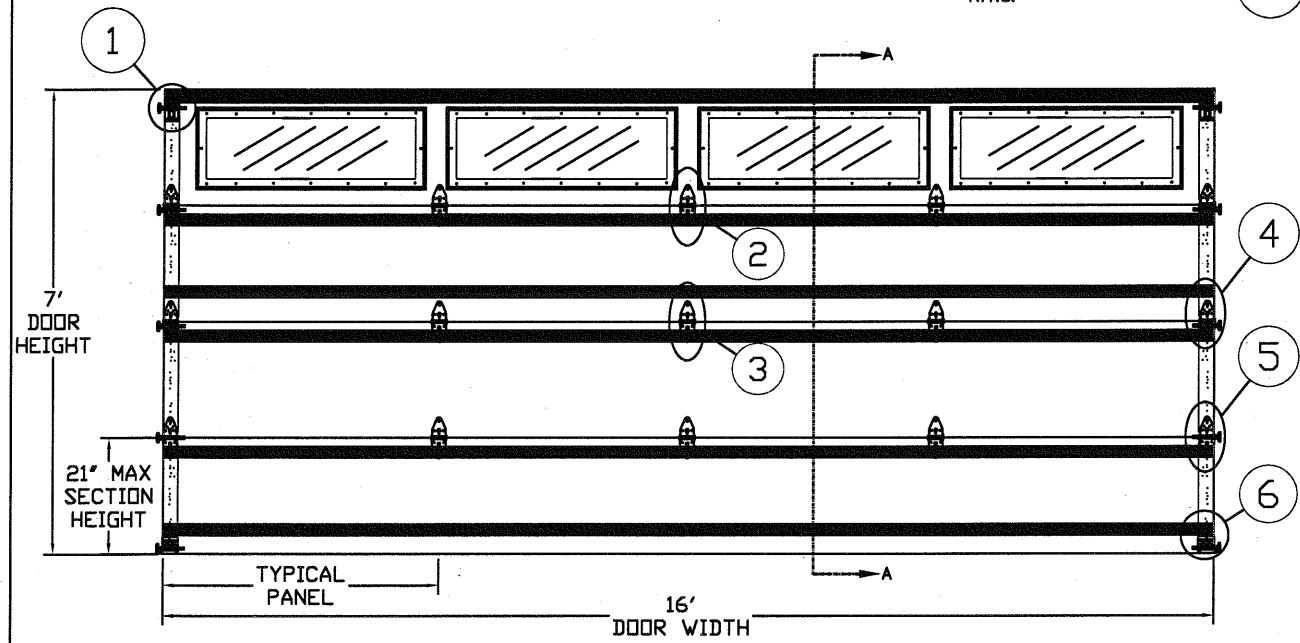
TYPICAL TOP FIXTURE
N.T.S. 1



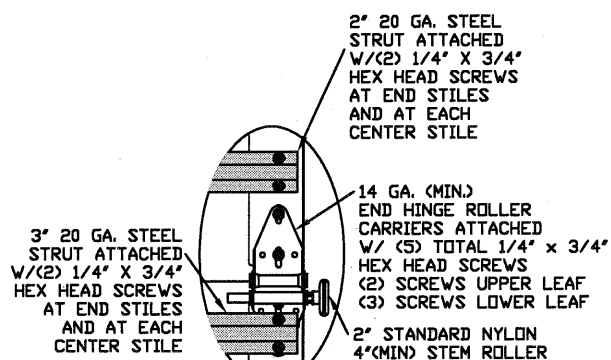
TYPICAL CENTER HINGE
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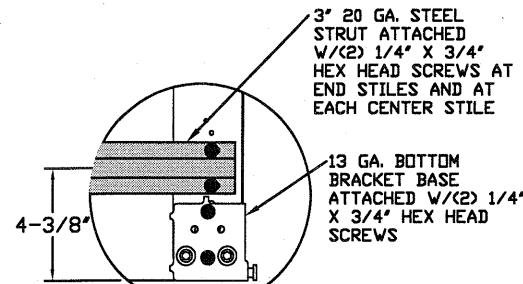
TYPICAL CENTER HINGE
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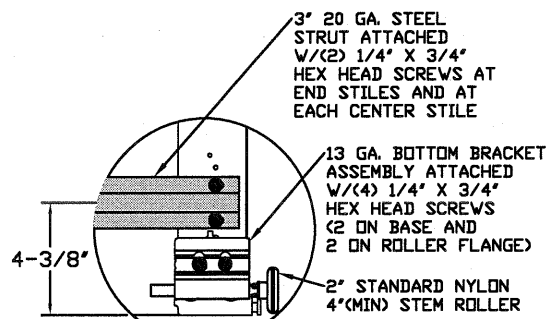
INSIDE ELEVATION
N.T.S.



