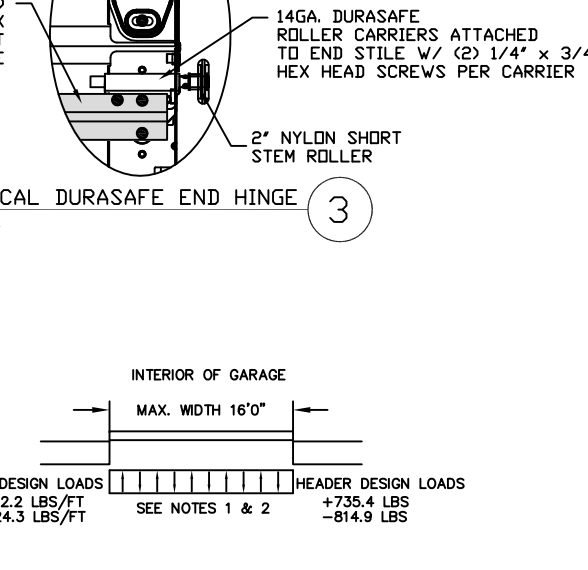


THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	154	140	133	127	122
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



- SPECIFICATIONS AND NOTES**
1. THE HEADER RECEIVES MAXIMUM DESIGN LOADS OF: +735.4 LBS & -814.9 LBS AT THE TOP OF THE POST.
  2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +112.2 LBS/FT & -124.3 LBS/FT
  3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
  4. DOOR SECTIONS SHALL BE 25 GA. MIN. (.019") ROLLED FORMED LIGHT COMMERCIAL QUALITY
  5. 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
A	REUSED NOTE 6.	12/12/08	CBT
B	WIND SPEED TABLE & TRACK CONFIGURATIONS	04/17/12	RLR

MAX SIZE 16' x 8'

+37.0 PSF  
-41.0 PSF

TEST LOADS  
+55.5 PSF  
-61.5 PSF

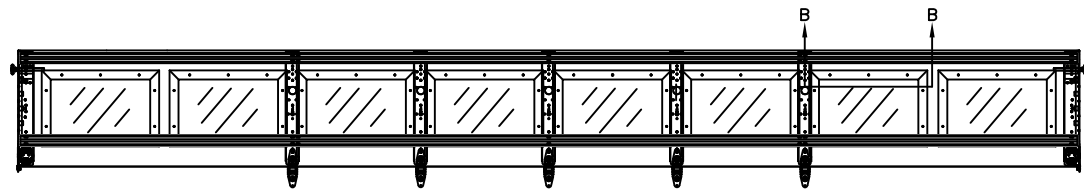
**Amarr GARAGE DOORS**

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

**MODEL #650 OAK SUMMIT w/DuraSafe**  
**MODEL #600 STRATFORD w/DuraSafe**  
**MODEL #950 HERITAGE w/DuraSafe**  
**Short, Flush & Oak Summit Panel's**

SIZE	DRAWN BY DLJ	DATE 12/28/05	DRAWING NUMBER
B	CHECKED BY AAE	DATE 12/28/05	IRC-6016-155-45

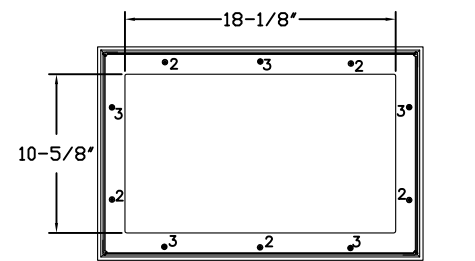
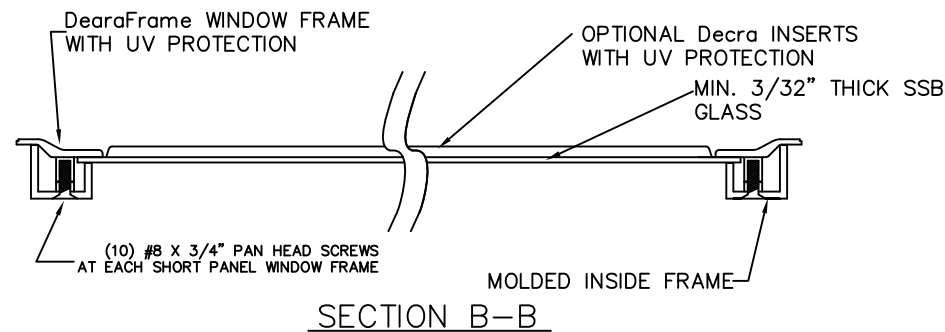
ENGINEER: THOMAS L. SHLMERDINE P.E. LIC. No. 0048579 SHEET 1 OF 3



