

3 5/8" 22GA. R-TRUSS ATTACHED
W/ (3) 1/4" x 3/4"
HEX HEAD SCREWS AT
EACH END STILE

1

- VENTS PROVIDE 70 sq in. (62 sq. in. FOR OPTIONAL VENT) OF UNOBSTRUCTED AIR FLOW EACH.

(3) CHES

5"

1/2"

5

A technical diagram of a boat hull cross-section. It shows the internal structure including the keel, ribs, and deck. A line points to a specific part of the hull structure.

TYPICAL CENTER HINGE
N.T.S.

2

(3)

2" 10 BALL STEEL
9.5" STEM HURRICANE ROLLER
W/ RETAINERS FOR
NON THREADED SHAFTS

TYPICAL BOTTOM BRACKET
N.T.S.

(4)

25 GA SKIN (M625 & M675)
G30 GALVANIZED
W/ POLYESTER TOP COAT

(1) 3 5/8" H X 22 GA.
GALV. STEEL R-TRUSS LOCATED
ON THE TOP OF TOP SECTION
ATTACHED W/ (3) 1/4" x 3/4"
HEX HEAD SCREWS AT EACH END
STILE AND (2) 1/4" x 3/4" HEX
HEAD SCREWS AT EACH CENTER
STILE

(1) 3 5/8" H X 22 GA.
GALV. STEEL R-TRUSS LOCATED
ON THE TOP OF BOTTOM AND
INTERMEDIATE SECTIONS
ATTACHED W/ (2) 1/4" X 3/4"
HEX HEAD SCREWS AT EACH END
STILE AND (2) 1/4" X 3/4" HEX
HEAD SCREWS AT EACH CENTER
STILE

(1) 3" x 20 GA. STRUT
- LOCATED ON BOTTOM OF
BOTTOM SECTION ATTACHED
W/ (2) 1/4" x 3/4" HEX HEAD
SCREWS AT EACH END AND
CENTER STILE

13GA. BOTTOM BRACKET
ATTACHED W/ (5) 1/4" x 3/4"
HEX HEAD SCREWS

CONT. STEEL RETAINER
W/ CONT. BTM SEAL

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

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE, 10'2" x 14' DESIGN LOADS +48.0 PSF -56.1 PSF TEST LOADS +72.0 PSF -84.2 PSF LARGE MISSILE IMPACT RESISTANCE		

Thomas L. Shelmerdine, 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

Amar

MODEL #625 AMARR LINCOLN 1000, 1500, 2000
MODEL #675 AMARR HILLCREST 1000, 1500, 2000

SIZE	DRAWN BY	RLR	DATE	11/28/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	11/28/17	IRC-6210-175-21-

