





Slope Factor By Tilt							
Tilt	Cs						
15°	1.00						
20°	0.91						
25°	0.82						
30°	0.73						
35°	0.64						

						ASCE 7-05						
T11 T	MAX	GROUND	ROOF	MAX	FR	ONT CONNECTION	NC	R	EAR CONNECTION	NC	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	14.00 FT	1.36 KIP	3.37 KIP	0.00 KIP	4.86 KIP	3.51 KIP	1.78 KIP	27 IN	(2) #5
		10 PSF	7.56 PSF	14.00 FT	1.36 KIP	3.82 KIP	0.01 KIP	4.86 KIP	3.97 KIP	1.78 KIP	27 IN	(2) #5
		20 PSF	15.12 PSF	12.00 FT	1.16 KIP	4.13 KIP	0.01 KIP	4.15 KIP	4.29 KIP	1.52 KIP	23 IN	(1) #5
	85 MPH	30 PSF	22.68 PSF	10.50 FT	1.01 KIP	4.68 KIP	0.01 KIP	3.62 KIP	4.86 KIP	1.33 KIP	21 IN	(1) #5
			30.24 PSF	9.50 FT	0.91 KIP	5.19 KIP		3.27 KIP	5.38 KIP	1.20 KIP	19 IN	(1) #5
			37.80 PSF	8.00 FT	0.76 KIP	5.17 KIP		2.73 KIP	5.34 KIP	1.00 KIP	16 IN	(1) #5
			45.36 PSF	7.25 FT	0.68 KIP	5.40 KIP	 	2.46 KIP	5.56 KIP	0.91 KIP	14 IN	(1) #5
		0 PSF			1.44 KIP	3.45 KIP	+	5.08 KIP	3.59 KIP	1.85 KIP	29 IN	(2) #5
		10 PSF				3.86 KIP		5.08 KIP	4.02 KIP	1.85 KIP	29 IN	(2) #5
		20 PSF				4.19 KIP		4.58 KIP	4.35 KIP	1.67 KIP	26 IN	(2) #5
	90 MPH		22.68 PSF		1.13 KIP	4.69 KIP	+	3.98 KIP	4.87 KIP	1.45 KIP	23 IN	(1) #5
			30.24 PSF	9.25 FT	1.01 KIP	5.17 KIP		3.58 KIP	5.35 KIP	1.31 KIP	20 IN	(1) #5
			37.80 PSF	8.00 FT	0.87 KIP	5.26 KIP		3.08 KIP	5.44 KIP	1.12 KIP	18 IN	(1) #5
			45.36 PSF	7.00 FT	0.75 KIP	5.29 KIP		2.67 KIP	5.45 KIP	0.97 KIP	15 IN	(1) #5
		0 PSF		11.75 FT		3.74 KIP		5.71 KIP	3.88 KIP	2.07 KIP	32 IN	(2) #5
		10 PSF			1.66 KIP	4.11 KIP		5.71 KIP	4.27 KIP	2.07 KIP	32 IN	(2) #5
		20 PSF	15.12 PSF		-	4.40 KIP	 	5.59 KIP	4.57 KIP	2.02 KIP	31 IN	(2) #5
			22.68 PSF			4.84 KIP		4.84 KIP	5.02 KIP	1.75 KIP	27 IN	(2) #5
			30.24 PSF		1.22 KIP	5.11 KIP		4.22 KIP	5.29 KIP	1.53 KIP	24 IN	(2) #5
			37.80 PSF	7.75 FT	1.07 KIP	5.30 KIP		3.71 KIP	5.47 KIP	1.34 KIP	21 IN	(1) #5
15°	°		45.36 PSF	7.00 FT	0.96 KIP	5.47 KIP		3.33 KIP	5.63 KIP	1.21 KIP	19 IN	(1) #5
		0 PSF	0.00 PSF		1.87 KIP	4.05 KIP		6.35 KIP	4.20 KIP	2.29 KIP	36 IN	(3) #5
		10 PSF				4.39 KIP	1	6.35 KIP	4.56 KIP	2.29 KIP	36 IN	(3) #5
	110 MPH	20 PSF			-	4.73 KIP	+	6.35 KIP	4.91 KIP	2.29 KIP	36 IN	(3) #5
	ווי אור טור		22.68 PSF 30.24 PSF	9.75 FT	1.69 KIP 1.46 KIP	5.00 KIP	1	5.75 KIP	5.19 KIP	2.07 KIP	32 IN	(2) #5
			37.80 PSF	8.50 FT 7.50 FT	1.46 KIP	5.21 KIP 5.34 KIP		4.99 KIP 4.37 KIP	5.39 KIP 5.51 KIP	1.79 KIP 1.57 KIP	28 IN 25 IN	(2) #5
			45.36 PSF			5.46 KIP		3.91 KIP	5.62 KIP	1.40 KIP		(2) #5 (1) #5
		0 PSF	0.00 PSF		2.05 KIP	4.29 KIP		6.87 KIP	4.45 KIP	2.47 KIP	39 IN	(3) #5
		10 PSF			2.05 KIP	4.60 KIP		6.87 KIP	4.77 KIP	2.47 KIP	39 IN	(3) #5
			15.12 PSF		2.05 KIP	4.91 KIP	1	6.87 KIP	5.09 KIP	2.47 KIP	39 IN	(3) #5
	120 MPH		22.68 PSF		1.94 KIP	5.04 KIP		6.51 KIP	5.22 KIP	2.34 KIP	37 IN	(3) #5
	120 1111 11		30.24 PSF		1.66 KIP	5.15 KIP		5.60 KIP	5.32 KIP	2.01 KIP	32 IN	(2) #5
			37.80 PSF	7.25 FT	1.50 KIP	5.38 KIP		5.05 KIP	5.55 KIP	1.81 KIP	29 IN	(2) #5
			45.36 PSF	6.50 FT	1.33 KIP	5.46 KIP		4.49 KIP	5.61 KIP	1.60 KIP	25 IN	(2) #5
		0 PSF	0.00 PSF	9.00 FT	2.24 KIP	4.58 KIP	 	7.46 KIP	4.74 KIP	2.67 KIP	42 IN	(3) #5
			7.56 PSF		2.24 KIP	4.86 KIP		7.46 KIP	5.04 KIP	2.67 KIP	42 IN	(3) #5
			15.12 PSF		2.11 KIP	4.85 KIP		7.03 KIP	5.03 KIP	2.51 KIP	40 IN	(3) #5
	130 MPH		22.68 PSF		2.04 KIP	4.97 KIP		6.81 KIP	5.14 KIP	2.43 KIP	38 IN	(3) #5
			30.24 PSF	7.75 FT	1.91 KIP	5.25 KIP		6.38 KIP	5.42 KIP	2.28 KIP	36 IN	(3) #5
			37.80 PSF		1.65 KIP	5.23 KIP	 	5.51 KIP	5.38 KIP	1.96 KIP	31 IN	(2) #5
			45.36 PSF		1.52 KIP	5.45 KIP		5.08 KIP	5.59 KIP	1.80 KIP	29 IN	(2) #5
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ASCE 7-10												
	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTION	N	R	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.50 FT	1.38 KIP	3.38 KIP	0.00 KIP	4.91 KIP	3.51 KIP	1.80 KIP	27 IN	(2) #5
		10 PSF	7.56 PSF	13.50 FT		3.81 KIP	0.01 KIP	4.91 KIP	3.96 KIP	1.80 KIP	27 IN	(2) #5
		20 PSF	15.12 PSF	12.00 FT	1.22 KIP	4.19 KIP	0.01 KIP	4.36 KIP	4.35 KIP	1.59 KIP	24 IN	(2) #5
	110 MPH	30 PSF	22.68 PSF	10.50 FT	1.07 KIP	4.73 KIP	0.01 KIP	3.80 KIP	4.91 KIP	1.39 KIP	21 IN	(1) #5
		40 PSF	30.24 PSF	9.25 FT	0.93 KIP	5.10 KIP	0.01 KIP	3.33 KIP	5.28 KIP	1.22 KIP	18 IN	(1) #5
		50 PSF	37.80 PSF	8.00 FT	0.80 KIP	5.20 KIP	0.01 KIP	2.86 KIP	5.38 KIP	1.05 KIP	16 IN	(1) #5
		60 PSF	45.36 PSF	7.25 FT	0.72 KIP	5.43 KIP	0.01 KIP	2.58 KIP	5.60 KIP	0.95 KIP	14 IN	(1) #5
		0 PSF	0.00 PSF	13.00 FT	1.48 KIP	3.51 KIP	0.00 KIP	5.19 KIP	3.65 KIP	1.89 KIP	28 IN	(2) #5
		10 PSF	7.56 PSF	13.00 FT	1.48 KIP	3.92 KIP	0.01 KIP	5.19 KIP	4.08 KIP	1.89 KIP	28 IN	(2) #5
		20 PSF	15.12 PSF	11.75 FT	1.33 KIP	4.21 KIP	0.01 KIP	4.68 KIP	4.38 KIP	1.71 KIP	25 IN	(2) #5
	115 MPH	30 PSF	22.68 PSF	10.25 FT	1.15 KIP	4.71 KIP	0.01 KIP	4.07 KIP	4.89 KIP	1.48 KIP	22 IN	(1) #5
		40 PSF	30.24 PSF	9.25 FT	1.04 KIP	5.19 KIP	0.01 KIP	3.66 KIP	5.38 KIP	1.34 KIP	20 IN	(1) #5
	-	50 PSF	37.80 PSF	8.00 FT	0.89 KIP	5.28 KIP	0.01 KIP	3.15 KIP	5.46 KIP	1.15 KIP	17 IN	(1) #5
		60 PSF	45.36 PSF	7.00 FT	0.77 KIP	5.31 KIP	0.01 KIP	2.73 KIP	5.46 KIP	0.99 KIP	15 IN	(1) #5
		0 PSF	0.00 PSF	11.50 FT	1.72 KIP	3.84 KIP	0.00 KIP	5.91 KIP	3.99 KIP	2.14 KIP	32 IN	(2) #5
		10 PSF	7.56 PSF	11.50 FT	1.72 KIP	4.21 KIP	0.01 KIP	5.91 KIP	4.37 KIP	2.14 KIP	32 IN	(2) #5
		20 PSF	15.12 PSF	11.25 FT	1.68 KIP	4.47 KIP	0.01 KIP	5.78 KIP	4.64 KIP	2.09 KIP	31 IN	(2) #5
	130 MPH	30 PSF	22.68 PSF	10.00 FT	1.49 KIP	4.92 KIP	0.01 KIP	5.12 KIP	5.10 KIP	1.85 KIP	28 IN	(2) #5
		40 PSF	30.24 PSF	8.75 FT	1.30 KIP	5.18 KIP	0.01 KIP	4.46 KIP	5.36 KIP	1.61 KIP	24 IN	(2) #5
			37.80 PSF	7.50 FT	1.10 KIP	5.18 KIP		3.80 KIP	5.34 KIP	1.37 KIP	21 IN	(1) #5
15°		60 PSF	45.36 PSF	6.75 FT	0.98 KIP	5.32 KIP	0.01 KIP	3.40 KIP	5.47 KIP	1.22 KIP	19 IN	(1) #5
13		0 PSF	0.00 PSF	10.50 FT	1.85 KIP	4.00 KIP	0.00 KIP	6.28 KIP	4.15 KIP	2.26 KIP	34 IN	(2) #5
		10 PSF	7.56 PSF	10.50 FT	1.85 KIP	4.33 KIP		6.28 KIP	4.49 KIP	2.26 KIP	34 IN	(2) #5
		20 PSF	15.12 PSF			4.66 KIP		6.28 KIP	4.84 KIP	2.26 KIP	34 IN	(2) #5
	140 MPH		22.68 PSF	9.75 FT	1.71 KIP	5.02 KIP		5.82 KIP		2.10 KIP	31 IN	(2) #5
		40 PSF	30.24 PSF	8.50 FT	1.48 KIP	5.23 KIP		5.05 KIP	5.41 KIP	1.82 KIP	27 IN	(2) #5
			37.80 PSF	7.50 FT	1.30 KIP	5.35 KIP		4.43 KIP	5.52 KIP	1.59 KIP	24 IN	(2) #5
			45.36 PSF		1.16 KIP			3.96 KIP	5.63 KIP	1.42 KIP		(1) #5
		0 PSF	0.00 PSF					6.89 KIP		2.47 KIP		(3) #5
			7.56 PSF			4.62 KIP		6.89 KIP	4.80 KIP	2.47 KIP	37 IN	(3) #5
			15.12 PSF		1.99 KIP	4.82 KIP		6.71 KIP	5.00 KIP	2.41 KIP	36 IN	(3) #5
	150 MPH		22.68 PSF		1.89 KIP			6.35 KIP	5.17 KIP	2.28 KIP	34 IN	(2) #5
			30.24 PSF		1.62 KIP	5.11 KIP		5.46 KIP	5.28 KIP	1.96 KIP	30 IN	(2) #5
			37.80 PSF		1.46 KIP	5.35 KIP		4.93 KIP	5.52 KIP	1.76 KIP	27 IN	(2) #5
			45.36 PSF		1.30 KIP			4.38 KIP	5.57 KIP	1.57 KIP		(2) #5
		0 PSF	0.00 PSF	9.25 FT	2.17 KIP	4.48 KIP		7.25 KIP	4.64 KIP	2.60 KIP	39 IN	(3) #5
			7.56 PSF	9.25 FT	2.17 KIP	4.77 KIP		7.25 KIP	4.94 KIP	2.60 KIP	39 IN	(3) #5
			15.12 PSF		2.11 KIP	4.92 KIP		7.05 KIP	5.10 KIP	2.52 KIP	38 IN	(3) #5
	160 MPH		22.68 PSF	8.50 FT	1.99 KIP	4.91 KIP		6.65 KIP	5.09 KIP	2.38 KIP	36 IN	(3) #5
			30.24 PSF		1.80 KIP	5.16 KIP		6.03 KIP	5.32 KIP	2.16 KIP	33 IN	(2) #5
			37.80 PSF		1.62 KIP	5.34 KIP		5.42 KIP	5.50 KIP	1.93 KIP	29 IN	(2) #5
		60 PSF	45.36 PSF	6.25 FT	1.43 KIP	5.37 KIP	0.01 KIP	4.80 KIP	5.51 KIP	1.71 KIP	26 IN	(2) #5

	ASCE 7-05 W/ SEISMIC DESIGN												
TILT	THE MAX GROUND ROOF MAX FRONT CONNECTION								REAR CONNECTION BALLAST				
1111	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR	
		0 PSF	0.00 PSF	14.00 FT	1.36 KIP	3.37 KIP	0.40 KIP	4.86 KIP	3.51 KIP	1.78 KIP	27 IN	(2) #5	
		10 PSF	7.56 PSF	14.00 FT	1.36 KIP	3.82 KIP	0.40 KIP	4.86 KIP	3.97 KIP	1.78 KIP	27 IN	(2) #5	
		20 PSF	15.12 PSF	12.00 FT	1.16 KIP	4.13 KIP	0.36 KIP	4.15 KIP	4.29 KIP	1.52 KIP	23 IN	(1) #5	
	85 MPH	30 PSF	22.68 PSF	10.50 FT	1.01 KIP	4.68 KIP	0.32 KIP	3.62 KIP	4.86 KIP	1.33 KIP	21 IN	(1) #5	
		40 PSF	30.24 PSF	6.75 FT	0.63 KIP	3.66 KIP	0.55 KIP	2.28 KIP	3.76 KIP	0.83 KIP	23 IN	(1) #5	
		50 PSF	37.80 PSF	6.00 FT	0.55 KIP	3.83 KIP	0.57 KIP	2.01 KIP	3.92 KIP	0.73 KIP	24 IN	(2) #5	
		60 PSF	45.36 PSF	5.50 FT	0.50 KIP	4.04 KIP	0.60 KIP	1.82 KIP	4.12 KIP	0.67 KIP	24 IN	(2) #5	
		0 PSF	0.00 PSF	13.00 FT	1.44 KIP	3.45 KIP	0.38 KIP	5.08 KIP	3.59 KIP	1.85 KIP	29 IN	(2) #5	
		10 PSF	7.56 PSF	13.00 FT	1.44 KIP	3.86 KIP	0.38 KIP	5.08 KIP	4.02 KIP	1.85 KIP	29 IN	(2) #5	
		20 PSF	15.12 PSF	11.75 FT	1.30 KIP	4.19 KIP	0.35 KIP	4.58 KIP	4.35 KIP	1.67 KIP	26 IN	(2) #5	
	90 MPH [30 PSF	22.68 PSF	10.25 FT	1.13 KIP	4.69 KIP	0.31 KIP	3.98 KIP	4.87 KIP	1.45 KIP	23 IN	(1) #5	
		40 PSF	30.24 PSF	6.75 FT	0.72 KIP	3.74 KIP	0.55 KIP	2.57 KIP	3.84 KIP	0.94 KIP	23 IN	(1) #5	
		50 PSF	37.80 PSF	6.00 FT	0.64 KIP	3.90 KIP	0.57 KIP	2.26 KIP	4.00 KIP	0.82 KIP	24 IN	(2) #5	
		60 PSF	45.36 PSF	5.50 FT	0.58 KIP	4.11 KIP	0.60 KIP	2.06 KIP	4.19 KIP	0.75 KIP	24 IN	(2) #5	
		0 PSF	0.00 PSF	11.75 FT	1.66 KIP	3.74 KIP	0.35 KIP	5.71 KIP	3.88 KIP	2.07 KIP	32 IN	(2) #5	
		10 PSF	7.56 PSF	11.75 FT	1.66 KIP	4.11 KIP	0.35 KIP	5.71 KIP	4.27 KIP	2.07 KIP	32 IN	(2) #5	
		20 PSF	15.12 PSF	11.50 FT	1.62 KIP	4.40 KIP	0.34 KIP	5.59 KIP	4.57 KIP	2.02 KIP	31 IN	(2) #5	
	100 MPH	30 PSF	22.68 PSF	10.00 FT	1.40 KIP	4.84 KIP	0.31 KIP	4.84 KIP	5.02 KIP	1.75 KIP	27 IN	(2) #5	
		40 PSF	30.24 PSF	6.75 FT	0.92 KIP	3.91 KIP	0.55 KIP	3.21 KIP	4.02 KIP	1.16 KIP	23 IN	(1) #5	
		50 PSF	37.80 PSF	6.00 FT	0.81 KIP	4.06 KIP	0.57 KIP	2.82 KIP	4.15 KIP	1.02 KIP	24 IN	(2) #5	
4.50		60 PSF	45.36 PSF	5.50 FT	0.74 KIP	4.25 KIP	0.60 KIP	2.57 KIP	4.33 KIP	0.92 KIP	24 IN	(2) #5	
15°		0 PSF	0.00 PSF	10.75 FT	1.87 KIP	4.05 KIP	0.32 KIP	6.35 KIP	4.20 KIP	2.29 KIP	36 IN	(3) #5	
		10 PSF	7.56 PSF	10.75 FT	1.87 KIP	4.39 KIP	0.32 KIP	6.35 KIP	4.56 KIP	2.29 KIP	36 IN	(3) #5	
		20 PSF	15.12 PSF	10.75 FT	1.87 KIP	4.73 KIP	0.33 KIP	6.35 KIP	4.91 KIP	2.29 KIP	36 IN	(3) #5	
	110 MPH	30 PSF	22.68 PSF	9.75 FT	1.69 KIP	5.00 KIP	0.30 KIP	5.75 KIP	5.19 KIP	2.07 KIP	32 IN	(2) #5	
		40 PSF	30.24 PSF	6.75 FT	1.15 KIP	4.11 KIP	0.55 KIP	3.91 KIP	4.22 KIP	1.40 KIP	23 IN	(1) #5	
		50 PSF	37.80 PSF	6.00 FT	1.01 KIP	4.23 KIP	0.57 KIP	3.44 KIP	4.33 KIP	1.23 KIP	24 IN	(2) #5	
		60 PSF	45.36 PSF	5.50 FT	0.92 KIP	4.40 KIP	0.60 KIP	3.13 KIP	4.49 KIP	1.12 KIP	24 IN	(2) #5	
		0 PSF	0.00 PSF	9.75 FT	2.05 KIP	4.29 KIP	0.30 KIP	6.87 KIP	4.45 KIP	2.47 KIP	39 IN	(3) #5	
		10 PSF	7.56 PSF		2.05 KIP	4.60 KIP		6.87 KIP	4.77 KIP	2.47 KIP		(3) #5	
		20 PSF	15.12 PSF		2.05 KIP	4.91 KIP	0.30 KIP	6.87 KIP	5.09 KIP	2.47 KIP	39 IN	(3) #5	
	120 MPH		22.68 PSF		1.94 KIP	5.04 KIP	0.29 KIP	6.51 KIP	5.22 KIP	2.34 KIP		(3) #5	
		40 PSF	30.24 PSF	6.75 FT	1.39 KIP	4.32 KIP	0.55 KIP	4.68 KIP	4.44 KIP	1.67 KIP	27 IN	(2) #5	
		50 PSF	37.80 PSF	6.00 FT	1.22 KIP	4.42 KIP	0.57 KIP	4.12 KIP	4.52 KIP	1.47 KIP	24 IN	(2) #5	
		60 PSF	45.36 PSF	5.50 FT	1.11 KIP	4.57 KIP	0.60 KIP	3.75 KIP	4.67 KIP	1.33 KIP	24 IN	(2) #5	
		0 PSF	0.00 PSF		2.24 KIP	4.58 KIP	0.28 KIP	7.46 KIP	4.74 KIP	2.67 KIP	42 IN	(3) #5	
		10 PSF	7.56 PSF		2.24 KIP	4.86 KIP	0.28 KIP	7.46 KIP	5.04 KIP	2.67 KIP	42 IN	(3) #5	
			15.12 PSF		2.11 KIP	4.85 KIP		7.03 KIP	5.03 KIP	2.51 KIP	40 IN	(3) #5	
	130 MPH		22.68 PSF		2.04 KIP	4.97 KIP		6.81 KIP	5.14 KIP	2.43 KIP	38 IN	(3) #5	
			30.24 PSF		1.65 KIP	4.55 KIP		5.51 KIP	4.68 KIP	1.96 KIP	31 IN	(2) #5	
			37.80 PSF		1.46 KIP	4.62 KIP		4.86 KIP	4.73 KIP	1.72 KIP	28 IN	(2) #5	
			45.36 PSF		1.32 KIP	4.76 KIP		4.42 KIP	4.86 KIP	1.56 KIP		(2) #5	
		30 1 01	.0.00101	0.0011	1.04 (0)	1.1 O T (II	J.00 IVII	// +⇔ !XII	1.00 (11)	1.00101		(F) "O	

