

Solar Installation

Ganado, AZ

August, 2019



Initial survey

April, 2019



Initial Survey

May, 2019





Requirements for Mounting Installation

1. Securely anchored
2. Sturdy and Durable
3. Accessible for inspection and Maintenance
4. Expandable
5. Made from locally purchased materials
6. Wanted to build it offsite
7. Economical (relative term)

4 -
MU
FR
AT

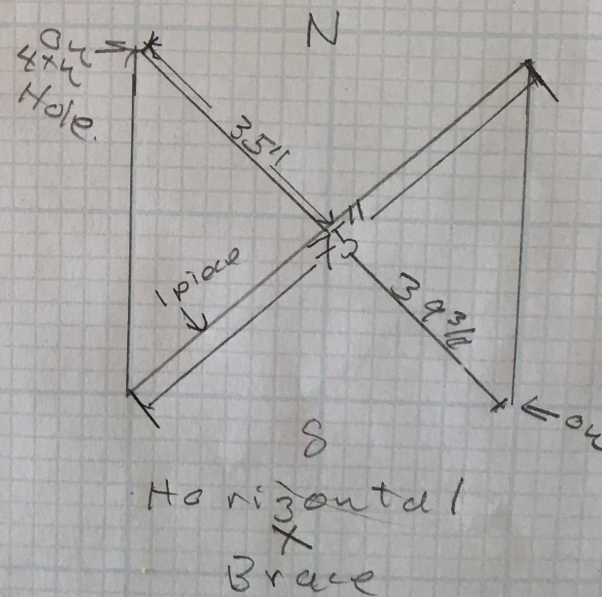
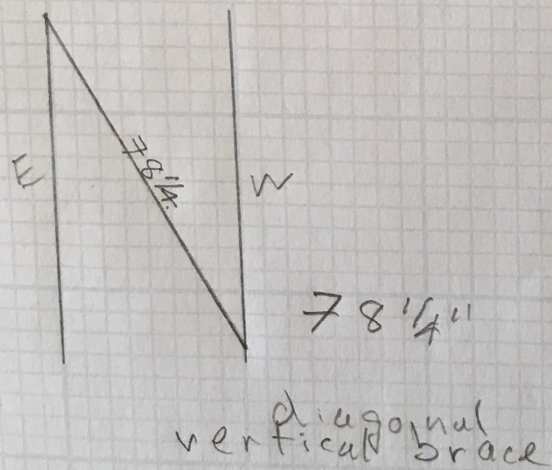
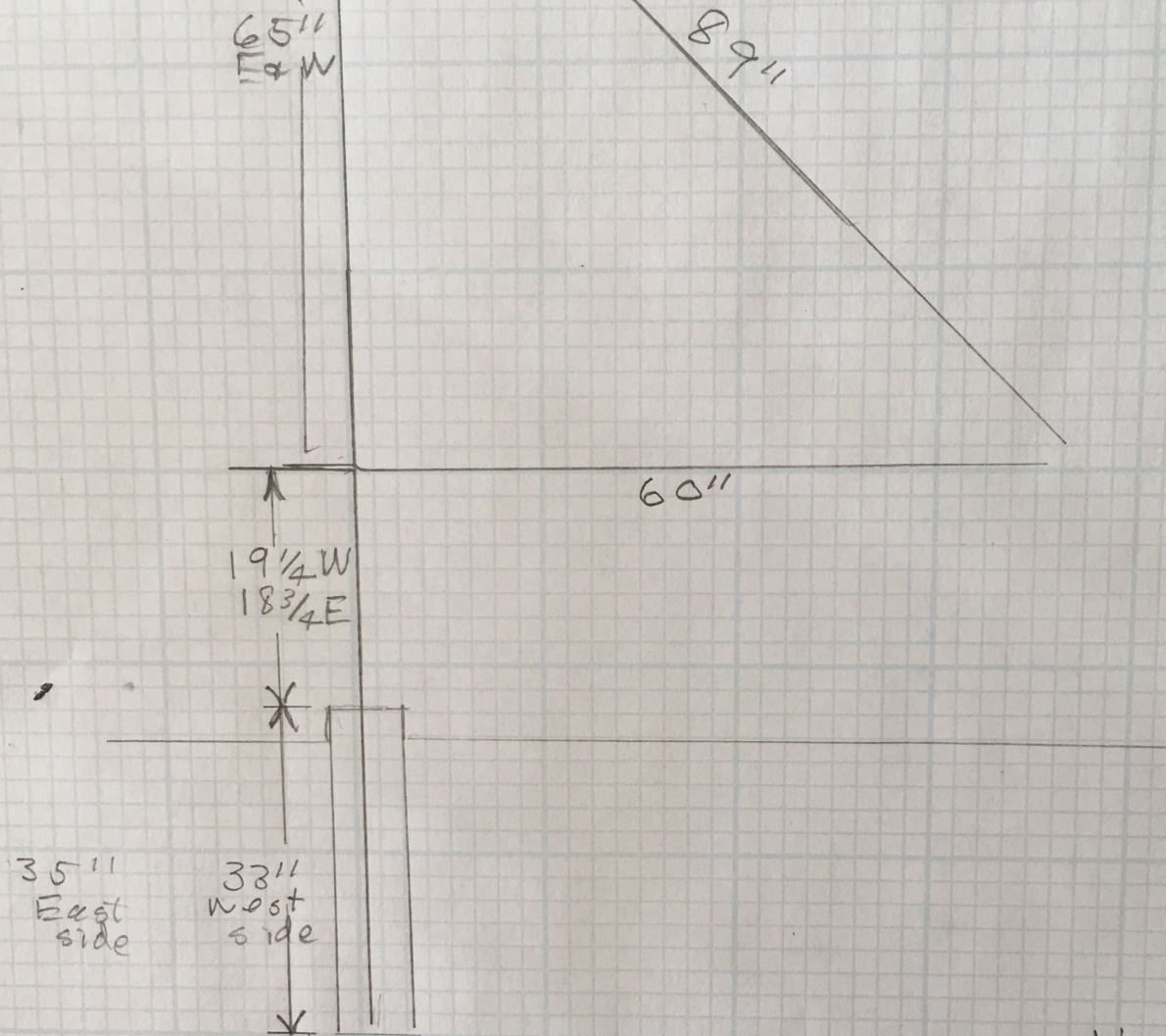
W
T
S

