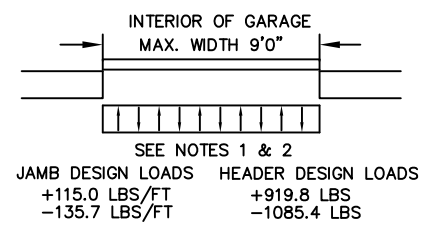
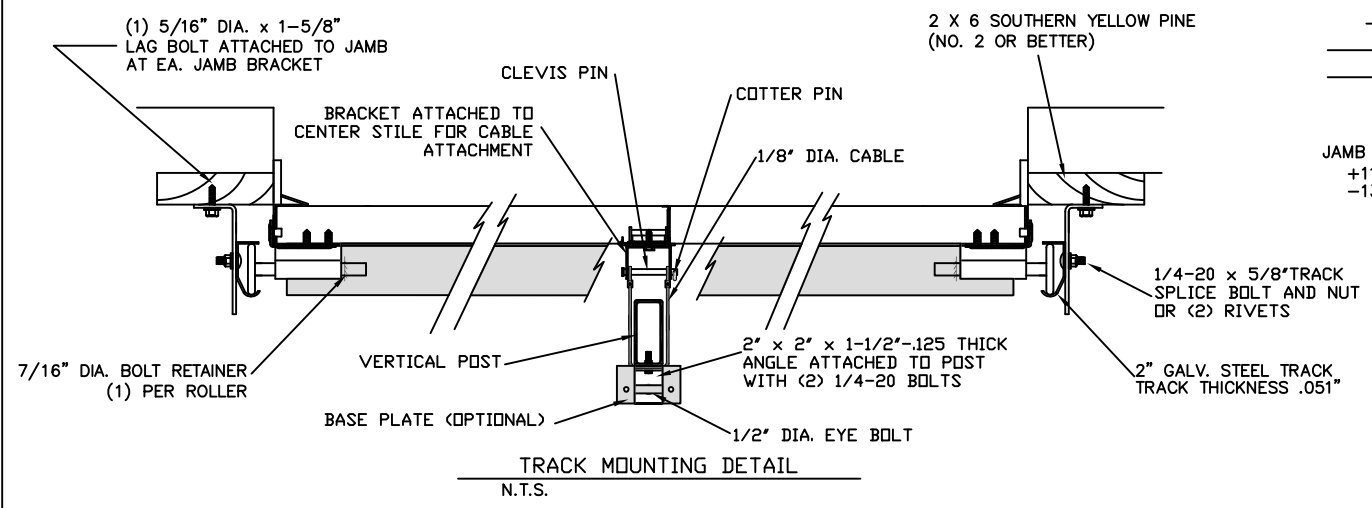
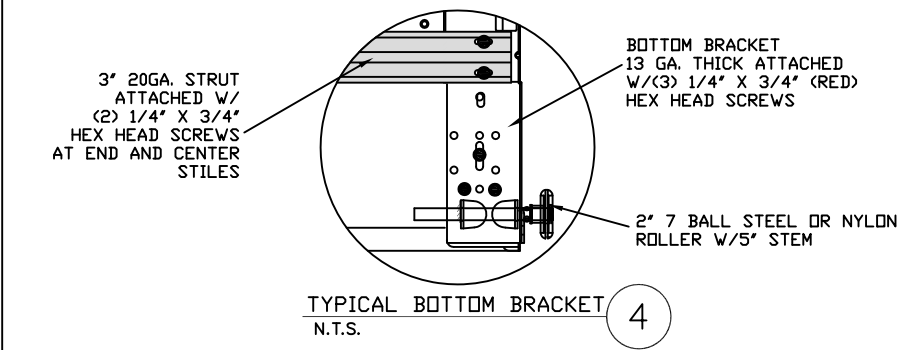


# LARGE MISSILE IMPACT RESISTANT



- SPECIFICATIONS AND NOTES**
1. THE HEADER RECEIVES MAXIMUM DESIGN LOADS OF: +919.8 LBS & -1085.4 LBS AT THE TOP OF THE POST.
  2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +115.0 LBS/FT & -135.7 LBS/FT
  3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
  4. DOOR SECTIONS SHALL BE 24 GA. MIN. (.022") ROLLED FORMED LIGHT COMMERCIAL QUALITY STEEL, MIN. YIELD STRENGTH 35,500 KSI
  5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