	ASCE 7-10 W/ SEISMIC DESIGN													
	MAX	GROUND	ROOF	MAX		RONT CONNECTION			AR CONNECTIO	N N	BALLAST	# OF		
TILT	WIND	SNOW	SNOW	SPAN		COMPRESSION		TENSION	COMPRESSION	SHEAR	WIDTH	REBAR		
		0 PSF	0.00 PSF			3.38 KIP		4.91 KIP	3.51 KIP	1.80 KIP	27 IN	(2) #5		
		10 PSF	7.56 PSF			3.81 KIP		4.91 KIP	3.96 KIP	1.80 KIP	27 IN	(2) #5		
		20 PSF	15.12 PSF			4.19 KIP		4.36 KIP	4.35 KIP	1.59 KIP	24 IN	(2) #5		
	110 MPH		22.68 PSF			4.73 KIP		3.80 KIP	4.91 KIP	1.39 KIP	21 IN	(1) #5		
			30.24 PSF		0.67 KIP	3.69 KIP		2.39 KIP	3.79 KIP	0.87 KIP	23 IN	(1) #5		
			37.80 PSF		0.58 KIP	3.86 KIP		2.11 KIP	3.95 KIP	0.77 KIP	24 IN	(2) #5		
			45.36 PSF		0.53 KIP	4.07 KIP		1.91 KIP	4.14 KIP	0.70 KIP	24 IN	(2) #5		
		0 PSF	0.00 PSF	13.00 FT	1.48 KIP	3.51 KIP	0.38 KIP	5.19 KIP	3.65 KIP	1.89 KIP	28 IN	(2) #5		
		10 PSF	7.56 PSF	13.00 FT	1.48 KIP	3.92 KIP	0.38 KIP	5.19 KIP	4.08 KIP	1.89 KIP	28 IN	(2) #5		
		20 PSF	15.12 PSF	11.75 FT	1.33 KIP	4.21 KIP	0.35 KIP	4.68 KIP	4.38 KIP	1.71 KIP	25 IN	(2) #5		
	115 MPH	30 PSF	22.68 PSF	10.25 FT	1.15 KIP	4.71 KIP	0.31 KIP	4.07 KIP	4.89 KIP	1.48 KIP	22 IN	(1) #5		
		40 PSF	30.24 PSF	6.75 FT	0.74 KIP	3.75 KIP	0.55 KIP	2.63 KIP	3.86 KIP	0.96 KIP	23 IN	(1) #5		
		50 PSF	37.80 PSF	6.00 FT	0.65 KIP	3.92 KIP	0.57 KIP	2.31 KIP	4.01 KIP	0.84 KIP	24 IN	(2) #5		
		60 PSF	45.36 PSF	5.50 FT	0.59 KIP	4.12 KIP	0.60 KIP	2.10 KIP	4.20 KIP	0.76 KIP	24 IN	(2) #5		
		0 PSF	0.00 PSF	11.50 FT	1.72 KIP	3.84 KIP	0.34 KIP	5.91 KIP	3.99 KIP	2.14 KIP	32 IN	(2) #5		
	130 MPH	10 PSF	7.56 PSF	11.50 FT	1.72 KIP	4.21 KIP	0.34 KIP	5.91 KIP	4.37 KIP	2.14 KIP	32 IN	(2) #5		
		20 PSF	15.12 PSF	11.25 FT	1.68 KIP	4.47 KIP	0.34 KIP	5.78 KIP	4.64 KIP	2.09 KIP	31 IN	(2) #5		
		30 PSF	22.68 PSF	10.00 FT	1.49 KIP	4.92 KIP	0.31 KIP	5.12 KIP	5.10 KIP	1.85 KIP	28 IN	(2) #5		
		40 PSF	30.24 PSF	6.75 FT	0.98 KIP	3.97 KIP	0.55 KIP	3.40 KIP	4.08 KIP	1.22 KIP	23 IN	(1) #5		
		50 PSF	37.80 PSF	6.00 FT	0.86 KIP	4.11 KIP		2.99 KIP	4.20 KIP	1.08 KIP	24 IN	(2) #5		
15°		60 PSF	45.36 PSF	5.50 FT	0.79 KIP	4.29 KIP	0.60 KIP	2.72 KIP	4.37 KIP	0.98 KIP	24 IN	(2) #5		
10		0 PSF	0.00 PSF	10.50 FT	1.85 KIP	4.00 KIP	0.32 KIP	6.28 KIP	4.15 KIP	2.26 KIP	34 IN	(2) #5		
		10 PSF	7.56 PSF	10.50 FT	1.85 KIP	4.33 KIP	0.32 KIP	6.28 KIP	4.49 KIP	2.26 KIP	34 IN	(2) #5		
		20 PSF	15.12 PSF			4.66 KIP	0.32 KIP	6.28 KIP	4.84 KIP	2.26 KIP	34 IN	(2) #5		
	1 4 0 MPH		22.68 PSF		1.71 KIP	5.02 KIP		5.82 KIP	5.21 KIP	2.10 KIP	31 IN	(2) #5		
			30.24 PSF		1.16 KIP	4.12 KIP		3.96 KIP	4.24 KIP	1.42 KIP	23 IN	(1) #5		
			37.80 PSF		1.02 KIP	4.24 KIP		3.49 KIP	4.34 KIP	1.25 KIP	24 IN	(2) #5		
			45.36 PSF					3.17 KIP	4.50 KIP	1.13 KIP	1	(2) #5		
		0 PSF	0.00 PSF			4.31 KIP		6.89 KIP	4.47 KIP	2.47 KIP	37 IN	(3) #5		
		10 PSF	7.56 PSF			4.62 KIP		6.89 KIP	4.80 KIP	2.47 KIP	37 IN	(3) #5		
		20 PSF	15.12 PSF		1.99 KIP	4.82 KIP		6.71 KIP	5.00 KIP	2.41 KIP	36 IN	(3) #5		
	150 MPH		22.68 PSF		1.89 KIP	4.99 KIP		6.35 KIP	5.17 KIP	2.28 KIP	34 IN	(2) #5		
			30.24 PSF		1.35 KIP	4.29 KIP		4.57 KIP	4.41 KIP	1.63 KIP	25 IN	(2) #5		
			37.80 PSF		1.19 KIP			4.02 KIP	4.50 KIP	1.43 KIP	24 IN	(2) #5		
			45.36 PSF		1.08 KIP	4.55 KIP		3.65 KIP	4.64 KIP	1.30 KIP	24 IN	(2) #5		
		0 PSF	0.00 PSF		2.17 KIP	4.48 KIP		7.25 KIP	4.64 KIP	2.60 KIP	39 IN	(3) #5		
		10 PSF	7.56 PSF		2.17 KIP	4.77 KIP		7.25 KIP	4.94 KIP	2.60 KIP	39 IN	(3) #5		
	400.	20 PSF			2.11 KIP	4.92 KIP		7.05 KIP	5.10 KIP	2.52 KIP	38 IN	(3) #5		
	160 MPH		22.68 PSF		1.99 KIP	4.91 KIP		6.65 KIP	5.09 KIP	2.38 KIP	36 IN	(3) #5		
			30.24 PSF		1.56 KIP	4.47 KIP		5.21 KIP	4.60 KIP	1.86 KIP	28 IN	(2) #5		
			37.80 PSF		1.37 KIP	4.55 KIP		4.59 KIP	4.66 KIP	1.63 KIP	25 IN	(2) #5		
	_	60 PSF	45.36 PSF	5.50 FT	1.25 KIP	4.69 KIP	0.60 KIP	4.17 KIP	4.79 KIP	1.48 KIP	24 IN	(2) #5		

-	NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
	0	BushBr 9/27/2014				New Drawing
	1	BushBr 3/5/2015				Adjusted Notes & Threaded Rods
	2	BushBr 11/5/2015				Change Foundation Size, Dead Load Max, Update 2015
	3	BushBr 11/17/2015				Change Foundation Size
.,	4					
K	5					
	6					
	7					
	Q					



1 2 3 4 5 6 7 8 9 10 11 12 13 15 16 17

1001 COMMERCE CENTER DR. | SHELBY, NC 28150 TEL: (704) 595 - 4200 | Fax: (704) 595 - 4210 EMAIL: MAIL@SCHLETTER.US WWW.SCHLETTER.US

Standard PvMax, 60 Cell, 15° - 35° Racking Structure

Snow, Wind, Alignment, Tables 15°

ISSUED BY: SCHLETTER INC.
PROPRIETARY AND CONFIDENTIAL

Project Site:
Schletter Inc

Schletter Inc 1001 Commerce Center Dr Shelby, NC 28150 Drawing Number:

JOB NUMBER: V

JOB NUMBER: V SCALE:
SHEET: 4a of 4 SEE DRAWING VIEWS

Slope	Factor By Tilt
Tilt	Cs
15°	1.00
20°	0.91
25°	0.82
30°	0.73
35°	0.64

ASCE 7-05												
T) T	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTION	DN NC	R	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.50 FT	0.94 KIP	3.03 KIP	0.00 KIP	5.04 KIP	3.65 KIP	2.33 KIP	28 IN	(2) #5
		10 PSF	6.87 PSF	13.50 FT	0.94 KIP	3.41 KIP	0.01 KIP	5.04 KIP	4.04 KIP	2.33 KIP	28 IN	(2) #5
		20 PSF	13.75 PSF	12.00 FT	0.83 KIP	3.74 KIP	0.01 KIP	4.47 KIP	4.08 KIP	2.07 KIP	25 IN	(2) #5
	85 MPH	30 PSF	20.62 PSF	10.50 FT	0.72 KIP	4.22 KIP	0.01 KIP	3.90 KIP	4.53 KIP	1.80 KIP	21 IN	(1) #5
		40 PSF	27.49 PSF	9.50 FT	0.65 KIP	4.67 KIP	0.01 KIP	3.52 KIP	4.96 KIP	1.63 KIP	19 IN	(1) #5
		50 PSF	34.36 PSF	8.75 FT	0.60 KIP	5.08 KIP	0.01 KIP	3.23 KIP	5.35 KIP	1.49 KIP	18 IN	(1) #5
		60 PSF	41.42 PSF	8.00 FT	0.54 KIP	5.35 KIP	0.01 KIP	2.94 KIP	5.60 KIP	1.36 KIP	16 IN	(1) #5
		0 PSF	0.00 PSF	12.75 FT	1.02 KIP	3.15 KIP	0.00 KIP	5.36 KIP	3.80 KIP	2.47 KIP	29 IN	(2) #5
		10 PSF	6.87 PSF	12.75 FT	1.02 KIP	3.51 KIP	0.01 KIP	5.36 KIP	4.17 KIP	2.47 KIP	29 IN	(2) #5
		20 PSF	13.75 PSF	12.00 FT	0.96 KIP	3.88 KIP	0.01 KIP	5.04 KIP	4.27 KIP	2.32 KIP	28 IN	(2) #5
	90 MPH	30 PSF	20.62 PSF	10.50 FT	0.83 KIP	4.34 KIP	0.01 KIP	4.40 KIP	4.67 KIP	2.02 KIP	24 IN	(2) #5
		40 PSF	27.49 PSF	9.50 FT	0.75 KIP	4.77 KIP	0.01 KIP	3.97 KIP	5.09 KIP	1.83 KIP	22 IN	(1) #5
		50 PSF	34.36 PSF	8.50 FT	0.67 KIP	5.03 KIP	0.01 KIP	3.54 KIP	5.31 KIP	1.63 KIP	20 IN	(1) #5
		60 PSF	41.42 PSF	7.75 FT	0.60 KIP	5.27 KIP	0.01 KIP	3.21 KIP	5.52 KIP	1.47 KIP	18 IN	(1) #5
	100 MPH	0 PSF	0.00 PSF	11.50 FT	1.18 KIP	3.40 KIP	0.00 KIP	6.01 KIP	4.12 KIP	2.75 KIP	33 IN	(2) #5
		10 PSF	6.87 PSF	11.50 FT	1.18 KIP	3.72 KIP	0.01 KIP	6.01 KIP	4.45 KIP	2.75 KIP	33 IN	(2) #5
		20 PSF	13.75 PSF	11.50 FT	1.18 KIP	4.05 KIP	0.01 KIP	6.01 KIP	4.79 KIP	2.75 KIP	33 IN	(2) #5
		30 PSF	20.62 PSF	10.25 FT	1.05 KIP	4.48 KIP	0.01 KIP	5.34 KIP	4.87 KIP	2.44 KIP	29 IN	(2) #5
		40 PSF	27.49 PSF	9.25 FT	0.94 KIP	4.87 KIP	0.01 KIP	4.81 KIP	5.23 KIP	2.20 KIP	26 IN	(2) #5
		50 PSF	34.36 PSF	8.50 FT	0.86 KIP	5.23 KIP	0.01 KIP	4.40 KIP	5.56 KIP	2.01 KIP	24 IN	(2) #5
20°		60 PSF	41.42 PSF	7.50 FT	0.76 KIP	5.27 KIP		3.86 KIP	5.55 KIP	1.76 KIP	21 IN	(1) #5
_0		0 PSF	0.00 PSF	10.50 FT		3.67 KIP		6.67 KIP	4.46 KIP	3.03 KIP	36 IN	(3) #5
		10 PSF	6.87 PSF	10.50 FT	1.34 KIP	3.96 KIP		6.67 KIP	4.76 KIP	3.03 KIP	36 IN	(3) #5
		20 PSF	13.75 PSF		1.34 KIP	4.25 KIP		6.67 KIP	5.06 KIP	3.03 KIP	36 IN	(3) #5
	110 MPH		20.62 PSF	9.75 FT	1.24 KIP	4.52 KIP	0.01 KIP	6.18 KIP	4.97 KIP	2.81 KIP	34 IN	(2) #5
			27.49 PSF	9.00 FT	1.14 KIP	4.98 KIP			5.38 KIP	2.59 KIP	31 IN	(2) #5
			34.36 PSF	8.00 FT	1.01 KIP	5.13 KIP	-	5.03 KIP	5.48 KIP	2.28 KIP	28 IN	(2) #5
			41.42 PSF			5.29 KIP		4.54 KIP	5.60 KIP	2.06 KIP	25 IN	(2) #5
		0 PSF	0.00 PSF		1.48 KIP	3.87 KIP		7.20 KIP	4,71 KIP	3.26 KIP	39 IN	(3) #5
		10 PSF			1.48 KIP	4.14 KIP		7.20 KIP	4.99 KIP	3.26 KIP	39 IN	(3) #5
		20 PSF			1.48 KIP	4.40 KIP		7.20 KIP	5.26 KIP	3.26 KIP	39 IN	(3) #5
	120 MPH		20.62 PSF		1.40 KIP	4.43 KIP		6.81 KIP	5.23 KIP	3.08 KIP	37 IN	(3) #5
			27.49 PSF	•	1.31 KIP	4.95 KIP	†	6.41 KIP	5.38 KIP	2.90 KIP	35 IN	(2) #5
			34.36 PSF		1.19 KIP	5.19 KIP		5.82 KIP	5.58 KIP	2.63 KIP	32 IN	(2) #5
			41.42 PSF		1.07 KIP	5.30 KIP	+	5.23 KIP	5.64 KIP	2.36 KIP	29 IN	(2) #5
		0 PSF	0.00 PSF		1.52 KIP	3.88 KIP		7.32 KIP	4.72 KIP	3.30 KIP	40 IN	(3) #5
		10 PSF		8.25 FT	1.52 KIP	4.11 KIP		7.32 KIP	4.95 KIP	3.30 KIP	40 IN	(3) #5
				8.25 FT	1.52 KIP	4.34 KIP		7.32 KIP	5.19 KIP	3.30 KIP	40 IN	(3) #5
	130 MPH		20.62 PSF		1.52 KIP	4.57 KIP		7.32 KIP	5.42 KIP	3.30 KIP	40 IN	(3) #5
			27.49 PSF		1.47 KIP	4.90 KIP		7.09 KIP	5.48 KIP	3.20 KIP	39 IN	(3) #5
			34.36 PSF		1.33 KIP	5.08 KIP	† 	6.39 KIP	5.48 KIP	2.88 KIP	35 IN	(2) #5
		60 PSF	41.42 PSF	6.75 FT	1.23 KIP	5.32 KIP	0.01 KIP	5.93 KIP	5.68 KIP	2.66 KIP	33 IN	(2) #5