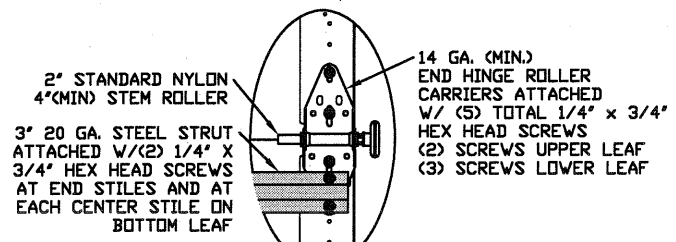
TYPICAL END HINGE
N.T.S. 4



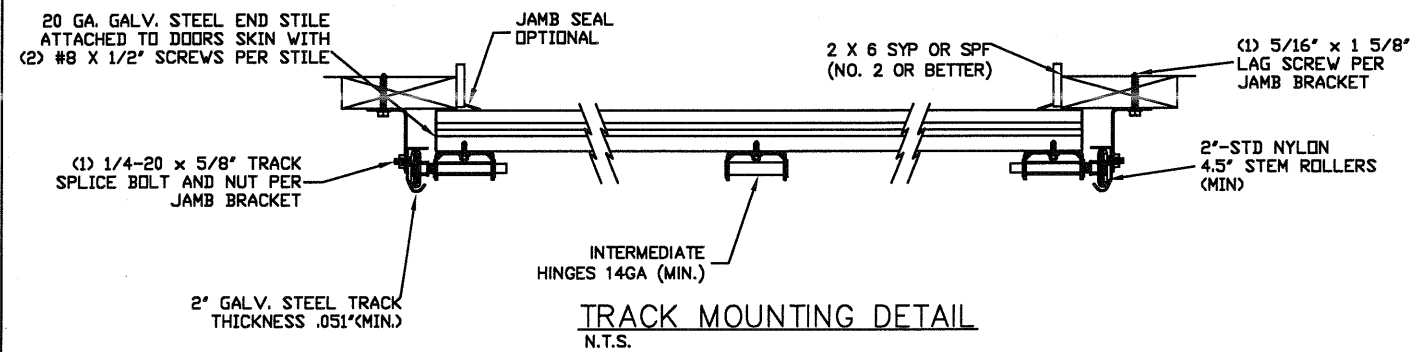
TRBB-375 BOTTOM BRACKET
N.T.S. 6A



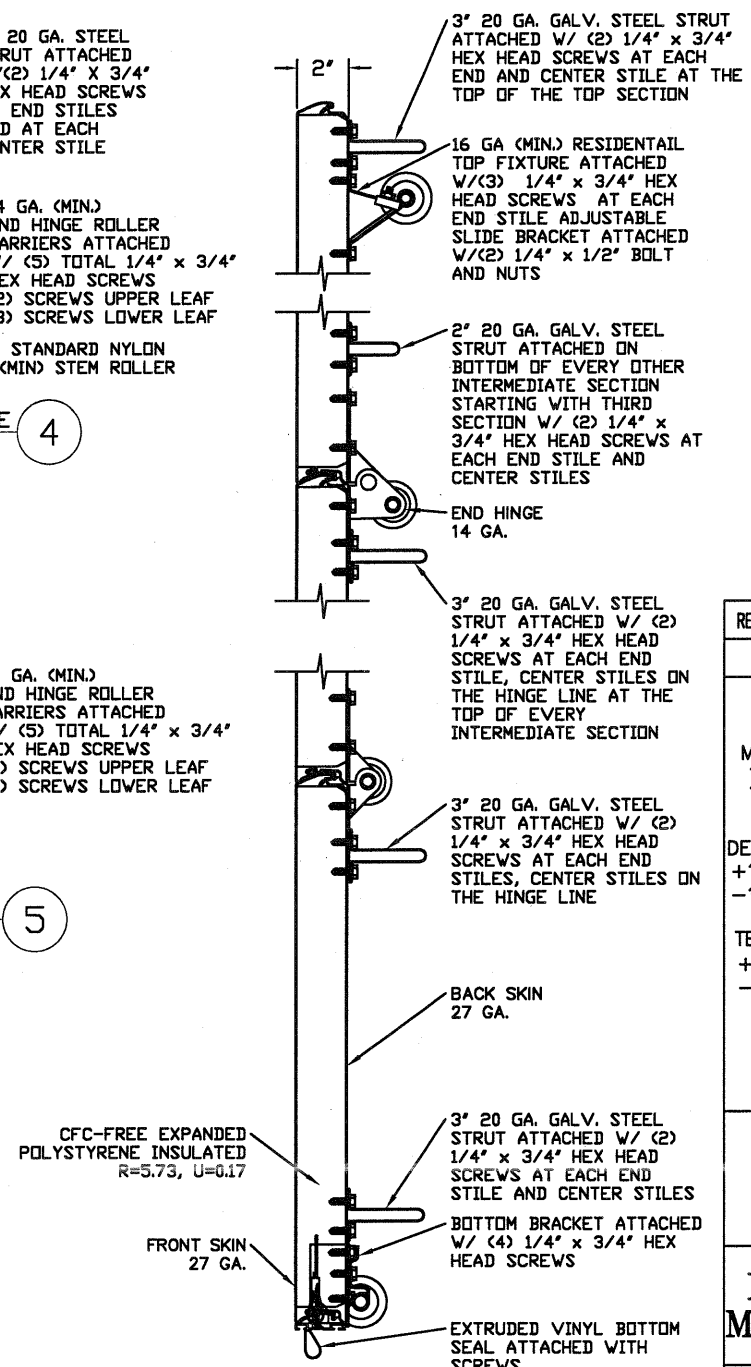
TRBB-375 BOTTOM BRACKET
N.T.S. 6B



TYPICAL END HINGE
N.T.S. 5



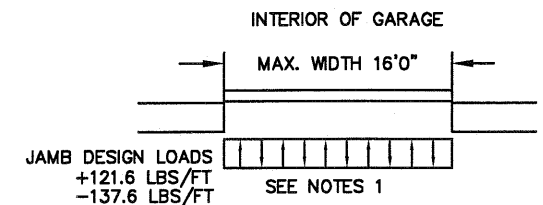
TRACK MOUNTING DETAIL
N.T.S.



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

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND DASMA 108. 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)	129	117	111	106	102
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



SPECIFICATIONS AND NOTES

- DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF +121.6 LBS/FT & -137.6 LBS/FT
- DOOR SECTIONS SHALL BE 27 GA. MIN. (.0151") ROLLED FORMED LIGHT COMMERCIAL QUALITY
- SEE TABLE 3 ON PAGE 3 FOR STRUT LAYOUT
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' WIDTH
14' HEIGHT