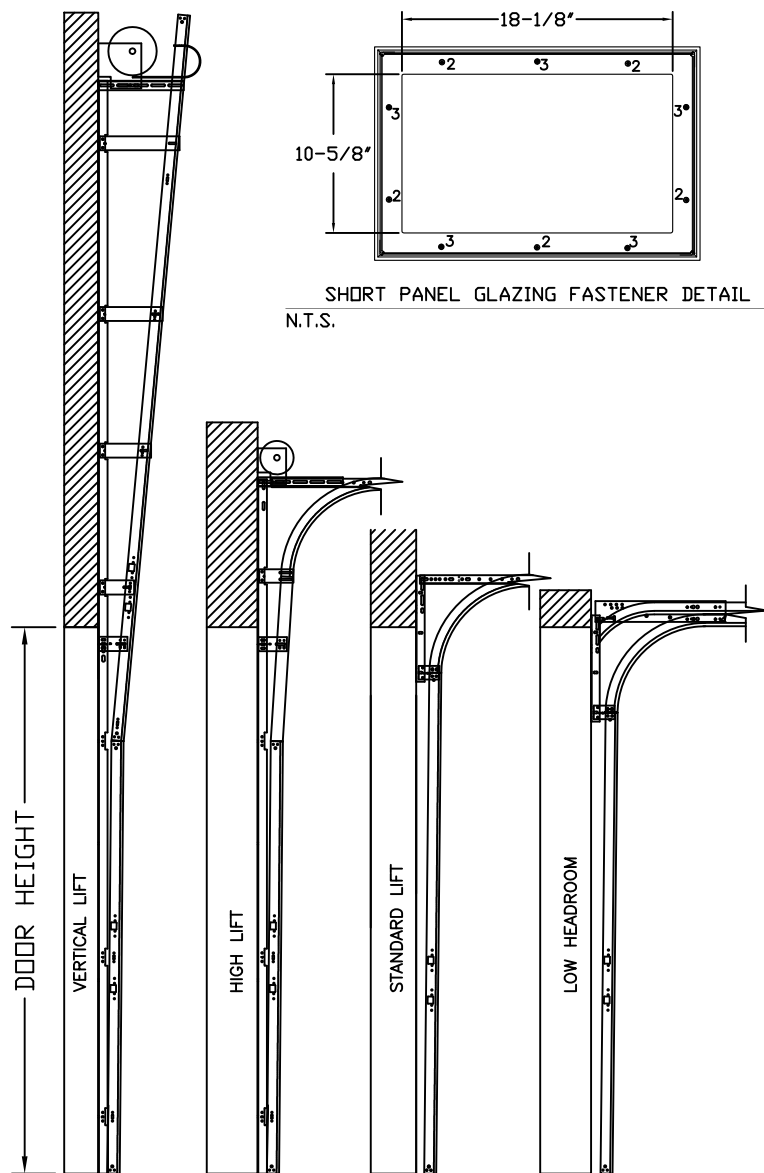
**OPTIONAL SHORT PANEL GLAZED SECTION**  
 EXAMPLE SHOWS TOP SECTION STRUT LAYOUT. USE STRUT PATTARN AS SHOWN ON THE INSIDE ELEVATION AND SECTION VIEW A-A IF GLAZING IS INSTALLED IN AN INTERMEDIATE SECTION.

### GLAZING OPTION CROSS SECTION

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



SHORT PANEL GLAZING FASTENER DETAIL  
 N.T.S.



AVAILABLE TRACK CONFIGURATIONS  
 N.T.S.

