

P E R S P E C T I V E

Permaculture Design Landscape Plans

The site is very small 144 sqm and the footprint of the home is 36 sqm so there is very little space to utilise. The soil is rich, rainfall good and sunshine assured so plenty can be grown.

The landscaping materials are bamboo fencing for animal control, local river stone for borders and natural gravel paths. A small chicken enclosure is made of bamboo. A deep little no smell pig pen made of river stone foundation, cob walling, bamboo and nipa thatch is planned.

Care was taken to site the building between 4 established trees, 2 evergreen rainforest trees and 2 mature coconut palms. No trees had to be removed. Shading is important.

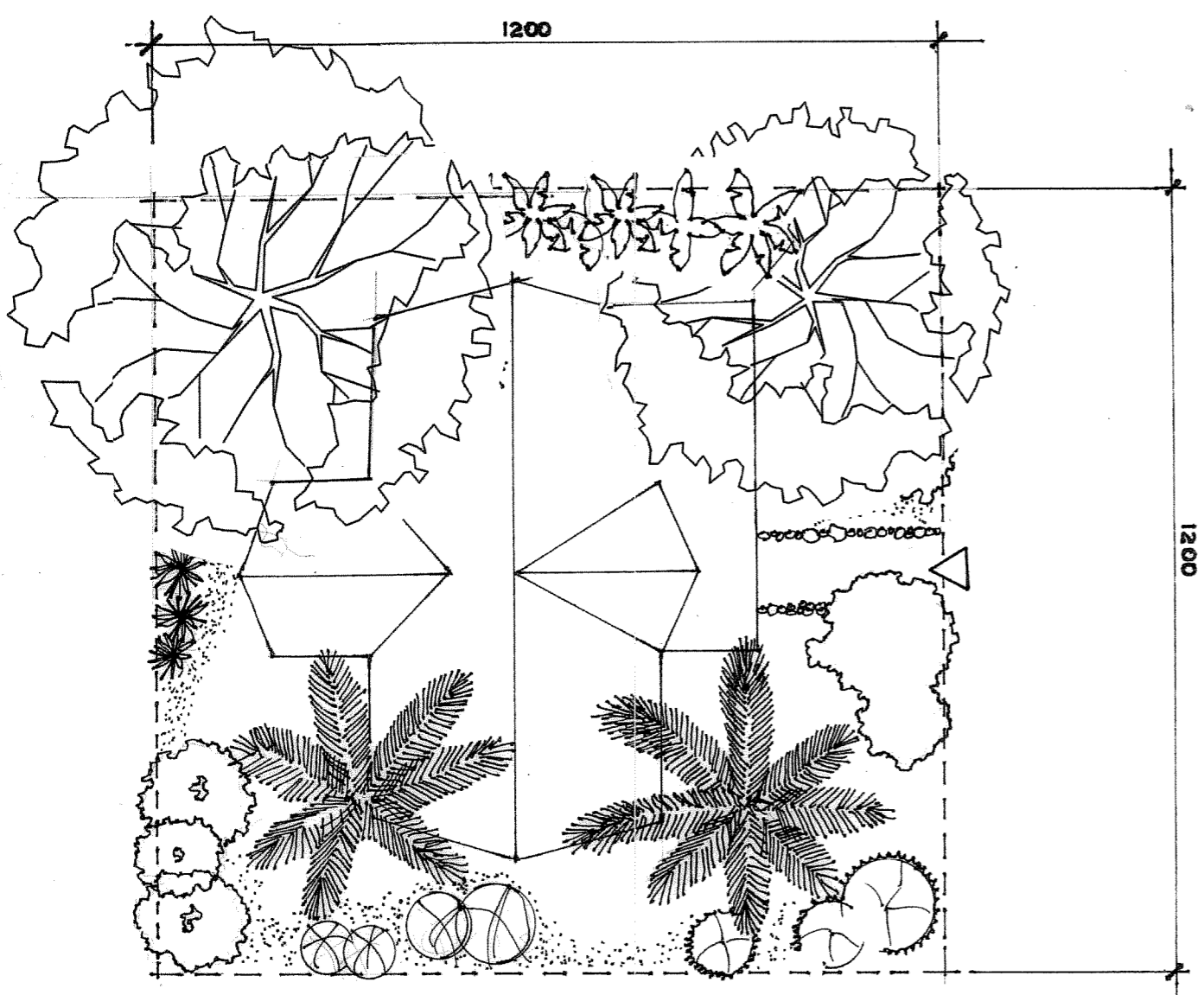
Banana palms and Calamance (a local small lemon) can be planted as an understorey around the perimeter. They will provide further shade for the house and vegetables and fruit. The stalks of the banana can be feed to the pig.