DESIGN LOADS
+15.2 PSF
-17.2 PSF

TEST LOADS
+22.8 PSF
-25.8 PSF

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 #1600 LINCOLN 3000

MODEL #1650 HILLCREST 3000

SIZE: B

DRAWN BY: DRD

CHECKED BY: RLR

DATE: 11/15/18

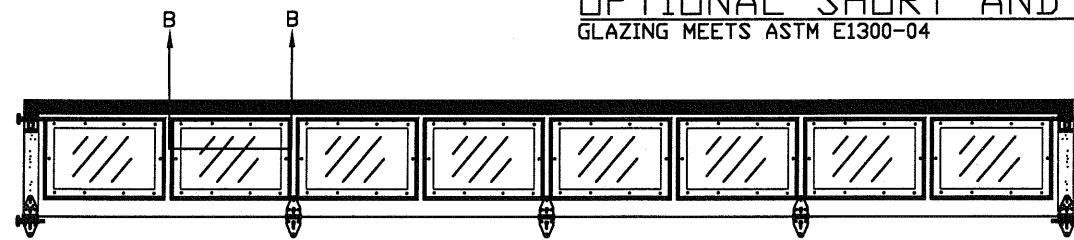
DATE: 7/31/19

DRAWING NUMBER: IRC-1616-100-15

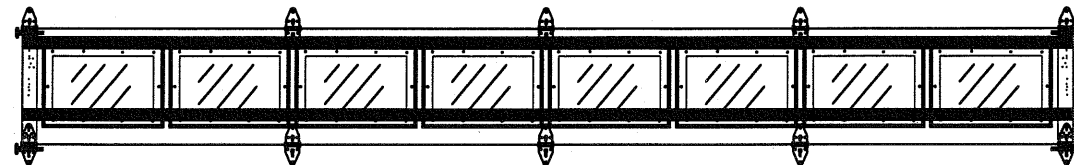
SHEET 1 OF 3

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

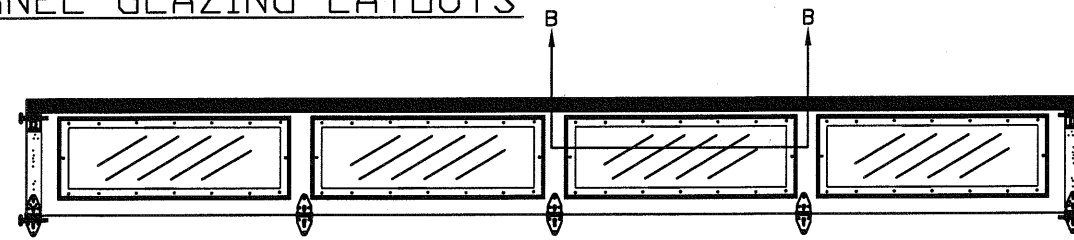
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS GLAZING MEETS ASTM E1300-04