ASCE 7-10												
TU T	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTIO	DN	R	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.25 FT	0.98 KIP	3.09 KIP	0.00 KIP	5.19 KIP	3.73 KIP	2.39 KIP	27 IN	(2) #5
		10 PSF	6.87 PSF	13.25 FT	0.98 KIP	3.46 KIP	0.01 KIP	5.19 KIP	4.11 KIP	2.39 KIP	27 IN	(2) #5
		20 PSF	13.75 PSF	12.00 FT	0.88 KIP	3.80 KIP	0.01 KIP	4.69 KIP	4.14 KIP	2.16 KIP	25 IN	(2) #5
	110 MPH	30 PSF	20.62 PSF	10.50 FT	0.77 KIP	4.26 KIP	0.01 KIP	4.09 KIP	4.58 KIP	1.89 KIP	22 IN	(1) #5
		40 PSF	27.49 PSF	9.50 FT	0.69 KIP	4.71 KIP	0.01 KIP	3.69 KIP	5.01 KIP	1.70 KIP	19 IN	(1) #5
		50 PSF	34.36 PSF	8.75 FT	0.63 KIP	5.12 KIP	0.01 KIP	3.39 KIP	5.40 KIP	1.56 KIP	18 IN	(1) #5
		60 PSF	41.42 PSF	7.75 FT	0.55 KIP	5.21 KIP	0.01 KIP	2.99 KIP	5.46 KIP	1.38 KIP	16 IN	(1) #5
		0 PSF	0.00 PSF	12.75 FT	1.05 KIP	3.20 KIP	0.00 KIP	5.48 KIP	3.87 KIP	2.52 KIP	29 IN	(2) #5
		10 PSF	6.87 PSF	12.75 FT	1.05 KIP	3.56 KIP	0.01 KIP	5.48 KIP	4.24 KIP	2.52 KIP	29 IN	(2) #5
			13.75 PSF	11.75 FT	0.96 KIP	3.82 KIP		5.04 KIP	4.24 KIP	2.32 KIP	26 IN	(2) #5
	115 MPH		20.62 PSF			4.36 KIP	0.01 KIP	4.49 KIP	4.70 KIP	2.07 KIP	24 IN	(2) #5
		40 PSF	27.49 PSF	9.25 FT	0.75 KIP	4.67 KIP		3.94 KIP	4.97 KIP	1.81 KIP	21 IN	(1) #5
		50 PSF	34.36 PSF	8.50 FT	0.68 KIP	5.04 KIP	0.01 KIP	3.61 KIP	5.33 KIP	1.66 KIP	19 IN	(1) #5
		60 PSF		7.75 FT	0.62 KIP	5.28 KIP		3.28 KIP	5.54 KIP	1.51 KIP	17 IN	(1) #5
		0 PSF		11.25 FT		3.49 KIP		6.22 KIP	4.23 KIP	2.84 KIP	33 IN	(2) #5
		10 PSF		11.25 FT		3.80 KIP		6.22 KIP	4.56 KIP	2.84 KIP	33 IN	(2) #5
		20 PSF		11.25 FT		4.12 KIP		6.22 KIP	4.88 KIP	2.84 KIP	33 IN	(2) #5
	130 MPH		20.62 PSF		!	4.44 KIP		5.51 KIP	4.84 KIP	2.52 KIP	29 IN	(2) #5
			27.49 PSF		0.98 KIP	4.80 KIP		4.95 KIP	5.16 KIP	2.26 KIP	26 IN	(2) #5
			34.36 PSF		0.89 KIP	5.13 KIP		4.52 KIP	5.46 KIP	2.06 KIP	24 IN	(2) #5
20°		60 PSF	41.42 PSF		0.81 KIP	5.33 KIP	0.01 KIP	4.09 KIP	5.62 KIP	1.86 KIP	22 IN	(1) #5
-		0 PSF	0.00 PSF	10.25 FT		3.62 KIP		6.59 KIP	4.40 KIP	3.00 KIP	35 IN	(2) #5
		10 PSF	6.87 PSF	10.25 FT		3.90 KIP		6.59 KIP	4.69 KIP	3.00 KIP	35 IN	(2) #5
	4 40 1 10 1	20 PSF	13.75 PSF			4.19 KIP		6.59 KIP	4.99 KIP	3.00 KIP	35 IN	(2) #5
	140 MPH			9.75 FT	1.26 KIP	4.54 KIP		6.26 KIP	5.02 KIP	2.84 KIP	33 IN	(2) #5
			27.49 PSF	9.00 FT	1.16 KIP	4.99 KIP		5.76 KIP	5.40 KIP	2.62 KIP	30 IN	(2) #5
			34.36 PSF	8.00 FT	1.03 KIP	5.15 KIP		5.10 KIP	5.50 KIP	2.31 KIP	27 IN	(2) #5
			41.42 PSF		0.92 KIP	5.30 KIP		4.60 KIP	5.61 KIP	2.08 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF					7.21 KIP	•	3.27 KIP	38 IN	(3) #5
		10 PSF	6.87 PSF	9.75 FT		4.16 KIP		7.21 KIP		3.27 KIP	38 IN	(3) #5
	150 MDLI		13.75 PSF		!	4.44 KIP	 	7.21 KIP	5.30 KIP	3.27 KIP	38 IN	(3) #5
	130 IVIP II		20.62 PSF	·	1.40 KIP	4.52 KIP	•	6.83 KIP	5.28 KIP	3.09 KIP	36 IN	(3) #5
			27.49 PSF		1.32 KIP	5.06 KIP		6.45 KIP	5.49 KIP	2.92 KIP	34 IN	(2) #5
			34.36 PSF			5.16 KIP		5.68 KIP	5.54 KIP	2.57 KIP	30 IN	(2) #5
		0 PSF	41.42 PSF 0.00 PSF		1.04 KIP 1.57 KIP	5.27 KIP		5.10 KIP 7.58 KIP	5.60 KIP	2.30 KIP	27 IN	(2) #5
			6.87 PSF	9.00 FT		4.03 KIP 4.28 KIP		7.58 KIP	4.91 KIP 5.17 KIP	3.42 KIP 3.42 KIP	40 IN 40 IN	(3) #5
			13.75 PSF		1.57 KIP	4.20 KIP 4.41 KIP	·	7.36 KIP	5.17 KIP 5.27 KIP	3.42 KIP	39 IN	(3) #5 (3) #5
	160 MDU		20.62 PSF		1.32 KIP	4.41 KIP 4.52 KIP	 	7.36 KIP	5.27 KIP 5.36 KIP	3.22 KIP	38 IN	
	100 IAIL L		27.49 PSF		1.43 KIP	4.96 KIP		6.93 KIP	5.36 KIP 5.43 KIP	3.13 KIP	36 IN	(3) #5
			34.36 PSF		 	5.17 KIP		6.93 KIP	5.43 KIP 5.58 KIP	2.82 KIP	33 IN	(3) #5 (2) #5
			41.42 PSF			5.17 KIP 5.24 KIP		5.60 KIP		2.52 KIP	30 IN	
		OU FOF	71,74 535	U.73 FT	LUO KIP	J.A4 NIF	0.01 KIP	3.00 KIP	J.38 KIF	LY YEL	JU 11V	(2) #5

	ASCE 7-05 W/ SEISMIC DESIGN											
TILT	MAX	GROUND	ROOF	MAX		RONT CONNECTIO			EAR CONNECTIO		BALLAST	# OF
11121	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION			COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.50 FT	0.94 KIP	3.03 KIP	0.43 KIP	5.04 KIP	3.65 KIP	2.33 KIP	28 IN	(2) #5
		10 PSF	6.87 PSF	13.50 FT	0.94 KIP	3.41 KIP	0.43 KIP	5.04 KIP	4.04 KIP	2.33 KIP	28 IN	(2) #5
		20 PSF	13.75 PSF	12.00 FT	0.83 KIP	3.74 KIP	0.39 KIP	4.47 KIP	4.08 KIP	2.07 KIP	25 IN	(2) #5
	85 MPH	30 PSF	20.62 PSF	10.50 FT	0.72 KIP	4.22 KIP	0.35 KIP	3.90 KIP	4.53 KIP	1.80 KIP	21 IN	(1) #5
		40 PSF	27.49 PSF	6.50 FT	0.43 KIP	3.17 KIP	0.58 KIP	2.36 KIP	3.32 KIP	1.09 KIP	23 IN	(1) #5
		50 PSF	34.36 PSF	5.75 FT	0.38 KIP	3.30 KIP	0.60 KIP	2.06 KIP	3.41 KIP	0.95 KIP	23 IN	(1) #5
		60 PSF	41.42 PSF	5.25 FT	0.34 KIP	3.46 KIP	0.62 KIP	1.86 KIP	3.54 KIP	0.86 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	12.75 FT	1.02 KIP	3.15 KIP	0.41 KIP	5.36 KIP	3.80 KIP	2.47 KIP	29 IN	(2) #5
		10 PSF	6.87 PSF	12.75 FT	1.02 KIP	3.51 KIP	0.41 KIP	5.36 KIP	4.17 KIP	2.47 KIP	29 IN	(2) #5
		20 PSF	13.75 PSF	12.00 FT	0.96 KIP	3.88 KIP	0.39 KIP	5.04 KIP	4.27 KIP	2.32 KIP	28 IN	(2) #5
	90 MPH	30 PSF	20.62 PSF	10.50 FT	0.83 KIP	4.34 KIP	0.35 KIP	4.40 KIP	4.67 KIP	2.02 KIP	24 IN	(2) #5
		40 PSF	27.49 PSF	6.50 FT	0.50 KIP	3.24 KIP	0.58 KIP	2.66 KIP	3.41 KIP	1.22 KIP	23 IN	(1) #5
		50 PSF	34.36 PSF	5.75 FT	0.44 KIP	3.36 KIP	0.60 KIP	2.33 KIP	3.49 KIP	1.07 KIP	23 IN	(1) #5
		60 PSF	41.42 PSF	5.25 FT	0.39 KIP	3.52 KIP	0.62 KIP	2.10 KIP	3.61 KIP	0.96 KIP	24 IN	(2) #5
	—	0 PSF	0.00 PSF	11.50 FT	1.18 KIP	3.40 KIP	0.37 KIP	6.01 KIP	4.12 KIP	2.75 KIP	33 IN	(2) #5
		10 PSF	6.87 PSF	11.50 FT	1.18 KIP	3.72 KIP	0.38 KIP	6.01 KIP	4.45 KIP	2.75 KIP	33 IN	(2) #5
	_	20 PSF	13.75 PSF	11.50 FT	1.18 KIP	4.05 KIP	0.38 KIP	6.01 KIP	4.79 KIP	2.75 KIP	33 IN	(2) #5
		30 PSF	20.62 PSF	10.25 FT	1.05 KIP	4.48 KIP	0.34 KIP	5.34 KIP	4.87 KIP	2.44 KIP	29 IN	(2) #5
		40 PSF	27.49 PSF	6.50 FT	0.65 KIP	3.40 KIP	0.58 KIP	3.31 KIP	3.60 KIP	1.51 KIP	23 IN	(1) #5
		50 PSF	34.36 PSF	5.75 FT	0.57 KIP	3.50 KIP	0.60 KIP	2.90 KIP	3.65 KIP	1.32 KIP	23 IN	(1) #5
20°		60 PSF	41.42 PSF	5.25 FT	0.51 KIP	3.64 KIP	0.62 KIP	2.62 KIP	3.76 KIP	1.19 KIP	24 IN	(2) #5
20		0 PSF	0.00 PSF	10.50 FT	1.34 KIP	3.67 KIP	0.35 KIP	6.67 KIP	4.46 KIP	3.03 KIP	36 IN	(3) #5
		10 PSF	6.87 PSF	10.50 FT	1.34 KIP	3.96 KIP	0.35 KIP	6.67 KIP	4.76 KIP	3.03 KIP	36 IN	(3) #5
		20 PSF	13.75 PSF	10.50 FT	1.34 KIP	4.25 KIP	0.35 KIP	6.67 KIP	5.06 KIP	3.03 KIP	36 IN	(3) #5
	110 MPH	30 PSF	20.62 PSF	9.75 FT	1.24 KIP	4.52 KIP	0.33 KIP	6.18 KIP	4.97 KIP	2.81 KIP	34 IN	(2) #5
		40 PSF	27.49 PSF	6.50 FT	0.81 KIP	3.57 KIP	0.58 KIP	4.04 KIP	3.81 KIP	1.83 KIP	23 IN	(1) #5
		50 PSF	34.36 PSF	5.75 FT	0.71 KIP	3.65 KIP	0.60 KIP	3.53 KIP	3.84 KIP	1.60 KIP	23 IN	(1) #5
		60 PSF	41.42 PSF	5.25 FT	0.64 KIP	3.78 KIP	0.62 KIP	3.19 KIP	3.93 KIP	1.44 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	9.50 FT	1.48 KIP	3.87 KIP	0.32 KIP	7.20 KIP	4.71 KIP	3.26 KIP	39 IN	(3) #5
		10 PSF	6.87 PSF	9.50 FT	1.48 KIP	4.14 KIP	0.32 KIP	7.20 KIP	4.99 KIP	3.26 KIP	39 IN	(3) #5
		20 PSF	13.75 PSF	9.50 FT	1.48 KIP	4.40 KIP	0.32 KIP	7.20 KIP	5.26 KIP	3.26 KIP	39 IN	(3) #5
	120 MPH	30 PSF	20.62 PSF	9.00 FT	1.40 KIP	4.43 KIP	0.31 KIP	6.81 KIP	5.23 KIP	3.08 KIP	37 IN	(3) #5
		40 PSF	27.49 PSF	6.50 FT	0.99 KIP	3.76 KIP	0.58 KIP	4.83 KIP	4.04 KIP	2.18 KIP	27 IN	(2) #5
		50 PSF	34.36 PSF	5.75 FT	0.87 KIP	3.81 KIP	0.60 KIP	4.23 KIP	4.04 KIP	1.90 KIP	23 IN	(1) #5
		60 PSF	41.42 PSF	5.25 FT	0.78 KIP	3.93 KIP	0.62 KIP	3.82 KIP	4.11 KIP	1.71 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	8.25 FT	1.52 KIP	3.88 KIP	0.29 KIP	7.32 KIP	4.72 KIP	3.30 KIP	40 IN	(3) #5
		10 PSF	6.87 PSF	8.25 FT	1.52 KIP	4.11 KIP		7.32 KIP	4.95 KIP	3.30 KIP	40 IN	(3) #5
		20 PSF			1.52 KIP	4.34 KIP		7.32 KIP	5.19 KIP	3.30 KIP	40 IN	(3) #5
	130 MPH		20.62 PSF		1.52 KIP	4.57 KIP		7.32 KIP	5.42 KIP	3.30 KIP	40 IN	(3) #5
			27.49 PSF	6.50 FT	1.18 KIP	3.96 KIP		5.69 KIP		2.56 KIP	31 IN	(2) #5
			34.36 PSF		1.04 KIP	3.99 KIP		4.98 KIP		2.23 KIP	27 IN	(2) #5
			41.42 PSF			4.09 KIP		4.50 KIP		2.01 KIP	25 IN	(2) #5
	<u> </u>				· · · · · · ·			,			•	\-,

ASCE 7-10 W/ SEISMIC DESIGN												
TII T	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTIO	N	RI	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.25 FT	0.98 KIP	3.09 KIP	0.42 KIP	5.19 KIP	3.73 KIP	2.39 KIP	27 IN	(2) #5
		10 PSF	6.87 PSF	13.25 FT	0.98 KIP	3.46 KIP	0.42 KIP	5.19 KIP	4.11 KIP	2.39 KIP	27 IN	(2) #5
		20 PSF	13.75 PSF	12.00 FT	0.88 KIP	3.80 KIP	0.39 KIP	4.69 KIP	4.14 KIP	2.16 KIP	25 IN	(2) #5
	110 MPH	30 PSF	20.62 PSF	10.50 FT	0.77 KIP	4.26 KIP	0.35 KIP	4.09 KIP	4.58 KIP	1.89 KIP	22 IN	(1) #5
		40 PSF	27.49 PSF	6.50 FT	0.46 KIP	3.20 KIP	0.58 KIP	2.47 KIP	3.35 KIP	1.14 KIP	23 IN	(1) #5
		50 PSF	34.36 PSF	5.75 FT	0.40 KIP	3.32 KIP	0.60 KIP	2.16 KIP	3.44 KIP	0.99 KIP	23 IN	(1) #5
		60 PSF	41.42 PSF	5.25 FT	0.36 KIP	3.48 KIP	0.62 KIP	1.96 KIP	3.57 KIP	0.90 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	12.75 FT	1.05 KIP	3.20 KIP	0.41 KIP	5.48 KIP	3.87 KIP	2.52 KIP	29 IN	(2) #5
		10 PSF	6.87 PSF	12.75 FT	1.05 KIP	3.56 KIP	0.41 KIP	5.48 KIP	4.24 KIP	2.52 KIP	29 IN	(2) #5
		20 PSF	13.75 PSF	11.75 FT	0.96 KIP	3.82 KIP	0.38 KIP	5.04 KIP	4.24 KIP	2.32 KIP	26 IN	(2) #5
	115 MPH	30 PSF	20.62 PSF	10.50 FT	0.86 KIP	4.36 KIP	0.35 KIP	4.49 KIP	4.70 KIP	2.07 KIP	24 IN	(2) #5
		40 PSF	27.49 PSF	6.50 FT	0.51 KIP	3.26 KIP	0.58 KIP	2.72 KIP	3.42 KIP	1.25 KIP	23 IN	(1) #5
	- ⊢	50 PSF	34.36 PSF	5.75 FT	0.45 KIP	3.38 KIP	0.60 KIP	2.38 KIP	3.50 KIP	1.09 KIP	23 IN	(1) #5
		60 PSF	41.42 PSF	5.25 FT	0.40 KIP	3.53 KIP	0.62 KIP	2.15 KIP	3.62 KIP	0.98 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	11.25 FT	1.23 KIP	3.49 KIP	0.37 KIP	6.22 KIP	4.23 KIP	2.84 KIP	33 IN	(2) #5
		10 PSF	6.87 PSF	11.25 FT	1.23 KIP	3.80 KIP	0.37 KIP	6.22 KIP	4.56 KIP	2.84 KIP	33 IN	(2) #5
		20 PSF	13.75 PSF	11.25 FT	1.23 KIP	4.12 KIP	0.37 KIP	6.22 KIP	4.88 KIP	2.84 KIP	33 IN	(2) #5
		30 PSF	20.62 PSF	10.00 FT	1.09 KIP	4.44 KIP	0.34 KIP	5.51 KIP	4.84 KIP	2.52 KIP	29 IN	(2) #5
		40 PSF	27.49 PSF	6.50 FT	0.69 KIP	3.44 KIP		3.51 KIP	3.66 KIP	1.59 KIP	23 IN	(1) #5
		50 PSF	34.36 PSF	5.75 FT	0.60 KIP	3.54 KIP	0.60 KIP	3.07 KIP	3.70 KIP	1.39 KIP	23 IN	(1) #5
20°		60 PSF	41.42 PSF	5.25 FT	0.55 KIP	3.68 KIP	0.62 KIP	2.77 KIP	3.80 KIP	1.25 KIP	24 IN	(2) #5
20		0 PSF	0.00 PSF	10.25 FT	1.33 KIP	3.62 KIP		6.59 KIP	4.40 KIP	3.00 KIP	35 IN	(2) #5
		10 PSF	6.87 PSF	10.25 FT	1.33 KIP	3.90 KIP	0.34 KIP	6.59 KIP	4.69 KIP	3.00 KIP	35 IN	(2) #5
		20 PSF	13.75 PSF	10.25 FT	1.33 KIP	4.19 KIP	0.34 KIP	6.59 KIP	4.99 KIP	3.00 KIP	35 IN	(2) #5
	140 MPH	30 PSF	20.62 PSF	9.75 FT	1.26 KIP	4.54 KIP	0.33 KIP	6.26 KIP	5.02 KIP	2.84 KIP	33 IN	(2) #5
		40 PSF	27.49 PSF	6.50 FT	0.82 KIP	3.58 KIP	0.58 KIP	4.09 KIP	3.82 KIP	1.85 KIP	23 IN	(1) #5
			34.36 PSF	5.75 FT	0.72 KIP	3.66 KIP		3.58 KIP	3.85 KIP	1.62 KIP	23 IN	(1) #5
		60 PSF	41.42 PSF	5.25 FT	0.65 KIP	3.79 KIP	0.62 KIP	3.24 KIP	3.94 KIP	1.46 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	9.75 FT	1.48 KIP	<u> </u>		7.21 KIP	4.74 KIP	3.27 KIP	38 IN	(3) #5
		10 PSF	6.87 PSF	9.75 FT	1.48 KIP	4.16 KIP		7.21 KIP	5.02 KIP	3.27 KIP	38 IN	(3) #5
				9.75 FT	1.48 KIP	4.44 KIP		7.21 KIP	5.30 KIP	3.27 KIP	38 IN	(3) #5
	150 MPH		20.62 PSF		1.40 KIP	4.52 KIP		6.83 KIP	5.28 KIP	3.09 KIP	36 IN	(3) #5
			27.49 PSF	6.50 FT	0.96 KIP	3.73 KIP		4.71 KIP	4.01 KIP	2.13 KIP	25 IN	(2) #5
			34.36 PSF		0.84 KIP	3.79 KIP		4.13 KIP	4.01 KIP	1.86 KIP	23 IN	(1) #5
				5.25 FT	0.76 KIP	3.91 KIP		3.73 KIP	4.08 KIP	1.67 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	9.00 FT	1.57 KIP	4.03 KIP		7.58 KIP	4.91 KIP	3. 4 2 KIP	40 IN	(3) #5
		10 PSF	6.87 PSF	9.00 FT	1.57 KIP	4.28 KIP		7.58 KIP	5.17 KIP	3.42 KIP	40 IN	(3) #5
		20 PSF	 	8.75 FT	1.52 KIP	4.41 KIP		7.36 KIP	5.27 KIP	3.32 KIP	39 IN	(3) #5
	160 MPH		20.62 PSF	8.50 FT	1.48 KIP	4.52 KIP		7.14 KIP	5.36 KIP	3.22 KIP	38 IN	(3) #5
	2		27.49 PSF		1.11 KIP	3.89 KIP		5.38 KIP	4.21 KIP	2.42 KIP	28 IN	(2) #5
				5.75 FT	0.98 KIP	3.93 KIP		4.71 KIP	4.18 KIP	2.11 KIP	25 IN	(2) #5
L		60 PSF	41.42 PSF	5.25 FT	0.88 KIP	4.03 KIP	0.62 KIP	4.26 KIP	4.24 KIP	1.90 KIP	24 IN	(2) #5

