BUILDING HEIGHT **① ZONB** 5 \odot **2018**4

	esign loads - ps	DESIGN LOADS - PSF EXPOSURE B - 110 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	
TEEN VEED	+ (POSITIVE)	- (NEGATIVE)	
61	24.4	24.4	
70	25.4	25.4	
80	26.4	26.4	
90	27.3	27.3	
100	28.1	28.1	
120	29.6	29.6	
140	30.9	90.9	
160	32.1	32.1	
180	33.2	33.2	
200	34.3	34.3	
220	35.2	35.2	
240	36.1	36.1	
260	36.9	36.9	
280	37.7	37.7	
300 —	38.5	38.5	

BUII	DINGS GREAT	BUILDINGS GREATER THAN 60 FEET HIGH	ST HIGH
	DESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
BLEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	29.0	29.0	53.2
70	30.2	30.2	55.4
80	31.4	31.4	57.5
90	32.5	32.5	59.5
100	33.4	33.4	61.3
120	35.2	35.2	64.6
140	36.8	36.8	67.5
160	38.2	38.2	70.1
180	39.6	39.6	72.5
200	40.8	40.8	74.7
220	41.9	41.9	76.8
240	42.9	42.9	78.7
260	43.9	43.9	80.6
280	44.9	44.9	82.3
300	45.8	45.8	83.9

NOTES: 1. EXPOSURE "B", IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 1 TO 20 SQ, FEET. EXPOSURE "B", Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, provails distance of at least 2,600 feet (792 m) or 20 times the height of the brilding, whichever is greater. Surface Roughness B, provails other terrain with numerous closely spaced obsertactions having the size of single-family dwellings or larger. 250 280 290 290 290 290 290 290 290 290 290 29		•	HHJGH		_ ≼ _			7 \ \	/
180 200 200 200 200 200 240 240 260 260 280 300 280 300 280 300 280 300 280 300 300 280 300 300 300 300 300 300 300 300 300 3	140	120	8 8	70	61	ELEV FEET	MEAN ROOF		BUILD
	50.1	48.0	42.7	41.1	39.5	+ (POSITIVE)	ZONE 4 & 5	DESIGN LOADS - PS	
53.8 55.5 57.0 59.8 61.1 62.3 cdion for a ded areas or	50.1	45.5	42.7	41.1	39.5	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 140 MPH	NGS GREATER THAN 60 FEET HIGH
98.7 101.7 104.5 107.2 109.6 112.0 114.2 BUILDIN EX TRIBUTARY	91.9	87.9	78.3 81.0	75.4	72.5	- (NEGATIVE)	ZONE 5	MPH	7T HIGH

300	280	260	240	220	200	180	160	140	120	100	8	8	70	61	BLEV FEET	MEAN ROOF	ום	BUIL	
53.7	52.7	51.6	50.4	49.2	47.8	46.4	44.9	43.2	41.3	39.2	38.1	36.8	35.4	34.1	+ (POSITIVE)	ZONE 4 & 5	esign loads - Pa	DINGS GREAT	
53.7	52.7	51.6	50.4	49.2	47.8	46.4	44.9	43.2	41.3	39.2	38.1	36.8	35.4	34.1	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 130 MPH	BUILDINGS GREATER THAN 60 FEET HIGH	
98.5	96.6	94.5	92.4	90.1	87.7	85.1	82.3	79.2	75.8	72.0	69.8	67.5	65.0	62.5	- (NEGATIVE)	ZONE 5)MPH	ST HIGH	

300	280	260	240	220	200	180	160	140	120	100	90	80	70	61	BLEV PEET	MEAN ROOF	ם	пов
71.5	70.1	68.7	67.1	85	63.7	61.8	59.8	57.5	55.0	52.3	50.7	49,0	47.2	45.4	+ (POSITIVE)	ZONB 4 & 5	ESIGN LOADS - PS	DINGS GREAT
71.5	70.1	68.7	67.1	65.5	63.7	61.8	59.8	57.5	55.0	52.3	50.7	49.0	47.2	45.4	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 150 MPH	BUILDINGS GREATER THAN 60 FEET HIGH
131.1	128.6	125.9	123.0	120.0	116.8	113.3	109.6	105.5	100.9	95.8	93.0	89.9	86.5	83.2	- (NEGATIVE)	ZONE 5) MPH	ет нісн

Professional Engineer Florida License No. PE0050458 D.L. Fowler

TRIBUTARY AREA = 20 SQ. FT.

BUILDING HEIGHT > 60', **EXPOSURE B**

DRAWN:	PHW		DATE	2-11-0	2
APPROVE	* DF		DATE:	2-14-0)2
EST. AREA	•	R	est. Wi:		LBVT
SIZE	DRAWING NO:				REV:
В	2	Λ1	-017		
Ъ) -	ΛŢ	-01/		C
PSCM NO:	3-	SCAL		NTS	C

10601 OAK STREET N.E. ST. PETERSBURG, FL 33716

GHT © 1998 VALOO ENTERPRISES, LTD

$\bigoplus_{i=1}^{n}$		REVISION
	REV	DESCRIPTION
	A	4-21-04 ADD KN NOTE AND CLARITY
	В	8-18-05, ADDED SHEET 2, 100 SQ. FT.
	С	FBC 2007 UPDATE
	D	
	В	
		A B C

	BROWA	RD COUNTY	
BUILDI	NGS EQUAL OR	LESS THAN 60	FEET HIGH
	ROOF A	ANGLE < 10°	
Γ	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	33.2	36.5	39.2
20	35.3	38.8	42.4
25	37.0	40.6	44.4
30	38.4	42.2	46.1
35	39.7	43.6	47.7
40	40.8	44.9	49.0
45	41.8	46.0	50.3
50	42.8	47.0	51.4
55	43.6	48.0	52.4
60	44.5	48.9	53.4

	MIAMI-DA	ADE COUNTY	
BUILDI	NGS EQUAL OR	LESS THAN 60	FEET HIGH
	ROOF A	ANGLE < 10°	
I	DESIGN LOADS - PS	F EXPOSURE C - 146	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	36.1	39.7	43.4
20	38.4	42.2	46.1
25	40.2	44.2	48.3
30	41.8	45.9	50.2
35	43.2	47.4	51.8
40	44.4	48.8	53.3
45	45.5	50.0	54.7
50	46.5	51.1	55.9
55	47.5	52.2	57.0
60	48.4	53.1	58.1

(5) (4) (7) (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1

	REVISI	DESCR	
		REV	<
(5) (4) (5) (4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Ψ •	+	
	THIRD ANGLE PROJECTION	CUSTOMER ADDRESS:	
(S) (a) **		ET N.E. FL 33716	

	PALM BEA	ACH COUNTY	
BUILDI	NGS EQUAL OF	R LESS THAN 60	FEET HIGH
	ROOF .	ANGLE < 10°	
D	ESIGN LOADS - PS	F EXPOSURE B - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	27.4	30.1	32.9
20	27.4	30.1	32.9
25	27.4	30.1	32.9
30	27.4	30.1	32.9
35	28.6	31.5	34.4
40	29.7	32.7	35.7
45	30.8	33.8	36.9
50	31.7	34.8	38.1
55	32.6	35.8	39.1
60	33.4	36.7	40.1

	PALM BEA	ACH COUNTY	
BUILDI	NGS EQUAL OF	R LESS THAN 60	FEET HIGH
	ROOF.	ANGLE < 10°	
Γ	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	33.2	36.5	39.2
20	35.3	38.8	42.4
25	37.0	40.6	44.4
30	38.4	42.2	46.1
35	39.7	43.6	47.7
40	40.8	44.9	49.0
45	41.8	46.0	50.3
50	42.8	47.0	51.4
55	43.6	48.0	52.4
60	44.5	48.9	53.4

- 1. IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 100 SQ. FEET. PALM BEACH COUNTY CAN BE EXPOSURE "B" OR "C". DADE/BROWARD EXPOSURE "C" ONLY!
- Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

Exposure C, EXCEPT IN THE HIGH VELOCITY HURRICANE ZONE, Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet (182.9 m) and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing terrain exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more or inland waterways or rivers with a width of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20.

- 2. BLDGS, 60 FT HIGH OR LESS, a=10% OF MINIMUM WIDTH OR .4H, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4% OF MINIMUM WIDTH OR 3 FT.
- 3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
- 4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.
- 5. LOADS BETWEEN TABLES AT VARIOUS MPH, MAY BE INTERPOLATED.
- 6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.
- 7. THE MEAN ROOF HEIGHT WAS PROVIDED BY OMI, RAW OR ISP PERSONNEL PER SITE INSPECTION.
- 8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF +/- 0.18. FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.
- 9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS, SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

MIAMI-DADE, BROWARD, PALM BEACH COUNTIES BUILDING HEIGHT 60' OR LESS, ROOF ANGLE < 10° TRIBUTARY AREA = 100 SQ. FT.

D.L. Fowler Professional Engineer Florida License No. PE0050458

COMPONENTS & CLADDING AS PER FLORIDA BUILDING CODE & -01-033

10601 OAK STRE ST. PETERSBURG,

	BROWAI	RD COUNTY					
BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH							
ROOF ANGLE < 10°							
Ι	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH				
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5				
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)				
15	39.1	42.4	52.1				
20	41.5	45.0	55.4				
25	43.5	47.2	58.1				
30	45.2	49.0	60.3				
35	46.7	50.6	62.3				
40	48.0	52.1	64.1				
45	49.3	53.4	65.7				
50	50.4	54.6	67.2				
55	51.4	55.7	68.5				
60	52.4	56.7	69.8				

	MIAMI-DA	ADE COUNTY					
BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH							
ROOF ANGLE < 10°							
I	DESIGN LOADS - PSI	F EXPOSURE C - 146	MPH				
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5				
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)				
15	42.5	46.1	56.7				
20	45.2	48.9	60.2				
25	47.4	51.3	63.1				
30	49.2	53.3	65.6				
35	50.8	55.1	67.8				
40	52.3	56.6	69.7				
45	53.6	58.1	71.5				
50	54.8	59.4	73.1				
55	55.9	60.6	74.5				
60	56.9	61.7	75.9				

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	PALM BEA	ACH COUNTY	•						
BUILDI	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH								
	ROOF A	ANGLE < 10°							
I	DESIGN LOADS - PSI	F EXPOSURE B - 140	MPH						
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5						
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)						
15	32.2	34.9	43.0						
20	32.2	34.9	43.0						
25	32.2	34.9	43.0						
30	32.3	35.0	43.0						
35	33.7	36.5	45.0						
40	35.0	38.0	46.7						
45	36.2	39.3	48.3						
50	37.3	40.5	49.8						
55	38.4	41.6	51.2						
60	20.2	12.6	52.5						

	PALM BEA	ACH COUNTY	
BUILDI	NGS EQUAL OR	LESS THAN 60	FEET HIGH
	ROOF A	ANGLE < 10°	
Ι	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	39.1	42.4	52.1
20	41.5	45.0	55.4
25	43.5	47.2	58.1
30	45.2	49.0	60.3
35	46.7	50.6	62.3
40	48.0	52.1	64.1
45	49.3	53.4	65.7
50	50.4	54.6	67.2
55	51.4	55.7	68.5
60	52.4	56.7	69.8

- 1. IMPORTANCE FACTOR 1.0. TRIBUTARY AREA USED 100 SO, FEET. PALM BEACH COUNTY CAN BE EXPOSURE "B" OR "C". DADE/BROWARD EXPOSURE "C" ONLY!
- Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a
- distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or

other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

Exposure C, EXCEPT IN THE HIGH VELOCITY HURRICANE ZONE, Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type terrain that extends more than 600 feet (182.9 m) and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing terrain exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more or inland waterways or rivers with a width of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20.

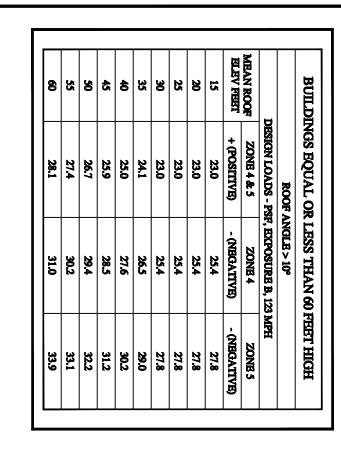
- 2. BLDGS. 60 FT HIGH OR LESS, a=10% OF MINIMUM WIDTH OR .4H, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4% OF MINIMUM WIDTH OR 3 FT.
- 3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
 4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.
- 5. LOADS BETWEEN TABLES AT VARIOUS MPH, MAY BE INTERPOLATED.
- 6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.
- 7. THE MEAN ROOF HEIGHT WAS PROVIDED BY OMI, RAW OR ISP PERSONNEL PER SITE INSPECTION. 8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF +/- 0.18.
- FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.
- 9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS, SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

MIAMI-DADE, BROWARD, PALM BEACH COUNTIES BUILDING HEIGHT 60' OR LESS, ROOF ANGLE < 10°

TRIBUTARY AREA = 10 SQ. FT.