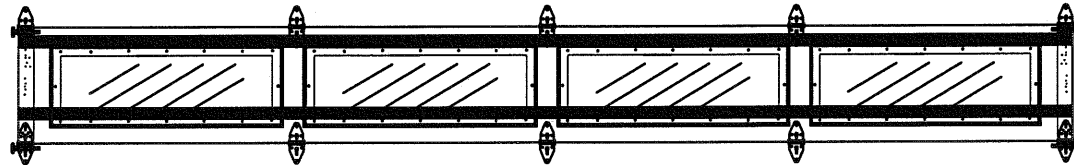
TOP SECTION



INTERMEDIATE SECTION



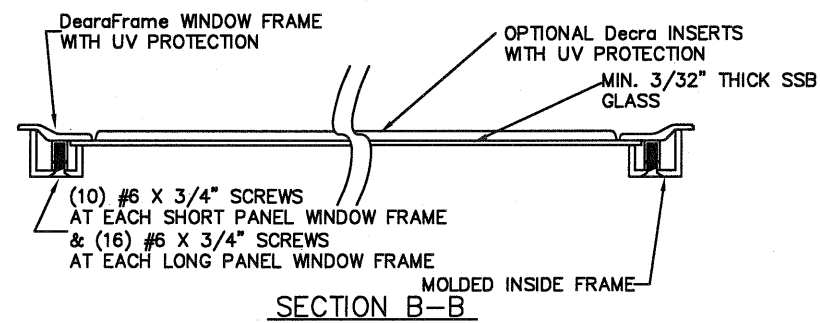
TOP SECTION



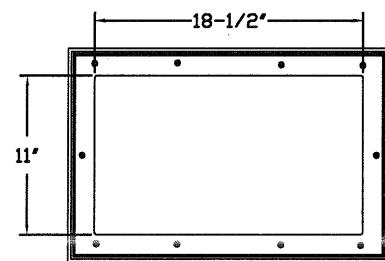
INTERMEDIATE SECTION

GLAZING OPTION CROSS SECTION

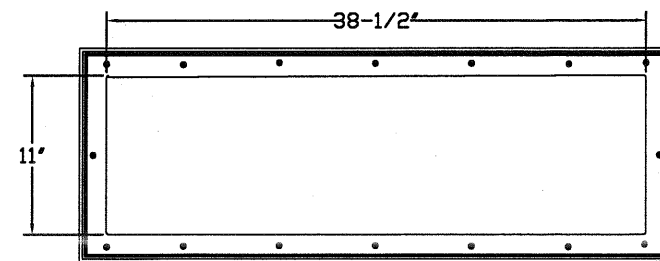
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING MEETS ASTM E1300-04



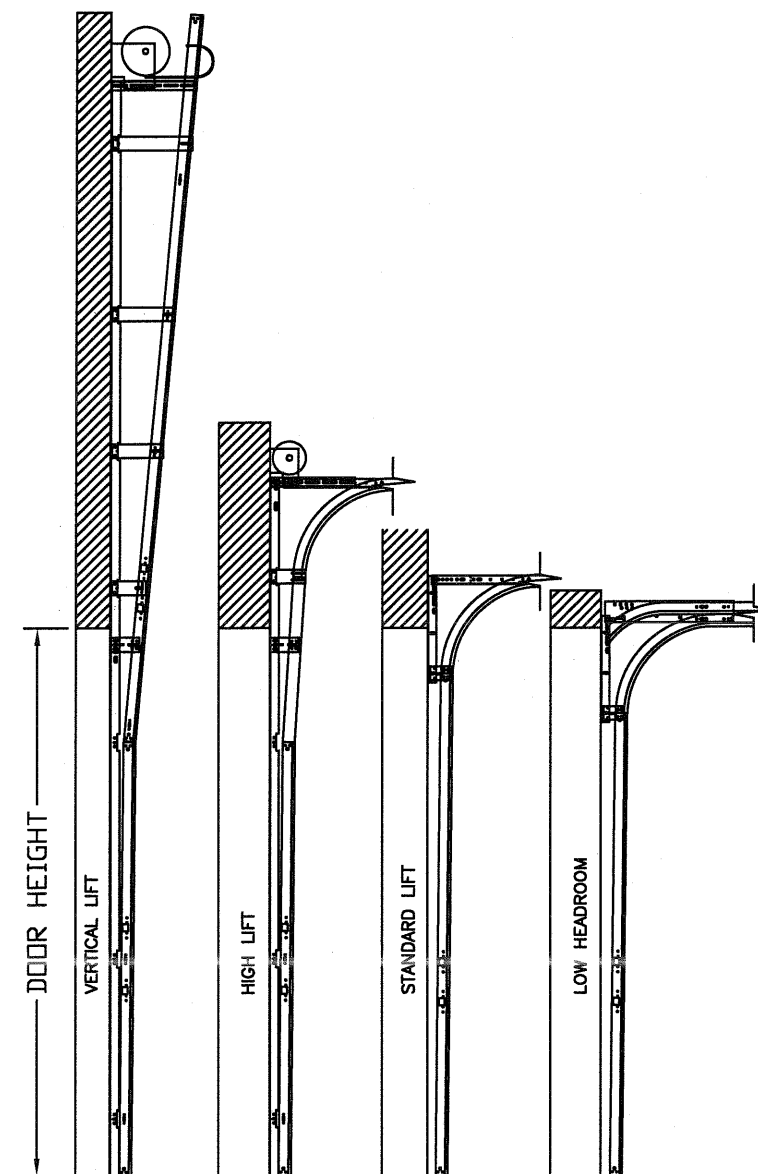
SECTION B-B



SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.