_	NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
	0	BushBr 9/27/2014				New Drawing
	1	BushBr 3/5/2015				Adjusted Notes & Threaded Rods
	2	BushBr 11/5/2015				Change Foundation Size, Dead Load Max, Update 2015
	3	BushBr 11/17/2015				Change Foundation Size
.,	4					
K	5					
	6					
	7					
	R					



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1001 COMMERCE CENTER DR. | SHELBY, NC 28150 TEL: (704) 595 - 4200 | Fax: (704) 595 - 4210 EMAIL: MAIL@SCHLETTER.US WWW.SCHLETTER.US

Standard PvMax, 60 Cell, 15° - 35° Racking Structure

Snow, Wind, Alignment, Tables 20°

ISSUED BY: SCHLETTER INC.
PROPRIETARY AND CONFIDENTIAL

Project Site: Schletter Inc

1001 Commerce Center Dr Shelby, NC 28150 Drawing Number:

JOB NUMBER: V

JOB NUMBER: V SCALE:
SHEET: 4b of 4 SEE DRAWING VIEWS

Slop	e Factor By Tilt
Tilt	Cs
15°	1.00
20°	0.91
25°	0.82
30°	0.73
35°	0.64

						ASCE 7-05						
	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTION	N	R	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.25 FT	0.49 KIP	2.70 KIP	0.00 KIP	5.32 KIP	3.86 KIP	2.90 KIP	28 IN	(2) #5
		10 PSF	6.19 PSF	13.25 FT	0.49 KIP	3.02 KIP	0.01 KIP	5.32 KIP	4.18 KIP	2.90 KIP	28 IN	(2) #5
		20 PSF	12.37 PSF	12.25 FT	0.45 KIP	3.41 KIP	0.01 KIP	4.91 KIP	4.16 KIP	2.68 KIP	26 IN	(2) #5
	85 MPH	30 PSF	18.56 PSF	10.75 FT	0.39 KIP	3.83 KIP	0.02 KIP	4.29 KIP	4.29 KIP	2.34 KIP	23 IN	(1) #5
		40 PSF	24.74 PSF	9.75 FT	0.35 KIP	4.24 KIP	0.02 KIP	3.88 KIP	4.64 KIP	2.12 KIP	21 IN	(1) #5
		50 PSF	30.39 PSF	9.00 FT	0.32 KIP	4.61 KIP	0.02 KIP	3.57 KIP	4.97 KIP	1.95 KIP	19 IN	(1) #5
		60 PSF	37.11 PSF	8.25 FT	0.29 KIP	4.87 KIP	0.02 KIP	3.26 KIP	5.17 KIP	1.78 KIP	18 IN	(1) #5
		0 PSF	0.00 PSF	12.50 FT	0.54 KIP	2.79 KIP	0.00 KIP	5.64 KIP	4.02 KIP	3.07 KIP	30 IN	(2) #5
		10 PSF	6.19 PSF	12.50 FT	0.54 KIP	3.10 KIP	0.01 KIP	5.64 KIP	4.32 KIP	3.07 KIP	30 IN	(2) #5
		20 PSF	12.37 PSF	12.00 FT	0.52 KIP	3.46 KIP	0.01 KIP	5.41 KIP	4.44 KIP	2.94 KIP	29 IN	(2) #5
	90 MPH	30 PSF	18.56 PSF	10.75 FT	0.46 KIP	3.94 KIP	0.02 KIP	4.84 KIP	4.45 KIP	2.63 KIP	26 IN	(2) #5
		40 PSF	24.74 PSF	9.50 FT	0.41 KIP	4.22 KIP	0.02 KIP	4.26 KIP	4.66 KIP	2.32 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF	8.75 FT	0.37 KIP	4.57 KIP	0.02 KIP	3.91 KIP	4.95 KIP	2.13 KIP	21 IN	(1) #5
		60 PSF	37.11 PSF	8.25 FT	0.35 KIP	4.95 KIP	0.02 KIP	3.68 KIP	5.29 KIP	2.00 KIP	20 IN	(1) #5
		0 PSF	0.00 PSF	11.25 FT	0.65 KIP	3.00 KIP	0.00 KIP	6.31 KIP	4.35 KIP	3.41 KIP	34 IN	(2) #5
		10 PSF	6.19 PSF	11.25 FT		3.27 KIP	0.01 KIP	6.31 KIP	4.63 KIP	3.41 KIP	34 IN	(2) #5
		20 PSF	12.37 PSF	11.25 FT	0.65 KIP	3.55 KIP	0.01 KIP	6.31 KIP	4.90 KIP	3.41 KIP	34 IN	(2) #5
	100 MPH	30 PSF	18.56 PSF	10.25 FT	0.59 KIP	3.97 KIP	0.01 KIP	5.73 KIP	4.71 KIP	3.10 KIP	31 IN	(2) #5
		40 PSF	24.74 PSF	9.25 FT	0.53 KIP	4.31 KIP	0.02 KIP	5.16 KIP	4.83 KIP	2.78 KIP	28 IN	(2) #5
		50 PSF	30.39 PSF	8.75 FT	0.50 KIP	4.76 KIP	0.02 KIP	4.87 KIP	5.24 KIP	2.63 KIP	26 IN	(2) #5
25°		60 PSF	37.11 PSF	8.00 FT	0.45 KIP	4.97 KIP	.	4.43 KIP	5.39 KIP	2.39 KIP	24 IN	(2) #5
20		0 PSF	0.00 PSF	10.25 FT	0.76 KIP	3.22 KIP		6.98 KIP	4.70 KIP	3.75 KIP	37 IN	(3) #5
		10 PSF	6.19 PSF	10.25 FT		3.47 KIP		6.98 KIP	4.95 KIP	3.75 KIP	37 IN	(3) #5
		20 PSF	12.37 PSF	10.25 FT	0.76 KIP	3.72 KIP	0.01 KIP		5.20 KIP	3.75 KIP	37 IN	(3) #5
	110 MPH	30 PSF	18.56 PSF	10.00 FT		4.11 KIP		6.80 KIP	5.32 KIP	3.66 KIP	36 IN	(3) #5
		40 PSF	24.74 PSF	9.25 FT	0.68 KIP	4.53 KIP		6.28 KIP	5.17 KIP	3.37 KIP	33 IN	(2) #5
		50 PSF	30.39 PSF	8.50 FT	0.62 KIP	4.82 KIP		5.75 KIP	5.39 KIP	3.09 KIP	31 IN	(2) #5
			37.11 PSF			5.16 KIP		5.40 KIP	5.67 KIP	2.90 KIP	29 IN	(2) #5
		0 PSF	0.00 PSF		0.82 KIP			7.29 KIP	4.83 KIP	3.91 KIP	39 IN	(3) #5
			6.19 PSF	9.00 FT		3.51 KIP	0.00 KIP		5.05 KIP	3.91 KIP	39 IN	(3) #5
			12.37 PSF		0.82 KIP	3.73 KIP	0.01 KIP		5.26 KIP	3.91 KIP	39 IN	(3) #5
	120 MPH		18.56 PSF		0.82 KIP	3.95 KIP	0.01 KIP		5.48 KIP	3.91 KIP	39 IN	(3) #5
			24.74 PSF		0.79 KIP	4.51 KIP		7.08 KIP	5.53 KIP	3.79 KIP	38 IN	(3) #5
			30.39 PSF		0.75 KIP	4.89 KIP	0.01 KIP		5.55 KIP	3.57 KIP	35 IN	(2) #5
			37.11 PSF		0.68 KIP	5.03 KIP	0.01 KIP		5.59 KIP	3.22 KIP	32 IN	(2) #5
		0 PSF	0.00 PSF	7.75 FT	0.85 KIP	3.26 KIP	0.00 KIP		4.79 KIP	3.92 KIP	39 IN	(3) #5
			6.19 PSF	7.75 FT	0.85 KIP	3.45 KIP	0.00 KIP		4.98 KIP	3.92 KIP	39 IN	(3) #5
			12.37 PSF		0.85 KIP	3.64 KIP	0.01 KIP		5.16 KIP	3.92 KIP	39 IN	(3) #5
	130 MPH		18.56 PSF		0.85 KIP	3.83 KIP	0.01 KIP		5.35 KIP	3.92 KIP	39 IN	(3) #5
			24.74 PSF		0.85 KIP	4.21 KIP	0.01 KIP		5.54 KIP	3.92 KIP	39 IN	(3) #5
	5		30.39 PSF			4.81 KIP	0.01 KIP		5.72 KIP	3.92 KIP	39 IN	(3) #5
		60 PSF	37.11 PSF	7.25 F I	U.79 KIP	5.06 KIP	0.01 KIP	6.85 KIP	5.70 KIP	3.65 KIP	37 IN	(3) #5

						ASCE 7-10						1
	MAX	GROUND	ROOF	MAX	FF	ONT CONNECTION	N	RI	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.00 FT	0.51 KIP	2.74 KIP	0.00 KIP	5.47 KIP	3.94 KIP	2.98 KIP	28 IN	(2) #5
		10 PSF	6.19 PSF	13.00 FT		3.06 KIP		5.47 KIP	4.25 KIP	2.98 KIP	28 IN	(2) #5
		20 PSF	12.37 PSF	12.25 FT		3.45 KIP		5.15 KIP	4.31 KIP	2.80 KIP	26 IN	(2) #5
	110 MPH	30 PSF	18.56 PSF		0.42 KIP	3.87 KIP		4.50 KIP	4.35 KIP	2.45 KIP	23 IN	(1) #5
		40 PSF	24.74 PSF	9.75 FT	0.38 KIP	4.27 KIP	0.02 KIP	4.07 KIP	4.69 KIP	2.22 KIP	21 IN	(1) #5
		50 PSF	30.39 PSF	9.00 FT	0.35 KIP	4.65 KIP	0.02 KIP	3.75 KIP	5.02 KIP	2.04 KIP	19 IN	(1) #5
		60 PSF	37.11 PSF	8.25 FT	0.32 KIP	4.90 KIP	0.02 KIP	3.42 KIP	5.22 KIP	1.86 KIP	18 IN	(1) #5
		0 PSF	0.00 PSF	12.25 FT	0.55 KIP	2.78 KIP	0.00 KIP	5.65 KIP	4.01 KIP	3.07 KIP	29 IN	(2) #5
		10 PSF	6.19 PSF	12.25 FT	0.55 KIP	3.08 KIP	0.01 KIP	5.65 KIP	4.31 KIP	3.07 KIP	29 IN	(2) #5
		20 PSF	12.37 PSF	12.00 FT	0.54 KIP	3.48 KIP	0.01 KIP	5.53 KIP	4.51 KIP	3.00 KIP	28 IN	(2) #5
	115 MPH	30 PSF	18.56 PSF	10.50 FT	0.47 KIP	3.87 KIP	0.02 KIP	4.82 KIP	4.38 KIP	2.62 KIP	25 IN	(2) #5
		40 PSF	24.74 PSF	9.50 FT	0.42 KIP	4.24 KIP	0.02 KIP	4.35 KIP	4.69 KIP	2.36 KIP	22 IN	(1) #5
		50 PSF	30.39 PSF	8.75 FT	0.38 KIP	4.59 KIP	0.02 KIP	4.00 KIP	4.98 KIP	2.17 KIP	21 IN	(1) #5
		60 PSF	37.11 PSF	8.25 FT	0.36 KIP	4.97 KIP	0.02 KIP	3.76 KIP	5.32 KIP	2.04 KIP	19 IN	(1) #5
		0 PSF	0.00 PSF	11.00 FT	0.68 KIP	3.07 KIP	0.00 KIP	6.52 KIP	4.47 KIP	3.52 KIP	33 IN	(2) #5
		10 PSF	6.19 PSF	11.00 FT	0.68 KIP	3.34 KIP	0.01 KIP	6.52 KIP	4.74 KIP	3.52 KIP	33 IN	(2) #5
	130 MPH	20 PSF	12.37 PSF	11.00 FT	0.68 KIP	3.61 KIP	0.01 KIP	6.52 KIP	5.01 KIP	3.52 KIP	33 IN	(2) #5
		30 PSF	18.56 PSF	10.25 FT	0.64 KIP	4.04 KIP	0.01 KIP	6.07 KIP	4.91 KIP	3.27 KIP	31 IN	(2) #5
		40 PSF	24.74 PSF	9.25 FT	0.57 KIP	4.37 KIP	0.02 KIP	5.46 KIP	4.92 KIP	2.94 KIP	28 IN	(2) #5
		50 PSF	30.39 PSF	8.50 FT	0.52 KIP	4.67 KIP	0.02 KIP	5.00 KIP	5.17 KIP	2.69 KIP	26 IN	(2) #5
25°		60 PSF	37.11 PSF	8.00 FT	0.49 KIP	5.02 KIP	0.02 KIP	4.69 KIP	5.46 KIP	2.53 KIP	24 IN	(2) #5
20		0 PSF	0.00 PSF	10.25 FT		3.25 KIP		7.07 KIP	4.76 KIP	3.80 KIP	36 IN	(3) #5
		10 PSF	6.19 PSF		0.77 KIP	3.50 KIP		7.07 KIP	5.01 KIP	3.80 KIP	36 IN	(3) #5
		20 PSF	12.37 PSF	10.25 FT		3.75 KIP		7.07 KIP	5.26 KIP	3.80 KIP	36 IN	(3) #5
	140 MPH					4.13 KIP		6.89 KIP	5.37 KIP	3.70 KIP	35 IN	(2) #5
			24.74 PSF		0.67 KIP	4.42 KIP		6.18 KIP	5.05 KIP	3.32 KIP	32 IN	(2) #5
			30.39 PSF		0.63 KIP			5.82 KIP	5.41 KIP	3.13 KIP	30 IN	(2) #5
			37.11 PSF					5.29 KIP	5.51 KIP	2.84 KIP		(2) #5
		0 PSF	0.00 PSF	9.25 FT	0.82 KIP			7.32 KIP	4.86 KIP	3.92 KIP	37 IN	(3) #5
		10 PSF	6.19 PSF	9.25 FT	0.82 KIP			7.32 KIP	5.08 KIP	3.92 KIP	37 IN	(3) #5
			12.37 PSF	 	0.82 KIP			7.32 KIP	5.31 KIP	3.92 KIP	37 IN	(3) #5
	150 MPH		18.56 PSF		0.82 KIP			7.32 KIP	5.53 KIP	3.92 KIP	37 IN	(3) #5
			24.74 PSF		0.80 KIP	4.60 KIP		7.12 KIP	5.59 KIP	3.81 KIP	36 IN	(3) #5
			30.39 PSF		0.73 KIP	4.86 KIP		6.50 KIP	5.50 KIP	3.48 KIP	33 IN	(2) #5
			37.11 PSF		0.68 KIP			6.09 KIP	5.75 KIP	3.26 KIP	31 IN	(2) #5
		0 PSF	0.00 PSF	8.25 FT	0.85 KIP	3.31 KIP		7.42 KIP	4.86 KIP	3.96 KIP	38 IN	(3) #5
		10 PSF	6.19 PSF	8.25 FT	0.85 KIP			7.42 KIP	5.06 KIP	3.96 KIP	38 IN	(3) #5
			12.37 PSF		0.85 KIP			7.42 KIP	5.26 KIP	3.96 KIP	38 IN	(3) #5
	160 MPH		18.56 PSF		0.85 KIP	3.91 KIP		7.42 KIP	5.46 KIP	3.96 KIP	38 IN	(3) #5
			24.74 PSF		0.85 KIP			7.42 KIP	5.66 KIP	3.96 KIP	38 IN	(3) #5
			30.39 PSF		0.82 KIP			7.18 KIP	5.67 KIP	3.84 KIP	37 IN	(3) #5
		60 PSF	37.11 PSF	7.25 FT	0.74 KIP	4.99 KIP	0.01 KIP	6.48 KIP	5.59 KIP	3.45 KIP	33 IN	(2) #5