D.L. Fowler Professional Engineer Florida License No. PE0050458

COMPONENTS & CLADDING AS PER 10601 OAK STREET N.E. ST. PETERSBURG, FL 33716 FLORIDA BUILDING CODE & ASCE WINDLOAD TABLES FOR 3-01-033



	ROOF /	ROOF ANGLE > 10°	
Е)ESIGN LOADS - PS	DESIGN LOADS - PSF, EXPOSURE C, 123 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELBV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	28.0	30.8	33.7
20	29.7	32.7	35.8
25	31.1	34.3	37.5
30	32.3	35.6	0.66
35	33.4	36.8	40.3
40	34.4	37.8	41,4
45	35.2	38.7	42,4
50	36.0	39.6	43.4
55	36.7	40.5	44.3
8	37.4	41.2	45.1

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55 33.7 37.0 40		66 898 1.68 05	45 32.3 35.5 38	40 31.5 34.7 37	35 30.7 33.7 36	30 29.7 32.6 35	25 28.6 31.4 34	20 27.3 30.0 32	15 25.6 28.2 30	ELEV FEET + (POSITIVE) - (NEGATIVE) - (NEG.	MEAN ROOF ZONE 4 & 5 ZONE 4 ZON	DESIGN LOADS - PSF, EXPOSURE C, 123 MPH	ot > etidny door	HOIH LEEJ 09 NYHL SSET AO TYNDE SONICTINE	
	40.5	39.7	38.8	37.9	36.8	35.7	34.3	32.7	30.8	- (NEGATIVE)	ZONE 5	3 MPH) FEET HIGH	

BUILDINGS G DESIGN LOA	DESIGN TODING
	GREATER THAN 60 FEET ADS - PSF, EXPOSURE C, 123 M 4 & 5 ZONE 4 TIVB - (NEGATIVE) 6 36.8 6 39.0 6 39.9 4 40.8 0 42.4 0 42.4 3 43.8 6 45.1 6 46.2 6 48.2

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OF MINIMUM WIDTH OR 3 FT.

3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.

4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.

5. LOADS BETWEEN TABLES AT VARIOUS MPH, CAN BE INTERPOLATED.

6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.

8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND COM OF 4/- 0.18.

FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.

9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

Professional Engineer Florida License No. D.L. Fowler

DRAWN:	P4		DATE:	08-2	3-05
APPROVE	* DF		DATE	8-5	1-05
eşt. Area	:	*	EST. WT:		LB/FT
SIZR:	mm A memoral such				
SIZE	DRAWING NO:				REV:
В		01	-032)	REV:
		01		NI	

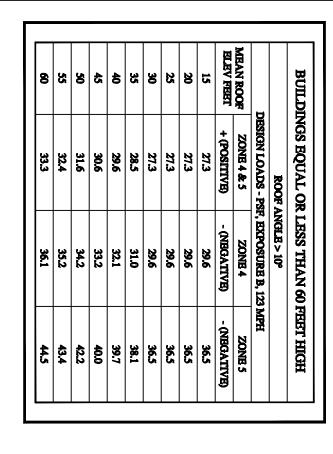
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10601 OAK STREET N.E. ST. PETERSBURG, FL 33716

WINDLOAD TABLES FOR **COMPONENTS & CLADDING AS PER** FLORIDA BUILDING CODE & ASCE 7

THIRD ANGLE PROJECTION		REVISION
CUSTOMER ADDRESS:	REV	DESCRIPTION
	A	
	В	
	С	
	D	

E



MEAN ROOF BLEV FEET	ROOF RESIGN LOADS - PS ZONE 4 & 5 + (POSITIVE) 33.0	ROOF ANGLE > 10°
15	33.0	35.8
20	35.1	38.1
25	36.8	99.9
06	38.2	41.5
35	39.5	42.9
40	40.6	44.1
45	41.7	45.2
50	42.6	46.2
55	43.5	47.1

53.9	43.8	40.5	60
53.0	43.0	39.7	55
51.9	42.2	38,9	50
50.8	41.2	38,1	45
49.5	40.2	37.2	\$
48.1	39.1	36,1	35
46.6	37.9	35,0	30
44.9	36.5	33.7	25
42.8	34.8	32,1	20
40.2	32.7	30.2	15
- (NEGATIVE)	- (NEGATIVE)	+ (POSITIVE)	THE VETE
ZONE 5	ZONE 4	ZONE 4 & 5	MEAN ROOF

BUILDINGS EQUAL OR LE

ISS THAN 60 FEET HIGH

DESIGN LOADS - PSF, EXPOSURE C, 123 MPH

ROOF ANGLE < 10°

BUI	DINGS GREAT	BUILDINGS GREATER THAN 60 FEET HIGH
1	DESIGN LOADS - PS	DESIGN LOADS - PSF, EXPOSURE C, 123 MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4
JEES AFTE	+ (POSITIVE)	- (NEGATIVE)
61	40.6	40.6
70	41.8	41.8
8	43.0	43.0
86	44.1	1.44
100	45.0	45.0
120	46.8	46.8
140	48.3	48.3
160	49.7	49.7
180	51.0	51.0
200	52.1	52.1
220	53.2	53.2
240	54.2	54.2
260	55.1	55.1
280	55.9	55.9
300	56.8	8.65

MEAN ROOF ZONE 4 & 5 ZONE 4 ZONE 5 ELEV PERT + (POSITIVE) - (NEGATIVE) - (NEGATIVE) 61 40.6 40.6 74.4
+ (POSITIVE) - (NEGATIVE) -
40.6 40.6
76.6
80 43.0 78.7
\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
© \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
160 49.7 49.7 91.1
0 200 52.1 52.1 95.5
○
© 0 → 342 342 392
260 55.1 55.1 100.9
280 55.9 55.9 102.5
NOTES: 1. IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 100 SQ. FEET. 200 56.8 104.0

and ocean or gulf shoretines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1,61 km) or more or inland waterways or rivers with a
width of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20.
2. BLDGS. 60 FT HIGH OR LESS, a=10% OF MINIMUM WIDTH OR .4H, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4%
OF MINIMUM WIDTH OR 3 FT.
3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.
5. LOADS BETWEEN TABLES AT VARIOUS MPH, MAY BE INTERPOLATED.
6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.
7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW OR ISP PERSONNEL PER SITE INSPECTION.
8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpl OF +/- 0.18.
FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.
9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR
ESCARPMENTS, SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS
OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

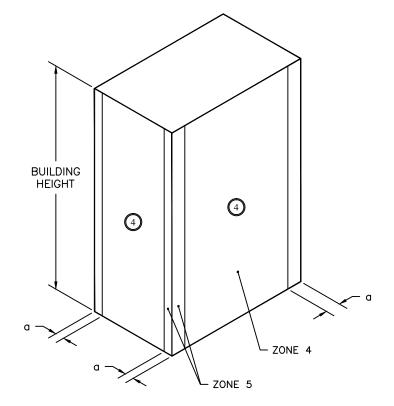
	Profe Flori PEO	D.L.																6 C, 123 MPH	66 PRI 18									(<i>1</i> 2)	4	3 C, 123 MPH	N 60	
	Professional Engineer Florida License No. PE0050458	Fowler		104.0	102.5	100.9	97.4	95.5	93.4	91.1	88 83	82.5	80.7	78.7	76.6	74.4	- (NEGATIVE)	ZONE 5	SO FEET HIGH	53.9	53.0	\$10	49.5	48.1	46.6	44.9	42.8	40.2	CHICA THUS		AN 60 FEBT HIGH	
DRAWN:	DF .	DATE	10-20-04							_									D ANGL	()	\subseteq	7	Т			R	EV	'IS	ION		
APPROVED	Dr	DATE:	10-22-04	ľ		STORM A				Y.			OAK ERSE				6	_	ER ADDRI					R	EV			Γ	ESC	RIPTI	ON	
est. Area		EST. WT:	LEFT			DOPY	RIGHT	r 0 20	002 V	/ALO	O EN	TER	PIÈE	8 , L1	ID.										A	8	23-0	5 ADI)ED 9	HEET 2	. 100 50	FT
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В	l	l-032	<u>B</u>	cc	MP												,								C				·	·		·
FSCM NO:	SCA	LR:	NTS																						D							
	SHI	ser 1	OF 2	l LL	ORI	IJΑ	, pt	طلار	עע	NU	C	עט	E C	K A	72C	E.	1	1						1	В							

	BROWAI	RD COUNTY	
BUIL	DINGS GREAT	ER THAN 60 FEI	ET HIGH
D	ESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	46.0	47.6	76.8
70	47.4	49.0	79.1
80	48.7	50.4	81.3
90	49.9	51.7	83.4
100	51.1	52.9	85.2
120	53.1	54.9	88.6
140	54.8	56.7	91.5
160	56.4	58.4	94.1
180	57.8	59.8	96.5
200	59.1	61.2	98.6
220	60.3	62.4	100.6
240	61.4	63.6	102.5
260	62.4	64.6	104.2
280	63.4	65.7	105.9
300	64.4	66.6	107.4

	MIAMI-DA	ADE COUNTY	
BUIL	DINGS GREAT	ER THAN 60 FEI	ET HIGH
D	ESIGN LOADS - PS	F EXPOSURE C - 146	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	50.0	51.9	83.6
70	51.6	53.3	86.0
80	53.0	54.9	88.5
90	54.4	56.3	90.7
100	55.6	57.5	92.8
120	55.8	59.8	96.3
140	59.7	61.8	99.6
160	61.4	63.5	102.4
180	62.9	65.1	104.9
200	64.3	66.6	107.3
220	65.6	67.9	109.5
240	66.8	69.2	111.5
260	68.0	70.3	113.4
280	69.0	71.5	115.2
300	70.0	72.5	116.9

	PALM BEA	ACH COUNTY					
BUIL	DINGS GREAT	ER THAN 60 FEI	ET HIGH				
D	ESIGN LOADS - PS	F EXPOSURE B - 140	MPH				
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5				
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)				
61	34.6	35.8	57.8				
70	36.0	37.3	60.1				
80	37.4	38.7	62.4				
90	38.7	40.0	64.6				
100	39.9	41.3	66.5				
120	42.0	43.5	70.1				
140	43.9	45.4	73.3				
160	45.6	47.2	76.1				
180	47.2	48.8	78.7				
200	48.6	50.3	81.1				
220	49.9	51.7	83.4				
240	51.2	53.0	85.5				
260	52.4	54.2	87.5				
280	53.5	55.4	89.3				
300	54.6	56.5	91.1				

	PALM BEA	ACH COUNTY	
BUIL	DINGS GREAT	ER THAN 60 FEI	ET HIGH
D	ESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	46.0	47.6	76.8
70	47.4	49.0	79.1
80	48.7	50.4	81.3
90	49.9	51.7	83.4
100	51.1	52.9	85.2
120	53.1	54.9	88.6
140	54.8	56.7	91.5
160	56.4	58.4	94.1
180	57.8	59.8	96.5
200	59.1	61.2	98.6
220	60.3	62.4	100.6
240	61.4	63.6	102.5
260	62.4	64.6	104.2
280	63.4	65.7	105.9
300	64.4	66.6	107.4



- 1. TRIBUTARY AREA USED 100 SQ. FEET, IMPORTANCE FACTOR 1.0, PALM BEACH COUNTY CAN BE EXPOSURE "B" OR "C". DADE/BROWARD EXPOSURE "C" ONLY! Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. Exposure C has open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type terrain that extends more than 600 feet and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing terrai exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more or inland waterways or rivers with a width of 1 mile (1.61 km)
- or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20 percent. 2. BUILDINGS GREATER THAN 60 FT HIGH, a=10% OF MINIMUM WIDTH BUT NOT LESS
- 3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
- 4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED. 5. LOADS BETWEEN TABLES AT VARIOUS MPH CAN BE INTERPOLATED.
- 6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE
- CUSTOMER ADDRESS INDICATED.
- 7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.
- 8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF +/- 0.18. FOR PRESSURE CALCULATIONS WHICH REOUIRE A Kd OF 1.0. ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.
- 9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

D.L. Fowler Professional Engineer Florida License No. PE0050458

COMPONENTS & CLADDING AS PER FLORIDA BUILDING CODE & ASCE 7 10601 OAK STREET ST. PETERSBURG, FL WINDLOAD TABLES FOR -01-026

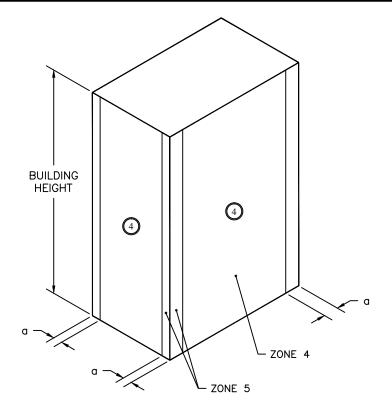
MIAMI-DADE, BROWARD, PALM BEACH COUNTIES BUILDING HEIGHT GREATER THAN 60' TRIBUTARY AREA = 100 SQ. FT.

