Foundation Description Recommendation

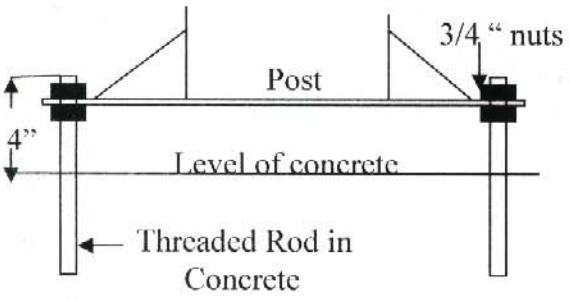
The foundation for the Sun-Link solar tracker is a poured concrete pier with 4 – ¾ inch treaded rods cast into it. These instructions are general in nature. Local soil conditions, exposure to strong winds, and normal frost depth all can affect the design of the foundation. We recommend you have a local engineer confirm this is sufficient for your area.

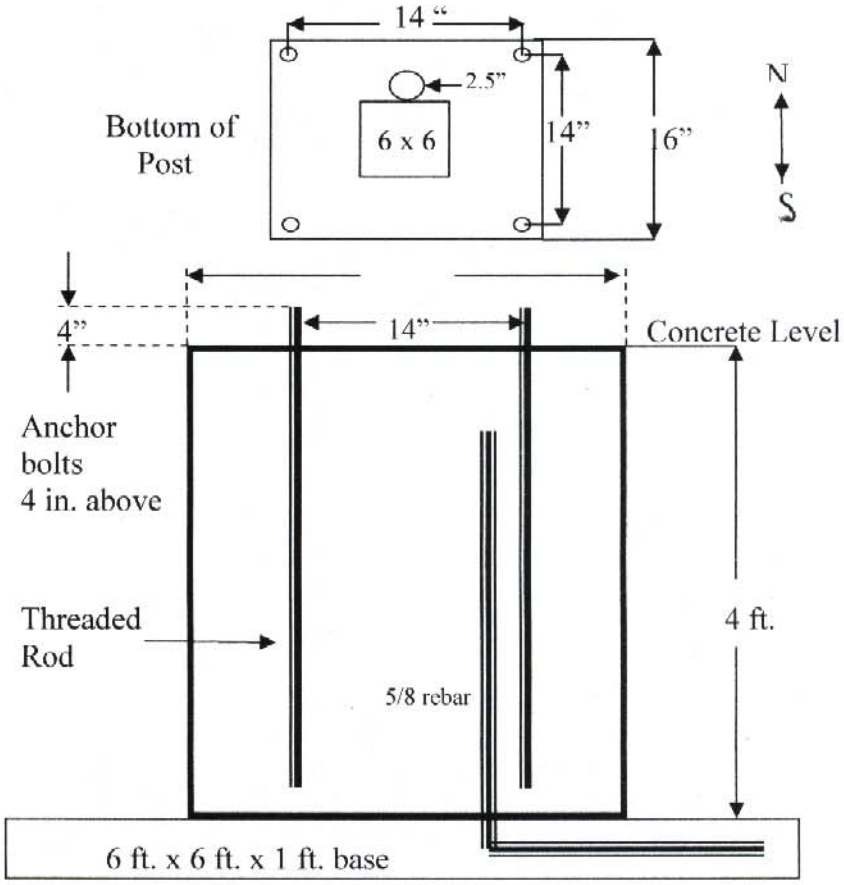
The excavation should be 5 feet deep and formed to pour a base 6 feet square and 1 foot thick in the bottom on undisturbed soil. From this level up to 6 inches above the finished grade a 24 inch Sono tube is used as a form. Reinforcing rods are required in the base and up into the sono tube.

You need 4 pieces of plated ¾ inch threaded rod to cast into the concrete, 8 nuts, 8 flat washers and 4 lock washers. Carefully cut a piece of ¾ plywood exactly 16 Inches Square. Draw a line 1 inch in from each side on all 4 sides. Drill a small pilot hole where the line intersects at the corners. Be careful not to allow the drill to run off course. Enlarge the holes to ¾ inch.
Run a nut on the end of the rod about 4 inches and follow it with a flat washer. Push the rods through the holes in the plywood plate followed by another flat washer and another nut. The rods stick up through the base plate of the pole so you can level your post by adjusting the nuts. Welding some rebar in an X pattern across the bottom of the threaded rods will keep them properly aligned and prevent pull out.

You are going to push this into the concrete until the lower nuts are **just above** the finished concrete. **One side of the square plywood plate must line up with the north-south line**.

If you are mixing your own concrete do not mix too much water with it. This will weaken the strength of the concrete.





Reinforcing bars are used in the base to the top section.