					ASCE	7-05 W/ SEISMI	C DESIG	N				
TILT	MAX	GROUND	ROOF	MAX		RONT CONNECTION			AR CONNECTION		BALLAST	# OF
1161	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.25 FT	0.49 KIP	2.70 KIP	0.45 KIP	5.32 KIP	3.86 KIP	2.90 KIP	28 IN	(2) #5
		10 PSF	6.19 PSF	13.25 FT	0.49 KIP	3.02 KIP	0.45 KIP	5.32 KIP	4.18 KIP	2.90 KIP	28 IN	(2) #5
		20 PSF	12.37 PSF	12.25 FT	0.45 KIP	3.41 KIP	0.43 KIP	4.91 KIP	4.16 KIP	2.68 KIP	26 IN	(2) #5
	85 MPH	30 PSF	18.56 PSF	10.75 FT	0.39 KIP	3.83 KIP	0.38 KIP	4.29 KIP	4.29 KIP	2.34 KIP	23 IN	(1) #5
		40 PSF	24.74 PSF	6.75 FT	0.24 KIP	2.93 KIP	0.64 KIP	2.64 KIP	3.15 KIP	1.44 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF	6.00 FT	0.30 KIP	3.06 KIP	0.66 KIP	2.32 KIP	3.22 KIP	1.26 KIP	24 IN	(2) #5
		60 PSF	37.11 PSF		0.35 KIP	3.22 KIP	0.69 KIP	2.11 KIP	3.33 KIP	1.15 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	12.50 FT		2.79 KIP	0.43 KIP	5.64 KIP	4.02 KIP	3.07 KIP	30 IN	(2) #5
		10 PSF	6.19 PSF	12.50 FT	0.54 KIP	3.10 KIP	0.43 KIP	5.64 KIP	4.32 KIP	3.07 KIP	30 IN	(2) #5
		20 PSF	12.37 PSF	12.00 FT	0.52 KIP	3.46 KIP	0.42 KIP	5.41 KIP	4.44 KIP	2.94 KIP	29 IN	(2) #5
	90 MPH	30 PSF	18.56 PSF			3.94 KIP		4.84 KIP	4.45 KIP	2.63 KIP	26 IN	(2) #5
		40 PSF	24.74 PSF			2.99 KIP	0.64 KIP	2.97 KIP	3.25 KIP	1.61 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF		0.30 KIP	3.12 KIP		2.62 KIP	3.31 KIP	1.42 KIP	24 IN	(2) #5
		60 PSF	37.11 PSF	5.50 FT	0.35 KIP	3.28 KIP	0.69 KIP	2.38 KIP	3.41 KIP	1.29 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	11.25 FT	0.65 KIP	3.00 KIP	0.39 KIP	6.31 KIP	4.35 KIP	3.41 KIP	34 IN	(2) #5
		10 PSF	6.19 PSF	11.25 FT	0.65 KIP	3.27 KIP	0.39 KIP	6.31 KIP	4.63 KIP	3.41 KIP	34 IN	(2) #5
	100 MPH	20 PSF	12.37 PSF	11.25 FT	0.65 KIP	3.55 KIP	0.40 KIP	6.31 KIP	4.90 KIP	3.41 KIP	34 IN	(2) #5
		30 PSF	18.56 PSF	10.25 FT	0.59 KIP	3.97 KIP	0.37 KIP	5.73 KIP	4.71 KIP	3.10 KIP	31 IN	(2) #5
		40 PSF	24.74 PSF	6.75 FT	0.38 KIP	3.14 KIP	0.64 KIP	3.70 KIP	3.47 KIP	1.99 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF	6.00 FT	0.33 KIP	3.24 KIP	0.66 KIP	3.26 KIP	3.50 KIP	1.75 KIP	24 IN	(2) #5
25°		60 PSF	37.11 PSF	5.50 FT	0.35 KIP	3.39 KIP	0.69 KIP	2.96 KIP	3.58 KIP	1.59 KIP	24 IN	(2) #5
20		0 PSF	0.00 PSF	10.25 FT	0.76 KIP	3.22 KIP	0.36 KIP	6.98 KIP	4.70 KIP	3.75 KIP	37 IN	(3) #5
		10 PSF	6.19 PSF	10.25 FT	0.76 KIP	3.47 KIP	0.37 KIP	6.98 KIP	4.95 KIP	3.75 KIP	37 IN	(3) #5
		20 PSF	12.37 PSF	10.25 FT	0.76 KIP	3.72 KIP	0.37 KIP	6.98 KIP	5.20 KIP	3.75 KIP	37 IN	(3) #5
	110 MPH	30 PSF	18.56 PSF	10.00 FT	0.74 KIP	4.11 KIP	0.36 KIP	6.80 KIP	5.32 KIP	3.66 KIP	36 IN	(3) #5
		40 PSF	24.74 PSF	6.75 FT	0.49 KIP	3.29 KIP	0.64 KIP	4.51 KIP	3.71 KIP	2.42 KIP	24 IN	(2) #5
		50 PSF	30.39 PSF	6.00 FT	0.43 KIP	3.38 KIP	0.66 KIP	3.97 KIP	3.71 KIP	2.12 KIP	24 IN	(2) #5
			37.11 PSF			3.52 KIP		3.61 KIP	3.78 KIP	1.92 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	9.00 FT	0.82 KIP	3.29 KIP	0.33 KIP	7.29 KIP	4.83 KIP	3.91 KIP	39 IN	(3) #5
		10 PSF			0.82 KIP	3.51 KIP		7.29 KIP	5.05 KIP	3.91 KIP	39 IN	(3) #5
		20 PSF				3.73 KIP	0.33 KIP	7.29 KIP	5.26 KIP	3.91 KIP	39 IN	(3) #5
	120 MPH	30 PSF	18.56 PSF	9.00 FT	0.82 KIP	3.95 KIP	0.33 KIP	7.29 KIP	5.48 KIP	3.91 KIP	39 IN	(3) #5
			24.74 PSF	-	0.60 KIP	3.47 KIP	0.64 KIP	5.39 KIP	4.21 KIP	2.88 KIP	29 IN	(2) #5
		50 PSF	30.39 PSF	6.00 FT	0.53 KIP	3.54 KIP		4.74 KIP	3.94 KIP	2.53 KIP	25 IN	(2) #5
		60 PSF	37.11 PSF	5.50 FT	0.49 KIP	3.66 KIP		4.31 KIP	3.99 KIP	2.29 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	7.75 FT	0.85 KIP	3.26 KIP	0.29 KIP	7.35 KIP	4.79 KIP	3.92 KIP	39 IN	(3) #5
		10 PSF	6.19 PSF	7.75 FT	0.85 KIP	3.45 KIP	0.29 KIP	7.35 KIP	4.98 KIP	3.92 KIP	39 IN	(3) #5
			12.37 PSF		0.85 KIP	3.64 KIP	0.29 KIP	7.35 KIP	5.16 K I P	3.92 KIP	39 IN	(3) #5
	130 MPH	30 PSF	18.56 PSF	7.75 FT	0.85 KIP	3.83 KIP	0.29 KIP	7.35 KIP	5.35 KIP	3.92 KIP	39 IN	(3) #5
		40 PSF	24.74 PSF	6.75 FT	0.73 KIP	3.66 KIP	0.64 KIP	6.35 KIP	4.78 KIP	3.38 KIP	34 IN	(2) #5
		50 PSF	30.39 PSF	6.00 FT	0.65 KIP	3.70 KIP	0.66 KIP	5.59 KIP	4.34 KIP	2.97 KIP	30 IN	(2) #5
		60 PSF	37.11 PSF	5.50 FT	0.59 KIP	3.81 KIP	0.69 KIP	5.08 KIP	4.21 KIP	2.69 KIP	27 IN	(2) #5

						7-10 W/ SEISMI			- 4 - 00 - 11 - 071/	25.7	=	
TILT	MAX	GROUND		MAX		RONT CONNECTION			AR CONNECTION		BALLAST	# OF
	WIND	SNOW	SNOW	SPAN		COMPRESSION		 	COMPRESSION		WIDTH	REBAR
		0 PSF	0.00 PSF		0.51 KIP	2.74 KIP		5.47 KIP	3.94 KIP	2.98 KIP	28 IN	(2) #5
		10 PSF	6.19 PSF	13.00 FT		3.06 KIP		5.47 KIP	4.25 KIP	2.98 KIP	28 IN	(2) #5
		20 PSF	12.37 PSF		0.48 KIP	3.45 KIP		5.15 KIP	4.31 KIP	2.80 KIP	26 IN	(2) #5
	110 MPH	30 PSF	18.56 PSF		0.42 KIP	3.87 KIP		4.50 KIP	4.35 KIP	2.45 KIP	23 IN	(1) #5
				 	0.25 KIP	2.95 KIP		2.77 KIP	3.19 KIP	1.51 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF	6.00 FT	0.30 KIP	3.08 KIP		2.44 KIP	3.25 KIP	1.32 KIP	24 IN	(2) #5
		60 PSF	37.11 PSF	•	0.35 KIP	3.24 KIP		2.21 KIP	3.36 KIP	1.20 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	12.25 FT	0.55 KIP	2.78 KIP	0.42 KIP	5.65 KIP	4.01 KIP	3.07 KIP	29 IN	(2) #5
		10 PSF	6.19 PSF	-	0.55 KIP	3.08 KIP		5.65 KIP	4.31 KIP	3.07 KIP	29 IN	(2) #5
		20 PSF	12.37 PSF			3.48 KIP		5.53 KIP	4.51 KIP	3.00 KIP	28 IN	(2) #5
	115 MPH	30 PSF	18.56 PSF			3.87 KIP		4.82 KIP	4.38 KIP	2.62 KIP	25 IN	(2) #5
			24.74 PSF	-	0.29 KIP	3.00 KIP		3.04 KIP	3.27 KIP	1.65 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF	6.00 FT	0.30 KIP	3.13 KIP	0.66 KIP	2.67 KIP	3.32 KIP	1.45 KIP	24 IN	(2) #5
		60 PSF	37.11 PSF	ļ	0.35 KIP	3.29 KIP		2.43 KIP	3.43 KIP	1.31 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	11.00 FT	0.68 KIP	3.07 KIP	0.39 KIP	6.52 KIP	4.47 KIP	3.52 KIP	33 IN	(2) #5
		10 PSF	6.19 PSF	11.00 FT	0.68 KIP	3.34 KIP	0.39 KIP	6.52 KIP	4.74 KIP	3.52 KIP	33 IN	(2) #5
		20 PSF	12.37 PSF	11.00 FT	0.68 KIP	3.61 KIP		6.52 KIP	5.01 KIP	3.52 KIP	33 IN	(2) #5
	130 MPH	30 PSF	18.56 PSF	10.25 FT	0.64 KIP	4.04 KIP	0.37 KIP	6.07 KIP	4.91 KIP	3.27 KIP	31 IN	(2) #5
		40 PSF	24.74 PSF	6.75 FT	0.41 KIP	3.18 KIP	0.64 KIP	3.92 KIP	3.53 KIP	2.11 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF	6.00 FT	0.36 KIP	3.28 KIP	0.66 KIP	3.45 KIP	3.55 KIP	1.85 KIP	24 IN	(2) #5
25°		60 PSF	37.11 PSF	5.50 FT	0.35 KIP	3.43 KIP	0.69 KIP	3.13 KIP	3.64 KIP	1.68 KIP	24 IN	(2) #5
20		0 PSF	0.00 PSF	10.25 FT	0.77 KIP	3.25 KIP	0.36 KIP	7.07 KIP	4.76 KIP	3.80 KIP	36 IN	(3) #5
		10 PSF	6.19 PSF	10.25 FT	0.77 KIP	3.50 KIP	0.37 KIP	7.07 KIP	5.01 KIP	3.80 KIP	36 IN	(3) #5
		20 PSF	12.37 PSF	10.25 FT	0.77 KIP	3.75 KIP	0.37 KIP	7.07 KIP	5.26 KIP	3.80 KIP	36 IN	(3) #5
	140 MPH	30 PSF	18.56 PSF	10.00 FT	0.75 KIP	4.13 KIP	0.36 KIP	6.89 KIP	5.37 KIP	3.70 KIP	35 IN	(2) #5
		40 PSF	24.74 PSF	6.75 FT	0.49 KIP	3.30 KIP	0.64 KIP	4.57 KIP	3.72 KIP	2.45 KIP	23 IN	(1) #5
		50 PSF	30.39 PSF	6.00 FT	0.44 KIP	3.39 KIP	0.66 KIP	4.02 KIP	3.72 KIP	2.15 KIP	24 IN	(2) #5
		60 PSF	37.11 PSF	5.50 FT	0.40 KIP	3.53 KIP	0.69 KIP	3.65 KIP	3.79 KIP	1.95 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	9.25 FT	0.82 KIP	3.31 KIP	0.33 KIP	7.32 KIP	4.86 KIP	3.92 KIP	37 IN	(3) #5
		10 PSF	6.19 PSF	9.25 FT	0.82 KIP	3.54 KIP	0.34 KIP	7.32 KIP	5.08 KIP	3.92 KIP	37 IN	(3) #5
			12.37 PSF		0.82 KIP	3.76 KIP	0.34 KIP	7.32 KIP	5.31 KIP	3.92 KIP	37 IN	(3) #5
	150 MPH	30 PSF	18.56 PSF	9.25 FT	0.82 KIP	4.01 KIP	0.34 KIP	7.32 KIP	5.53 KIP	3.92 KIP	37 IN	(3) #5
		40 PSF	24.74 PSF	6.75 FT	0.59 KIP	3.44 KIP	0.64 KIP	5.26 KIP	4.13 KIP	2.81 KIP	27 IN	(2) #5
		50 PSF	30.39 PSF	6.00 FT	0.52 KIP	3.52 KIP	0.66 KIP	4.63 KIP	3.91 KIP	2.47 KIP	24 IN	(2) #5
		60 PSF	37.11 PSF	5.50 FT	0.47 KIP	3.64 KIP	0.69 KIP	4.21 KIP	3.96 KIP	2.24 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	8.25 FT	0.85 KIP	3.31 KIP	0.30 KIP	7.42 KIP	4.86 KIP	3.96 KIP	38 IN	(3) #5
		10 PSF	6.19 PSF	8.25 FT	0.85 KIP	3.51 KIP	0.31 KIP	7.42 KIP	5.06 KIP	3.96 KIP	38 IN	(3) #5
		20 PSF	12.37 PSF	8.25 FT	0.85 KIP	3.71 KIP	0.31 KIP	7.42 KIP	5.26 KIP	3.96 KIP	38 IN	(3) #5
	160 MPH	30 PSF	18.56 PSF	8.25 FT	0.85 KIP	3.91 KIP	0.31 KIP	7.42 KIP	5.46 KIP	3.96 KIP	38 IN	(3) #5
		40 PSF	24.74 PSF	6.75 FT	0.69 KIP	3.59 KIP	0.64 KIP	6.00 KIP	4.57 KIP	3.20 KIP	31 IN	(2) #5
		50 PSF	30.39 PSF	6.00 FT	0.61 KIP	3.64 KIP	0.66 KIP	5.29 KIP	4.16 KIP	2.81 KIP	27 IN	(2) #5
		60 PSF	37.11 PSF	5.50 FT	0.55 KIP	3.76 KIP	0.69 KIP	4.80 KIP	4.13 KIP	2.55 KIP	25 IN	(2) #5

_	NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
	0	BushBr 9/27/2014				New Drawing
	1	BushBr 3/5/2015				Adjusted Notes & Threaded Rods
	2	BushBr 11/5/2015				Change Foundation Size, Dead Load Max, Update 2015
	3	BushBr 11/17/2015				Change Foundation Size
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K	5					
	6					
	7					
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1001 COMMERCE CENTER DR. | SHELBY, NC 28150 TEL: (704) 595 - 4200 | Fax: (704) 595 - 4210 EMAIL: MAIL@SCHLETTER.US WWW.SCHLETTER.US

Standard PvMax, 60 Cell, 15° - 35°
Racking Structure

Snow, Wind, Alignment, Tables 25°

ISSUED BY: SCHLETTER INC.
PROPRIETARY AND CONFIDENTIAL

Project Site:
Schletter Inc

Schletter Inc 1001 Commerce Center Dr Shelby, NC 28150 Drawing Number:

v.01

JOB NUMBER: V SHEET: 4c of 4 SCALE: SEE DRAWING VIEWS

						ASCE 7-05						
T11 T	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTION	N	R	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.00 FT	0.12 KIP	2.44 KIP	0.01 KIP	5.67 KIP	4.11 KIP	3.58 KIP	29 IN	(2) #5
		10 PSF	5.50 PSF	13.00 FT	0.12 KIP	2.71 KIP	0.01 KIP	5.67 KIP	4.37 KIP	3.58 KIP	29 IN	(2) #5
		20 PSF	11.00 PSF	12.50 FT	0.12 KIP	3.09 KIP	0.02 KIP	5.45 KIP	4.45 KIP	3.44 KIP	28 IN	(2) #5
	85 MPH	30 PSF	16.49 PSF			3.46 KIP	0.02 KIP	4.78 KIP	4.13 KIP	3.02 KIP	25 IN	(2) #5
		40 PSF	21.99 PSF	10.00 FT	0.09 KIP	3.82 KIP	0.02 KIP	4.33 KIP	4.32 KIP	2.74 KIP	23 IN	(1) #5
			27.49 PSF		0.08 KIP	4.15 KIP	0.02 KIP	4.00 KIP	4.57 KIP	2.52 KIP	21 IN	(1) #5
		60 PSF	32.99 PSF	8. 5 0 FT	0.07 KIP	4.39 KIP	0.02 KIP	3.66 KIP	4.73 KIP	2.31 KIP	19 IN	(1) #5
		0 PSF	0.00 PSF	12.25 FT		2.52 KIP		6.01 KIP	4.28 KIP	3.78 KIP	31 IN	(2) #5
		10 PSF	5.50 PSF			2.77 KIP		6.01 KIP	4.53 KIP	3.78 KIP	31 IN	(2) #5
			11.00 PSF			3.08 KIP		5.88 KIP	4.67 KIP	3.70 KIP	30 IN	(2) #5
	90 MPH		16.49 PSF			3.48 KIP		5.26 KIP	4.39 KIP	3.31 KIP	27 IN	(2) #5
			21.99 PSF	9.75 FT	0.12 KIP	3.81 KIP		4.76 KIP	4.37 KIP	2.99 KIP	25 IN	(2) #5
			27.49 PSF	9.00 FT	0.11 KIP	4.12 KIP	0.02 KIP	4.38 KIP	4.60 KIP	2.75 KIP	23 IN	(1) #5
		60 PSF	32.99 PSF	8.50 FT	0.10 KIP	4.46 KIP		4.12 KIP	4.87 KIP	2.59 KIP	21 IN	(1) #5
		0 PSF	0.00 PSF			2.69 KIP		6.69 KIP	4.64 KIP	4.19 KIP	35 IN	(2) #5
		10 PSF	5.50 PSF	11.00 FT		2.92 KIP		6.69 KIP	4.86 KIP	4.19 KIP	35 IN	(2) #5
	100 MPH		11.00 PSF			3.15 KIP		6.69 KIP	5.08 KIP	4.19 KIP	35 IN	(2) #5
			16.49 PSF			3.60 KIP		6.38 KIP	5.05 KIP	3.99 KIP	33 IN	(2) #5
			21.99 PSF	9.50 FT	0.19 KIP	3.90 KIP		5.76 KIP	4.75 KIP	3.60 KIP	30 IN	(2) #5
			27.49 PSF	9.00 FT	0.18 KIP	4.29 KIP	0.02 KIP	5.44 KIP	4.92 KIP	3.40 KIP	28 IN	(2) #5
			32.99 PSF	8.25 FT	0.16 KIP	4.49 KIP	0.02 KIP	4.97 KIP	5.01 KIP	3.11 KIP	26 IN	(2) #5
30°		00 PSF	0.00 PSF	9.50 FT	0.10 KIP	2.73 KIP	0.02 KIP	7.00 KIP	4.75 KIP	4.36 KIP	36 IN	(3) #5
		10 PSF	5.50 PSF	9.50 FT	0.27 KIP	2.93 KIP	0.00 KIP	7.00 KIP	4.94 KIP	4.36 KIP	36 IN	(3) #5
			11.00 PSF	9.50 FT	0.27 KIP	3.13 KIP	0.01 KIP	7.00 KIP	5.13 KIP	4.36 KIP	36 IN	(3) #5
	110 MPH		16.49 PSF	9.50 FT	0.27 KIP	3.47 KIP	0.01 KIP	7.00 KIP	5.32 KIP	4.36 KIP	36 IN	(3) #5
	110141111		21.99 PSF	9.30 FT	0.27 KIP	3.99 KIP		6.81 KIP	5.36 KIP	4.30 KIP	35 IN	(2) #5
			27.49 PSF	8.75 FT	0.24 KIP	4.36 KIP		6.43 KIP	5.23 KIP	4.00 KIP	33 IN	(2) #5
			32.99 PSF	8.00 FT	0.24 KIP	4.52 KIP		5.85 KIP	5.17 KIP	3.64 KIP	30 IN	(2) #5
		0 PSF	0.00 PSF		0.30 KIP			7.00 KIP	4.67 KIP	4.34 KIP	36 IN	(3) #5
			5.50 PSF		0.30 KIP	2.84 KIP		7.00 KIP	4.83 KIP	4.34 KIP	36 IN	(3) #5
			11.00 PSF					7.00 KIP				
	120 MPH					3.00 KIP 3.17 KIP		7.00 KIP	4.99 KIP	4.34 KIP	36 IN	(3) #5
	120 1915 17		16.49 PSF						5.14 KIP	4.34 KIP	36 IN	(3) #5
			21.99 PSF		0.30 KIP	3.64 KIP		7.00 KIP	5.30 KIP	4.34 KIP	36 IN	(3) #5
			27.49 PSF			4.18 KIP		7.00 KIP	5.46 KIP	4.34 KIP	36 IN	(3) #5
			32.99 PSF			4.71 KIP		7.00 KIP	5.62 KIP	4.34 KIP	36 IN	(3) #5
		0 PSF	0.00 PSF		0.32 KIP	2.59 KIP		6.88 KIP	4.53 KIP	4.25 KIP	36 IN	(3) #5
			5.50 PSF		0.32 KIP	2.73 KIP		6.88 KIP	4.66 KIP	4.25 KIP	36 IN	(3) #5
	400 3451		11.00 PSF		0.32 KIP	2.87 KIP		6.88 KIP	4.79 KIP	4.25 KIP	36 IN	(3) #5
	130 MPH		16.49 PSF		.	3.01 KIP		6.88 KIP	4.92 KIP	4.25 KIP	36 IN	(3) #5
			21.99 PSF			3.24 KIP		6.88 KIP	5.05 KIP	4.25 KIP	36 IN	(3) #5
			27.49 PSF			3.69 KIP		6.88 KIP	5.19 KIP	4.25 KIP	36 IN	(3) #5
		60 PSF	32.99 PSF	6.75 FT	0.32 KIP	4.14 KIP	0.01 KIP	6.88 KIP	5.32 KIP	4.25 KIP	36 IN	(3) #5

						ASCE 7-10						
	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTION)N	R	EAR CONNECTIO	N	BALLAST	# OF
TILT	WIND	SNOW	SNOW	SPAN		COMPRESSION	SHEAR		COMPRESSION	SHEAR	WIDTH	REBAR
	1112	0 PSF	0.00 PSF	12.75 FT	0.14 KIP	2.48 KIP	0.01 KIP	5.83 KIP	4.19 KIP	3.67 KIP	29 IN	(2) #5
		10 PSF	5.50 PSF		0.14 KIP	2.75 KIP		5.83 KIP	4.45 KIP	3.67 KIP	29 IN	(2) #5
		20 PSF	11.00 PSF			3.07 KIP		5.60 KIP	4.52 KIP	3.53 KIP	28 IN	(2) #5
	110 MPH	30 PSF	16.49 PSF		0.12 KIP	3.50 KIP		5.01 KIP	4.27 KIP	3.16 KIP	25 IN	(2) #5
			21.99 PSF		0.10 KIP	3.85 KIP		4.55 KIP	4.38 KIP	2.87 KIP	23 IN	(1) #5
			27.49 PSF	9.25 FT	0.09 KIP	4.18 KIP		4.19 KIP	4.63 KIP	2.64 KIP	21 IN	(1) #5
		60 PSF	32.99 PSF	8.50 FT	0.09 KIP	4.41 KIP		3.84 KIP	4.78 KIP	2.42 KIP	19 IN	(1) #5
		0 PSF	0.00 PSF	12.00 FT		2.51 KIP		6.01 KIP	4.27 KIP	3.78 KIP	30 IN	(2) #5
		10 PSF	5.50 PSF		0.16 KIP	2.76 KIP		6.01 KIP	4.51 KIP	3.78 KIP	30 IN	(2) #5
		20 PSF	11.00 PSF	12.00 FT		3.10 KIP		6.01 KIP	4.75 KIP	3.78 KIP	30 IN	(2) #5
	115 MPH	30 PSF	16.49 PSF			3.50 KIP	0.02 KIP	5.37 KIP	4.46 KIP	3.38 KIP	27 IN	(2) #5
			21.99 PSF	9.75 FT	0.13 KIP	3.83 KIP	0.02 KIP	4.86 KIP	4.40 KIP	3.05 KIP	24 IN	(2) #5
		50 PSF	27.49 PSF	9.00 FT	0.12 KIP	4.14 KIP	0.02 KIP	4.47 KIP	4.62 KIP	2.81 KIP	22 IN	(1) #5
		60 PSF	32.99 PSF	8.50 FT	0.11 KIP	4.48 KIP		4.21 KIP	4.89 KIP	2.65 KIP	21 IN	(1) #5
		0 PSF	0.00 PSF	10.50 FT	0.23 KIP	2.69 KIP	0.00 KIP	6.75 KIP	4.65 KIP	4.22 KIP	34 IN	(2) #5
		10 PSF	5.50 PSF	10.50 FT	0.23 KIP	2.91 KIP	0.01 KIP	6.75 KIP	4.86 KIP	4.22 KIP	34 IN	(2) #5
		20 PSF	11.00 PSF	10.50 FT	0.23 KIP	3.13 KIP	0.01 KIP	6.75 KIP	5.07 KIP	4.22 KIP	34 IN	(2) #5
	130 MPH	30 PSF	16.49 PSF	10.50 FT	0.23 KIP	3.66 KIP	0.02 KIP	6.75 KIP	5.28 KIP	4.22 KIP	34 IN	(2) #5
		40 PSF	21.99 PSF	9.50 FT	0.21 KIP	3.95 KIP	0.02 KIP	6.09 KIP	4.95 KIP	3.81 KIP	30 IN	(2) #5
		50 PSF	27.49 PSF	8.75 FT	0.19 KIP	4.23 KIP	0.02 KIP	5.59 KIP	4.87 KIP	3.49 KIP	28 IN	(2) #5
30°		60 PSF	32.99 PSF	8.25 FT	0.18 KIP	4.54 KIP	0.02 KIP	5.26 KIP	5.10 KIP	3.28 KIP	26 IN	(2) #5
30		0 PSF	0.00 PSF	9.25 FT	0.27 KIP	2.69 KIP	0.00 KIP	6.90 KIP	4.68 KIP	4.30 KIP	34 IN	(2) #5
		10 PSF	5.50 PSF	9.25 FT	0.27 KIP	2.88 KIP	0.01 KIP	6.90 KIP	4.86 KIP	4.30 KIP	34 IN	(2) #5
		20 PSF	11.00 PSF	9.25 FT	0.27 KIP	3.07 KIP	0.01 KIP	6.90 KIP	5.04 KIP	4.30 KIP	34 IN	(2) #5
	140 MPH	30 PSF	16.49 PSF	9.25 FT	0.27 KIP	3.39 KIP	0.01 KIP	6.90 KIP	5.23 KIP	4.30 KIP	34 IN	(2) #5
		40 PSF	21.99 PSF	9.25 FT	0.27 KIP	4.01 KIP	0.02 KIP	6.90 KIP	5.41 KIP	4.30 KIP	34 IN	(2) #5
			27.49 PSF	8.75 FT	0.25 KIP	4.38 KIP	-	6.51 KIP	5.28 KIP	4.05 KIP	32 IN	(2) #5
		60 PSF	32.99 PSF	8.00 FT	0.23 KIP	4.54 KIP	0.02 KIP	5.93 KIP	5.20 KIP	3.69 KIP	30 IN	(2) #5
		0 PSF	0.00 PSF		0.28 KIP	2.62 KIP		6.83 KIP	4.57 KIP	4.24 KIP		(2) #5
		10 PSF	5.50 PSF		0.28 KIP	2.78 KIP		6.83 KIP	4.73 KIP	4.24 KIP	+	(2) #5
			11.00 PSF		0.28 KIP	2.95 KIP		6.83 KIP	4.88 KIP	4.24 KIP	34 IN	(2) #5
	150 MPH	•••	16.49 PSF		0.28 KIP	3.12 KIP		6.83 KIP	5.04 KIP	4.24 KIP	34 IN	(2) #5
			21.99 PSF	8.00 FT	0.28 KIP	3.61 KIP		6.83 KIP	5.20 KIP	4.24 KIP	34 IN	(2) #5
			27.49 PSF		0.28 KIP	4.15 KIP		6.83 KIP	5.36 KIP	4.24 KIP	34 IN	(2) #5
			32.99 PSF		0.28 KIP	4.68 KIP		6.83 KIP	5.52 KIP	4.24 KIP	34 IN	(2) #5
		0 PSF	0.00 PSF	7.25 FT	0.31 KIP	2.65 KIP		7.02 KIP	4.64 KIP	4.34 KIP	35 IN	(2) #5
		10 PSF			0.31 KIP	2.80 KIP		7.02 KIP	4.79 KIP	4.34 KIP		(2) #5
			11.00 PSF	7.25 FT	0.31 KIP	2.96 KIP		7.02 KIP	4.93 KIP	4.34 KIP	35 IN	(2) #5
	160 MPH		16.49 PSF	7.25 FT	0.31 KIP	3.11 KIP		7.02 KIP	5.07 KIP	4.34 KIP	35 IN	(2) #5
			21.99 PSF		0.31 KIP	3.42 KIP		7.02 KIP	5.21 KIP	4.34 KIP	35 IN	(2) #5
			27.49 PSF		0.31 KIP	3.90 KIP		7.02 KIP	5.35 KIP	4.34 KIP	35 IN	(2) #5
		60 PSF	32.99 PSF	7.25 FT	0.31 KIP	4.38 KIP	0.01 K I P	7.02 KIP	5.50 KIP	4.34 KIP	35 IN	(2) #5

ASCE 7-05 W/ SEISMIC DESIGN												
TILT	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTIO	N	Ŕ	EAR CONNECTIO	N	BALLAST	# OF
	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	13.00 FT				5.67 KIP	4.11 KIP	3.58 KIP	29 IN	(2) #5
		10 PSF	5.50 PSF	13.00 FT	0.12 KIP		0.47 KIP	5.67 KIP	4.37 KIP	3.58 KIP	29 IN	(2) #5
		20 PSF	11.00 PSF	12.50 FT	0.12 KIP	3.09 KIP	0.46 KIP	5.45 KIP	4.45 KIP	3.44 KIP	28 IN	(2) #5
	85 MPH	30 PSF	16.49 PSF	11.00 FT	0.10 KIP	3.46 KIP	0.41 KIP	4.78 KIP	4.13 KIP	3.02 KIP	25 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.49 KIP	0.64 KIP	2.75 KIP	2.74 KIP	1.74 KIP	23 IN	(1) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	2.69 KIP	0.69 KIP	2.52 KIP	2.88 KIP	1.59 KIP	24 IN	(2) #5
		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	2.83 KIP	0.72 KIP	2.29 KIP	2.95 KIP	1.44 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	12.25 FT	0.16 KIP	2.52 KIP	0.45 KIP	6.01 KIP	4.28 KIP	3.78 KIP	31 IN	(2) #5
		10 PSF	5.50 PSF	12.25 FT	0.16 KIP	2.77 KIP	0.45 KIP	6.01 KIP	4.53 KIP	3.78 KIP	31 IN	(2) #5
		20 PSF	11.00 PSF	12.00 FT	0.15 KIP	3.08 KIP	0.44 KIP	5.88 KIP	4.67 KIP	3.70 KIP	30 IN	(2) #5
	90 MPH	30 PSF	16.49 PSF	10.75 FT	0.14 KIP	3.48 KIP	0.40 KIP	5.26 KIP	4.39 KIP	3.31 KIP	27 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.54 KIP	0.64 KIP	3.10 KIP	2.85 KIP	1.95 KIP	23 IN	(1) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	2.75 KIP	0.69 KIP	2.84 KIP	2.98 KIP	1.78 KIP	24 IN	(2) #5
		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	2.88 KIP	0.72 KIP	2.58 KIP	3.04 KIP	1.62 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	11.00 FT	0.22 KIP	2.69 KIP	0.41 KIP	6.69 KIP	4.64 KIP	4.19 KIP	35 IN	(2) #5
		10 PSF	5.50 PSF	11.00 FT	0.22 KIP	2.92 KIP	0.41 KIP	6.69 KIP	4.86 KIP	4.19 KIP	35 IN	(2) #5
	100 MPH	20 PSF	11.00 PSF	11.00 FT	0.22 KIP	3.15 KIP	0.41 KIP	6.69 KIP	5.08 KIP	4.19 KIP	35 IN	(2) #5
		30 PSF	16.49 PSF	10.50 FT	0.21 KIP	3.60 KIP	0.39 KIP	6.38 KIP	5.05 KIP	3.99 KIP	33 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.67 KIP	0.64 KIP	3.86 KIP	3.18 KIP	2.41 KIP	23 IN	(1) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	2.86 KIP	0.69 KIP	3.54 KIP	3.19 KIP	2.20 KIP	24 IN	(2) #5
30°		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	2.99 KIP	0.72 KIP	3.21 KIP	3.23 KIP	2.00 KIP	24 IN	(2) #5
30		0 PSF	0.00 PSF	9.50 FT	0.27 KIP	2.73 KIP	0.36 KIP	7.00 KIP	4.75 KIP	4.36 KIP	36 IN	(3) #5
		10 PSF	5.50 PSF	9.50 FT	0.27 KIP	2.93 KIP	0.36 KIP	7.00 KIP	4.94 KIP	4.36 KIP	36 IN	(3) #5
		20 PSF	11.00 PSF	9.50 FT	0.27 KIP	3.13 KIP	0.36 KIP	7.00 KIP	5.13 KIP	4.36 KIP	36 IN	(3) #5
	110 MPH	30 PSF	16.49 PSF	9.50 FT	0.27 KIP	3.47 KIP	0.36 KIP	7.00 KIP	5.32 KIP	4.36 KIP	36 IN	(3) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.81 KIP	0.64 KIP	4.69 KIP	3.69 KIP	2.92 KIP	24 IN	(2) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	2.99 KIP	0.69 KIP	4.30 KIP	3.50 KIP	2.67 KIP	24 IN	(2) #5
		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	3.10 KIP	0.72 KIP	3.91 KIP	3.44 KIP	2.42 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	8.00 FT	0.30 KIP	2.67 KIP	0.31 KIP	7.00 KIP	4.67 KIP	4.34 KIP	36 IN	(3) #5
		10 PSF	5.50 PSF	8.00 FT	0.30 KIP	2.84 KIP	0.31 KIP	7.00 KIP	4.83 KIP	4.34 KIP	36 IN	(3) #5
		20 PSF	11.00 PSF	8.00 FT	0.30 KIP	3.00 KIP	0.31 KIP	7.00 KIP	4.99 KIP	4.34 KIP	36 IN	(3) #5
	120 MPH	30 PSF	16.49 PSF	8.00 FT	0.30 KIP	3.17 KIP	0.31 KIP	7.00 KIP	5.14 KIP	4.34 KIP	36 IN	(3) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.96 KIP	0.64 KIP	5.61 KIP	4.25 KIP	3.47 KIP	29 IN	(2) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	3.13 KIP	0.69 KIP	5.14 KIP	4.01 KIP	3.18 KIP	27 IN	(2) #5
		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	3.23 KIP	0.72 KIP	4.67 KIP	3.74 KIP	2.88 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF		0.32 KIP	2.59 KIP	0.27 KIP	6.88 KIP	4.53 KIP	4.25 KIP	36 IN	(3) #5
		10 PSF	5.50 PSF	+	0.32 KIP	2.73 KIP	0.27 KIP	6.88 KIP	4.66 KIP	4.25 KIP	36 IN	(3) #5
			11.00 PSF	+	0.32 KIP			6.88 KIP	4.79 KIP	4.25 KIP		(3) #5
	130 MPH		16.49 PSF		0.32 KIP			6.88 KIP	4.92 KIP	4.25 KIP	36 IN	(3) #5
			21.99 PSF	+	0.30 KIP	3.12 KIP		6.60 KIP	4.85 KIP	4.08 KIP	34 IN	(2) #5
			27.49 PSF	•	0.37 KIP	<u> </u>		6.05 KIP	4.56 KIP	3.73 KIP	32 IN	(2) #5
			32.99 PSF		0.43 KIP			5.50 KIP	4.24 KIP	3.38 KIP		(2) #5