BROWARD COUNTY			
BUIL	DINGS GREAT	ER THAN 60 FEI	ET HIGH
D	ESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	52.5	52.5	96.3
70	54.1	54.1	99.2
80	55.6	55.6	102.0
90	57.0	57.0	104.5
100	58.3	58.3	106.9
120	60.6	60.6	111.1
140	62.6	62.6	114.7
160	64.4	64.4	118.0
180	66.0	66.0	121.0
200	67.5	67.5	123.7
220	68.8	68.8	126.2
240	70.1	70.1	128.5
260	71.3	71.3	130.7
280	72.4	72.4	132.8
300	73.5	73.5	134.7

	MIAMI-DA	ADE COUNTY	
BUII	LDINGS GREAT	ER THAN 60 FEI	ET HIGH
Γ	DESIGN LOADS - PS	F EXPOSURE C - 146	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	57.1	57.1	104.8
70	58.8	58.8	107.8
80	60.5	60.5	110.9
90	62.0	62.0	113.7
100	63.4	63.4	116.2
120	65.9	65.9	120.8
140	68.1	68.1	124.8
160	70.0	70.0	128.3
180	71.8	71.8	131.5
200	73.4	73.4	134.5
220	74.9	74.9	137.2
240	76.2	76.2	139.8
260	77.5	77.5	142.1
280	78.8	78.8	144.4
300	79.9	79.9	146.5

	PALM BEA	ACH COUNTY	
BUII	LDINGS GREAT	ER THAN 60 FEI	ET HIGH
Γ	DESIGN LOADS - PS	F EXPOSURE B - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	39.5	39.5	72.5
70	41.1	41.1	75.4
80	42.7	42.7	78.3
90	44.2	44.2	81.0
100	45.5	45.5	83.5
120	48.0	48.0	87.9
140	50.1	50.1	91.9
160	52.1	52.1	95.4
180	53.8	53.8	98.7
200	55.5	55.5	101.7
220	57.0	57.0	104.5
240	58.5	58.5	107.2
260	59.8	59.8	109.6
280	61.1	61.1	112.0
300	62.3	62.3	114.2

	PALM BEACH COUNTY			
BUII	LDINGS GREAT	ER THAN 60 FEI	ET HIGH	
Г	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH	
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5	
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)	
61	52.5	52.5	96.3	
70	54.1	54.1	99.2	
80	55.6	55.6	102.0	
90	57.0	57.0	104.5	
100	58.3	58.3	106.9	
120	60.6	60.6	111.1	
140	62.6	62.6	114.7	
160	64.4	64.4	118.0	
180	66.0	66.0	121.0	
200	67.5	67.5	123.7	
220	68.8	68.8	126.2	
240	70.1	70.1	128.5	
260	71.3	71.3	130.7	
280	72.4	72.4	132.8	
300	73.5	73.5	134.7	



NOTES:

- 1. TRIBUTARY AREA USED 100 SQ. FEET, IMPORTANCE FACTOR 1.0,
 PALM BEACH COUNTY CAN BE EXPOSURE "B" OR "C". DADE/BROWARD EXPOSURE "C" ONLY!
 Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.
 Exposure C has open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type terrain that extends more than 600 feet and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing terrain exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more or inland waterways or rivers with a width of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20 percent.
- 2. BUILDINGS GREATER THAN 60 FT HIGH, a=10% OF MINIMUM WIDTH BUT NOT LESS THAN 2 FT
- 3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
- 4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.
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- 6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE
- CUSTOMER ADDRESS INDICATED.
- 7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.
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- 8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF +/- 0.18. FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.
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D.L. Fowler Professional Engineer Florida License No. PE0050458

COMPONENTS & CLADDING AS PER FLORIDA BUILDING CODE & ASCE 7 WINDLOAD TABLES FOR -026 -01

MIAMI-DADE, BROWARD, PALM BEACH COUNTIES BUILDING HEIGHT GREATER THAN 60' TRIBUTARY AREA = 20 SQ. FT.

	BROWAI	RD COUNTY	
BUILDI	NGS EQUAL OR	LESS THAN 60	FEET HIGH
	ROOF A	ANGLE > 10°	
Γ	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	36.2	39.8	43.6
20	38.4	42.3	46.3
25	40.3	44.3	48.5
30	41.8	46.1	50.4
35	43.2	47.6	52.1
40	44.5	49.0	53.6
45	45.6	50.2	54.9
50	46.6	51.3	56.2
55	47.5	52.4	57.3
60	48.4	53.3	58.4

	MIAMI-DA	ADE COUNTY	
BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH			
	ROOF A	ANGLE > 10°	
I	DESIGN LOADS - PS	F EXPOSURE C - 146	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	39.4	43.4	47.5
20	41.8	46.1	50.4
25	43.8	48.3	52.8
30	45.6	50.2	54.9
35	47.1	51.8	56.7
40	48.4	53.3	58.3
45	49.6	54.6	59.8
50	50.7	55.9	61.1
55	51.8	57.0	62.4
60	52.7	58.0	63.5

6	**************************************	

	PALM BEA	ACH COUNTY	
BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH			
	ROOF A	ANGLE > 10°	
Ε	DESIGN LOADS - PS	F EXPOSURE B - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	29.8	32.8	36.0
20	29.8	32.8	36.0
25	29.8	32.8	36.0
30	29.8	32.8	36.0
35	31.2	34.3	37.6
40	32.4	35.7	39.0
45	33.5	36.9	40.4
50	34.5	38.1	41.6
55	35.5	39.1	42.8
60	36.4	40.1	43.9

ROOF ANGLE > 10°		PALM BEA	ACH COUNTY		
DESIGN LOADS - PSF EXPOSURE C - 140 MPH MEAN ROOF ELEV FEET ZONE 4 & 5 ZONE 4 ZONE 5 + (POSITIVE) - (NEGATIVE) - (NEGATIVE) 15 36.2 39.8 43.6 20 38.4 42.3 46.3 25 40.3 44.3 48.5 30 41.8 46.1 50.4 35 43.2 47.6 52.1 40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH				
MEAN ROOF ELEV FEET ZONE 4 & 5 ZONE 4 ZONE 5 15 36.2 39.8 43.6 20 38.4 42.3 46.3 25 40.3 44.3 48.5 30 41.8 46.1 50.4 35 43.2 47.6 52.1 40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2		ROOF A	ANGLE > 10°		
Columbia Columbia	I	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH	
15 36.2 39.8 43.6 20 38.4 42.3 46.3 25 40.3 44.3 48.5 30 41.8 46.1 50.4 35 43.2 47.6 52.1 40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2	MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5	
20 38.4 42.3 46.3 25 40.3 44.3 48.5 30 41.8 46.1 50.4 35 43.2 47.6 52.1 40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2	ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)	
25 40.3 44.3 48.5 30 41.8 46.1 50.4 35 43.2 47.6 52.1 40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2	15	36.2	39.8	43.6	
30 41.8 46.1 50.4 35 43.2 47.6 52.1 40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2	20	38.4	42.3	46.3	
35 43.2 47.6 52.1 40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2	25	40.3	44.3	48.5	
40 44.5 49.0 53.6 45 45.6 50.2 54.9 50 46.6 51.3 56.2	30	41.8	46.1	50.4	
45 45.6 50.2 54.9 50 46.6 51.3 56.2	35	43.2	47.6	52.1	
50 46.6 51.3 56.2	40	44.5	49.0	53.6	
	45	45.6	50.2	54.9	
	50	46.6	51.3	56.2	
55 47.5 52.4 57.3	55	47.5	52.4	57.3	
60 48.4 53.3 58.4	60	48.4	53.3	58.4	

1. IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 100 SQ. FEET. PALM BEACH COUNTY CAN BE EXPOSURE "B" OR "C". DADE/BROWARD EXPOSURE "C" ONLY! Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a

distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

Exposure C, EXCEPT IN THE HIGH VELOCITY HURRICANE ZONE, Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type terrain that extends more than 600 feet (182.9 m) and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing terrain exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more or inland waterways or rivers with a width of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20.

- 2. BLDGS, 60 FT HIGH OR LESS, a=10% OF MINIMUM WIDTH OR .4H, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4% OF MINIMUM WIDTH OR 3 FT.
- 3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
- 4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.
- 5. LOADS BETWEEN TABLES AT VARIOUS MIN IN TABLE CAN BE INTERPOLATED.

 6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

 7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW OR ISP PERSONNEL PER SITE INSPECTION.
- 8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF +/- 0.18. FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.
- 9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

MIAMI-DADE, BROWARD, PALM BEACH COUNTIES **BUILDING HEIGHT 60' OR LESS**

TRIBUTARY AREA = 100 SQ. FT.

D.L. Fowler Professional Engineer Florida License No. PE0050458

COMPONENTS & CLADDING AS PER

FLORIDA BUILDING CODE &

WINDLOAD TABLES FOR

-01-025

10601 OAK STREET N.E. ST. PETERSBURG, FL 33716

	BROWAI	RD COUNTY	
BUILDI	NGS EQUAL OR	LESS THAN 60	FEET HIGH
	ROOF A	ANGLE > 10°	
Ι	DESIGN LOADS - PS	F EXPOSURE C - 140	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	42.7	46.3	57.2
20	45.4	49.2	60.8
25	47.6	51.6	63.7
30	49.4	53.6	66.2
35	51.1	55.4	68.4
40	52.5	57.0	70.3
45	53.8	58.4	72.1
50	55.0	59.7	73.7
55	56.2	60.9	75.2
60	57.2	62.0	76.6

	MIAMI-DA	ADE COUNTY	
BUILDI	NGS EQUAL OR	LESS THAN 60	FEET HIGH
	ROOF A	ANGLE > 10°	
D	DESIGN LOADS - PS	F EXPOSURE C - 146	МРН
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	46.5	50.4	62.2
20	49.4	53.5	66.1
25	51.7	56.1	69.3
30	53.8	58.3	72.0
35	55.5	60.2	74.4
40	57.1	62.0	76.5
45	58.6	63.5	78.4
50	59.9	64.9	80.2
55	61.1	66.3	81.8
60	62.2	67.5	83.3

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G 0	

PALM BEACH COUNTY								
FALM BEACH COUNT I								
BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH								
ROOF ANGLE > 10°								
DESIGN LOADS - PSF EXPOSURE B - 140 MPH								
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5					
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)					
15	35.2	38.2	47.2					
20	35.2	38.2	47.2					
25	35.2	38.2	47.2					
30	35.3	38.2	47.2					
35	36.8	40.0	49.3					
40	38.3	41.5	51.3					
45	39.6	42.9	53.0					
50	40.8	44.3	54.6					
55	41.9	45.5	56.1					
60	43.0	46.6	57.5					

PALM BEACH COUNTY								
BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH								
ROOF ANGLE > 10°								
DESIGN LOADS - PSF EXPOSURE C - 140 MPH								
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5					
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)					
15	42.7	46.3	57.2					
20	45.4	49.2	60.8					
25	47.6	51.6	63.7					
30	49.4	53.6	66.2					
35	51.1	55.4	68.4					
40	52.5	57.0	70.3					
45	53.8	58.4	72.1					
50	55.0	59.7	73.7					
55	56.2	60.9	75.2					
60	57.2	62.0	76.6					

- 1. IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 100 SQ. FEET. PALM BEACH COUNTY CAN BE EXPOSURE "B" OR "C". DADE/BROWARD EXPOSURE "C" ONLY! Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a
- distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or

other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

Exposure C, EXCEPT IN THE HIGH VELOCITY HURRICANE ZONE, Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 fee 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any directive of the control o terrain that extends more than 600 feet (182.9 m) and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing terrain exposure, for the purposes of developing the pre-existing terrain exposure. fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more width of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20.

2. BLDGS. 60 FT HIGH OR LESS, a=10% OF MINIMUM WIDTH OR .4H, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4%

- OF MINIMUM WIDTH OR 3 FT.
- 3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
- 4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.

- 5. LOADS BETWEEN TABLES AT VARIOUS MPH, MAY BE INTERPOLATED.
 6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.
 7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW OR ISP PERSONNEL PER SITE INSPECTION.
- 8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF +/- 0.18.
- FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18. 9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR
- ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

		REVISION	DESCRIPTION	4-21-04 ADD KD NOTE AND CLARITY	8-23-05 ADDED SHEET 2, 100 SQ FT	FBC 2007 UPDATE	PALM BEACH CHANGE TO 140 MPH	
		\	REV	A	В	Ü	D	Е
\$ 7	(4)		/ }					
4	0 -*	THIRD ANGLE	CUSTOMER ADDRESS:					
			10601 OAK STREET N.E. ST. PETERSBURG, FL 33716	COPYRIGHT © 2002 VALCO	THUE WINDLOAD TABLES FOR	COMPONENTS & CLANING AS DED		FLORIDA BUILDING CODE & ASCE /
feet (9144 mm) extending more than ction of open areas of Exposure C-type pment, shall not be considered open y includes flat open country, grasslands re or inland waterways or rivers with a		3-15-02	20-61-6		REV:	C_{ij}	NTS	1 of 2
	D.L. Fowler Professional Engineer Florida License No. PE0050458	PHW DATE:	DATE:	EST. WT:	DRAWING NO:	3-01-025	SCALE:	SHEET
O, PALM BEACH COUNTIES			ä	نز	DRAV			

MIAMI-DADE, BROWARD, **BUILDING HEIGHT 60' OR LESS** TRIBUTARY AREA = 10 SQ. FT.