**TABLE 1**

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)						Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	6th (in)	Positive (PSF)	Negative (PSF)
10' 0	Long	*30	60	*90				44.7	49.5
10' 0	Oak Summit	*30.63	60	*89.38				44.7	49.5
10' 0	Short	25.22	*48.41	*71.59	94.78			55.4	61.4
12' 0	Long	27.25	*49.63	72	*94.38	116.75		45.8	50.8
12' 0	Oak Summit	24.63	*48.31	72	*95.69	119.38		45.8	50.8
12' 0	Short	25.62	*48.81	72	*96.36	119.55		45.8	50.8
13' 0	Long	30.2	*54.1	78	*101.9	125.8		42.5	47.1
13' 0	Oak Summit	27.63	*52.81	78	*103.19	128.38		42.5	47.1
13' 0	Short	28	*53.00	78	*103.00	128		42.5	47.1
14' 0	Long	33.25	*58.63	84	*109.38	134.75		39.6	43.9
14' 0	Oak Summit	30.63	*57.31	84	*110.69	137.38		39.6	43.9
14' 0	Short	31.59	*57.76	83.94	*110.11	136.29		39.6	43.9
15' 0	Long	46.6	*68.3	90	*111.7	133.4		37.1	41.1
15' 0	Oak Summit	33.63	*61.81	90	*118.19	146.38		37.1	41.1
15' 0	Short	33.94	*61.94	89.94	*117.94	145.94		37.1	41.1
15' 6	Long	47.6	*70.3	93	*115.7	138.4		38	42.1
15' 6	Oak Summit	47.42	*70.21	93	*115.79	138.58		38	42.1
15' 6	Short	46.62	*69.81	93	*116.19	139.38		38	42.1
16' 0	Long	50.6	*73.3	96	*118.7	141.4		37	41
16' 0	Oak Summit	48.42	*72.21	96	*119.79	143.58		37	41
16' 0	Short	49.62	*72.81	96	*119.19	142.38		37	41

\* VERTICAL POST LOCATION

### WOOD JAMB ATTACHMENT TO STRUCTURE

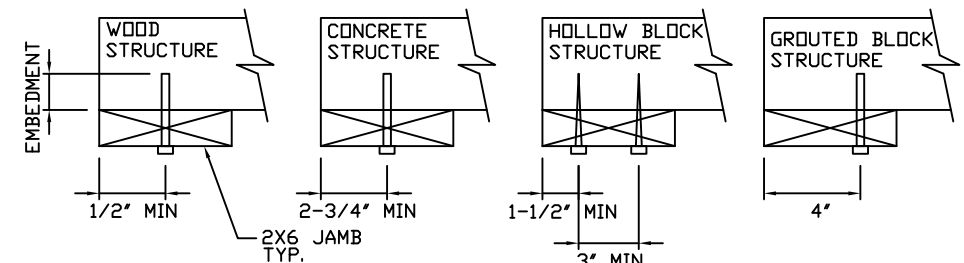
\*SEE NOTE 1\*

- 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 \*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 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)

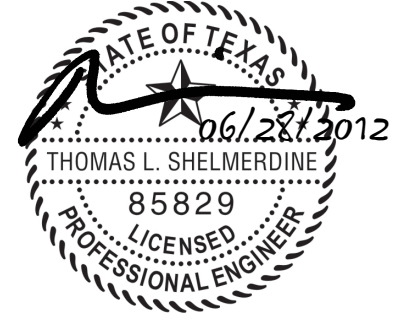
**\*NOTES\***

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



REV	DESCRIPTION OF REVISIONS	DATE	BY
A	REVISED NOTE 6.	12/12/08	CBT
B	WIND SPEED TABLE & TRACK CONFIGURATIONS	04/17/12	RLR