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 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	180	163	155	148	142
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
B	ADDED CABLE TO POST	1.22.09	CBT
C	UP-DATED NOTE 4.	4.15.09	CBT
D	UP-DATED NOTE 4 TO INCLUDE YIELD STRENGTH	5.01.09	CBT
E	WIND SPEED TABLE & TRACK CONFIGURATIONS	5/1/12	RLR

MAX SIZE 9' x 8'  
 DESIGN LOADS +51.1 PSF -60.3 PSF  
 TEST LOADS (1.5 x DESIGN LOADS) +76.7 PSF -90.5 PSF  
 LARGE MISSILE IMPACT RESISTANCE

**Amarr**  
 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105  
**MODEL #500 CLASSICA 1000, 2000**

SIZE	DRAWN BY DLJ	DATE 04/25/06	DRAWING NUMBER
B	CHECKED BY AAE	DATE 04/25/06	IRC-5309-180-45

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

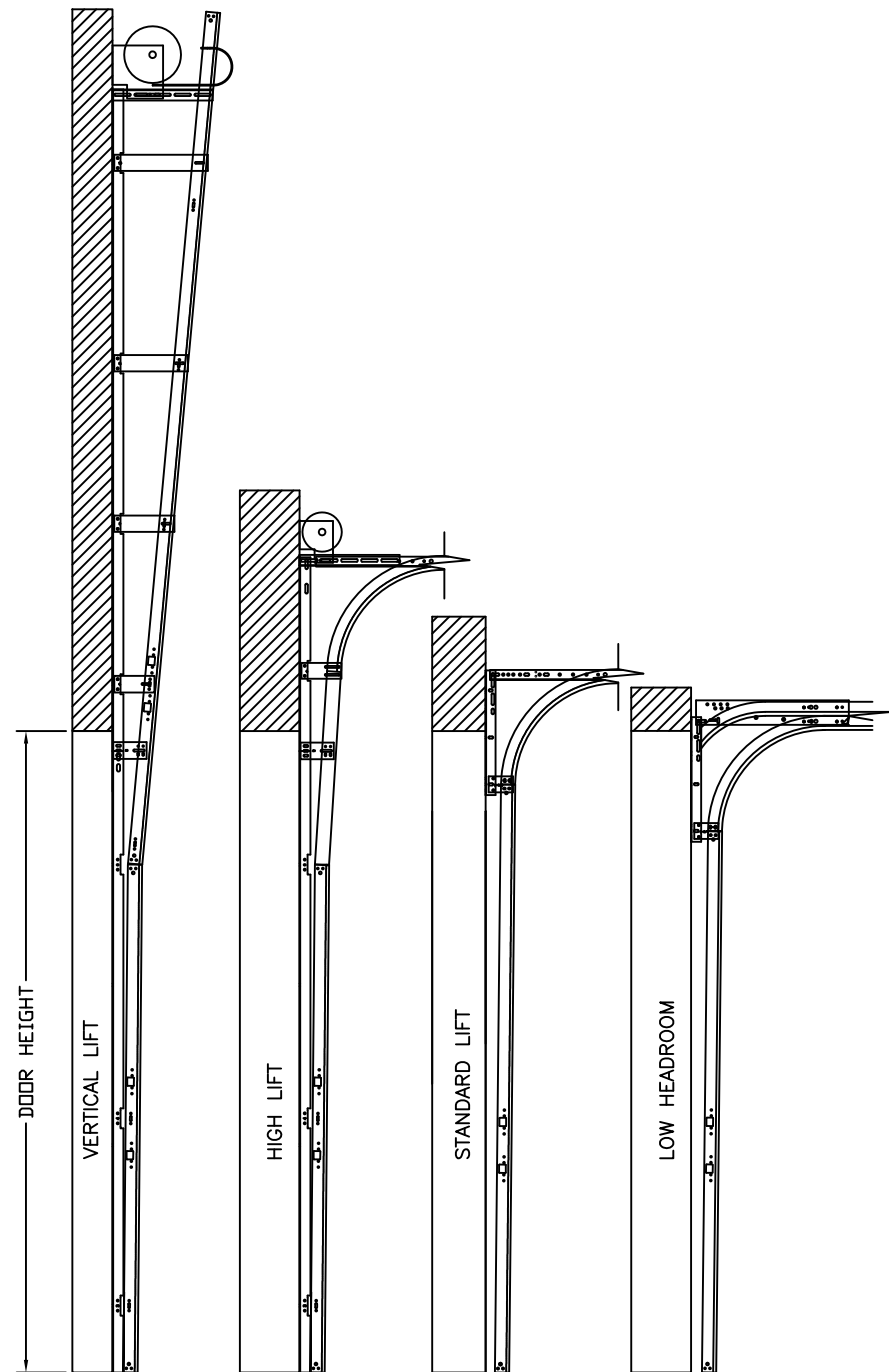
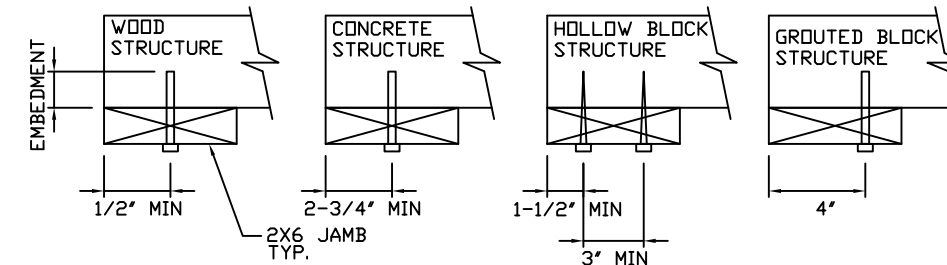
# WOOD JAMB & HEADER ATTACHMENT TO STRUCTURE