Q MEAN ROOF ELEV FEET **BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH** ႘ၟ ß 8 8 8 ð 8 8 8 5 **DESIGN LOADS - PSF EXPOSURE C - 110 MPH (** + (POSITIVE) ZONE 4 & 5 23.7 28.1 24.8 28.8 8 27.4 26.7 25.8 22,3 29.3 ROOF ANGLE > 10° - (NEGATIVE) **ZONE 4** 26.1 31.7 31.0 **30,2** 29.4 28.4 27.4 24.6 32.3 **(4**) - (NEGATIVE) ZONE 5 33.9 32,1 31.1 29.9 28.6 35.4 34.7 33.1 26.9 36.0 **O** Ω

	ROOF /	ROOF ANGLE > 10°	
ם	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV PEET	+ (POSITIVE)	- (NEGATIVE)	(EVITAGEN) -
15	26.6	29.2	32.0
20	28.2	31.1	34.0
25	29.6	32.6	35.6
30	30.7	33.8	37.0
35	31.7	35.0	38.3
40	32.7	36.0	39.4
45	33.5	36.9	40.3
50	34.2	37.7	41.3
55	34.9	38.5	42.1
3	3	30 C	420

וועשטפ	BUILDINGS BOUAL OR LESS THAN OUTEBI HIGH	C LESS I TEATH OF	LEBI MOU
	ROOF /	ROOF ANGLE > 10°	
۵	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 130 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
TERN VELE	+ (POSITIVE)	- (NEGATIVE)	(EVITAGEN) -
15	31.2	34.3	37.6
20	33.1	36.5	9.9
25	34.7	38.2	41.8
30	36.1	39.7	43.5
35	37.3	41.0	44.9
40	38.3	42.2	46.2
45	39.3	43.3	47.1
50	40.2	44.2	48.4
55	41.0	45.1	49.4
8	41.8	46.0	50.3

50 34.2 37.7 55 34.9 38.5

	ROOF.	ROOF ANGLE > 10°	
)ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 140 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
BLBV FBBT	+ (POSITIVE)	- (NEGATIVE)	(AVITAGEN) -
15	36.2	39.8	43.6
20	38.4	42.3	46.3
25	40.3	44.3	48.5
30	41.8	46.1	4.05
35	43.2	47.6	52.1
40	44.5	49.0	53.6
45	45.6	50.2	54.9
50	46.6	51.3	56.2
55	47.5	52.4	57.3
	787	53.3	58.4

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<u>(</u>

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60 55.6 61	55 54.6 60.1	50 53.5 58	45 52.3 57.6	40 51.0 56	35 49.6 54	30 48.0 52.9	25 46.2 50	20 44.1 48	15 41.5 45	HLEV FEET + (POSITIVE) - (NEG.	MEAN ROOF ZONE 4 & 5 ZONE 4	DESIGN LOADS - PSF EXPOSURE C - 150 MPH	ROOF ANGLE > 10°	
61.2 67.0).1 65.8	58.9 64.5	7.6 63.1	56.2 61.5	54.6 59.8	29 57.9	50.9 55.7	48.6 53.2	45.7 50.0	- (NEGATIVE) - (NEGATIVE)	NE 4 ZONE 5	RE C - 150 MPH	.0°	

PE0050458	Florida Licen	Professional I	D.L. Fowler

BUILDING HEIGHT 60' OR LESS, EXPOSURE C, ROOF ANGLE > 10° TRIBUTARY AREA = 100 SQ. FT.

DRAWN:	PHW		DATE		8-18-0	か
APPROVE	* DF		DATE:		8-51-0	カ
EST. AREA	:	*	est. W	ľ:		LIV-T
SIZE	DRAWING NO:					REV:
В	3-01-022 -					
FSCM NO:		SCAI	æ		NTS	
		SHE	er	2	OF	2

NOTES:
1. EXPOSURE C. IMPORTANCE FACTOR 1.0, TRIBUTIARY AREA USED 100 \$Q. HEST.
1. EXPOSURE C. Days termin with sestered obscurcions, including surface modulations or other irregularities, having heights generally less than 30 fact (9144 nm) extending more than 1.500 feet (4272 m) from the building ties may quadrant. This exposure shall also apply to any building located within Exposure Stype termin where the building is within 100 feet forthoratally in any direction of open sees of Exposure C-type termin that extends more than 600 feet (1820 m) and which greater than 130 ft. in the upwind direction. Short-term (less than two year) changes in the present exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will most the definition of Exposure B, Exposure B alm in the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 600 feet.

Rev buildings located within a distance of 600 feet of inland bothes of water that present a factor of in mile (1.61 km) or more not describing upilit and roof-to-wall upilit loads shall be increased by 20 percent.

1. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND AFFLY TO ALL FLOORS.

4. LOADS BETWEEN TABLES AT VARIOUS METAKEN AT MEAN ROOF HEIGHT AND AFFLY TO ALL FLOORS.

5. LOADS BETWEEN TABLES AT VARIOUS WELCAN BE INTERPOLATED.

6. CIRCLE IN RED PEN THE AFFROFELATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDECATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QUAL BAND FOR THE CUSTOMER ADDRESS INDECATED.

8. CALCULATED MINIMUM DESIGN FRESULTS ABOVE AMES DON A KG OF 0.85 AND CCAP CAP CONDITIONS.

9. DESIGN PRESSURES DO NOT INCLIDE HEIGHT AND LATET SECURED AND SEED-UP OVER HILLS, RIDGES, OR

ESCARPMENTS, SUCH CONDITIONS WHICH REQUIRE ARE THE ALL THE CONDITIONS

1. AND A CONDITIONS WHICH ADDRESS AND CCAP ALL THE CONDITIONS.

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WINDLOAD TABLES FOR
COMPONENTS & CLADDING AS PER
FLORIDA BUILDING CODE & ASCE 7

THIRD ANGLE PROJECTION		REVISION
CUSTOMER ADDRESS:	REV	DESCRIPTION
	A	
	В	
	С	
	D	
	В	

MEAN ROOF BLEV FEET BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH ୪ \$ 8 ઝ 30 않 8 5 DESIGN LOADS - PSF EXPOSURE C - 110 MPH + (POSITIVE) ZONE 4 & 5 31.5 26.4 34.0 33.2 32,4 30.5 29.**4** 28.0 ROOF ANGLE > 10° - (NEGATIVE) ZONE 4 36.9 36.1 34,2 33.1 31.9 **30.4 28.6** 35.2 - (NEGATIVE) ZONE 5 35 33 445 <u>39,3</u> 37.5 45.5 43.4 42.2 40.9

ם	ROOF . ESIGN LOADS - PS	ROOF ANGLE > 10° DESIGN LOADS - PSF EXPOSURE C - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
TEEN VELE	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	31.4	34.0	42.0
20	33.3	36.2	44.7
25	35.0	37.9	46.8
30	36.3	39.4	48.6
35	37.5	40.7	50.2
40	38.6	41.9	51.7
45	39.6	42.9	53.0
50	40.4	43.9	54.2
55	41.3	44.8	55.2
60	42.0	45.6	56.3

0.00	53.5	49.3	60
64.8	52.5	48.4	55
63.6	51.5	47.5	50
62.2	50.4	46,4	5
60.6	49.1	45.3	45
59.0	47.8	44.0	35
57.1	46.2	42.6	36
54.9	44.5	41.0	25
52.4	42.5	39.1	28
49.3	40.0	36.8	15
- (NEGATIVE)	- (NEGATIVE)	+ (POSITIVE)	TEEN VELET
ZONE 5	ZONE 4	ZONE 4 & 5	MEAN ROOF
MPH	DESIGN LOADS - PSF EXPOSURE C - 130 MPH	ESIGN LOADS - PS	٥
	ROOF ANGLE > 10°	ROOF /	
FEET HIGH	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	NGS EQUAL OR	BUILDI

ש	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NBGATIVE)	- (NEGATIVE)
15	31.4	34.0	42.0
20	33.3	36.2	44.7
25	35.0	37.9	46.8
30	36.3	39.4	48.6
35	37.5	40.7	50.2
40	38.6	41.9	51.7
45	39.6	42.9	53.0
50	40.4	43.9	54.2
55	41.3	44.8	55.2
8	42.0	45.6	56.3

	ROOF	ROOF ANGLE > 10°	ROOF ANGLE > 10°
ם	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 140 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
BLEV FEET	+ (POSITIVE)	- (NBGATIVE)	- (NEGATIVE)
15	42.7	46.3	57.2
20	45.4	49.2	8'09
25	47.6	51.6	7:39
30	49.4	53.6	66.2
35	51.1	55.4	4.89
40	52.5	57.0	2.07
45	53.8	58.4	72.1
50	55.0	59.7	73.7
55	56.2	60.9	75.2
8	57.2	62.0	76.6

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(4)

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(4)

8	55	50	\$	6	35	36	25	20	15	HLEV FEET	MEAN ROOF	9		EUILDI
65.7	64.5	63.2	61.8	60.3	58.6	56.7	54.6	52.1	49.0	+ (POSITIVE)	ZONE 4 & 5	ESIGN LOADS - P	ROOF	NGS EQUAL OI
71.2	69.9	68.5	67.0	65.4	63.6	61.6	59.2	56.5	53.2	- (NIBGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE C - 150 MPH	ROOF ANGLE > 10°	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH
87.9	86.3	84.6	82.8	80.7	78.5	76.0	73.1	69.8	65.7	- (NEGATIVE)	ZONE 5	DMPH		FEET HIGH

PE0050458	Florida License No.	Professional Engineer	

TRIBUTARY AREA = 10 SQ. FT.

BUILDING HEIGHT 60' OR LESS,

O3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.
5. LOADS BETWEEN TABLES AT VARIOUS MPH CAN BE INTERPOLATED.
6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.
7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.
8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A KE OF 0.85 AND GCH OF +/- 0.18.
POR PRESSURE CALCULATIONS WHICH REQUIRE A KE OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLED BY 1.18.
9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR BECARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS

1. EXPOSURE C, IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 10 SQ. FEET.

EXPOSURE C:OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, Open termin with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type termin where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type termin that extends more than 600 feet (182.9 m) and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing termin exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf short-term downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20

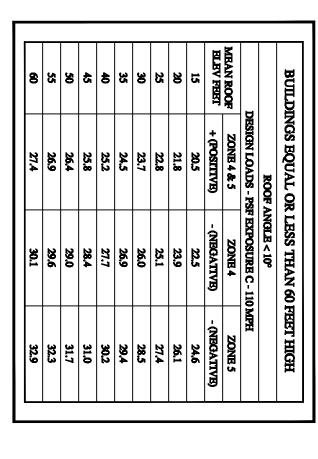
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DRAWN:	PHW		DATE:		<i>3-13-0</i>)2
APPROVED	* DN		DATE		<i>3-19-0</i>)2
EŞT. AREA	:	*	EST. WI	:		LINT
SIZE:	DRAWING NO:					REV:
В	3-	3-01-022				D
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		SHE	er	1	OF	2

Coll-a-way	10601 OAK ST. PETERSE
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K STREET N.E. BURG, FL 33716

THIRD ANGLE PROJECTION	\oplus		REVISION
CUSTOMER ADDRESS:		REV	DESCRIPTION
		A	9-08-03, EXPOSURE "C" CLARITY
		В	4-21-04 ADD KD NOTE AND CLARITY
		С	8-18-05 ADDED SHEET 2, 100 SQ FT
		D	FBC 2007 UPDATE
		10	

87.9	86.3	84.6	82.8	80.7	78.5	76.0	73.1	69.8	65.7



BUILDI	NGS EQUAL OR	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	FEET HIGH
	ROOF /	ROOF ANGLE < 10°	
ם	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	S BNOZ
ELEV PER	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	24.4	26.8	29.3
20	25.9	28.5	31.1
25	27.1	29.8	32.6
30	28.2	31.0	33.9
35	29.1	32.0	35.0
8	30.0	32.9	36,0
\$	30.7	33.8	36.9
50	31.4	34.5	37.7
55	32.1	35.2	38.5
8	32.6	35.9	39.2

60	55	50	45	45	35	30	25	20	15	IEEN VETE	MEAN ROOF	В		ומתונטו
38.3	37.6	36.9	36.1	35.2	34.2	33.1	31.9	30.4	28.6	+ (POSITIVE)	ZONE 4 & 5	ESIGN LOADS - P	ROOF	NGS EQUAL OI
42.1	41.4	40.5	39.6	38.7	37.6	36.4	35.0	33.4	31.5	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE C - 130 MPH	ROOF ANGLE < 10°	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH
46.0	45.2	44.3	43.3	42.3	41.1	39.8	38.3	36.5	34.4	- (NEGATIVE)	ZONE 5)MPH		FEET HIGH

60	55	50	45	&	35	36	25	
38.3	37.6	36.9	36.1	35.2	34.2	33.1	31.9	
42.1	41.4	40.5	39.6	38.7	37.6	36.4	35.0	
46.0	45.2	44.3	43.3	42.3	41.1	39.8	38.3	

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89	55	50	45	40	35	30	25	20	15	TEM MET	EAN ROOF			BUILDI	
51.0	50.1	49.1	48.0	46.9	45.6	44.1	42.4	40.5	38.1	+ (POSITIVE)	ZONB 4 & 5	DESIGN LOADS - PS	ROOF.	NGS EQUAL OF	
56.1	55.1	54.0	52.8	51.5	50.1	48.5	46.6	44.5	41.9	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE C - 150 MPH	ROOF ANGLE < 10°	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	
61.3	60.2	59.0	57.7	56.3	54.7	53.0	51.0	48.6	45.8	- (NEGATIVE)	ZONE 5)MPH		FEET HIGH	

	ROOF.	ROOF ANGLE < 10°	
6	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 150 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	S ENOZ
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	38.1	41.9	45.8
20	40.5	44.5	48.6
25	42.4	46.6	0.15
30	44.1	48.5	0.65
35	45.6	50.1	54.7
40	46.9	51.5	56.3
45	48.0	52.8	57.7
50	49.1	54.0	59.0
55	50.1	55.1	60.2
8	51.0	56.1	61.3

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(5)

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MEAN ROOF ELEV FEET

+ (POSITIVE) **ZONE 4 & 5**

- (NEGATIVE) ZONE 4

- (NIBGATIVE)

ZONE 5

38.8 8

<u>365</u>

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BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH

DESIGN LOADS - PSF EXPOSURE C - 140 MPH

ROOF ANGLE < 10°

PE00:	Florid	Profe
E0050458	Iorida Licens	rofessional

EXPOSURE C, ROOF ANGLE < 10° TRIBUTARY AREA = 100 SQ. FT.