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

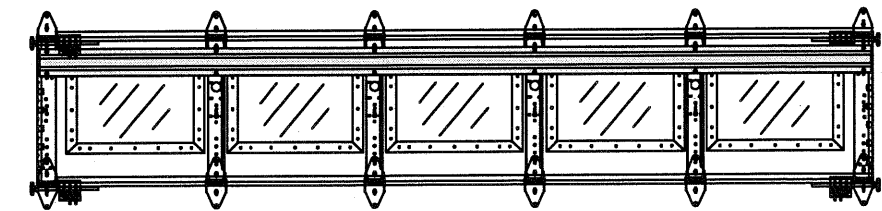
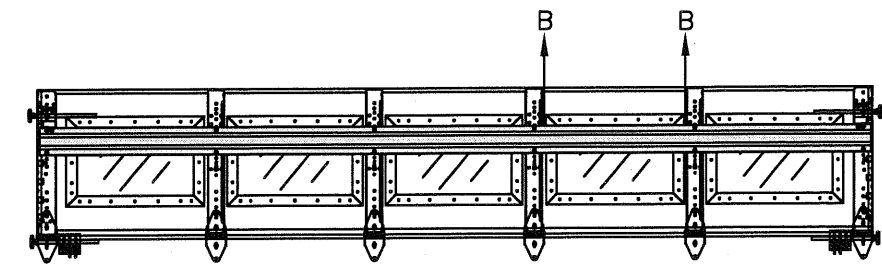
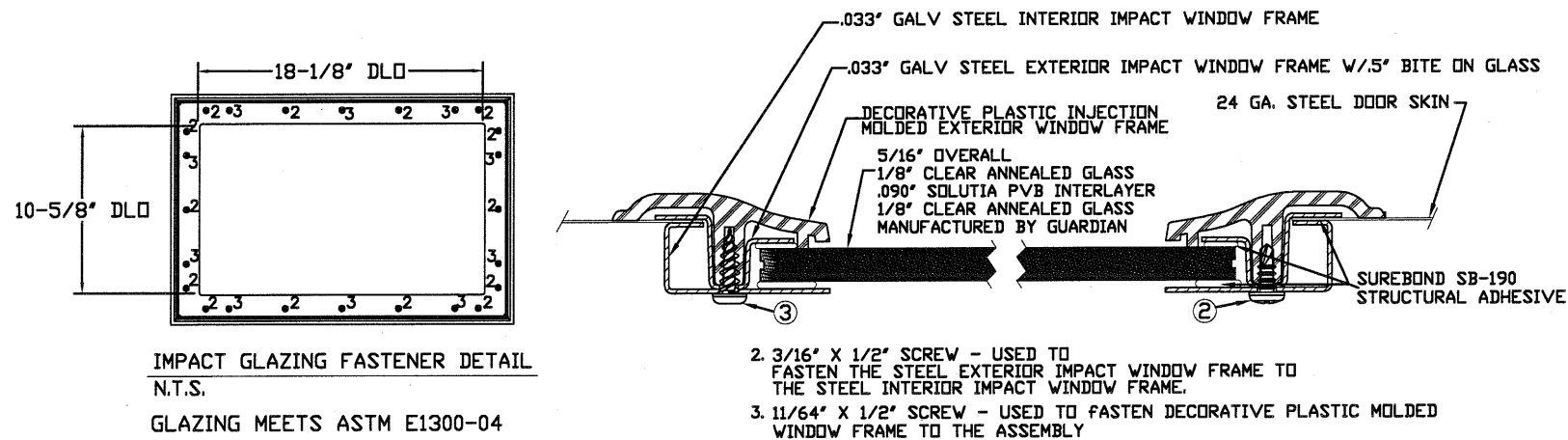
SHEET 1 OF 3

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108-05 & 115-05, AND ASTM E330-02, E1886-05, E1996-09, & F588-07. 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)	226	205	195	186	179
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

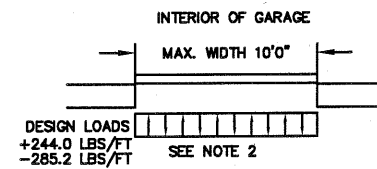
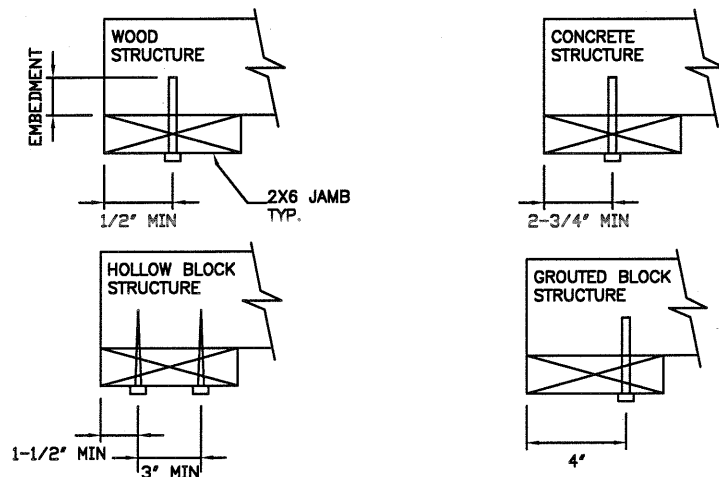
TRACK MOUNTING DETAIL
N.T.S.