8'-0"

31-0

- UNISTRUT CHANNEL
NUT W/SPRING
#P2380-6

Hole #33 E & W

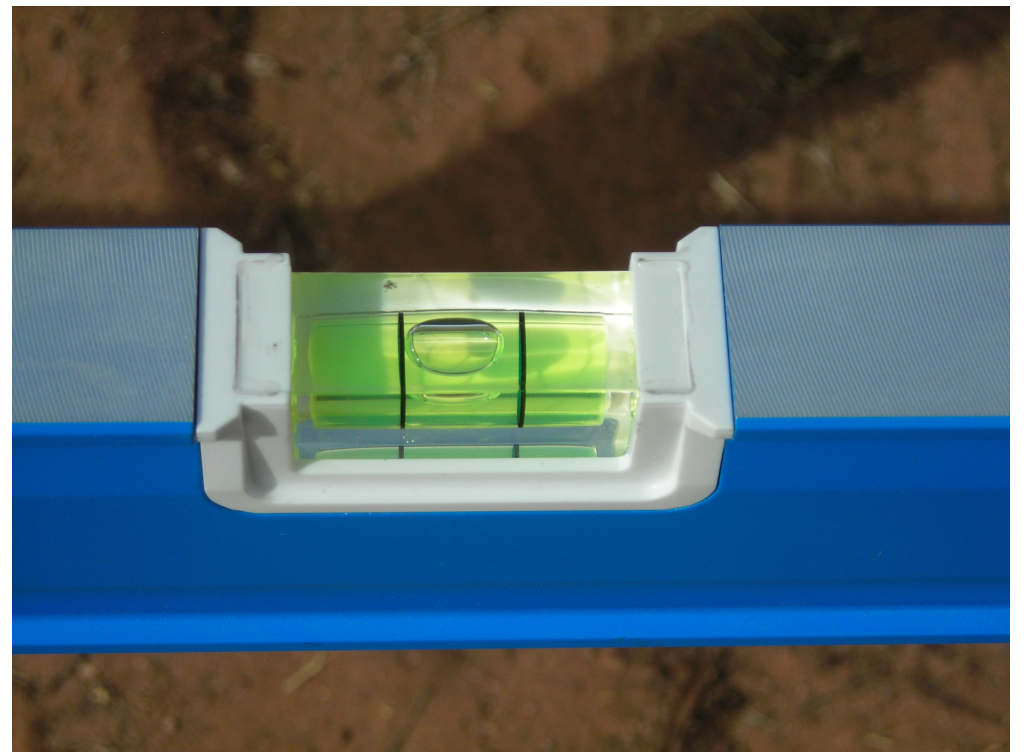


Constructing the PV support structure off site



Day 1

Setting the Anchoring Posts





Day 2 Assembling













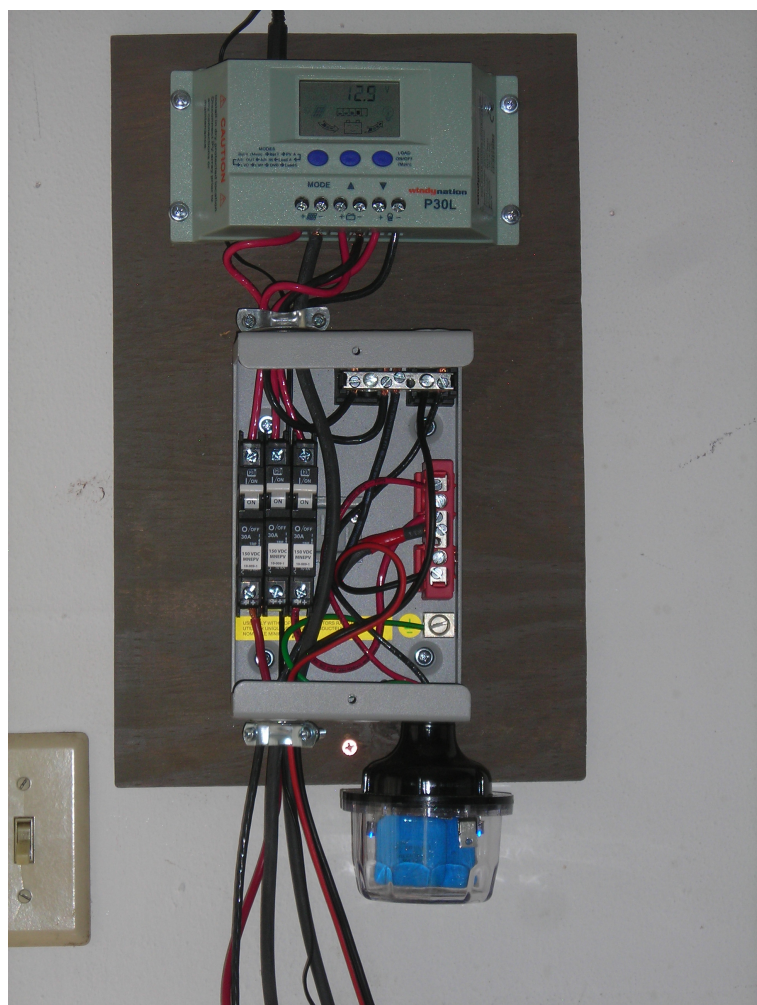




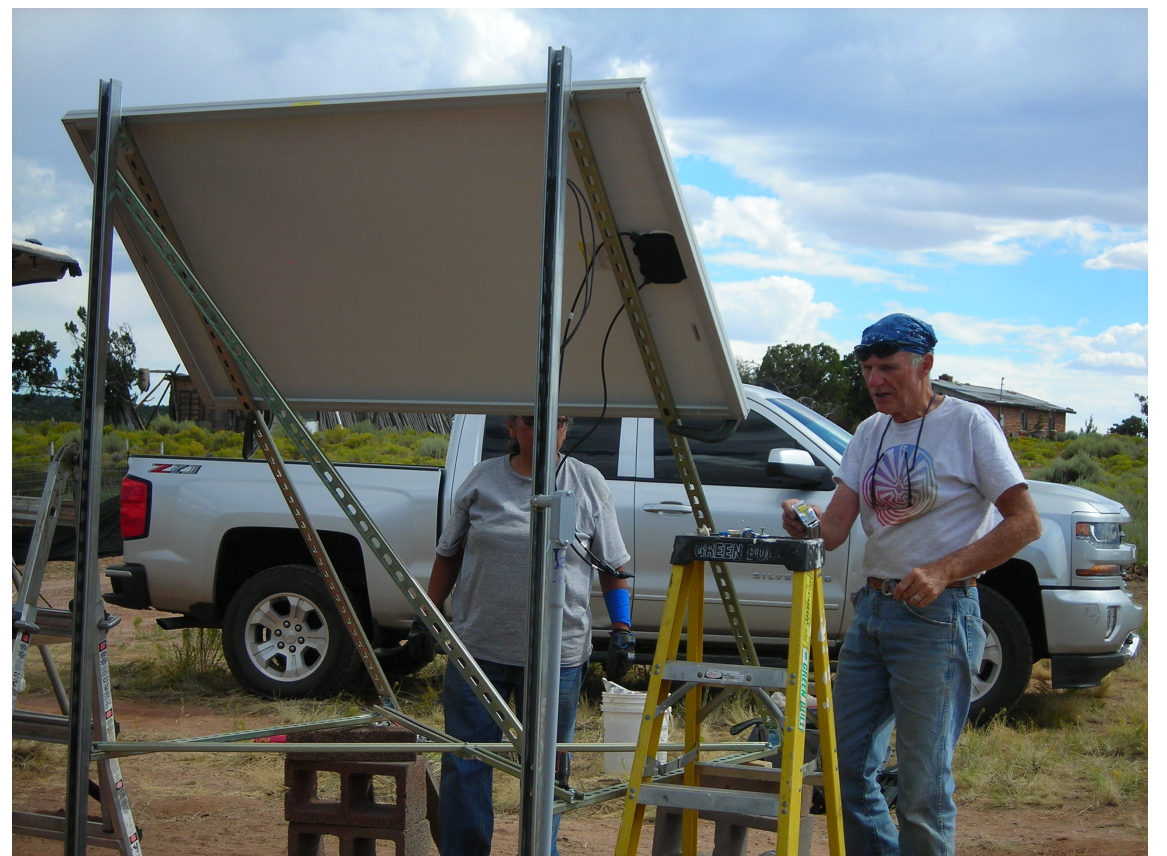








Placing the PV Panel











Materials List & Approximate Cost

- 1.) 2 - 10 gauge Unistruts - Gallup lumber - \$46
- 2.) 6 - 14 gauge superstruts - Home Depot - 138
- 3.) 2 - 4 hole steel angle connectors - Bill - 10
- 4.) 2 - 2 hole 45° steel angle connectors - Bill - 10
- 5.) 2 - 2 hole 90° steel angle connectors - Bill - 10

6.) Fasteners:

25 - 1/2" by 1 1/4 inch bolts & washers - 25
 lock washers & nuts \approx \$1.00 ea

7.) 2 - 8" sono tubes @ \$10/ea - 20

8.) 4 - 50^{lb} bags of fast setting concrete \approx \$4.50/bag - 18

9.) 1 - 8' grounding Pole - - 14

10.) 4 - ss screws, fender washer & nylon washer for attaching panel to superstrut - 5

11.) 6 - 10' Electrical Grey Conduit - 16.00

12.) 4 - Grey Electrical Boxes - 14.00

13.) 6' - stranded green coated copper wire - 3.00

14.) 2 - 90° conduit bends - 5.00

\$335