BUILDING HEIGHT 60' OR LESS,

OF MINIMUM WIDTH OR 3 FT.

3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.

4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.

5. LOADS BETWEEN TABLES AT VARIOUS MPH CAN BE INTERPOLATED.

6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW OR ISP PERSONNEL PER SITE INSPECTION.

8. CALCULATED MINIMUM DESIGN PERSSURES ABOVE ARE BASED ON A KG OF 0.85 AND GCH OF 4/- 0.18.

FOR PRESSURE CALCULATIONS WHICH REQUIRE A KG OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.

9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

2. BLDGS. 60 FT HIGH OR LESS, 🚁 10% OF MINIMUM WIDTH OR .4H, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4%

nile (1.61 km) or more or inland waterways or rivers with a width of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20

1. EXPOSURE C, IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 100 SQ, FEET.

EXPOSURE C: MEANS, EXCEPT IN THE HIGH VELOCITY HURRICANE ZONE, Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type terrain that extends more than 600 feet (182.9 m) and width greater than 1.50 ft. in the upwind direction. Short-term (less than two year) changes in the pre-cristing terrain exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of where that present a fisch of 1 to 100 feet. The country is the present a fisch of 1 to 100 feet.

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43.6

47.0

51.4

52.4

50,3

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40.8

44.9

49.0 47.7 **46.1** 44.4 42.4 <u>39.9</u>

8

43.6

42,2 40.6

39.7 38.**4** 37.0 35.3 33.2

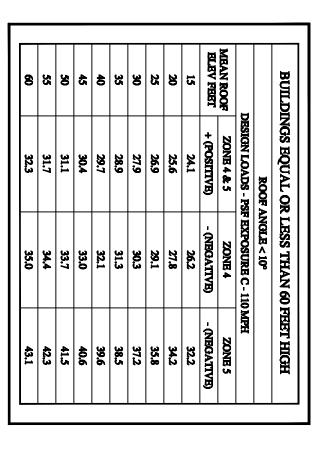
5

41.8 **42.8**

DRAWN:	PHW		DATE:		8-18-0	75
APPROVE	* DF		DATE		8-31-0	ガ
EST. AREA	1	*	EST. W	T:		LB/PT
SIZE:	DRAWING NO:					REV:
В	3-	01	-02	1		_
PSCM NO:		SCAI	æ		NTS	
		SHE	er -	2	OF	2

10601 OAK STREET N.E. ST. PETERSBURG, FL 33716

PROJECTION	⊕-⊑-		REVISION
CUSTOMER ADDRESS:		REV	DESCRIPTION
		A	
		В	
		С	
		D	
		B	



MEAN ROOF BLEV FREET	ROOF ROOF ROOF ZONE 4 & 5 + (POSITIVE)	ROOF ANGLE < 10°	MPH ZONE 5 - (NEGATIVE)
15	28.7	31.1	38.3
20	30.5	33.1	40.7
25	32.0	34.7	42.7
30	33.2	36.0	24.3
35	34.3	37.2	45.8
40	35.3	38.3	47.1
45	36.2	39.2	48.3
50	37.0	40.1	49.4
55	37.8	40.9	50.4
8	38.5	41.7	51.3

BUILDIN D MEAN ROOF ELEV FEET 15 20 25	NGS EQUAL OF ROOF. ESIGN LOADS - PS ZONE 4 & 5 + (POSITIVE) 33.7 35.8 37.5	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH ROOF ANGLE < 10° DESIGN LOADS - PSF EXPOSURE C - 130 MPH N ROOF	MPH ZONE 5 - (NEGATIVE) 45.0 47.8 50.1
ಚ	37.5	40.7	50.1
30	39.0	42.3	52.0
35	40.3	43.7	53.7
6	41.4	44,9	55.3
45	42.5	46.0	56.7
50	43.4	47.1	57.9
55	44.3	48.0	59.1
		0.00	~~~

	ROOF	ROOF ANGLE < 10°	
u	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 130 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	S BNOZ
BLEV PEET	+ (POSITIVE)	- (NEGATIVE)	(EVITAGEN) -
15	33.7	36.5	45.0
20	35.8	38.8	47.8
25	37.5	40.7	50.1
30	39.0	42.3	52.0
35	40.3	43.7	53.7
40	41.4	44.9	55.3
45	42.5	46.0	56.7
50	43.4	47.1	57.9
55	44.3	48.0	59.1
60	45.1	48.9	60.2

BUILDI	NGS EQUAL OR	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	FEET HIGH
	ROOF /	ROOF ANGLE < 10°	
8	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 150 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
THEN VELE	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	44.9	48.6	59.8
20	47.7	51.7	9:69
25	50.0	54.1	9.66
30	51.9	56.3	69.3
35	53.7	58.1	71.5
40	55.2	59.8	73.6
45	56.6	61.3	75.4
50	57.8	62.7	77.1
55	59.0	63.9	78.7
60	60.1	65.1	80.1

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D.L. Fowler	

BUILDING HEIGHT 60' OR LESS, EXPOSURE C, ROOF ANGLE < 10° TRIBUTARY AREA = 10 SQ. FT.

Professional Engineer Florida License No. PE0050458 PHW DATE:

10801 OAK STREET N.E. ST. PETERSBURG, FL 33716

THIRD ANGLE PROJECTION

CUSTOMER ADDRESS

WINDLOAD TABLES FOR **COMPONENTS & CLADDING AS PER**

FLORIDA BUILDING CODE & ASCE 7

	REVISION
REV	DESCRIPTION
A	4-21-04 ADD KD NOTE AND CLARITY
В	8-18-05 ADDED SHEET 2, 100 SQ FT
С	FBC 2007 UPDATE
D	
-	

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MEAN ROOF ELEV FEET

+ (POSITIVE) ZONE 4 & 5

- (NEGATIVE) ZONE 4

- (NEGATIVE)

52.1

55.4

ZONE 5

BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH

DESIGN LOADS - PSF EXPOSURE C - 140 MPH

ROOF ANGLE < 10°

Ω

NOTES: 1. EXPOSURE C, IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 10 SQ. FEET. 2. EXPOSURE C: MEANS, EXCEPT IN THE HIGH VELOCITY HURRICANE ZONE, Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type terrain that extends more than 600 feet (182.9 m) and width greater than 150 ft. in the upwind direction. Short-term (less than two year) changes in the pre-existing terrain exposure, for the purposes of development, shall not be considered open fields. Where development buildout will occur within three years and the resultant condition will meet the definition of Exposure B, Exposure B shall be regulating for the purpose of permitting. This category includes flat open country, grasslands and ocean or gulf shorelines and shall extend downwind for a distance of 1500 feet. For buildings located within a distance of 600 feet of inland bodies of water that present a fetch of 1 mile (1.61 km) or more roof sheathing uplift and roof-to-wall uplift loads shall be increased by 20

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> **50.4** 49.3 **48.1** 46.7 45.2 43.5 41.5 39.1

55.7

88 68.5 67.2

54.6

53.4 52.1 50.6

65.7 <u>\$4.1</u> 623 49.0 47.2 45.0 42.4

58.1

60.3

2. BLDGS. 60 FT HIGH OR LESS, \$=10% OF MINIMUM WIDTH OR AH, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4%
OF MINIMUM WIDTH OR 3 FT.
3. LOADS, POSITIVE AND MEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.
4. LOADS BETWEEN ELEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.
5. LOADS BETWEEN TABLES AT VARIOUS MPH CAN BE INTERPOLATED.
6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.
7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW OR ISP PERSONNEL PER SITE INSPECTION.
8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GC;1 OF +/- 0.18.
FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLED BY 1.18.
9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR
ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS
OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

DRAWN 3-13-02 APPROVED: DN *5-19-02* EST. AREA EST. WT: WT DRAWING NO REV: 3-01-021 B C FSCM NO SCALE: NTS SHEET 1 OF 2

TITLE

SHT @ 2002 VALCO ENTERPRI

MEAN ROOF BLEV FEET **BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH** ଞ S ૪ ኔ 8 ઝ ĸ 8 5 **DESIGN LOADS - PSF EXPOSURE B - 110 MPH** + (POSITIVE) ZONE 4 & 5 21.3 21.9 20.7 20.0 18.4 18.4 18.4 19.2 ROOF ANGLE > 10° - (NEGATIVE) **ZONE 4** 24.1 23.5 0,53 21.2 <u>2</u>2 20.3 20,3 22,8 - (NEGATIVE) ZONE 5 24.1 26<u>.4</u> 25.7 24.9 ಭ 22,2 22,2 23.2

истіпв	NGS EQUAL OR	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	FEET HIGH
	ROOF /	ROOF ANGLE > 10°	
ם	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	S ENOZ
THEN VELIE	+ (POSITIVE)	- (NEGATIVE)	(EVITAGEN) -
15	21.9	24.1	26.4
20	21.9	24.1	26.4
25	21.9	24.1	26.4
30	21.9	24.1	26.4
35	22.9	25.2	27.6
40	23.8	26.2	28.7
45	24.6	27.1	29.7
50	25.4	27.9	30.6
55	26.1	28.7	31.4
8	26.7	29,4	32.2

MBAN ROOF BLEV FIBET 15	ROOF / ROOF / ROOF / ROOF / ROOF / PS ZONE 4 & 5 + (POSITIVE) 25.7	ROOF ANGLE > 10°	MPH ZONE 5 - (NEGATIVE) 31.0
8 8	25.7	28.3	31.0
25	25.7	28.3	31.0
30	25.7	28.3	31.0
35	26.9	29.6	32.4
40	27.9	30.8	33.7
45	28.9	31.8	34.8
50	29.8	32.8	35.9
55	30.6	33.7	36.9
09	31.4	34.5	37.8

6	55	50	45	\$	ಜ	36	25	20	15	BLBV FBBT	MEAN ROOF	ם		BUILDI
36.4	35.5	34.5	33.5	32.4	31.2	29.8	29.8	29.8	29.8	+ (POSITIVE)	ZONE 4 & 5	ESIGN LOADS - PA	ROOF	NGS EQUAL OI
40.1	39.1	38.1	36.9	35.7	34.3	32.8	32.8	32.8	32.8	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 140 MPH	ROOF ANGLE > 10°	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH
43.9	42.8	41.6	40.4	39.0	37.6	36.0	36.0	36.0	36.0	- (NEGATIVE)	ZONE 5	0 MPH) FEET HIGH

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50 39.6 55 40.7		_	45 38.5	40 37.2	35 35.8	30 34.3	25 34.3	20 34.3	15 34.3	ELEV PEET + (POSITIVE)	MEAN ROOF ZONE 4 & 5	DESIGN LOADS -	ROO	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	
	44.9	43.7	42.4	41.0	39.4	37.7	37.7	37.7	37.7	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 150 MPH	ROOF ANGLE > 10°	OR LESS THAN 60	
	49.1	47.8	46.4	44.8	43.1	41.3	41.3	41.3	41.3	- (NEGATIVE)	ZONE 5) MPH		FEET HIGH	

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E005045	lorida	Profess	D.L. FOWIG
458	License	ssional I	WICI
	se No	ingin	

BUILDING HEIGHT 60' OR LESS, EXPOSURE B, ROOF ANGLE > 10° TRIBUTARY AREA = 100 SQ. FT.

NOTES:

1. EXPOSURE B, IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 100 SQ. FEET.

1. EXPOSURE B: Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with memorous closely spaced obstructions having the size of single-family dwellings or larger.