5. VERTICAL JAMB 2X6
SYP OR SPF
(NO. 2 OR BETTER)



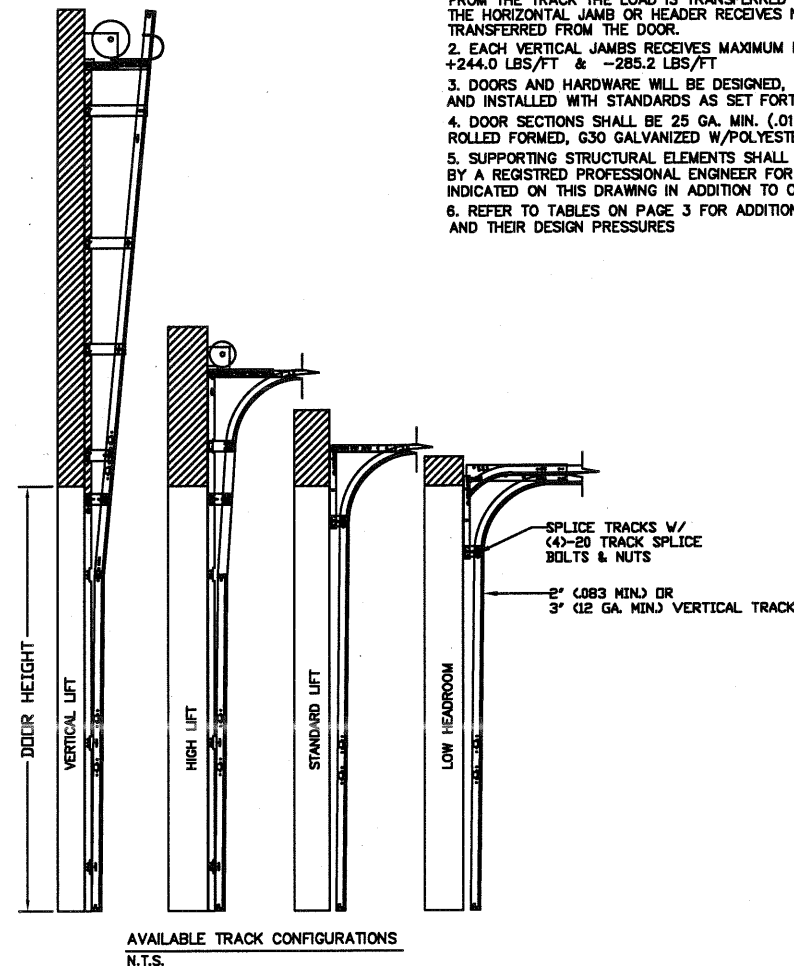
WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

- 2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE**
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 20" 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 18" 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 20" 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



SPECIFICATIONS AND NOTES

- 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.
- EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF:
+244.0 LBS/FT & -285.2 LBS/FT
- DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DOOR SECTIONS SHALL BE 25 GA. MIN. (.019") EXTERIOR SKIN ROLLED FORMED, G30 GALVANIZED W/POLYESTER TOP COAT
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
- REFER TO TABLES ON PAGE 3 FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES



REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE 10'2 x 14' DESIGN LOADS +48.0 PSF -56.1 PSF TEST LOADS +72.0 PSF -84.2 PSF LARGE MISSILE IMPACT RESISTANCE		
	Thomas L. Shelmerdine, 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		
	Amarr MODEL #625 AMARR LINCOLN 1000, 1500, 2000 MODEL #675 AMARR HILLCREST 1000, 1500, 2000		
SIZE	DRAWN BY RLR	DATE 11/28/17	DRAWING NUMBER
B	CHECKED BY RLR	DATE 11/28/17	IRC-6210-175-21-1
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 2 OF 3

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT																						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
7' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
7' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
10' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
11' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"													
12' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"												
13' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"											
14' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"										
15' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"									
16' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"								
17' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"							
18' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"						
19' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"					
20' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"				
21' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"			
22' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"		
23' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	
24' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"

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

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"				