Clumping bamboo can be grown as a screen, for use as a building material around the house and garden and for the edible shoots.

There is plenty of space for local leafy vegetables, herbs and yams.

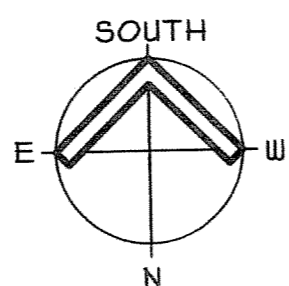
The material from the dry composting toilet and the pig and chicken litter becomes garden fertilizer.

Greywater is recycled from the bathroom through a vertical sand and gravel filter and utilised in swales for the garden.

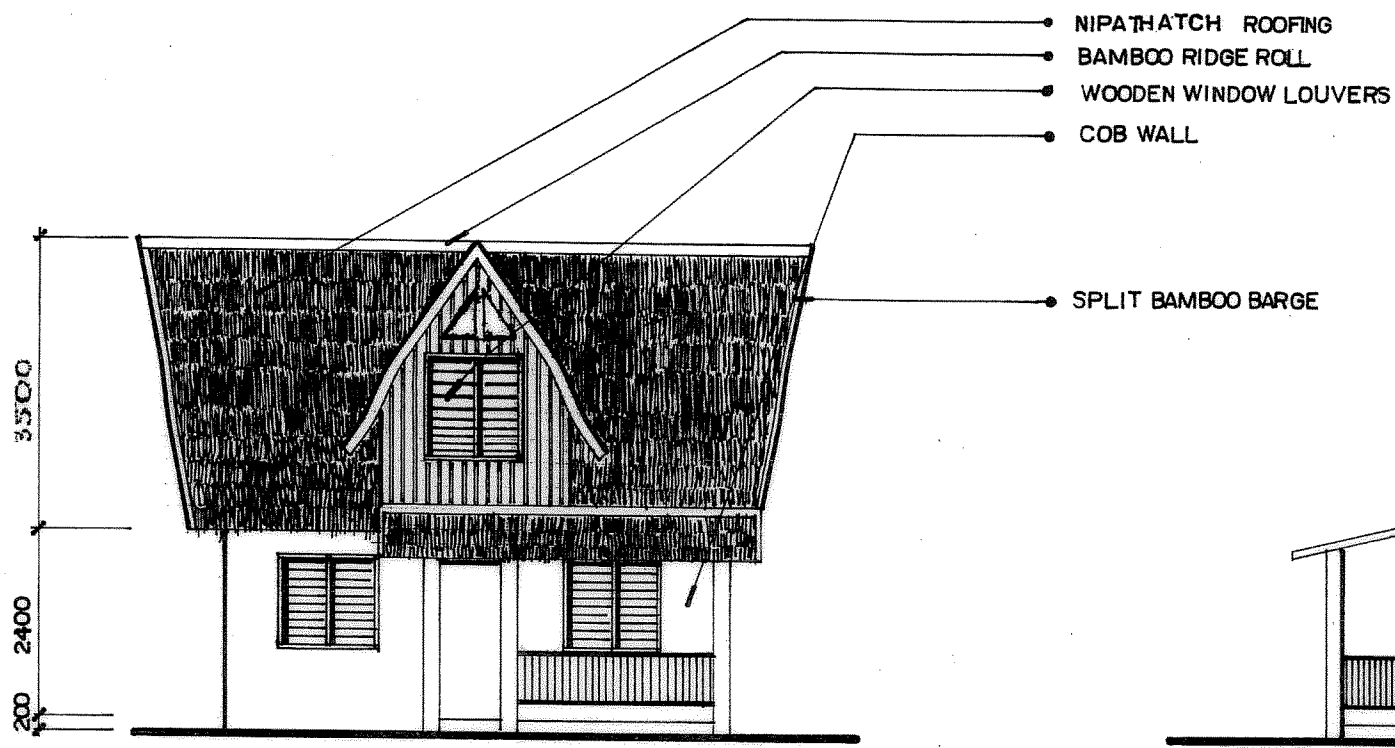