2. BLLOSS. 60 PT HIGH OR LESS, a = 10% OF MINIMUM WIDTH OR .4H, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4% OF MINIMUM WIDTH OR 3 PT.

3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.

4. LOADS BETWEEN THE EVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.

5. LOADS BETWEEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.

8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A KE OF 0.85 AND GCpi OF 4/- 0.18.

POR PRESSURES DO NOT INCLUDE INCERES ABOVE ARE BASED ON A KE OF 0.85 AND GCpi OF 4/- 0.18.

9. DESIGN PRESSURES DO NOT INCLUDE INCERES ARE FOR WIND SPEED-UP OVER HILLS, RUDGES, OR ESSCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS

8. CALCULATED SEPARATELY IF ALL THE CONDITIONS

DRAWN:	PHW		DATE	(D8-16	-05
APPROVE	* DF		DATE:		8-51-	<i>0</i> 5
est. Area	:	w	est. WT:			LBVT
SIZE	DRAWING NO:					REV:
В	30	-0 1	1-02	0		_
FSCM NO:		SCAI	æ		NTS	
		SHE	er :	2	OF	2

10601 OAK STREET N.E. ST. PETERSBURG, FL 33716

GHT © 2002 VALOO ENTERPRISES, LTD WINDLOAD TABLES FOR **COMPONENTS & CLADDING AS PER** FLORIDA BUILDING CODE & ASCE 7

THIRD ANGLE PROJECTION		REVISION
CUSTOMER ADDRESS:	REV	DESCRIPTION
	A	
	В	
	С	
	D	
	R	

9 MEAN ROOF BLEV FEET **BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH** ଞ S 8 ኔ 8 ઝ ĸ 8 5 **DESIGN LOADS - PSF EXPOSURE B - 110 MPH (4)** + (POSITIVE) ZONE 4 & 5 24.4 21.8 21.7 21.7 25.9 25.2 23.6 22,7 ROOF ANGLE > 10° - (NEGATIVE) **ZONE 4** 28.1 27.3 26.5 25.6 24.7 23.6 23.6 23.6 **(4**) - (NEGATIVE) ZONE 5 33.7 31.6 29.1 **29.1** 34.7 32.7 30,5 29.1 9

ПОТПОВ	NGS EQUAL OR	BUILDINGS EQUAL OK LESS THAN 80 FEET HIGH	KEET HIGH
۵	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	S ENOZ
BLEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	25.9	28.1	7.46
20	25.9	28.1	7.46
25	25.9	28.1	7.46
30	25.9	28.1	74.7
35	27.1	29.4	36.2
40	28.1	30.5	7.78
45	29.1	31.6	6.85
50	30.0	32.5	40.1
55	30.8	33.4	41.2
8	31.6	34.3	42.3

ICTIUE	NGS EQUAL OR	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	FEET HIGH
	ROOF.	ROOF ANGLE > 10°	
	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 130 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
HEAT VEIE	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	30.4	32.9	7.04
20	30.4	32.9	7.04
25	30.4	32.9	7.04
30	30.4	33.0	40.7
35	31.8	34.5	42.5
40	33.0	35.8	44.2
45	34.1	37.0	45.7
50	35.2	38.2	47.1
55	36.1	39.2	48.4
8	37.1	40.2	49.6

	ROOF	ROOF ANGLE > 10°	
u	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 140 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
TEEN VELE	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	35.2	38.2	47.2
25	35.2	38.2	47.2
25	35.2	38.2	47.2
30	35.3	38.2	47.2
35	36.8	40.0	49.3
40	38.3	41.5	51.3
45	39.6	42.9	53.0
50	40.8	44.3	54.6
55	41.9	45.5	56.1
86	43.0	466	57.5

8	ೱ	50	45	40	35	30	ಚ	20	15	HELEV PEET	MEAN ROOF	DI		BUILDIN
49.3	48.1	46.8	45.4	43.9	42.3	40.5	40,4	40,4	40,4	+ (POSITIVE)	ZONE 4 & 5	SIGN LOADS - PS	ROOF	IGS EQUAL OI
53.5	52.2	50.8	49.3	47.7	45.9	43.9	43.9	43.9	43.9	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 150 MPH	ROOF ANGLE > 10°	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH
66.1	64.4	62.7	60.9	58.8	56.6	54.2	54.1	54.1	54.1	- (NEGATIVE)	ZONE 5	MPH (FEET HIGH

Professional Engin Florida License No PE0050458

EXPOSURE B, ROOF ANGLE > 10° TRIBUTARY AREA = 10 SQ. FT. BUILDING HEIGHT 60' OR LESS,

NOTES:

1. EXPOSURE B, IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 10 SQ. FEET.

2. EXPOSURE B. Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a distance of at least 2,500 feet (792 m) or 20 times the beight of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with mannerous closedy spaced obstructions having the size of single-family dwellings or larger.

2. BLDGS, 60 FT HIGH OR LESS, a = 10% OF MINIMUM WIDTH OR. AH, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4% OF MINIMUM WIDTH OR 3 FT.

3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND AFFLY TO ALL FLOORS.

4. LOADS BETWEEN ELEVATIONS SCHOWN IN TABLE CAN BE INTERPOLATED.

5. LOADS BETWEEN TABLES AT VARIOUS MIPH MAY BE INTERPOLATED.

6. CURCLE IN RED FEN THE AFFROFRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDECATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.

8. CALCULATED MINIMUM DESIGN FRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF 4/-0.18.

FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.

9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS

8. CALCULATED MINIMUM DESIGN FRESSURES ABOVE AND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS

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DRAWN:	PHW		DATE		3-13-0)2
APPROVE	DN DN		DATE	1	<i>5-19-0</i>	72
EST. ARE	A:	w	EST. V	VT:		UNIT .
SIZE:	DRAWING NO:					REV:
В	3-	01	-02	20		C
FSCM NO.	•	SCA	LR		NTS	
		SHE	er	1	OF	2

10801 OAK STREET N.E. ST. PETERSBURG, FL 33716

THIRD ANGLE PROJECTION	$\bigoplus -\Box$		REVISION
CUSTOMER ADDRESS:		REV	DESCRIPTION
		A	4-21-02 ADD KD NOTE AND CLARITY
		В	8-16-05 ADDED SHEET 2, 100 SQ FT
		С	FBC 2007 UPDATE
		D	
		-	

MEAN ROOF BLEV FEET **BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH** ଞ S ૪ ኔ 8 ઝ ĸ 8 5

8	24.7	22.6	20.6
ઝ	24.1	22.1	20.1
ઝ	23.5	21.5	19.5
5	22.8	20.9	19.0
8	22.0	20.2	18.3
35	21.2	19.4	17.7
38	20.3	18.6	16.9
25	20.3	18.6	16.9
20	20.3	18.6	16.9
15	20.3	18.6	16.9
HEA VETE	- (NEGATIVE)	- (NEGATIVE)	· (POSITIVE)
MEAN ROO	ZONE 5	ZONE 4	ZONE 4 & 5
	MPH	GN LOADS - PSF EXPOSURE B - 110 MPH	GN LOADS - PSI
		ROOF ANGLE < 10°	ROOF A
			,

BUILDI	NGS EQUAL OF	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	FEET HIGH
	ROOF	ROOF ANGLE < 10°	
ם	esign loads - Ps	DESIGN LOADS - PSF EXPOSURE B - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
HEET VELET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	20.1	22.1	24.2
20	20.1	22.1	24.2
25	20.1	22.1	24.2
30	20.1	22.1	24.2
35	21.0	23.1	25.2
40	21.8	24.0	26.2
45	22.6	24.8	27.1
50	23.3	25.6	28.0
55	23.9	26.3	28.7
8	24.5	27.0	29.5

BUILDI	NGS EQUAL OF	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	FEET HIGH
	ROOF.	ROOF ANGLE < 10°	
8)ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 130 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
THE VETE	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	23.6	26.0	28.4
20	23.6	26.0	28.4
25	23.6	26.0	28.4
30	23.6	26.0	28.4
35	24.7	27.1	29.6
40	25.6	28.2	30.8
45	26.5	29.1	31.8
50	27.3	30.0	32.8
55	28.1	30.9	33.7
60	28.8	31.6	34.6

23.9	23.3	22.6	40 21.8	35 21.0	30 20.1	20.1	20.1	20.1
26.3 28.7	25.6 28.0	24.8 27.1	24.0 26.2	23.1 25.2	22.1 24.2	22.1 24.2	22.1 24.2	22.1 24.2

	ROOF	ROOF ANGLE < 10°	
	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 140 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
TEEN VELE	+ (POSITIVE)	- (NEGATIVE)	(BALLYDEN) -
15	27.4	30.1	32.9
20	27.4	30.1	32.9
25	27.4	30.1	32.9
30	27.4	30.1	32.9
35	28.6	31.5	34.4
40	29.7	32.7	35.7
45	30.8	33.8	36.9
50	31.7	34.8	38.1
55	32.6	35.8	39.1

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80	55	50	45	40	35	30	25	20	15	HILEV PERT	MEAN ROOF	ם		UCTINE
38.3	37.4	36.4	35.3	34.1	32.9	31.4	31.4	31.4	31.4	+ (POSITIVE)	ZONE 4 & 5	ESIGN LOADS - P	ROOF	NGS EQUAL OI
42.1	41.1	40.0	38.8	37.5	36.1	34.6	34.6	34.6	34.6	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 150 MPH	ROOF ANGLE < 10°	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH
46.1	44.9	43.7	42.4	41.0	39.5	37.8	37.8	37.8	37.8	- (NEGATIVE)	ZONE 5	MPH		FEET HIGH

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Professional Engineer Florida License No. D.L. Fowler

NOTES:

1. EXPOSURE B, IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 100 SQ. FEET.

1. EXPOSURE B. Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, prevails in the upwind direction for a distance of at least 2,500 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

2. BLDGS, 60 FT HIGH OR LESS, a=10% OF MINIMUM WIDTH OR AH, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4% OF MINIMUM WIDTH OR 3 FT.

3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND AFFLY TO ALL FLOORS.

4. LOADS BETWEEN LEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.

5. LOADS BETWEEN TABLES AT VARIOUS MIPH CAN BE INTERPOLATED.

6. CIRCLE IN RED PEN THE AFPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.

8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF 4/- 0.18.
FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.

9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS

9. DESIGN PRESSURES DO NOT ENCLUDE A EACH CULATED SEPARATELY IF ALL THE CONDITIONS

1. THE MEAN FOR THE CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS

DRAWN:	PHW		DATE	08-16-0	95
APPROVE	* DF		DATE:	8-31-0	ø
EST. AREA	:	w	EST. WT:		LEVET
SIZE	DRAWING NO:				REV:
B		01	-019		REV:
		01 scal		NTS	REV:

TITLE

10601 OAK STREET N.E. ST. PETERSBURG, FL 33716 IGHT © 2002 VALOO ENTERPRISES, LTD

THIRD ANGLE PROJECTION	\bigoplus		REVISION
CUSTOMER ADDRESS:		REV	DESCRIPTION
		A	
		В	
		C	
		D	
		_	

MEAN ROOF BLEV FEET **BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH** ષ્ઠ S ૪ ኔ 8 ઝ ĸ 8 5 DESIGN LOADS - PSF EXPOSURE B - 110 MPH + (POSITIVE) ZONE 4 & 5 23.7 23.1 22,4 21.6 20.8 19.9 19.9 19.9 ROOF ANGLE < 10° - (NEGATIVE) **ZONE 4** 25.7 25.0 24.2 23.4 21.6 21.6 21.6 22,6 - (NEGATIVE) ZONE 5 31.6 30.7 28.8 27.8 26.6 265 29.8 26.5

חקייים	NO TROUBE CON	BULLUINOS EQUAL OR LESS ITIAN SO FEEI TIOTI	מטות ופפי
	ROOF	ROOF ANGLE < 10°	
ם	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
15	23.7	25.7	31.6
20	23.7	25.7	31.6
25	23.7	25.7	31.6
30	23.7	25.7	31.6
35	24.8	26.8	33.0
40	25.7	27.9	34.3
45	26.6	28.8	35.5
50	27.4	29.7	36.6
55	28.2	30.5	37.6
8	28.9	31.3	38.5

45.2	36.7	33.9	60
44.1	35.8	33.1	55
42.9	34.9	32.2	50
41.7	33.8	31.2	45
40.3	32.7	30.2	8
38.8	31.5	29.1	35
37.1	30.1	27.8	30
37.1	30.1	27.8	25
37.1	30.1	27.8	28
37.1	30.1	27.8	15
- (NEGATIVE)	- (NEGATIVE)	+ (POSITIVE)	THEN VELE
ZONE 5	ZONE 4	ZONE 4 & 5	MEAN ROOF
MPH	DESIGN LOADS - PSF EXPOSURE B - 130 MPH	ESION LOADS - PSI	ם
	ROOF ANGLE < 10°	ROOF A	
FEET HIGH	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH	NGS EQUAL OR	BUILDI

86	55	50	45	40	35	30	25	20	15	HELEV PRET	MEAN ROOF	ם		BUILDI
45.2	44.0	42.9	41.6	40.2	38.7	37.0	37.0	37.0	37.0	+ (POSITIVE)	ZONE 4 & 5	ESIGN LOADS - P	ROOF	NGS EQUAL O
48.9	47.7	46.4	45.1	43.6	41.9	40.1	40.1	40.1	40,1	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 150 MPH	ROOF ANGLE < 10°	BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH
60.2	58.7	57.2	55.5	53.6	51.6	49,4	49,4	49,4	49,4	- (NEGATIVE)	ZONE 5	DMPH		FEET HIGH

45.2		
	8	
44,0	55	
42.9	50	
41.6	45	
40.2	40	
38.7	35	
37.0	30	
37.0	25	
37.0	20	
37.0	15	
+ (POSITIVE)	HLEV FEET	
ZONE 4 & 5	MEAN ROOF	
DESIGN LOADS - PSF EXPOSURE B - 150 MPH	ש	
ROOF ANGLE < 10°		
NGS EQUAL OR	BUILDIN	
	ROCE ESIGN LOADS -	

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MEAN ROOF BLEV FEET

+ (POSITIVE) ZONE 4 & 5

- (NEGATIVE) ZONE 4

- (NEGATIVE)

43.0

43.0

ZONE 5

<u>34,9</u>

34.9

34.9

35.0

5

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BUILDINGS EQUAL OR LESS THAN 60 FEET HIGH

DESIGN LOADS - PSF EXPOSURE B - 140 MPH

ROOF ANGLE < 10°

Professional Engineer Florida License No. D.L. Fowler

BUILDING HEIGHT 60' OR LESS, EXPOSURE B, ROOF ANGLE < 10°

TRIBUTARY AREA = 10 SQ. FT.