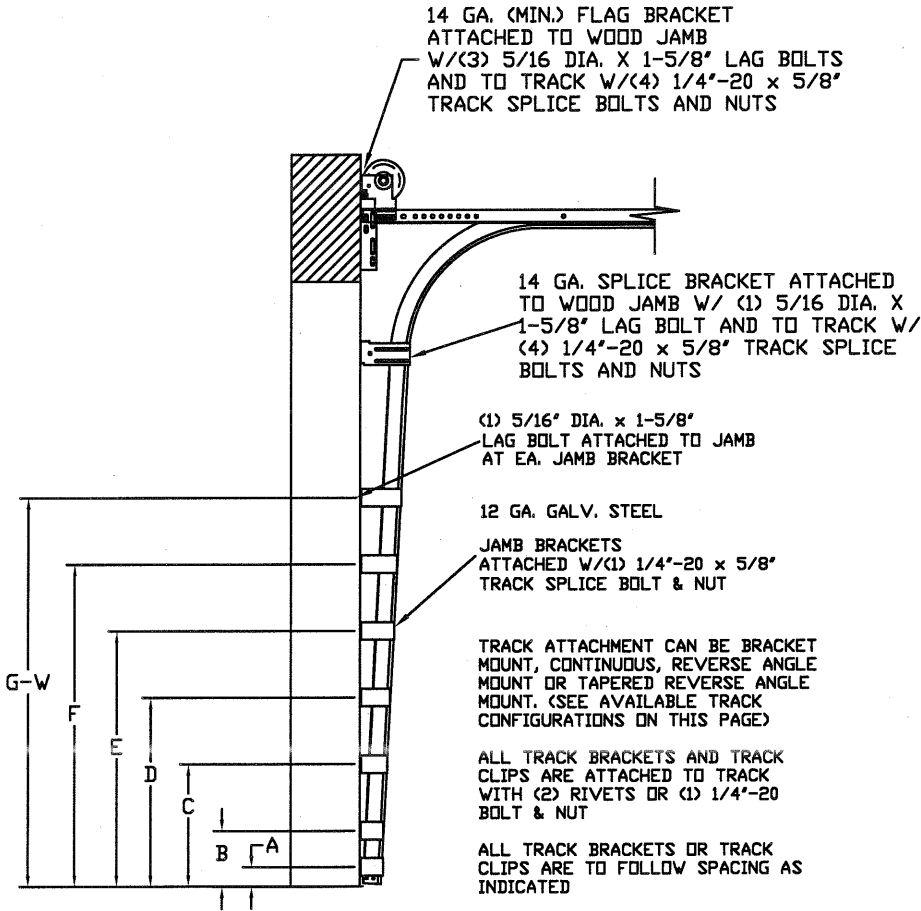


TABLE 3

Section Width (ft)	Panel Type	Center Stile Location (Measured from Left Edge)				Max Design Loads Allowed	
						Positive (PSF)	Negative (PSF)
8' 0"	Short, Hillcrest	24.8	48.0	71.2		49.1	57.4
8' 2"	Short, Hillcrest	25.8	49.0	72.2		48.1	56.2
8' 4"	Short, Hillcrest	26.6	50.0	73.4		47.1	55.1
8' 6"	Short, Hillcrest	26.7	51.0	75.3		46.2	54.0
8' 8"	Short, Hillcrest	27.3	52.0	76.8		45.3	52.9
8' 10"	Short, Hillcrest	28.0	53.0	78.0		44.4	51.9
9' 0"	Short, Hillcrest	28.6	54.0	79.4		43.6	51.0
9' 2"	Short, Hillcrest	29.4	55.0	80.6		42.8	50.1
9' 4"	Short, Hillcrest	30.4	56.0	81.6		42.1	49.2
9' 6"	Short, Hillcrest	31.4	57.0	82.6		41.3	48.3
9' 8"	Short, Hillcrest	32.4	58.0	83.6		40.6	47.5
9' 10"	Short, Hillcrest	33.4	59.0	84.6		39.9	46.7
10' 0"	Short, Hillcrest	25.2	48.4	71.6	94.8	48.6	56.7
10' 2"	Short, Hillcrest	25.9	49.3	72.7	96.1	48.0	56.1

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
10'2 x 14'

DESIGN LOADS
+48.0 PSF
-56.1 PSF

TEST LOADS
+72.0 PSF
-84.2 PSF

LARGE MISSILE
IMPACT
RESISTANCE

Thomas L. Shelmerdine, 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 #625 AMARR LINCOLN 1000, 1500, 2000
MODEL #675 AMARR HILLCREST 1000, 1500, 2000

SIZE	DRAWN BY	RLR	DATE	11/28/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	11/28/17	IRC-6210-175-21-1

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

SHEET 3 OF 3