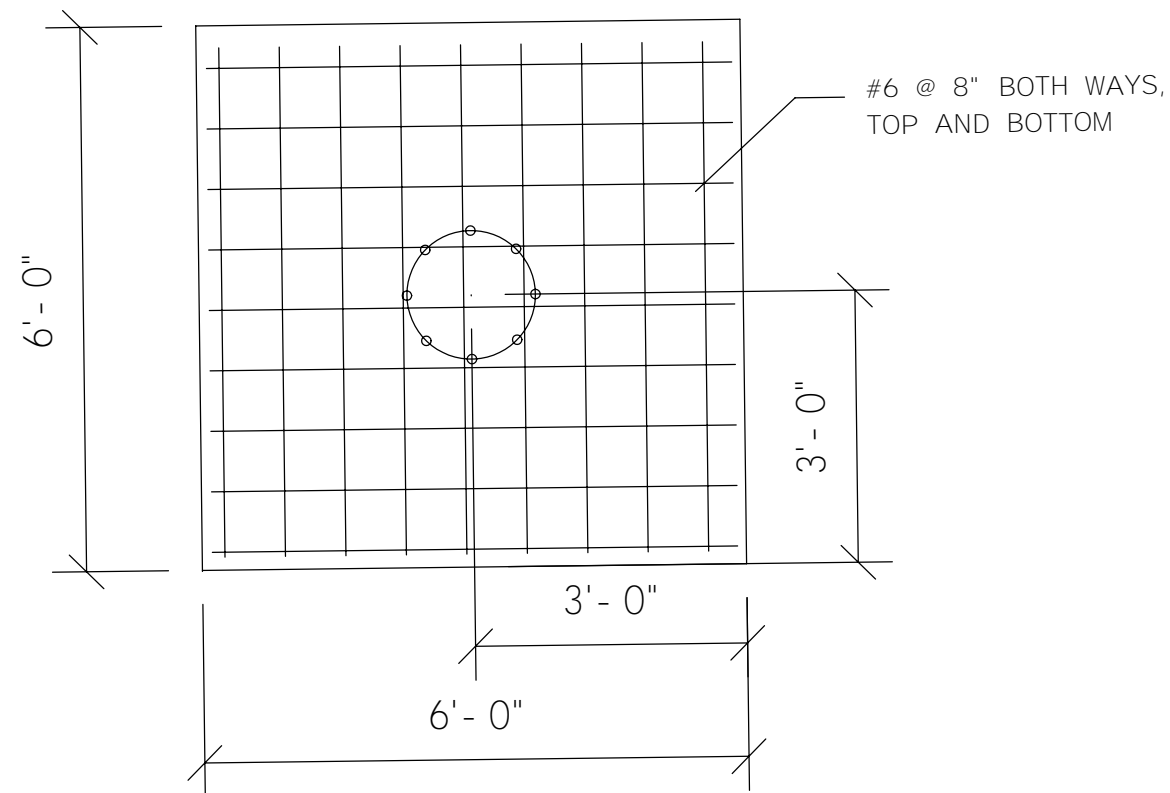


MAT FOUNDATION SECTION

By accepting and utilizing these plans, the end user agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the engineer harmless from any and all liability, real or alleged, in conjunction with the performance of work on this project, excepting for liability arising from the sole negligence of the engineer. The client agrees to limit the engineer's liability to the total fee charged for services rendered on this project.

<p>THE LEPETOS GROUP, INC 11 PAGNA, LITTLETON, CO 80127</p>				<p>Prepared for SOUTHWEST WINDPOWER 1801 W. Route 66 Flagstaff, Arizona 86001</p>	
REV.	BY	CK	DESCRIPTION	DATE	
0	GNL		MAT FOUNDATION - STORM 1.8kW	3/14/06	
					DWG. NO. S-1
					REV. NEW
					DRAWN BY- GNL
					JOB NO. - LG-05-175
					CHECKED BY- PIM
					DATE- 3-14-06



MAT FOUNDATION PLAN VIEW

GENERAL NOTES:

- (1) THE MAT FOUNDATION WAS DESIGNED IN ACCORDANCE WITH THE IBC 2003
- (2) A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL ASSUME RESPONSIBILITY FOR THE SITE- SPECIFIC DESIGN. THE P.E. SHALL ASSURE DESIGN SUITABILITY FOR VARYING SITE AND SOIL CONDITIONS SUCH AS SOIL CLASSIFICATIONS, WATER TABLE, EXISTENCE OF EXPANSIVE/COLLAPSIBLE SOILS, SUSCEPTIBILITY TO LIQUEFACTION, FROST DEPTH, ETC.
- (3) THE MAT FOUNDATION IS DESIGNED FOR A ALLOWABLE VERTICAL BEARING PRESSURE OF 1,500 PSF (IBC CLASS 5 SOIL PER TABLE 1804.2)
- (4) ALL FOUNDATION ELEMENTS SHALL BEAR ON PROPERLY PREPARED SOIL
- (5) SOIL TYPES AND PROPERTIES SHALL BE VERIFIED BY THE PROJECT P.E.
- (6) CONCRETE WORK SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS SET FORTH IN ACI 301/318
- (7) ANCHOR BOLT DESIGN SHALL BE PROVIDED BY OTHERS. ANCHOR BOLT NUMBER, SIZE, TYPE, AND CONFIGURATION SHALL BE CAPABLE OF RESISTING ALL APPLIED MOMENT, SHEAR AND AXIAL FORCES
- (8) CONCRETE SHALL HAVE MIN 2,500 PSI 28- DAY STRENGTH AND 5% AIR ENTRAINMENT +/- 1%
CONCRETE UNIT WEIGHT SHALL NOT EXCEED 150 LBS/FT³
- (9) REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BARS
- (10) ALL REINFORCING STEEL SHALL BE CONTINUOUS, NO SPLICES ALLOWED
- (11) WIND LOADS PER IEC 200X WERE CALCULATED BY OTHERS:

BASE MOMENT: 26,290 FT- LBS

BASE SHEAR: 867 LBS

AXIAL LOAD: 760 LBS

By accepting and utilizing these plans, the end user agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the engineer harmless from any and all liability, real or alleged, in conjunction with the performance of work on this project, excepting for liability arising from the sole negligence of the engineer. The client agrees to limit the engineer's liability to the total fee charged for services rendered on this project.

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11 PAONIA, LITTLETON, CO 80127

Prepared for
SOUTHWEST WINDPOWER
1801 W. Route 66
Flagstaff, Arizona 86001

REV.	BY	CK	DESCRIPTION	DATE
0	GNL		MAT FOUNDATION - STORM 1.8kW	3/14/06

DWG. NO.	S-2	REV. NEW
DRAWN BY- GNL	JOB NO.- LG- 05- 175	
CHECKED BY- PM	DATE- 3- 14- 06	