EXPOSURE B: Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, provails in the upwind direction for a distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B: Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

2. BLDGS. 60 FT HIGH OR LESS, a=10% OF MINIMUM WIDTH OR AH, WHICHEVER IS SMALLER BUT NOT LESS THAN EITHER 4% OF MINIMUM WIDTH OR 3 FT.

3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.

4. LOADS BETWEEN HLEVATIONS SHOWN IN TABLE CAN BE INTERPOLATED.

5. LOADS BETWEEN TABLES AT VARIOUS MPH MAY BE INTERPOLATED.

6. CIRCLE IN REID PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY SEG, CPL, RAW OR VALCO PERSONNEL PER SITE INSPECTION.

8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GCpi OF +/- 0.18.

FOR PRESSURE CALCULATIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.

9. DESIGN PERSSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCULATED SEPARATELY IF ALL THE CONDITIONS

NOTES: 1. EXPOSURE B, IMPORTANCE FACTOR 1.0, TRIBUTARY AREA USED 10 SQ. FEET.

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39.3 38.0 365

48.3 46.7 45.0 43.0 43.0

49.8

55

38.4 37.3 36.2 35.0 33.7 32,3 32.2 32.2 32,2

41.6 **40**5

52.5 51.2 8 33 용 ĸ

DRAWN:	PHW		DATE	3-13-C)2
APPROVE	* DN		DATE:	<i>3-19-0</i>)2
est. Area	:	W	est. WT:		LEVET
SIZE	DRAWING NO:				REV:
В	3-	01	-019		C
			<u> </u>		
PSCM NO:		SCA		NTS	

2002 VALCO ENTER

10801 OAK STREET N.E. ST. PETERSBURG, FL 33716

THIRD ANGLE PROJECTION		REVISION
CUSTOMER ADDRESS:	REV	DESCRIPTION
	A	4-21-04 ADD KD NOTE AND CLARITY
	В	8-16-05 ADDED SHEET 2, 100 SQ FT
	С	FBC 2007 UPDATE
	D	
	В	

BUILDING HRIGHT 246 280 26 180 220 8 146 160 120 8 8 2 8 8 **(** 38.5 37.9 37.2 36.5 35.7 34.8 33.8 8 32.7 31.5 **30.8** <u>30.1</u> 29.7 28.4 \odot 33.9 31.9 38.5 37.7 36.9 35.0 32,6 31.1 30,2 39.2 36.0 29.4 ZONE 4 54.7 සු 94.3 63.3 909 59.5 58.1 56.5 52.6 51.5 50,2 48.8

ם	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 120 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
THE VETE	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	33.8	35.0	56.4
70	34.8	36.0	58.1
8	35.8	37.0	59.7
8	36.7	38.0	61.2
100	37.5	8.86	62.6
120	39.0	40.3	65.1
140	40.3	41.7	67.2
160	41.4	42.9	69.1
180	42.4	43.9	70.9
200	43.4	44.9	72.5
220	44.3	45.8	73.9
240	45.1	46.7	75.3
260	45.9	47.5	76.6
	46.6	48.2	77.8
280			70.0

MEAN ROOF BLEV FEET

+ (POSITIVE) **ZONE 4 & 5**

- (NEGATIVE)

- (NEGATIVE) ZONE 5

ZONE 4

BUILDINGS GREATER THAN 60 FEET HIGH DESIGN LOADS - PSF EXPOSURE C - 110 MPH

BUILDINGS GREATER THAN 60 FEET HIGH

	MBAN ROOF BLEV FEET 70 90 100 120 140 180 200 280 300		, }	X	*	×	· /	<u>/</u>	<u>/-</u> -			• •		JILD				<u></u>	<u>_</u>
		Addition of	ZONE 5	ZONE	ZOATS +		\ \ \					(<u> </u>				_	_	_
ZONE 4 & 5 + (POSITIVE) 46.0 47.4 49.9 51.1 53.1 54.8 56.4 57.8 60.3 61.4 60.4	MILLIANDS - PSF BA ZONE 4 & 5 (POSITIVE) - 46.0 - 47.4 - 49.9 - 51.1 - 53.1 - 54.8 - 57.8 - 59.1 - 60.3 - 61.4 - 63.4 -																		
	ZONE 4 - (NEGATIVE) 47.6 49.0 50.4 51.7 52.9 54.9 56.7 58.4 59.8 61.2 62.4 63.6 64.6 65.7	300	280	280	260	240	220	200	180	160	140	120	100	98	80	70	61	TEBR VETE	MEAN ROOF

300	280	260	240	220	200	180	160	140	120	100	90	80	70	61	BLEV FEET	MEAN ROOF	ם	пля
55.5	54.7	53.8	52.9	52.0	50.9	49.8	48.6	47.3	45.7	44.0	43.1	42.0	40.8	39.7	+ (POSITIVE)	ZONE 4 & 5	ESIGN LOADS - PS	DINGS GREAT
57.4	56.6	55.7	54.8	53.8	52.7	51.6	50.3	48.9	47.4	45.6	44.6	43.5	42.3	41.1	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE C - 130 MPH	BUILDINGS GREATER THAN 60 FEET HIGH
92.6	91.3	89.9	88.4	86.8	85.0	83.2	81.1	78.9	76.4	73.5	71.9	70.1	68.2	66.2	- (NEGATIVE)	ZONE 5)MPH	ST HIGH

BUII	LDINGS GREAT	BUILDINGS GREATER THAN 60 FEET HIGH	ST HIGH
ם	DESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 150 MPH	MPH
HOOR NAEM	ZONE 4 & 5	ZONE 4	ZONB 5
ELEV FEET	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE
19	52.8	54.7	88.2
70	54.4	56.3	8.06
08	55.9	57.9	93.4
06	57.3	59.3	95.7
100	58.6	60.7	97.9
120	60.9	63.1	101.7
140	62.9	65.1	105.0
160	64.7	67.0	108.0
180	66.3	68.7	110.8
200	67.8	70.2	113.2
220	69.2	71.6	115.5
240	70.5	73.0	117.7
260	71.7	74.2	119.7
280	72.8	75.4	121.6
300	73.9	76.5	123.3

TRIBUTARY AREA = 100 SQ. FT.BUILDING HEIGHT > 60', **EXPOSURE C**

2. BUILDINGS GREATER THAN 60 FT HIGH, a=10% OF MINDAUM WIDTH BUT NOT LESS THAN 3 FT.

3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.

4. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS.

4. LOADS BETWEEN TABLES AND NEGATIVE, CAN BE INTERPOLATED.

5. LOADS BETWEEN TABLES AT VARIOUS MPH, CAN BE INTERPOLATED.

6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED.

7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION.

8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A KE OF 0.85 AND GCpi OF 4/- 0.18.

9. DESIGN PRESSURE CALCUALTIONS WHICH REQUIRE A KE OF 1.0, ALL PRESSURES ABOVE MUST BE MULTIPIED BY 1.18.

9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCUALTED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7, TOPOGRAPHIC EFFECTS, ARE MET.

Professional Engineer Florida License No. D.L. Fowler

DRAWN:	PHW		DATE		08-23	05
APPROVE	* DF		DATE:		8-51-0	か
EST. AREA	:	w	EST. W	T:		LIVET
SIZE	DRAWING NO:					REV:
В	3-	01	-01	8		-
F9CM NO:		SCAI	æ		NTS	

10801 ÖAK STREET N.E. ST. PETERSBURG, FL 33716

8 VALCO ENTERPRISES, LTC

TITLE WINDLOAD TABLES FOR **COMPONENTS & CLADDING AS PER** FLORIDA BUILDING CODE & ASCE 7

THIRD ANGLE PROJECTION	\bigoplus $-\Box$		REVISION
CUSTOMER ADDRESS:		REV	DESCRIPTION
		A	
		В	
		С	
		D	

E

NOTES:
1. EXPOSURE "C", DAPORTANCE PACTOR 1.0, TRIBUTARY AREA USED 100 9Q, PEST.
1. EXPOSURE "C", OUTSIDE THE HYEZ MEANS, Open termin with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet 91.44 mm) extending more than 1.500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type termin where the building is within 100 feet for the propose of Exposure C-type termin that curbands more than 600 feet (182.2 m) and within greater than 1.50 ft. in the upwind direction. Short-term (sets than 100 feet horizontally in any direction of open areas of Exposure, shall not be considered open fields. Where development building will occur within three years and the resultants condition will more the building is within 100 feet to criminate of 600 feet of inland hodies of water that present a feeth of 1 mile (1.61 km) or more or inland waterways or rivers with a viden for 1 mile (1.61 km) or more or fined waterways or rivers with a viden of 1 mile (1.61 km) or more or fined within a distance of 9.0 percent.

2. BUILDINGS GREATITE THAN 60 FT HIGH, =-10% OF MINMATIM WIDTH BUT NOT LESS THAN 3 FT.

3. LOADS, PERTUTY AND BREATITE DESIGNATED DESIGNATION WIDTH BUT NOT LESS THAN 3 FT.

3. LOADS, PERTUTY AND BREATITE DESIGNATION SHOWN IN TABLE CAN BE INTERPOLATED.

4. LOADS BETYPESON TABLES AT VARIOUS MPH, CAN BE INTERPOLATED.

5. CARCILLIUM RED PREVITE HAPPROPERATION DESIGNATED HEIGHT VIDEN PRESSURES ABOVE ARE BASED ON A KG OF AND APPLY TO ALL PRESSURES INDECATED.

7. THE BUENCH PROJUME A FOR THE AREA OF THE QUSTOMERS AND GRAD FOR A FT DESIGNATION SHOULD HEAD APPLY BUT AND APPLY TO ALL PRESSURES INDECATED.