					ASCE	7-10 W/ SEISMI	DESIG	N				
TILT	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTIO	N	RE,	AR CONNECTIO	N	BALLAST	# OF
IILI	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION C	COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	12.75 FT	0.14 KIP	2.48 KIP	0.46 KIP	5.83 KIP	4.19 KIP	3.67 KIP	29 IN	(2) #5
		10 PSF	5.50 PSF	12.75 FT	0.14 KIP	2.75 KIP	0.46 KIP	5.83 KIP	4.45 KIP	3.67 KIP	29 IN	(2) #5
		20 PSF	11.00 PSF	12.25 FT	0.13 KIP	3.07 KIP	0.45 KIP	5.60 KIP	4.52 KIP	3.53 KIP	28 IN	(2) #5
	110 MPH	30 PSF	16.49 PSF	11.00 FT	0.12 KIP	3.50 KIP	0.41 KIP	5.01 KIP	4.27 KIP	3.16 KIP	25 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.51 KIP	0.64 KIP	2.89 KIP	2.78 KIP	1.82 KIP	23 IN	(1) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	2.71 KIP	0.69 KIP	2.65 KIP	2.92 KIP	1.66 KIP	24 IN	(2) #5
		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	2.85 KIP	0.72 KIP	2.40 KIP	2.98 KIP	1.51 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	12.00 FT	0.16 KIP	2.51 KIP	0.44 KIP	6.01 KIP	4.27 KIP	3.78 KIP	30 IN	(2) #5
		10 PSF	5.50 PSF	12.00 FT	0.16 KIP	2.76 KIP	0.44 KIP	6.01 KIP	4.51 KIP	3.78 KIP	30 IN	(2) #5
		20 PSF	11.00 PSF	12.00 FT	0.16 KIP	3.10 KIP	0.44 KIP	6.01 KIP	4.75 KIP	3.78 KIP	30 IN	(2) #5
	115 MPH	30 PSF	16.49 PSF	10.75 FT	0.14 KIP	3.50 KIP	0.40 KIP	5.37 KIP	4.46 KIP	3.38 KIP	27 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.55 KIP	0.64 KIP	3.17 KIP	2.87 KIP	1.99 KIP	23 IN	(1) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	2.76 KIP	0.69 KIP	2.90 KIP	3.00 KIP	1.82 KIP	24 IN	(2) #5
		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	2.89 KIP	0.72 KIP	2.64 KIP	3.05 KIP	1.65 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	10.50 FT	0.23 KIP	2.69 KIP	0.39 KIP	6.75 KIP	4.65 KIP	4.22 KIP	34 IN	(2) #5
	Į	10 PSF	5.50 PSF	10.50 FT	0.23 KIP	2.91 KIP	0.39 KIP	6.75 KIP	4.86 KIP	4.22 KIP	34 IN	(2) #5
		20 PSF	11.00 PSF	10.50 FT	0.23 KIP	3.13 KIP	0.39 KIP	6.75 KIP	5.07 KIP	4.22 KIP	34 IN	(2) #5
	130 MPH	30 PSF	16.49 PSF	10.50 FT	0.23 KIP	3.66 KIP	0.39 KIP	6.75 KIP	5.28 KIP	4.22 KIP	34 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.70 KIP	0.64 KIP	4.08 KIP	3.32 KIP	2.54 KIP	23 IN	(1) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	2.90 KIP	0.69 KIP	3.74 KIP	3.25 KIP	2.33 KIP	24 IN	(2) #5
30°		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	3.02 KIP	0.72 KIP	3.40 KIP	3.28 KIP	2.11 KIP	24 IN	(2) #5
30		0 PSF	0.00 PSF	9.25 FT	0.27 KIP	2.69 KIP	0.35 KIP	6.90 KIP	4.68 KIP	4.30 KIP	34 IN	(2) #5
		10 PSF	5.50 PSF	9.25 FT	0.27 KIP	2.88 KIP	0.35 KIP	6.90 KIP	4.86 KIP	4.30 KIP	34 IN	(2) #5
		20 PSF	11.00 PSF	9.25 FT	0.27 KIP	3.07 KIP	0.35 KIP	6.90 KIP	5.04 KIP	4.30 KIP	34 IN	(2) #5
	140 MPH	30 PSF	16.49 PSF	9.25 FT	0.27 KIP	3.39 KIP	0.35 KIP	6.90 KIP	5.23 KIP	4.30 KIP	34 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.82 KIP	0.64 KIP	4.75 KIP	3.73 KIP	2.95 KIP	24 IN	(2) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	3.00 KIP	0.69 KIP	4.36 KIP	3.53 KIP	2.70 KIP	24 IN	(2) #5
		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	3.11 KIP	0.72 KIP	3.96 KIP	3.45 KIP	2.45 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	8.00 FT	0.28 KIP	2.62 KIP	0.31 KIP	6.83 KIP	4.57 KIP	4.24 KIP	34 IN	(2) #5
		10 PSF	5.50 PSF	•	0.28 KIP	2.78 KIP	0.31 KIP	6.83 KIP	4.73 KIP	4.24 KIP	34 IN	(2) #5
			11.00 PSF		0.28 KIP	2.95 KIP	0.31 KIP	6.83 KIP	4.88 KIP	4.24 KIP	34 IN	(2) #5
	150 MPH	30 PSF	16.49 PSF	8.00 FT	0.28 KIP	3.12 KIP	0.31 KIP	6.83 KIP	5.04 KIP	4.24 KIP	34 IN	(2) #5
		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	2.93 KIP	0.64 KIP	5.48 KIP	4.16 KIP	3.39 KIP	27 IN	(2) #5
			27.49 PSF	.	0.37 KIP			5.02 KIP	3.93 KIP	3.10 KIP	25 IN	(2) #5
			32.99 PSF	5.50 FT	0.43 KIP	3.21 KIP		4.56 KIP	3.67 KIP	2.81 KIP	24 IN	(2) #5
		0 PSF	0.00 PSF	7.25 FT	0.31 KIP	2.65 KIP	0.29 KIP	7.02 KIP	4.64 KIP	4.34 KIP	35 IN	(2) #5
		10 PSF	5.50 PSF		0.31 KIP			7.02 KIP		4.34 KIP	35 IN	(2) #5
		20 PSF		7.25 FT	0.31 KIP	2.96 KIP		7.02 KIP	4.93 KIP	4.34 KIP	35 IN	(2) #5
l	160 MPH	30 PSF	16.49 PSF	7.25 FT	0.31 KIP	3.11 KIP	0.29 KIP	7.02 KIP	5.07 KIP	4.34 KIP	35 IN	(2) #5
ı		40 PSF	21.99 PSF	6.50 FT	0.30 KIP	3.06 KIP		6.25 KIP	4.63 KIP	3.86 KIP	31 IN	(2) #5
		50 PSF	27.49 PSF	6.00 FT	0.37 KIP	3.22 KIP	0.69 KIP	5.73 KIP	4.36 KIP	3.53 KIP	29 IN	(2) #5
l		60 PSF	32.99 PSF	5.50 FT	0.43 KIP	3.32 KIP	0.72 KIP	5.20 KIP	4.06 KIP	3.20 KIP	26 IN	(2) #5

-	NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
	0	BushBr 9/27/2014				New Drawing
	1	BushBr 3/5/2015				Adjusted Notes & Threaded Rods
	2	BushBr 11/5/2015				Change Foundation Size, Dead Load Max, Update 2015
	3	BushBr 11/17/2015				Change Foundation Size
.,	4					
K	5					
	6					
	7					



1001 COMMERCE CENTER DR. | SHELBY, NC 28150 TEL: (704) 595 - 4200 | Fax: (704) 595 - 4210 EMAIL: MAIL@SCHLETTER.US WWW.SCHLETTER.US

Standard PvMax, 60 Cell, 15° - 35° Racking Structure

Snow, Wind, Alignment, Tables 30° ISSUED BY: SCHLETTER INC.
PROPRIETARY AND CONFIDENTIAL

10

Project Site: Schletter Inc

1001 Commerce Center Dr Shelby, NC 28150

Drawing Number:

JOB NUMBER: V

SHEET: 4d of 4

SCALE: SEE DRAWING VIEWS

Slope	Factor By Tilt
Tilt	Cs
15°	1.00
20°	0.91
25°	0.82
30°	0.73
35°	0.64

TILT	MAX WIND	GROUND SNOW 0 PSF	ROOF SNOW	MAX		RONT CONNECTION	N	R	EAR CONNECTIO	N	BALLAŞT	# OF
	WIND		SNOW								1 17 01	
		0 PSF		SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
			0.00 PSF	12.75 FT	0.11 KIP	2.10 KIP	0.01 KIP	6.03 KIP	4.36 KIP	4.27 KIP	30 IN	(2) #5
		10 PSF	4.81 PSF	12.75 FT	0.11 KIP	2.32 KIP	0.01 KIP	6.03 KIP	4.56 KIP	4.27 KIP	30 IN	(2) #5
		20 PSF	9.62 PSF	12.25 FT	0.11 KIP	2.63 KIP	0.02 KIP	5.79 KIP	4.58 KIP	4.10 KIP	29 IN	(2) #5
	85 MPH	30 PSF	14.43 PSF	11.50 FT	0.10 KIP	3.11 KIP	0.02 KIP	5.42 KIP	4.47 KIP	3.84 KIP	27 IN	(2) #5
l		40 PSF	19.24 PSF	10.50 FT	0.10 KIP	3.44 KIP	0.02 KIP	4.94 KIP	4.24 KIP	3.50 KIP	25 IN	(2) #5
		50 PSF	24.05 PSF	9.50 FT	0.09 KIP	3.65 KIP	0.02 KIP	4.46 KIP	4.19 KIP	3.16 KIP	23 IN	(1) #5
		60 PSF	28.87 PSF	9.00 FT	0.08 KIP	3.96 KIP	0.02 KIP	4.21 KIP	4.41 KIP	2.98 KIP	21 IN	(1) #5
		0 PSF	0.00 PSF	12.00 FT	0.11 KIP	2.15 KIP	0.01 KIP	6.38 KIP	4.54 KIP	4.50 KIP	32 IN	(2) #5
		10 PSF	4.81 PSF	12.00 FT	0.11 KIP	2.36 KIP	0.01 KIP	6.38 KIP	4.73 KIP	4.50 KIP	32 IN	(2) #5
		20 PSF	9.62 PSF	11.75 FT	0.11 KIP	2.61 KIP	0.02 KIP	6.24 KIP	4.82 KIP	4.41 KIP	31 IN	(2) #5
	90 MPH [30 PSF	14.43 PSF	11.25 FT	0.10 KIP	3.13 KIP	0.02 KIP	5.97 KIP	4.79 KIP	4.21 KIP	30 IN	(2) #5
		40 PSF	19.24 PSF	10.25 FT	0.09 KIP	3.43 KIP	0.02 KIP	5.43 KIP	4.52 KIP	3.83 KIP	27 IN	(2) #5
		50 PSF	24.05 PSF	9.50 FT	0.09 KIP	3.72 KIP	0.02 KIP	5.02 KIP	4.36 KIP	3.54 KIP	25 IN	(2) #5
		60 PSF	28.87 PSF	9.00 FT	0.08 KIP	4.03 KIP	0.02 KIP	4.74 KIP	4.58 KIP	3.35 KIP	24 IN	(2) #5
	100 MPH	0 PSF	0.00 PSF	10.00 FT	0.09 KIP	2.13 KIP	0.00 KIP	6.57 KIP	4.57 KIP	4.62 KIP	33 IN	(2) #5
		10 PSF	4.81 PSF	10.00 FT	0.09 KIP	2.30 KIP	0.01 KIP	6.57 KIP	4.73 KIP	4.62 KIP	33 IN	(2) #5
		20 PSF	9.62 PSF	10.00 FT	0.09 KIP	2.48 KIP	0.01 KIP	6.57 KIP	4.89 KIP	4.62 KIP	33 IN	(2) #5
		30 PSF	14.43 PSF	10.00 FT	0.09 KIP	2.95 KIP	0.02 KIP	6.57 KIP	5.04 KIP	4.62 KIP	33 IN	(2) #5
		40 PSF	19.24 PSF	10.00 FT	0.09 KIP	3.51 KIP	0.02 KIP	6.57 KIP	5.20 KIP	4.62 KIP	33 IN	(2) #5
		50 PSF	24.05 PSF	9.25 FT	0.09 KIP	3.77 KIP		6.06 KIP	4.95 KIP	4.26 KIP	31 IN	(2) #5
35° -		60 PSF	28.87 PSF	8.75 FT	0.08 KIP	4.06 KIP	0.02 KIP	5.72 KIP	4.81 KIP	4.02 KIP	29 IN	(2) #5
33	110 MPH	0 PSF	0.00 PSF	8.25 FT	0.08 KIP	2.05 KIP	0.00 KIP	6.54 KIP	4.47 KIP	4.58 KIP	33 IN	(2) #5
		10 PSF	4.81 PSF	8.25 FT	0.08 KIP	2.20 KIP	0.00 KIP	6.54 KIP	4.59 KIP	4.58 KIP	33 IN	(2) #5
		20 PSF	9.62 PSF	8.25 FT	0.08 KIP	2.34 KIP	0.01 KIP	6.54 KIP	4.72 KIP	4.58 KIP	33 IN	(2) #5
		30 PSF	14.43 PSF	8.25 FT	0.08 KIP	2.59 KIP		6.54 KIP	4.85 KIP	4.58 KIP	33 IN	(2) #5
		40 PSF	19.24 PSF	8.25 FT	0.08 KIP	3.05 KIP	0.01 KIP		4.98 KIP	4.58 KIP	33 IN	(2) #5
		50 PSF	24.05 PSF	8.25 FT	0.08 KIP	3.52 KIP	0.02 KIP		5.11 KIP	4.58 KIP	33 IN	(2) #5
L			28.87 PSF			3.98 KIP	0.02 KIP	6.54 KIP	5.24 KIP	4.58 KIP	33 IN	(2) #5
		0 PSF	0.00 PSF		0.07 KIP	2.02 KIP		6.57 KIP	4.41 KIP	4.57 KIP	33 IN	(2) #5
		10 PSF	4.81 PSF		0.07 KIP	2.14 KIP		6.57 KIP	4.52 KIP	4.57 KIP	33 IN	(2) #5
		20 PSF	9.62 PSF		0.07 KIP	2.27 KIP		6.57 KIP	4.63 KIP	4.57 KIP	33 IN	(2) #5
	120 MPH		14.43 PSF		0.07 KIP	2.39 KIP		6.57 KIP	4.74 KIP	4.57 KIP	33 IN	(2) #5
			19.24 PSF		0.07 KIP			6.57 KIP	4.85 KIP	4.57 KIP	33 IN	(2) #5
			24.05 PSF		+	3.13 KIP		6.57 KIP	4.96 KIP	4.57 KIP	33 IN	(2) #5
L			28.87 PSF		0.07 KIP	3.52 KIP		6.57 KIP	5.06 KIP	4.57 KIP	33 IN	(2) #5
		0 PSF	0.00 PSF		0.06 KIP	1.99 KIP		6.54 KIP	4.34 KIP	4.53 KIP	33 IN	(2) #5
		10 PSF	4.81 PSF		0.06 KIP	2.09 KIP		6.54 KIP	4.43 KIP	4.53 KIP	33 IN	(2) #5
		20 PSF	9.62 PSF		0.06 KIP	2.20 KIP		6.54 KIP	4.53 KIP	4.53 KIP	33 IN	(2) #5
	130 MPH		14.43 PSF			2.30 KIP		6.54 KIP	4.62 KIP	4.53 KIP	33 IN	(2) #5
			19.24 PSF		0.06 KIP	2.47 KIP		6.54 KIP	4.71 KIP	4.53 KIP	33 IN	(2) #5
			24.05 PSF		† 	2.81 KIP		6.54 KIP	4.80 KIP	4.53 KIP	33 IN	(2) #5
		60 PSF	28.87 PSF	6.00 FT	0.06 KIP	3.15 KIP	0.01 KIP	6.54 KIP	4.89 KIP	4.53 KIP	33 IN	(2) #5

ASCE 7-10												
	MAX	GROUND	ROOF	MAX	FR	ONT CONNECTIO	N	RE	EAR CONNECTIO	BALLAST	# OF	
TILT	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBAR
	*****	0 PSF	0.00 PSF	12.25 FT	0.11 KIP	2.09 KIP		6.07 KIP	4.36 KIP	4.29 KIP	29 IN	(2) #5
		10 PSF	4.81 PSF		0.11 KIP	2.30 KIP		6.07 KIP	4.56 KIP	4.29 KIP	29 IN	(2) #5
		20 PSF	9.62 PSF	12.25 FT		2.66 KIP		6.07 KIP	4.75 KIP	4.29 KIP	29 IN	(2) #5
	110 MPH		14.43 PSF		0.10 KIP	3.08 KIP		5.56 KIP	4.53 KIP	3.93 KIP	27 IN	(2) #5
		40 PSF			0.09 KIP	3.38 KIP		5.05 KIP	4.29 KIP	3.57 KIP	25 IN	(2) #5
		50 PSF	24.05 PSF	9.50 FT	0.09 KIP	3.67 KIP		4.67 KIP	4.25 KIP	3.30 KIP	23 IN	(1) #5
		60 PSF	28.87 PSF	9.00 FT	0.08 KIP	3.99 KIP	0.02 KIP	4.42 KIP	4.48 KIP	3.12 KIP	22 IN	(1) #5
		0 PSF	0.00 PSF	11.75 FT	0.11 KIP	2.14 KIP	0.01 KIP	6.37 KIP	4.53 KIP	4.50 KIP	31 IN	(2) #5
		10 PSF	4.81 PSF	11.75 FT	0.11 KIP	2.35 KIP	0.01 KIP	6.37 KIP	4.72 KIP	4.50 KIP	31 IN	(2) #5
		20 PSF	9.62 PSF	11.75 FT	0.11 KIP	2.63 KIP	0.02 KIP	6.37 KIP	4.90 KIP	4.50 KIP	31 IN	(2) #5
	115 MPH	30 PSF	14.43 PSF	11.25 FT	0.10 KIP	3.15 KIP	0.02 KIP	6.10 KIP	4.87 KIP	4.30 KIP	30 IN	(2) #5
		40 PSF	19.24 PSF	10.25 FT	0.09 KIP	3.45 KIP	0.02 KIP	5.54 KIP	4.59 KIP	3.91 KIP	27 IN	(2) #5
		50 PSF	24.05 PSF	9.50 FT	0.09 KIP	3.73 KIP	0.02 KIP	5.12 KIP	4.39 KIP	3.61 KIP	25 IN	(2) #5
		60 PSF	28.87 PSF	8.75 FT	0.08 KIP	3.93 KIP	0.02 KIP	4.70 KIP	4.47 KIP	3.32 KIP	23 IN	(1) #5
		0 PSF	0.00 PSF	9.50 FT	0.09 KIP	2.11 KIP	0.00 KIP	6.59 KIP	4.56 KIP	4.63 KIP	32 IN	(2) #5
		10 PSF	4.81 PSF	9.50 FT	0.09 KIP	2.28 KIP	0.01 KIP	6.59 KIP	4.71 KIP	4.63 KIP	32 IN	(2) #5
		20 PSF	9.62 PSF	9.50 FT	0.09 KIP	2.44 KIP	0.01 KIP	6.59 KIP	4.86 KIP	4.63 KIP	32 IN	(2) #5
	130 MPH	30 PSF	14.43 PSF	9.50 FT	0.09 KIP	2.85 KIP	0.01 KIP	6.59 KIP	5.01 KIP	4.63 KIP	32 IN	(2) #5
		40 PSF	19.24 PSF	9.50 FT	0.09 KIP	3.38 KIP	0.02 KIP	6.59 KIP	5.16 KIP	4.63 KIP	32 IN	(2) #5
		50 PSF	24.05 PSF	9.25 FT	0.09 KIP	3.82 KIP	0.02 KIP	6.41 KIP	5.16 KIP	4.50 KIP	31 IN	(2) #5
35°		60 PSF	28.87 PSF	8.50 FT	0.08 KIP	3.99 KIP	0.02 KIP	5.87 KIP	4.86 KIP	4.12 KIP	29 IN	(2) #5
33	140 MPH	0 PSF	0.00 PSF	8.25 FT	0.08 KIP	2.08 KIP	0.00 KIP	6.62 KIP	4.52 KIP	4.63 KIP	32 IN	(2) #5
		10 PSF	4.81 PSF	8.25 FT	0.08 KIP	2.22 KIP	0.00 KIP	6.62 KIP	4.65 KIP	4.63 KIP	32 IN	(2) #5
		20 PSF	9.62 PSF	8.25 FT	0.08 KIP	2.36 KIP	0.01 KIP	6.62 KIP	4.77 KIP	4.63 KIP	32 IN	(2) #5
		30 PSF	14.43 PSF	8.25 FT	0.08 KIP	2.60 KIP	0.01 KIP	6.62 KIP	4.90 KIP	4.63 KIP	32 IN	(2) #5
		40 PSF	19.24 PSF	8.25 FT	0.08 KIP	3.06 KIP	0.01 KIP	6.62 KIP	5.03 KIP	4.63 KIP	32 IN	(2) #5
			24.05 PSF		0.08 KIP			6.62 KIP	5.16 KIP	4.63 KIP	32 IN	(2) #5
		60 PSF	28.87 PSF	8.25 FT	0.08 KIP	3.99 KIP	0.02 KIP	6.62 KIP	5.29 KIP	4.63 KIP	32 IN	(2) #5
		0 PSF	0.00 PSF	7.25 FT	0.07 KIP	2.05 KIP	0.00 KIP	6.65 KIP	4.48 KIP	4.64 KIP	32 IN	(2) #5
		10 PSF	4.81 PSF	7.25 FT	0.07 KIP	2.18 KIP	0.00 KIP	6.65 KIP	4.60 KIP	4.64 KIP	32 IN	(2) #5
		20 PSF	9.62 PSF	7.25 FT	0.07 KIP	2.30 KIP	0.01 KIP	6.65 KIP	4.71 KIP	4.64 KIP	32 IN	(2) #5
	150 MPH	30 PSF	14.43 PSF	7.25 FT	0.07 KIP	2.43 KIP	0.01 KIP	6.65 KIP	4.82 KIP	4.64 KIP	32 IN	(2) #5
		40 PSF	19.24 PSF	7.25 FT	0.07 KIP	2.81 KIP	0.01 KIP	6.65 KIP	4.93 KIP	4.64 KIP	32 IN	(2) #5
		50 PSF	24.05 PSF	7.25 FT	0.07 KIP	3.22 KIP	0.01 KIP	6.65 KIP	5.05 KIP	4.64 KIP	32 IN	(2) #5
		60 PSF	28.87 PSF	7.25 FT	0.07 KIP	3.62 KIP	0.01 KIP	6.65 KIP	5.16 KIP	4.64 KIP	32 IN	(2) #5
		0 PSF	0.00 PSF	6.25 FT	0.06 KIP			6.47 KIP	4.31 KIP	4.49 KIP	31 IN	(2) #5
		10 PSF	4.81 PSF	6.25 FT	0.06 KIP	2.09 KIP	0.00 KIP	6.47 KIP	4.41 KIP	4.49 KIP	31 IN	(2) #5
		20 PSF	9.62 PSF	6.25 FT	0.06 KIP	2.20 KIP	0.00 KIP	6.47 KIP	4.50 KIP	4.49 KIP	31 IN	(2) #5
	160 MPH	30 PSF	14.43 PSF	6.25 FT	0.06 KIP	2.30 KIP	0.01 KIP	6.47 KIP	4.60 KIP	4.49 KIP	31 IN	(2) #5
		40 PSF	19.24 PSF	6.25 FT	0.06 KIP	2.53 KIP	0.01 KIP	6.47 KIP	4.70 KIP	4.49 KIP	31 IN	(2) #5
			24.05 PSF		0.06 KIP		0.01 KIP	6.47 KIP	4.79 KIP	4.49 KIP	31 IN	(2) #5
		60 PSF	28.87 PSF	6.25 FT	0.06 KIP	3.23 KIP	0.01 KIP	6.47 KIP	4.89 KIP	4.49 KIP	31 IN	(2) #5