LONG PANEL GLAZING FASTENER DETAIL
N.T.S.



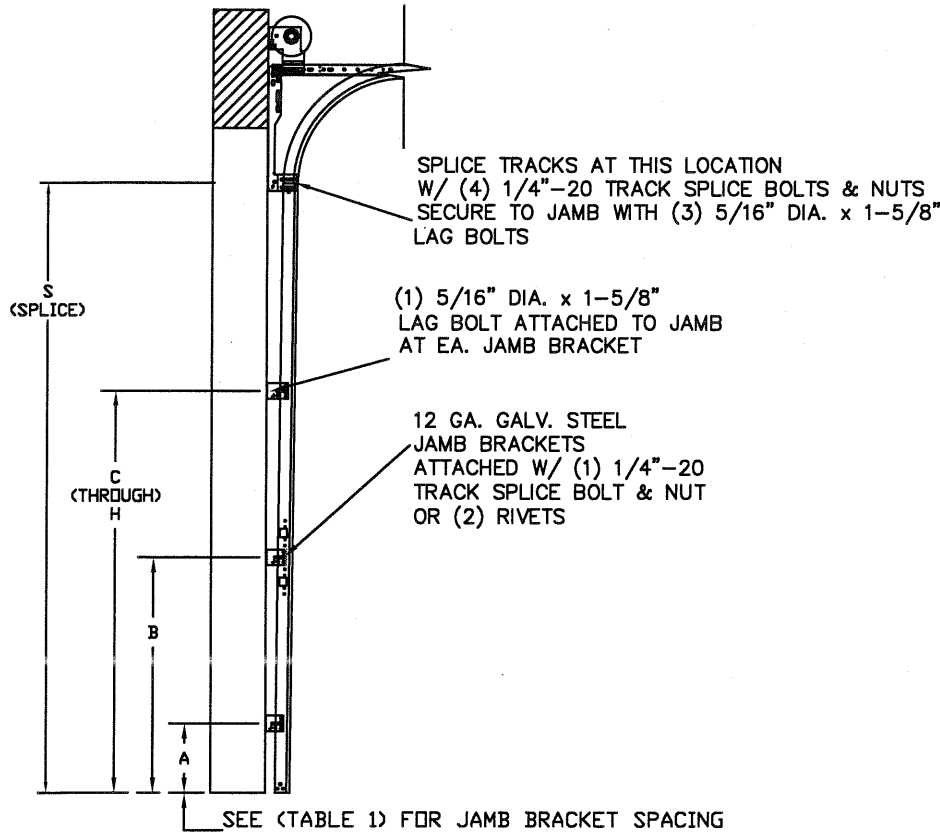
AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16' WIDTH 14' HEIGHT DESIGN LOADS +15.2 PSF -17.2 PSF TEST LOADS +22.8 PSF -25.8 PSF Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL <i>Amarr</i>			
MODEL #1600 LINCOLN 3000 MODEL #1650 HILLCREST 3000 SIZE B DRAWN BY RLR DRD DATE 11/15/18 CHECKED BY DATE 7/31/19 ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 DRAWING NUMBER IRC-1616-100-15 SHEET 2 OF 3			

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT						SPLICE
	A	B	C	D	E	F	
6' 6"	10"	34"					70"
7'	10"	38"					76"
7' 6"	10"	28"	52"				82"
8'	10"	34"	58"				88"
8' 6"	10"	28"	52"	76"			94"
9'	10"	34"	58"	82"			100"
9' 6"	10"	28"	52"	76"			106"
10'	10"	34"	58"	82"			112"
10' 6"	10"	28"	52"	76"	100"		118"
11'	10"	34"	58"	82"	106"		124"
11' 6"	10"	28"	52"	76"	100"		130"
12'	10"	34"	58"	82"	106"		136"
12' 6"	10"	28"	52"	76"	98"	124	142"
13'	10"	34"	58"	82"	106"	130"	148"
13' 6"	10"	28"	52"	76"	98"	124	154"
14'	10"	34"	58"	82"	106"	130"	160"

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



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS
N.T.S.

