

FUNCTIONAL
VISION /
MISSION
STATEMENT

ADA
ENERGY LAB

- ENERGY LEARNING LAB
- DEMONSTRATE BEST (EMERGING) PRACTICES.
- SERVE AS TESTBED FOR RE_n PROTOTYPES (Homegrown & Other)
- SERVE AS TESTBED FOR RE PROJECTS ON CAMPUS
- SERVE AS DEVELOPMENT / ASSESSMENT OF ADA RE PROJECTS (E.g. POOL, PARKING)
- SERVE AS TESTBED FOR ED. PRACTICES TO BE INCORPORATED INTO SCIENCE-CENTRAL (NEXT).

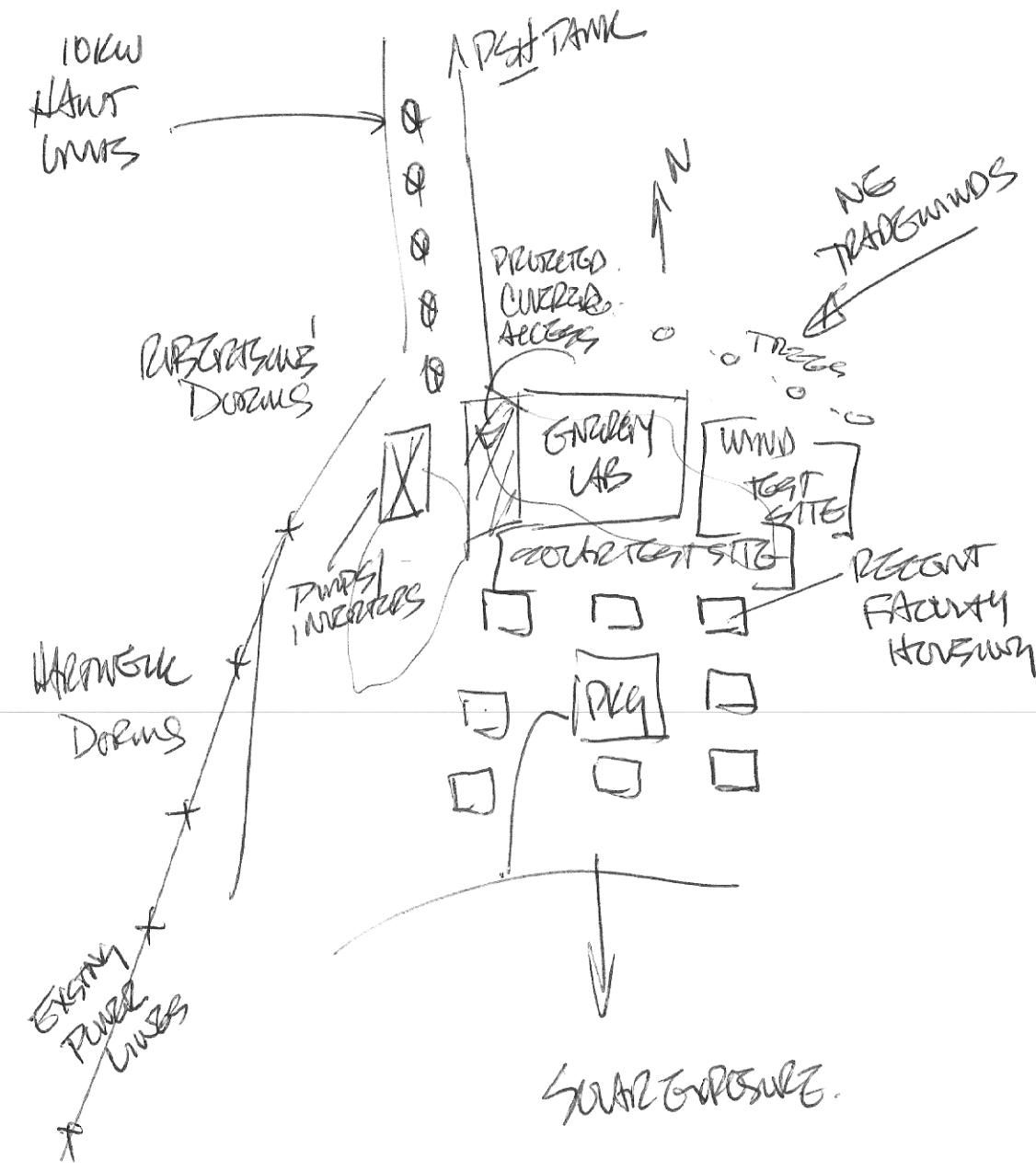
LEGEND

RE = RENEWABLE
ENERGY

10.15.2007

Bill Weckling

SITE DIAGRAM



LEGEND

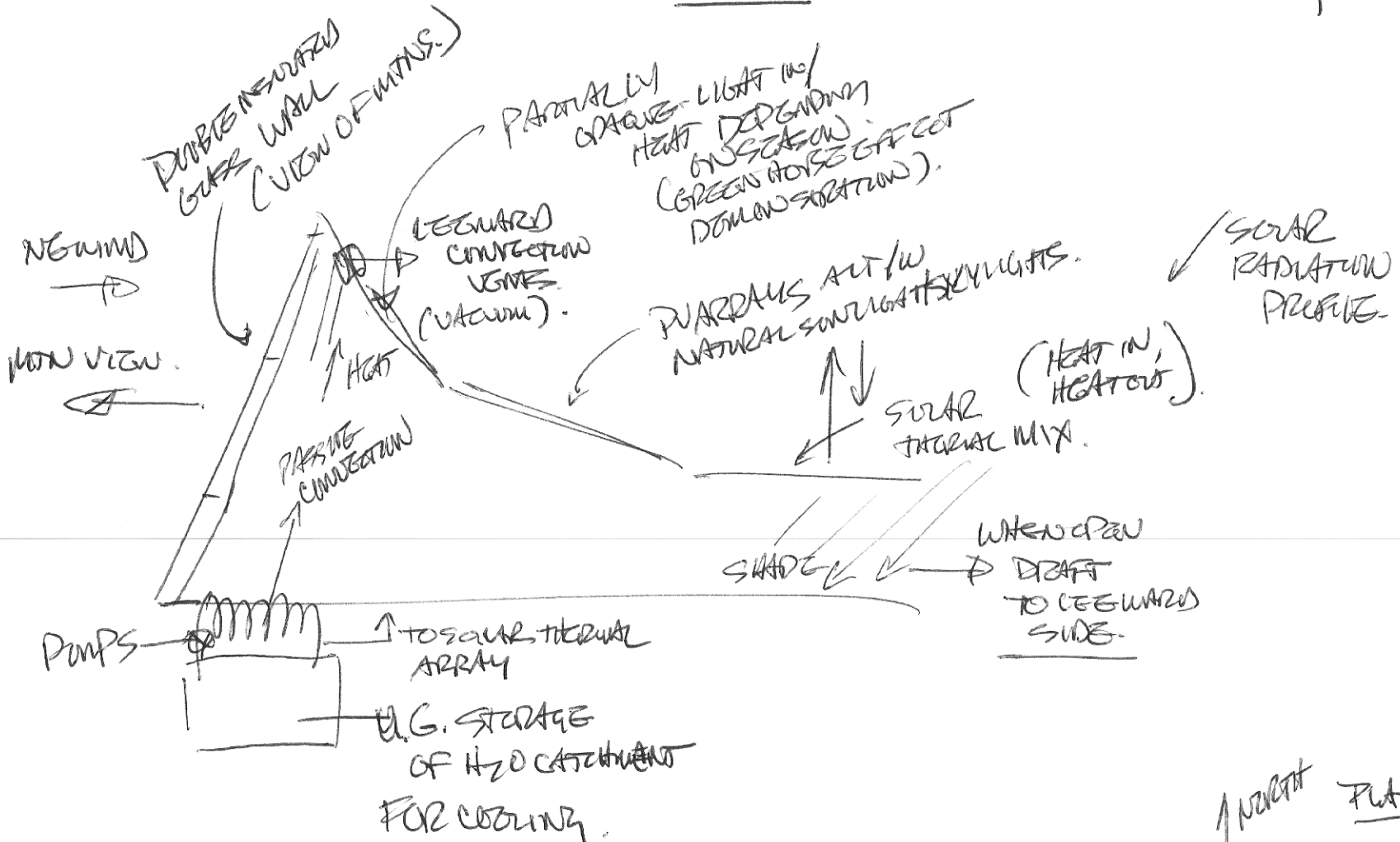
PSH = DUMPED STORAGE HYDRO

HAWT = HORIZONTAL AXIS WIND TURBINES.

- TEST UNITS FOR PV, SOLAR THERMAL, WIND, OTHER RENEWABLE ENERGY SYSTEMS.
- RECENT DESIGN / INFRASTRUCTURE
 - ISOLATED
 - FRIENDLY TOWARDS
 - EXCELLENT MODEL FOR RES. OUTREACH EFFORTS.

ENERGY LAB.
SIDEVIEW

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NOTES

- SOLAR THERMAL DRAFTING COLLECTS HEAT FOR H₂O, UNDERMINES IN WATER (VIA PASSIVE CONVECTION, VENTS CLOSED)
- SOLAR THERMAL LIGHTING - NOT ANGLE CRITICAL - RADIATES TO SPACE TO COOL TO 50-60°F FOR DRAFTING COLUMN. (COULD ALSO BE INTEGRATED INTO PSN RESERVOIR).