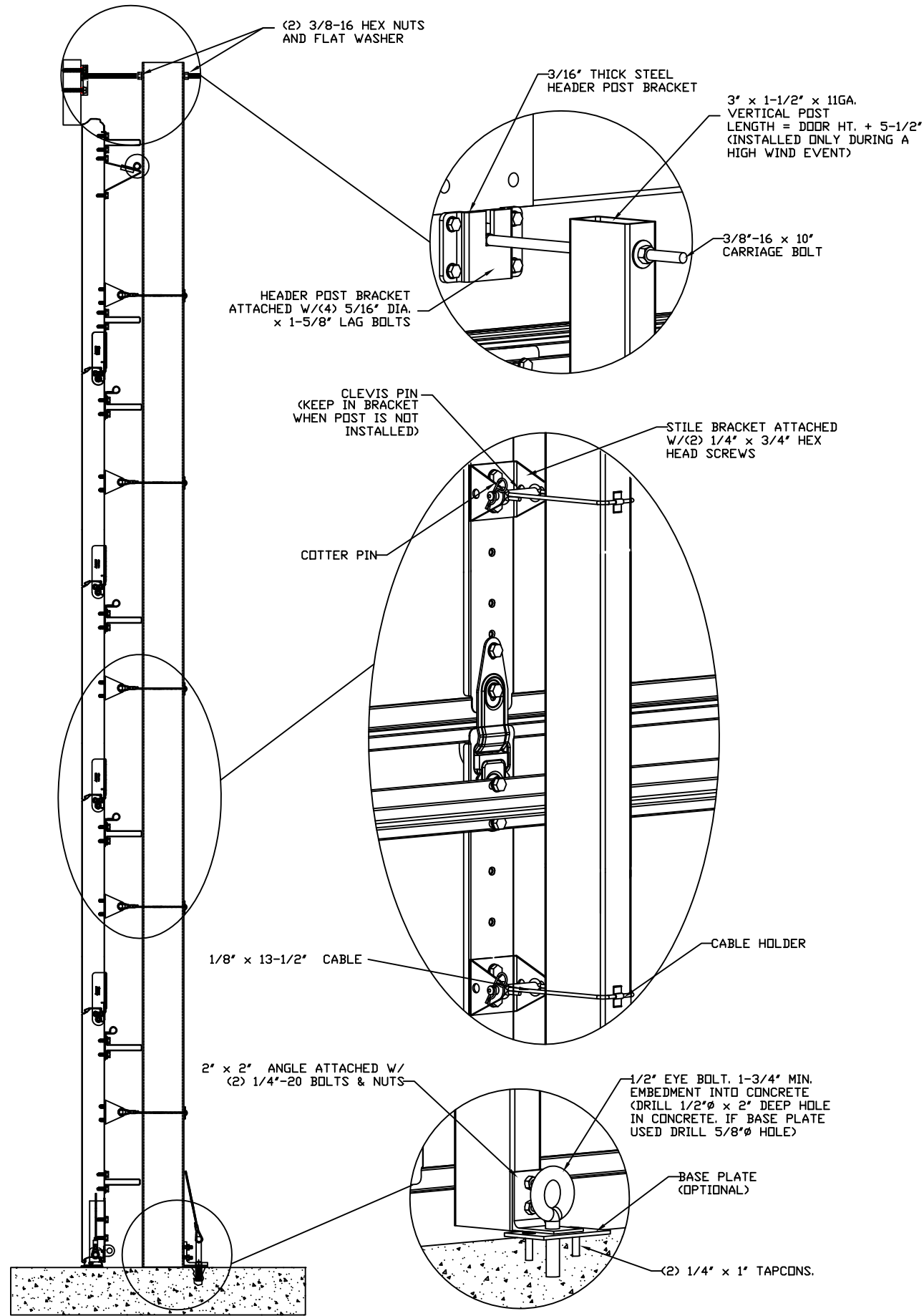
MAX SIZE  
 16' x 8'  
 +37.0 PSF  
 -41.0 PSF  
 TEST LOADS  
 +55.5 PSF  
 -61.5 PSF



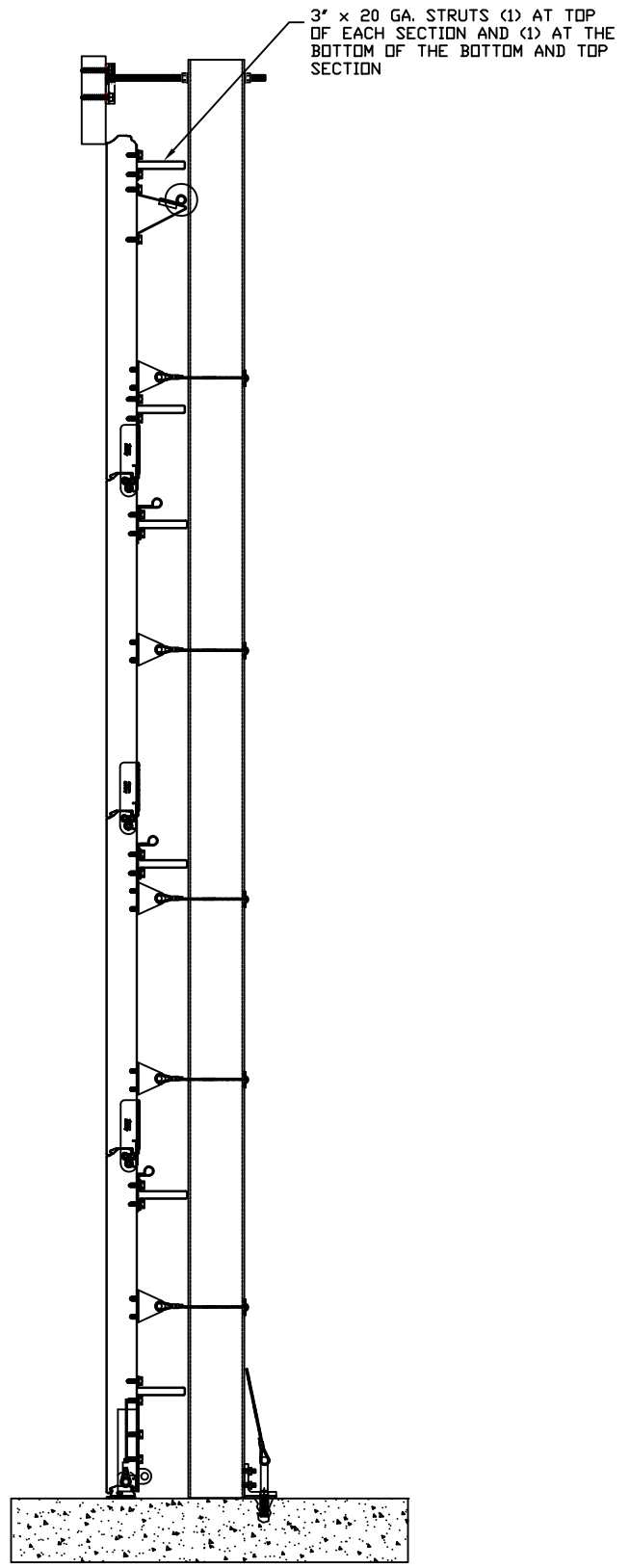
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