TABLE 2

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

TABLE 4

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
		1st (in)	2nd (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
10' 0	Short	48.41	71.59			20.3	22.9
10' 0	Long	60.00				12.1	13.7
10' 0	Hillcrest	60.00				12.1	13.7
12' 0	Short	48.81	95.19			15.3	17.3
12' 0	Long	49.63	94.38			15.4	17.4
12' 0	Hillcrest	48.31	95.69			15.2	17.2
12' 2	Short	49.64	96.36			15.1	17.0
12' 2	Long	50.08	95.92			15.1	17.1
12' 2	Hillcrest	49.06	96.94			15.0	16.9
12' 4	Short	50.64	97.36			14.9	16.9
12' 4	Long	51.08	96.92			15.0	17.0
12' 4	Hillcrest	49.81	98.19			14.8	16.7
12' 6	Short	50.67	99.33			14.6	16.5
12' 6	Long	51.17	98.83			14.7	16.6
12' 6	Hillcrest	50.56	99.44			14.6	16.5
12' 8	Short	51.67	100.33			14.5	16.4
12' 8	Long	52.10	99.90			14.5	16.4
12' 8	Hillcrest	51.31	100.69			14.4	16.3
12' 10	Short	52.25	101.75			14.3	16.1
12' 10	Long	53.10	100.90			14.4	16.3
12' 10	Hillcrest	52.06	101.94			14.2	16.1
13' 0	Short	53.00	103.00			14.1	16.0
13' 0	Long	54.10	101.90			14.2	16.1
13' 0	Hillcrest	52.81	103.19			14.1	15.9
13' 2	Short	54.00	104.00			14.0	15.8
13' 2	Long	55.10	102.90			14.1	16.0
13' 2	Hillcrest	53.56	104.44			13.9	15.7
13' 4	Short	54.40	105.60			13.7	15.6
13' 4	Long	54.90	105.10			13.8	15.6
13' 4	Hillcrest	54.31	105.69			13.7	15.5
13' 6	Short	55.40	106.60			13.6	15.4
13' 6	Long	55.90	106.10			13.7	15.5
13' 6	Hillcrest	55.06	106.94			13.6	15.4
13' 8	Short	56.40	107.60			13.5	15.3
13' 8	Long	56.63	107.38			13.5	15.3
13' 8	Hillcrest	55.81	108.19			13.4	15.2
13' 10	Short	57.16	83.00	108.71		17.5	19.8
13' 10	Long	57.17	108.83			13.3	15.1
13' 10	Hillcrest	56.56	109.44			13.3	15.0

TABLE 3

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

WOOD JAMB ATTACHMENT TO STRUCTURE

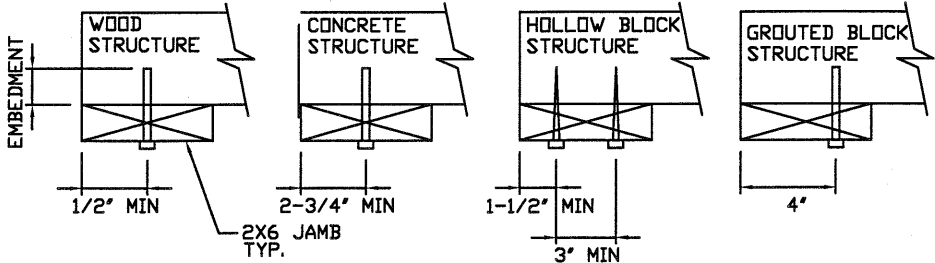
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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 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



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' WIDTH
14' HEIGHT

DESIGN LOADS
+15.2 PSF
-17.2 PSF

TEST LOADS
+22.8 PSF
-25.8 PSF

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

Amarr

MODEL #1600 LINCOLN 3000
MODEL #1650 HILLCREST 3000

SIZE	DRAWN BY	DRD	DATE	11/15/18	DRAWING NUMBER IRC-1616-100-15
B	CHECKED BY	RLR	DATE	7/31/19	

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SHEET 3 OF 3