ASCE 7-05 W/ SEISMIC DESIGN												
TILT	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTION	NC	RE	AR CONNECTION	NC	BALLAST	# OF
IILI	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION (COMPRESSION	SHEAR	WIDTH	REBAR
		0 PSF	0.00 PSF	12.75 FT	0.03 KIP	2.10 KIP	0.48 KIP	6.03 KIP	4.36 KIP	4.27 KIP	30 IN	(2) #5
		10 PSF	4.81 PSF	12.75 FT	0.03 KIP	2.32 KIP	0.48 KIP	6.03 KIP	4.56 KIP	4.27 KIP	30 IN	(2) #5
		20 PSF	9.62 PSF	12.25 FT	0.04 KIP	2.63 KIP	0.47 KIP	5.79 KIP	4.58 KIP	4.10 KIP	29 IN	(2) #5
	85 MPH	30 PSF	14.43 PSF	11.50 FT	0.05 KIP	3.11 KIP	0.44 KIP	5.42 KIP	4.47 KIP	3.84 KIP	27 IN	(2) #5
		40 PSF	19.24 PSF	7.00 FT	0.35 KIP	2.31 KIP	0.71 KIP	3.23 KIP	2.78 KIP	2.29 KIP	24 IN	(2) #5
		50 PSF	24.05 PSF	6.25 FT	0.42 KIP	2.41 KIP	0.74 KIP	2.86 KIP	2.68 KIP	2.02 KIP	24 IN	(2) #5
		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	2.55 KIP	0.77 KIP	2.61 KIP	2.72 KIP	1.84 KIP	25 IN	(2) #5
		0 PSF	0.00 PSF	12.00 FT	0.04 KIP	2.15 KIP	0.45 KIP	6.38 KIP	4.54 KIP	4.50 KIP	32 IN	(2) #5
		10 PSF	4.81 PSF	12.00 FT	0.04 KIP	2.36 KIP	0.46 KIP	6.38 KIP	4.73 KIP	4.50 KIP	32 IN	(2) #5
		20 PSF	9.62 PSF	11.75 FT	0.04 KIP	2.61 KIP	0.45 KIP	6.24 KIP	4.82 KIP	4.41 KIP	31 IN	(2) #5
	90 MPH	30 PSF	14.43 PSF	11.25 FT	0.05 KIP	3.13 KIP	0.43 KIP	5.97 KIP	4.79 KIP	4.21 KIP	30 IN	(2) #5
		40 PSF	19.24 PSF	7.00 FT	0.35 KIP	2.36 KIP	0.71 KIP	3.64 KIP	3.03 KIP	2.57 KIP	24 IN	(2) #5
		50 PSF	24.05 PSF	6.25 FT	0.42 KIP	2.46 KIP	0.74 KIP	3.22 KIP	2.79 KIP	2.27 KIP	24 IN	(2) #5
		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	2.59 KIP	0.77 KIP	2.94 KIP	2.83 KIP	2.07 KIP	25 IN	(2) #5
	100 MPH	0 PSF	0.00 PSF	10.00 FT	0.06 KIP	2.13 KIP	0.39 KIP	6.57 KIP	4.57 K I P	4.62 KIP	33 IN	(2) #5
		10 PSF	4.81 PSF	10.00 FT	0.06 KIP	2.30 KIP	0.39 KIP	6.57 KIP	4.73 KIP	4.62 KIP	33 IN	(2) #5
		20 PSF	9.62 PSF	10.00 FT	0.06 KIP	2.48 KIP	0.39 KIP	6.57 KIP	4.89 KIP	4.62 KIP	33 IN	(2) #5
		30 PSF	14.43 PSF	10.00 FT	0.06 KIP	2.95 KIP	0.39 KIP	6.57 KIP	5.04 KIP	4.62 KIP	33 IN	(2) #5
		40 PSF	19.24 PSF	7.00 FT	0.35 KIP	2.47 KIP	0.71 KIP	4.52 KIP	3.58 KIP	3.17 KIP	24 IN	(2) #5
		50 PSF	24.05 PSF	6.25 FT	0.42 KIP	2.56 KIP	0.74 KIP	4.00 KIP	3.26 KIP	2.80 KIP	24 IN	(2) #5
35°		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	2.68 KIP	0.77 KIP	3.65 KIP	3.06 KIP	2.55 KIP	25 IN	(2) #5
55	110 MPH	0 PSF	0.00 PSF		0.08 KIP	2.05 KIP	0.33 KIP	6.54 KIP	4.47 K I P	4.58 KIP	33 IN	(2) #5
		10 PSF	4.81 PSF	8.25 FT	0.08 KIP	2.20 KIP	0.33 KIP	6. 54 KIP	4.59 KIP	4.58 KIP	33 IN	(2) #5
		20 PSF	9.62 PSF	8.25 FT	0.08 KIP	2.34 KIP	0.33 KIP	6.54 KIP	4.72 KIP	4.58 KIP	33 IN	(2) #5
		30 PSF	14.43 PSF	8.25 FT	0.08 KIP	2.59 KIP	0.33 KIP	6.54 KIP	4.85 KIP	4.58 KIP	33 IN	(2) #5
		40 PSF	19.24 PSF	7.00 FT	0.35 KIP	2.60 KIP	0.71 KIP	5.50 KIP	4.18 KIP	3.84 KIP	28 IN	(2) #5
		50 PSF	24.05 PSF	6.25 FT	0.42 KIP	2.67 KIP	0.74 KIP	4.86 KIP	3.80 K I P	3.39 KIP	25 IN	(2) #5
			28.87 PSF		0.50 KIP	2.78 KIP		4.44 KIP	3.55 KIP	3.09 KIP	25 IN	(2) #5
			0.00 PSF			2.02 KIP		6.57 KIP	4.41 KIP	4.57 KIP		(2) #5
		10 PSF	4.81 PSF		0.10 KIP			6.57 KIP	4.52 KIP	4.57 KIP	33 IN	(2) #5
		20 PSF		7.00 FT				6.57 KIP	4.63 KIP	4.57 KIP	33 IN	(2) #5
	120 MPH		14.43 PSF		0.10 KIP	2.39 KIP	-	6.57 KIP	4.74 KIP	4.57 KIP	33 IN	(2) #5
			19.24 PSF			2.73 KIP		6.57 KIP	4.85 KIP	4.57 KIP	33 IN	(2) #5
			24.05 PSF		0.42 KIP	2.79 KIP	 	5.81 KIP	4.38 KIP	4.04 KIP	29 IN	(2) #5
			28.87 PSF		0.50 KIP	2.90 KIP	_	5.30 KIP	4.08 KIP	3.68 KIP	27 IN	(2) #5
		0 PSF	0.00 PSF		0.11 KIP			6.54 KIP	4.34 KIP	4.53 KIP	33 IN	(2) #5
		10 PSF			0.11 KIP	2.09 KIP		6.54 KIP	4.43 KIP	4.53 KIP	33 IN	(2) #5
		20 PSF	9.62 PSF		0.11 KIP	2.20 KIP	+	6.54 KIP	4.53 KIP	4.53 KIP	33 IN	(2) #5
	130 MPH		14.43 PSF		0.11 KIP	2.30 KIP	+	6.54 KIP	4.62 KIP	4.53 KIP	33 IN	(2) #5
			19.24 PSF		0.37 KIP	2.47 KIP		6.54 KIP	4.71 KIP	4.53 KIP	33 IN	(2) #5
			24.05 PSF	—		2.81 KIP		6.54 KIP	4.80 KIP	4.53 KIP	33 IN	(2) #5
		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	3.02 KIP	0.77 KIP	6.24 KIP	4.67 KIP	4.32 KIP	32 IN	(2) #5

					ASCE	7-10 W/ SEISMI	C DESIG	N				
TILT	MAX	GROUND	ROOF	MAX	FF	RONT CONNECTION	NC	R	EAR CONNECTION	NC	BALLAST	# OF
IILI	WIND	SNOW	SNOW	SPAN	TENSION	COMPRESSION	SHEAR	TENSION	COMPRESSION	SHEAR	WIDTH	REBA
	110 MPH	0 PSF	0.00 PSF	12.25 FT	0.04 KIP	2.09 KIP	0.46 KIP	6.07 KIP	4.36 KIP	4.29 KIP	29 IN	(2) #
		10 PSF	4.81 PSF	12.25 FT	0.04 KIP	2.30 KIP	0.46 KIP	6.07 KIP	4.56 KIP	4.29 KIP	29 IN	(2) #
		20 PSF	9.62 PSF	12.25 FT	0.04 KIP	2.66 KIP	0.47 KIP	6.07 KIP	4.75 KIP	4.29 KIP	29 IN	(2) #
		30 PSF	14.43 PSF	11.25 FT	0.05 KIP	3.08 KIP	0.43 KIP	5.56 KIP	4.53 KIP	3.93 KIP	27 IN	(2) #
		40 PSF	19.24 PSF	7.00 FT	0.35 KIP	2.33 KIP	0.71 KIP	3.39 KIP	2.88 KIP	2.39 KIP	24 IN	(2) #
		50 PSF	24.05 PSF	6.25 FT	0.42 KIP	2.43 KIP	0.74 KIP	3.00 KIP	2.72 KIP	2.12 KIP	24 IN	(2) #
		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	2.56 KIP	0.77 KIP	2.73 KIP	2.76 KIP	1.93 KIP	25 IN	(2) #
		0 PSF	0.00 PSF	11.75 FT	0.04 KIP	2.14 KIP	0.45 KIP	6.37 KIP	4.53 KIP	4.50 KIP	31 IN	(2) #
		10 PSF	4.81 PSF	11.75 FT	0.04 KIP	2.35 KIP	0.45 KIP	6.37 KIP	4.72 KIP	4.50 KIP	31 IN	(2) #
		20 PSF	9.62 PSF	11.75 FT	0.04 KIP	2.63 KIP	0.45 KIP	6.37 KIP	4.90 KIP	4.50 KIP	31 IN	(2) #
	115 MPH	30 PSF	14.43 PSF	11.25 FT	0.05 KIP	3.15 KIP	0.43 KIP	6.10 KIP	4.87 KIP	4.30 KIP	30 IN	(2) #
		40 PSF	19.24 PSF	7.00 FT	0.35 KIP	2.37 KIP	0.71 KIP	3.72 KIP	3.08 KIP	2.62 KIP	24 IN	(2) #
		50 PSF	24.05 PSF	6.25 FT	0.42 KIP	2.47 KIP	0.74 KIP	3.29 KIP	2.82 KIP	2.31 KIP	24 IN	(2) ‡
		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	2.60 KIP	0.77 KIP	3.00 KIP	2.84 KIP	2.11 KIP	25 IN	(2) i
	130 MPH	0 PSF	0.00 PSF	9.50 FT	0.07 KIP	2.11 KIP	0.37 KIP	6.59 KIP	4.56 KIP	4.63 KIP	32 IN	(2)
		10 PSF	4.81 PSF	9.50 FT	0.07 KIP	2.28 KIP	0.37 KIP	6.59 KIP	4.71 KIP	4.63 KIP	32 IN	(2)
		20 PSF	9.62 PSF	9.50 FT	0.07 KIP	2.44 KIP	0.37 KIP	6.59 KIP	4.86 KIP	4.63 KIP	32 IN	(2)
		30 PSF	14.43 PSF	9.50 FT	0.07 KIP	2.85 KIP	0.37 KIP	6.59 KIP	5.01 KIP	4.63 KIP	32 IN	(2)
		40 PSF	19.24 PSF	7.00 FT	0.35 KIP	2.50 KIP	0.71 KIP	4.78 KIP	3.74 KIP	3.35 KIP	24 IN	(2)
		50 PSF	24.05 PSF		0.42 KIP	2.59 KIP	0.74 KIP	4.23 KIP	3.40 KIP	2.96 KIP	24 IN	(2)
0.50		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	2.71 KIP	0.77 KIP	3.86 KIP	3.19 K I P	2.70 KIP	25 IN	(2)
35°		0 PSF	0.00 PSF		0.08 KIP	2.08 KIP		6.62 KIP	4.52 KIP	4.63 KIP	32 IN	(2)
		10 PSF	4.81 PSF	8.25 FT	0.08 KIP	2.22 KIP	0.33 KIP	6.62 KIP	4.65 KIP	4.63 KIP	32 IN	(2)
		20 PSF	9.62 PSF	8.25 FT	0.08 KIP	2.36 KIP		6.62 KIP	4.77 KIP	4.63 KIP	32 IN	(2)
	140 MPH		14.43 PSF		0.08 KIP	2.60 KIP	-	6.62 KIP	4.90 KIP	4.63 KIP	32 IN	(2)
		40 PSF	19.24 PSF		0.35 KIP	2.61 KIP		5.57 KIP	4.23 KIP	3.89 KIP	27 IN	(2)
		50 PSF	24.05 PSF			2.68 KIP		4.93 KIP	3.83 KIP	3.44 KIP	24 IN	(2)
		60 PSF	28.87 PSF	5.75 FT	0.50 KIP	2.79 KIP	0.77 KIP	4.50 KIP	3.58 KIP	3.13 KIP	25 IN	(2)
		0 PSF	0.00 PSF		0.10 KIP	2.05 KIP		6.65 KIP	4.48 K I P	4.64 KIP	32 IN	(2)
		10 PSF	4.81 PSF		0.10 KIP	2.18 KIP	+	6.65 KIP	4.60 KIP	4.64 KIP	32 IN	(2)
		20 PSF	9.62 PSF		0.10 KIP	2.30 KIP		6.65 KIP	4.71 KIP	4.64 KIP	32 IN	(2)
	150 MPH				0.10 KIP	2.43 KIP		6.65 KIP	4.82 KIP	4.64 KIP	32 IN	(2)
			19.24 PSF			2.71 KIP		6.41 KIP	4.75 KIP	4.47 KIP	31 IN	(2)
			24.05 PSF			2.78 KIP		5.67 KIP	4.30 KIP	3.95 KIP	28 IN	(2)
			28.87 PSF		0.50 KIP			5.18 KIP	4.01 KIP	3.60 KIP	25 IN	(2)
		0 PSF	0.00 PSF		0.11 KIP	1.98 KIP		6.47 KIP	4.31 K I P	4.49 KIP	31 IN	(2)
		10 PSF	4.81 PSF		0.11 KIP	2.09 KIP	-	6.47 KIP	4.41 KIP	4.49 KIP	31 IN	(2)
		20 PSF	9.62 PSF		0.11 KIP	2.20 KIP		6.47 KIP	4.50 KIP	4.49 KIP	31 IN	(2)
	160 MPH		14.43 PSF		0.11 KIP	2.30 KIP	-	6.47 KIP	4.60 KIP	4.49 KIP	31 IN	(2)
			19.24 PSF		0.36 KIP	2.53 KIP		6.47 KIP	4.70 KIP	4.49 KIP	31 IN	(2)
			24.05 PSF					6.47 KIP	4.79 KIP	4.49 KIP	31 IN	(2)
			28.87 PSF			2.97 KIP	-	5.90 KIP	4.46 KIP	4.09 KIP	29 IN	(2)

_	NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
	0	BushBr 9/27/2014				New Drawing
	1	BushBr 3/5/2015				Adjusted Notes & Threaded Rods
	2	BushBr 11/5/2015				Change Foundation Size, Dead Load Max, Update 2015
	3	BushBr 11/17/2015				Change Foundation Size
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	7					
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1001 COMMERCE CENTER DR. | SHELBY, NC 28150 TEL: (704) 595 - 4200 | Fax: (704) 595 - 4210 EMAIL: MAIL@SCHLETTER.US WWW.SCHLETTER.US

Standard PvMax, 60 Cell, 15° - 35° Racking Structure

Snow, Wind, Alignment, Tables 35° ISSUED BY: SCHLETTER INC. PROPRIETARY AND CONFIDENTIAL

Project Site: Schletter Inc 1001 Commerce Center Dr

Shelby, NC 28150

Drawing Number:

JOB NUMBER: V SHEET: 4e of 4

SCALE: SEE DRAWING VIEWS