



FOUNDATION PLAN W/ BASEMENT LAYOUT
 AREA: 1302 SQ. FT.

- ① Building site preparation:
 Minimize displacement of original habitat
 Design water drainage around house to control erosion
 Minimize irrigation needs by using local plants for landscaping
 Plan keeping existing trees to the West side of house
 for summer shading or planting new trees for that purpose
- ② Basement walls to be ICF (insulated concrete forms)
 with 2 3/4" thick styrofoam both sides
 to reach R30 insulation value for exterior wall.
- ③ Hot water to be supplied by gas tankless water on demand heaters
 for each bathroom and kitchen to reduce energy operating costs.
- ④ 95% efficient gas boiler in floor heating system
 with controlled zones to allow heating only rooms used
 within insulated concrete slab in basement and main floor
 (1 1/2" thick light weight concrete slab over subfloor).