8. CALCULATIONS WITCH REQUIRED A EACH OF 10, ALL PRESSURES ABOVE MUST BE MULTIPLIED BY 1.18.

BUILDING

BU BUILDING HEIGHT \odot **ZONE 5** \odot ZONB4

246

70.1

70.1

128.5 130.7

126.2

71.3

68.8

71.3

g

88

300 260

72.4

72.4

73.5

134.7 132.7

73.5

300	280	260	240	220	200	180	160	140	120	100	8	8	70	61	BLBV FBBT	MEAN ROOF		BUI
45.4	44.7	44.0	43.3	42.5	41.6	40.7	39.7	38.6	37.4	36.0	35.2	34.3	33.4	32.4	+ (POSITIVE)	ZONE 4 & 5	DESIGN LOADS - P	LDINGS GREAT
45.4	44.7	44.0	43.3	42.5	41.6	40.7	39.7	38.6	37.4	36.0	35.2	34.3	33.4	32.4	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE C - 110 MPH	BUILDINGS GREATER THAN 60 FEET HIGH
83.1	82.0	80.7	79.3	77.9	76.3	74.7	72.8	70.8	68.6	66.0	64.5	63.0	61.2	59.5	- (NEGATIVE)	ZONE 5	HAWO	ET HIGH

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8 8 **168** 4 120 100 8 8

> 45 42.8 41.9 40,9 39.7

> 45 42.8 41.9 40,9 39.7

> > 78.5

76.8 74.9 72.8 70.8

81.6

47.3

47.3

46.0

84.3

48.5

46.0

48.5

g

8

52.4 51.5 50.6 49.6

52.4 51.5 50.6 49.6

97.5

8 2.4 92.7 90,9 88.9 86.7

280

MEAN ROOF ELEV FEET

+ (POSITIVE) **ZONE 4 & 5**

- (NEGATIVE) ZONE 4

- (NEGATIVE) ZONE 5

BUILDINGS GREATER THAN 60 FEET HIGH DESIGN LOADS - PSF EXPOSURE C - 120 MPH

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ט	ESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 140 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
HLEV FEET	+ (POSITIVE)	- (NEGATIVE)	(BVITAGEN) -
61	52.5	52.5	6.36
70	54.1	54.1	99.1
80	55.6	55.6	102.0
90	57.0	57.0	104.5
100	58.3	58.3	106.9
120	60.6	60.6	111.1
140	62.6	62.6	114.7
160	64.4	64.4	118.0
180	66.0	66.0	121.0
200	67.5	67.5	123.7

BUILDINGS GREATER DESIGN LOADS - PSF E COOF ZONE 4 & 5 THE + (POSITIVE) 45.3	46.6	80 48.0 48.0	264 764 06	£0.5 £0.5 £0.5 £0.5	120 52.2 52.2	140 54.0 54.0	55.5	180 56.9 56.9		200 58.2 58.2	58.2 59.3	59.3 60.4	58.2 59.3 60.4 61.5	58.2 59.3 60.4 61.5
ATER THAN 60 FEI PSF EXPOSURE C - 130 ZONE 4 - (NEGATIVE) 45.3	46.6	48.0	49.2	50.3	52.2	54.0	55.5		56.9	56.9	56.9 58.2 59.3	56.9 58.2 59.3 60.4	56.9 58.2 59.3 60.4	56.9 58.2 59.3 60.4 61.5
ET HIGH ZONB 5 - (NBGATIVB) 83.0	85.5	87.9	90.1		92.2	92.2 95.8	92.2 95.8 98.9	92.2 95.8 98.9 101.7	92.2 95.8 98.9 101.7 104.3	92.2 95.8 98.9 101.7 104.3	92.2 95.8 98.9 101.7 104.3 106.6	92.2 95.8 98.9 101.7 104.3 106.6 110.8	92.2 95.8 98.9 101.7 104.3 106.6 108.8 110.8	92.2 95.8 98.9 101.7 104.3 106.6 1108.8 110.8

BUI	LDINGS GREAT	BUILDINGS GREATER THAN 60 FEET HIGH	IT HIGH
1	DESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE C - 150 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
TEEN VELE	+ (POSITIVE)	- (NEGATIVE)	EVITADEN) -
61	60.3	60.3	110.6
70	62.1	62.1	8.511
80	63.9	6.69	1.711
90	65.5	65.5	0.021
100	6.33	6.69	1.22.1
120	69.5	69.5	127.5
140	71.8	71.8	7.151
160	73.9	73.9	135.5
180	75.7	75.7	138.9
200	77.4	77.4	142.0
220	79.0	79.0	144.8
240	80.5	80.5	147.5
260	81.8	81.8	150.0
280	83.1	83.1	152.4
	94.3	£ 78	9751

TRIBUTARY AREA = 20 SQ. FT.BUILDING HEIGHT > 60', **EXPOSURE C**

> Professional Engineer Florida License No. D.L. Fowler

DRAWN:	PHW		DATE		2-11-0	2
APPROVE	* DF		DATE	1	2-14-0)2
eşt. Area	:	*	EST. V	VT:		шт
SIZE:	DRAWING NO:					REV:
В	3-	01	-0 1	18		C
FSCM NO:		SCAI	æ		NTS	

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WINDLOAD TABLES FOR **COMPONENTS & CLADDING AS PER**

FLORIDA BUILDING CODE & ASCE 7

THIRD ANGLE PROJECTION		REVISION
CUSTOMER ADDRESS:	REV	DESCRIPTION
	A	4-21-04 ADD KD NOTE AND CLARITY
	В	8-23-04 ADDED SHEET 2, 100 SQ. FT.
	С	FBC 2007 UPDATE
	D	
	-	

280 246 5 8 20 **1**8 45 120 g 188 8 8 8 BUILDING HEIGHT **① ZONB** 5 **(2018**4

300	280	260	240	220	200	180	160	140	120	100	8	80	70	61	HELEV PERET	MEAN ROOF	DE
33.7	33.0	32.3	31.6	30.8	30.0	29.1	28.7	27.1	25.9	24.6	23.9	23.1	22.2	21.3	+ (POSITIVE)	ZONE 4 & 5	ISIGN LOADS - PS
34.9	34.2	33.5	32.7	31.9	31.0	30.1	29.1	28.0	26.8	25.5	24.7	23.9	23.0	22.1	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 110 MPH
56.2	55.1	54.0	52.7	51.5	50.1	48.6	47.0	45.2	43.3	41.1	39.8	38.5	37.1	35.7	- (NEGATIVE)	ZONE 5	MPH
															BLEV FEET	MEAN ROOF	
	33.7 34.9	33.0 34.2 33.7 34.9	32.3 33.5 33.0 34.2 33.7 34.9	31.6 32.7 32.3 33.5 33.0 34.2 33.7 34.9	30.8 31.9 31.6 32.7 32.3 33.5 33.0 34.2 33.7 34.9	30.0 31.0 30.8 31.9 31.6 32.7 32.3 33.5 33.0 34.2 33.7 34.9	29.1 30.1 30.0 31.0 30.8 31.9 31.6 32.7 32.3 33.5 33.0 34.2 33.7 34.9	28.7 29.1 29.1 30.1 30.0 31.0 30.8 31.9 31.6 32.7 32.3 33.5 33.0 34.2 33.7 34.9	27.1 28.0 28.7 29.1 29.1 30.1 30.0 31.0 30.8 31.9 31.6 32.7 32.3 33.5 33.0 34.2 33.7 34.9	25.9 26.8 27.1 28.0 28.7 29.1 30.0 31.0 30.8 31.9 31.6 32.7 33.0 34.2 33.7 34.9	24.6 25.5 25.9 26.8 27.1 28.0 28.7 29.1 29.1 30.1 30.0 31.0 30.8 31.9 31.6 32.7 33.0 34.2 33.7 34.9	23.9 24.7 24.6 25.5 25.9 26.8 27.1 28.0 28.7 29.1 29.1 30.1 30.0 31.0 31.6 32.7 33.0 34.2 33.7 34.9	23.1 23.9 23.9 24.7 24.6 25.5 25.9 26.8 27.1 28.0 28.7 29.1 30.0 31.0 30.8 31.9 31.6 32.7 33.0 34.2 33.7 34.9	22.2 23.0 23.1 23.9 23.9 24.7 24.6 25.5 25.9 26.8 27.1 28.0 28.7 29.1 30.0 31.0 30.8 31.9 31.6 32.7 33.0 34.2 33.7 34.9	21.3 22.1 22.2 23.0 23.1 23.9 24.6 25.5 25.9 26.8 27.1 28.0 28.7 29.1 30.0 31.0 31.6 32.7 33.0 34.2 33.7 34.9	+ (POSITIVB) - (NISGATIVB) 21.3 22.1 22.2 23.0 23.1 23.9 24.6 25.5 25.9 26.8 27.1 28.0 28.7 29.1 30.1 30.1 30.8 31.9 31.6 32.7 33.0 34.2 34.9	ZONB 4 & 5 ZONB 4 + (POSITIVB) - (NBGATIVB) 21.3 22.1 22.2 23.0 23.1 23.9 23.1 23.9 24.7 24.6 25.5 25.9 26.8 27.1 28.0 27.1 28.0 28.7 29.1 30.0 31.0 30.8 31.9 31.6 32.7 33.0 34.2 33.7 34.9

BUILDINGS GREATER THAN 60 FEET HIGH

BUILDINGS GREATER THAN 60 FEET HIGH DESIGN LOADS - PSF EXPOSURE B - 120 MPH

ZONE 4 & 5

ZONE 5

THE VELE	+ (BOSTTVE)		
5 2	25.4	26.3	42.4
70	26.4	27.4	1.4
80	27.5	28.4	45.9
90	28.4	29.4	47.4
100	29.3	30.3	48.9
120	30.8	31.9	51.5
140	32.2	33.4	53.8
160	33.5	34.7	55.9
180	34.6	35.9	57.8
200	35.7	36.9	59.6
220	36.7	38.0	61.2
240	37.6	38.9	62.8
260	38.5	39.8	64.2
280	39.3	40.7	65.6
300	40,1	41.5	6,39

EXPOSURE "B", Exposure B shall apply where the ground surface roughness condition, as defined by Surface Roughness B, provails distance of at least 2,600 feet (792 m) or 20 times the height of the building, whichever is greater. Surface Roughness B; Urban and sul other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. 2. BUIL DINGS GREATIER THAN 60 FT HIGH, a=10% OF MINIMUM WIDTH BUT NOT LESS THAN 3 FT. 3. LOADS, POSITIVE AND NEGATIVE, ARE TAKEN AT MEAN ROOF HEIGHT AND APPLY TO ALL FLOORS. 4. LOADS BETWEEN TABLES AT VARIOUS MPH, MAY BE INTERPOLATED. 5. LOADS BETWEEN TABLES AT VARIOUS MPH, MAY BE INTERPOLATED. 6. CIRCLE IN RED PEN THE APPROPRIATE DESIGN LOAD FOR THE CUSTOMER ADDRESS INDICATED. 7. THE MEAN ROOF HEIGHT WAS PROVIDED BY QMI, RAW, OR ISP PERSONNEL PER SITE INSPECTION. 8. CALCULATED MINIMUM DESIGN PRESSURES ABOVE ARE BASED ON A Kd OF 0.85 AND GC; OF 4/- 0.18. FOR PRESSURE CALCUALTIONS WHICH REQUIRE A Kd OF 1.0, ALL PRESSURES ABOVE MULTIPIED BY 1.18 9. DESIGN PRESSURES DO NOT INCLUDE INCREASE FOR WIND SPEED-UP OVER HILLS, RIDGES, OR ESCARPMENTS. SUCH CONDITIONS WILL BE CALCUALTED SEPARATELY IF ALL THE CONDITIONS OF SECTION 6.5.7. TOPOGRAPHIC EPFECTS. ARE MET.	NOTES:		20085		ZZONEL4			<i>/</i>	· ·		●●	-	ILDIN BIGHT		_		_ _ _	<u> </u>	
Roughness B, pro giness B: Urban ar DORS. DON, ON, 14-0.18. 18-0.18.	300	280	260	240	220	200	180	160	140	120	100	8	8	70	61	BLEV FEET	MEAN ROOF		BUILDI
valls in the upwind direction for a rd suburban areas, wooded areas or 1.18.	34.0	53.5	52.4	51.2	49.9	48.6	47.2	45.6	43.9	42.0	39.9	38.7	37.4	36.0	34.6	+ (POSITIVE)	ZONE 4 & 5	DESIGN LOADS - PS	LDINGS GREAT
bd aces or	38.3	55.4	54.2	53.0	51.7	50.3	48.8	47.2	45.4	43.5	41.3	40.0	38.7	37.3	35.8	- (NEGATIVE)	ZONE 4	DESIGN LOADS - PSF EXPOSURE B - 140 MPH	INGS GREATER THAN 60 FEET HIGH
BUILDIN	91.1	89.3	87.5	85.5	83.4	81.1	78.7	76.1	73.3	70.1	66.5	64.6	62.4	60.1	57.8	- (NEGATIVE)	ZONE 5	MPH	IT HIGH

	DESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 130 MPH	MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4	ZONE 5
TERN VETE	+ (POSITIVE)	- (NEGATIVE)	- (NEGATIVE)
61	29.8	30.9	49.8
70	0.16	32.1	51.8
80	32.2	33.4	53.8
90	23.3	34.5	55.7
100	34.4	35.6	57.4
120	36.2	37.5	60.4
140	37.8	39.2	63.2
160	39.3	40.7	65.6
180	40.7	42.1	67.9
200	41.9	43.4	70.0
220	43.1	44.6	71.9
240	44.1	45.7	73.7
260	45.2	46.7	75.4
280	46.1	47.8	77.0
300	47.0	48.7	78.5

	DESIGN LOADS - PS	DESIGN LOADS - PSF EXPOSURE B - 150 MPH
MEAN ROOF	ZONE 4 & 5	ZONE 4
HERY VELE	+ (POSITIVE)	- (NEGATIVE)
61	7.66	41.1
70	41.3	42.8
8	42.9	44.4
90	44.4	46.0
100	45.8	47.4
120	48.2	49.9
140	50.4	52.2
160	52.3	54.2
180	54.1	56.0
200	55.8	57.8
220	57.3	59.4
240	58.8	60.8
260	60.1	62.3
280	61.4	63.6

IRIBUTARY AREA = 100 SQ. FT.BUILDING HEIGHT > 60', **EXPOSURE B**

> Professional Engineer Florida License No. D.L. Fowler

DRAWN:	PHW		DATE:		8-18-0	カ
APPROVE	* DF		DATE		8-51-0	Ø
est. Area	•	*	EST. W	C:		LBV°T
SIZE:	DRAWING NO:					REV:
B		01	-01	7		REV:
		01		7	NTS	REV:

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THIRD ANGLE PROJECTION		REVISION
USTOMER ADDRESS:	REV	DESCRIPTION
	A	
	В	
	С	
	D	
	B	