MODEL #650 OAK SUMMIT w/DuraSafe  
 MODEL #600 STRATFORD w/DuraSafe  
 MODEL #950 HERITAGE w/DuraSafe  
 Short, Flush & Oak Summit Panel's

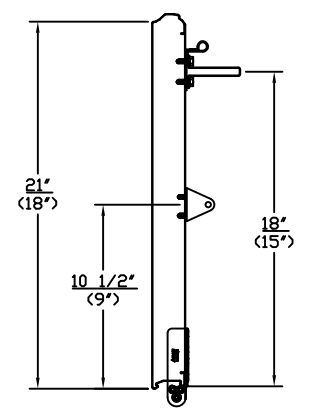
SIZE	DRAWN BY	DLJ	DATE	12/28/05	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	12/28/05	IRC-6016-155-45
ENGINEER: THOMAS L. SHILMERDINE P.E. LIC. No. 0048579				SHEET 2 OF 3	



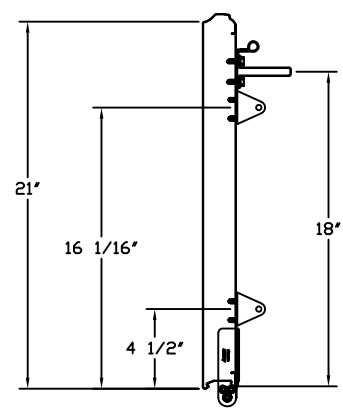
SECTION A-A (FOR 8' TALL DOOR)  
N.T.S.



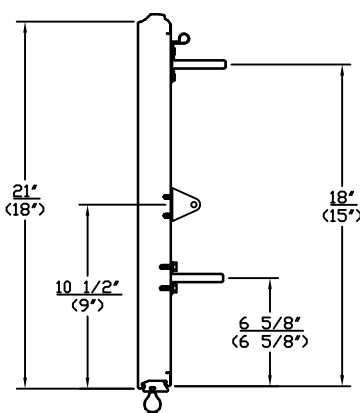
SECTION A-A (FOR 7' TALL DOOR)  
N.T.S.



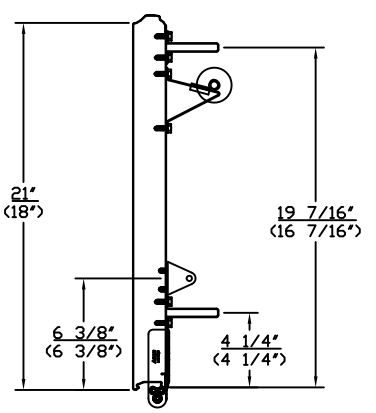
INTERMEDIATE SECTION  
21" SECTION  
(18" SECTION)



INTERMEDIATE SECTION  
2ND SECTION 7' TALL DOOR



BOTTOM SECTION  
21" SECTION  
(18" SECTION)



TOP SECTION  
21" SECTION  
(18" SECTION)

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	REVISED NOTE 6.	12/12/08	CBT
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MAX SIZE  
16' x 8'  
  
+37.0 PSF  
-41.0 PSF  
  
TEST LOADS  
+55.5 PSF  
-61.5 PSF



**Amarr**  
GARAGE DOORS

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

MODEL #650 OAK SUMMIT w/DuraSafe  
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Short, Flush & Oak Summit Panel's

SIZE	DRAWN BY	DLJ	DATE	12/28/05	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	12/28/05	IRC-6016-155-45

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