**\*SEE NOTE 1\***

**2 X 6 VERTICAL JAMB & HEADER 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 & HEADER 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 & HEADER ATTACHMENT TO HOLLOW C-90 BLOCK \*SEE NOTE 2\***  
 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 & HEADER 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)

**\*NOTES\***

1. REFER TO DETAIL (6) FOR ADDITIONAL FASTENERS AT HEADER
2. OPTION NOT AVAILABLE FOR HEADER ATTACHMENT
3. LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE
4. PREPARATION OF WOOD JAMBS BY OTHERS



AVAILABLE TRACK CONFIGURATIONS  
 N.T.S.

8' TALL						
Door	Center Stile Locations (Measured from Left)			Max Design Loads Allowed		
	Width (ft)	1st (in)	2st (in)	3rd (in)	Positive (PSF)	Negative (PSF)
8' 0	24.63	<b>*48.00</b>	71.38	57.2	67.5	
8' 2	25.13	<b>*49.00</b>	72.88	56.0	66.1	
8' 4	25.63	<b>*50.00</b>	74.38	54.9	64.8	
8' 6	26.13	<b>*51.00</b>	75.88	53.8	63.5	
8' 8	26.63	<b>*52.00</b>	77.38	52.8	62.3	
8' 10	27.13	<b>*53.00</b>	78.88	51.8	61.1	
9' 0	27.63	<b>*54.00</b>	80.38	50.1	60.3	
7' TALL						
Door	Center Stile Locations (Measured from Left)			Max Design Loads Allowed		
	Width (ft)	1st (in)	2st (in)	3rd (in)	Positive (PSF)	Negative (PSF)
8' 0	24.63	<b>*48.00</b>	71.38	65.4	77.1	
8' 2	25.13	<b>*49.00</b>	72.88	64.0	75.6	
8' 4	25.63	<b>*50.00</b>	74.38	62.8	74.1	
8' 6	26.13	<b>*51.00</b>	75.88	61.5	72.6	
8' 8	26.63	<b>*52.00</b>	77.38	60.3	71.2	
8' 10	27.13	<b>*53.00</b>	78.88	59.2	69.9	
9' 0	27.63	<b>*54.00</b>	80.38	50.1	60.3	

\* DENOTES POST LOCATION

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B	ADDED CABLE TO POST	1.22.09	CBT
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D	UP-DATED NOTE 4 TO INCLUDE YIELD STRENGTH	5.01.09	CBT
E	WIND SPEED TABLE & TRACK CONFIGURATIONS	5/1/12	RLR

MAX SIZE  
9' x 8'

DESIGN LOADS  
+51.1 PSF  
-60.3 PSF

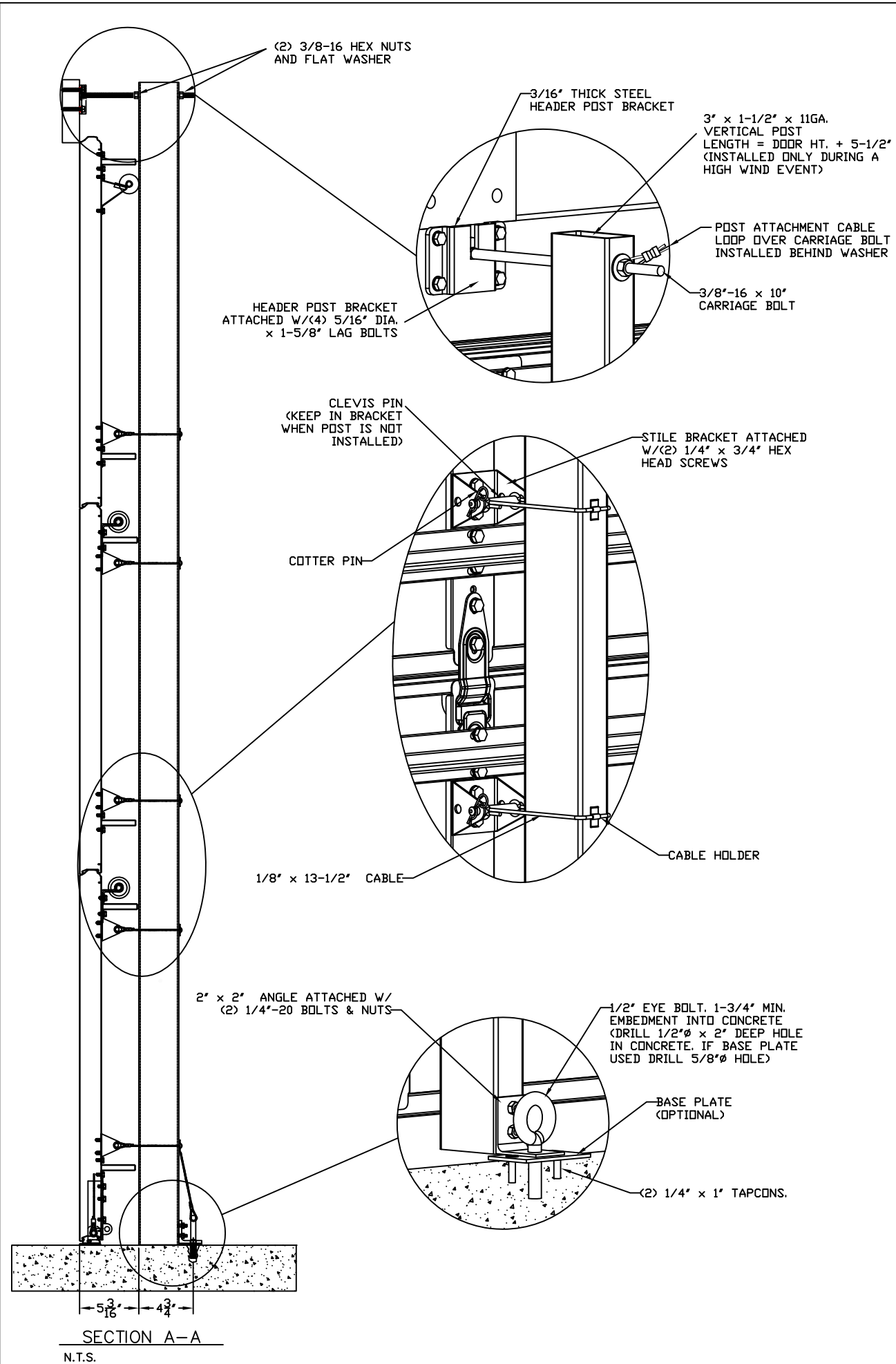
TEST LOADS  
(1.5 x DESIGN LOADS)  
+76.7 PSF  
-90.5 PSF

**Amarr**  
 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

**MODEL #500**  
**CLASSICA 1000, 2000**

SIZE	DRAWN BY	DLJ	DATE	04/25/06	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	04/25/06	IRC-5309-180-45

ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579 SHEET 2 OF 3



REV	DESCRIPTION OF REVISIONS	DATE	BY
B	ADDED CABLE TO POST	1.22.09	CBT
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MAX SIZE  
9' x 8'

DESIGN LOADS  
+51.1 PSF  
-60.3 PSF

TEST LOADS  
(1.5 x DESIGN LOADS)  
+76.7 PSF  
-90.5 PSF

**Amarr**  
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

**MODEL #500**  
**CLASSICA 1000, 2000**

SIZE	DRAWN BY	DLJ	DATE	04/25/06	DRAWING NUMBER
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ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579 SHEET 3 OF 3