SITE DEVELOPMENT

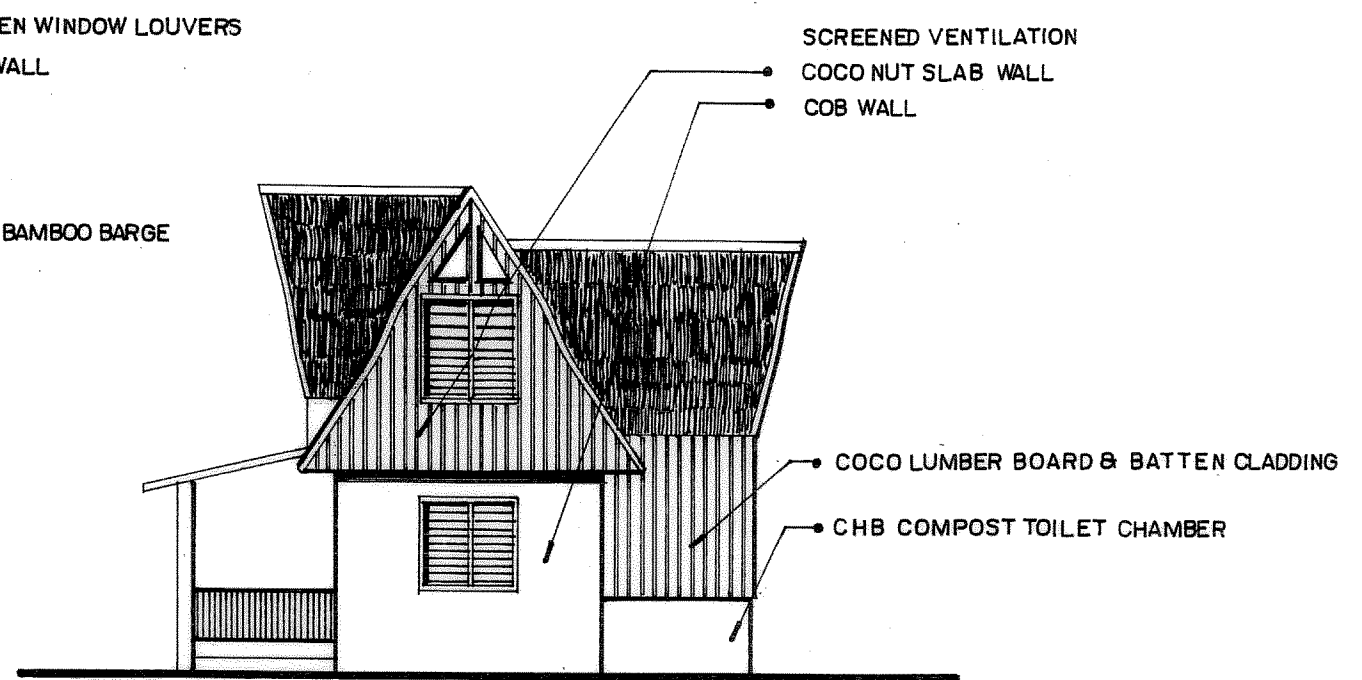
SCALE: 1:100M



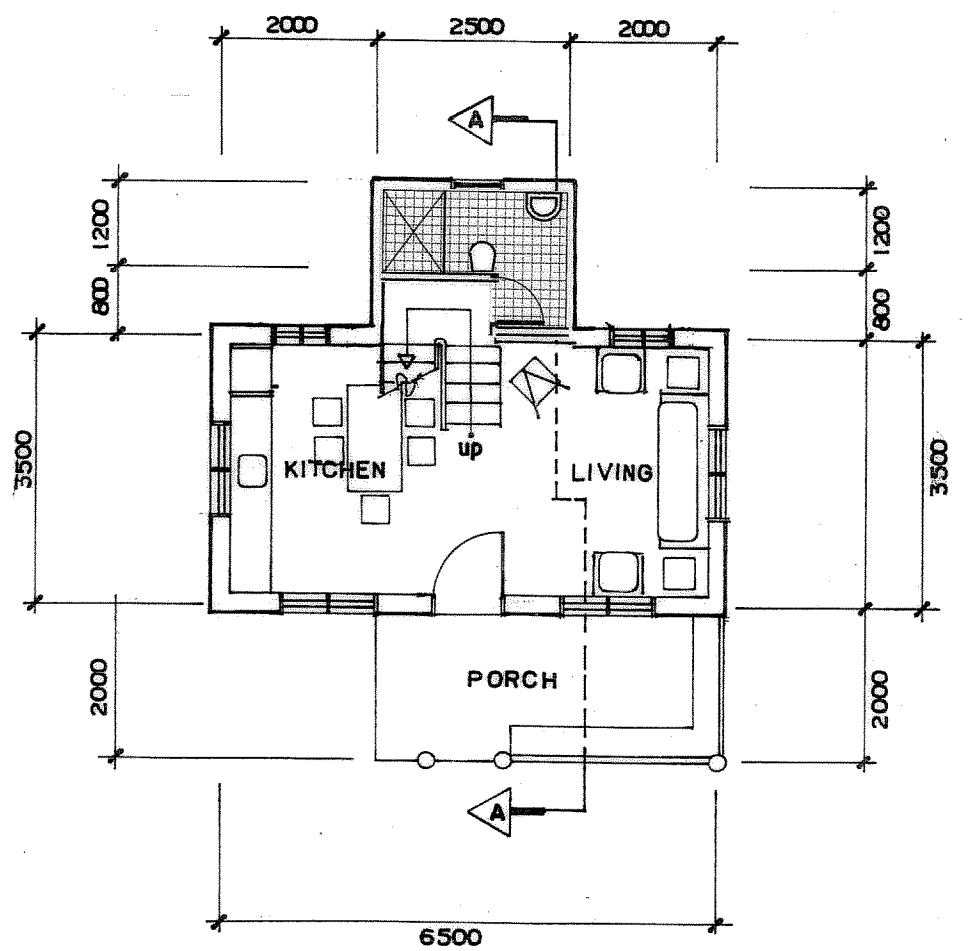
NORTHERN HEMISPHERE
LAT. 7° N



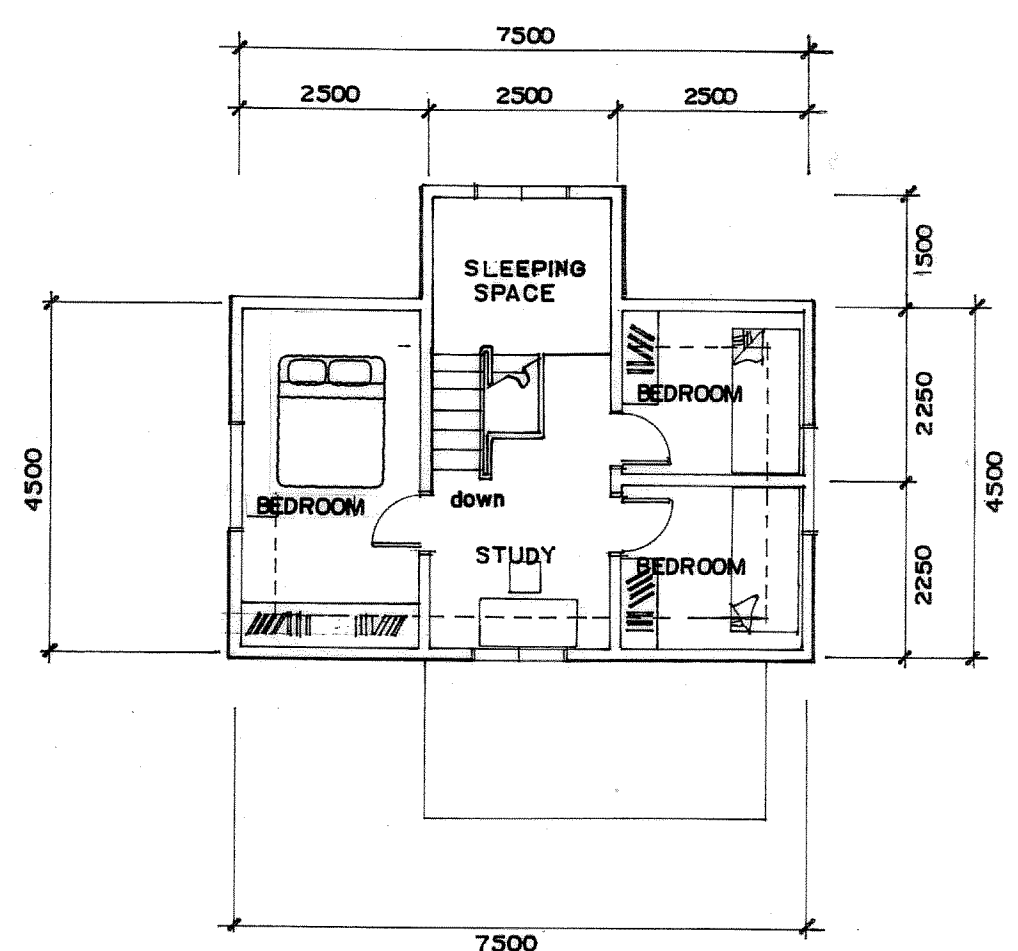
WEST ELEVATION
SCALE: 1:100



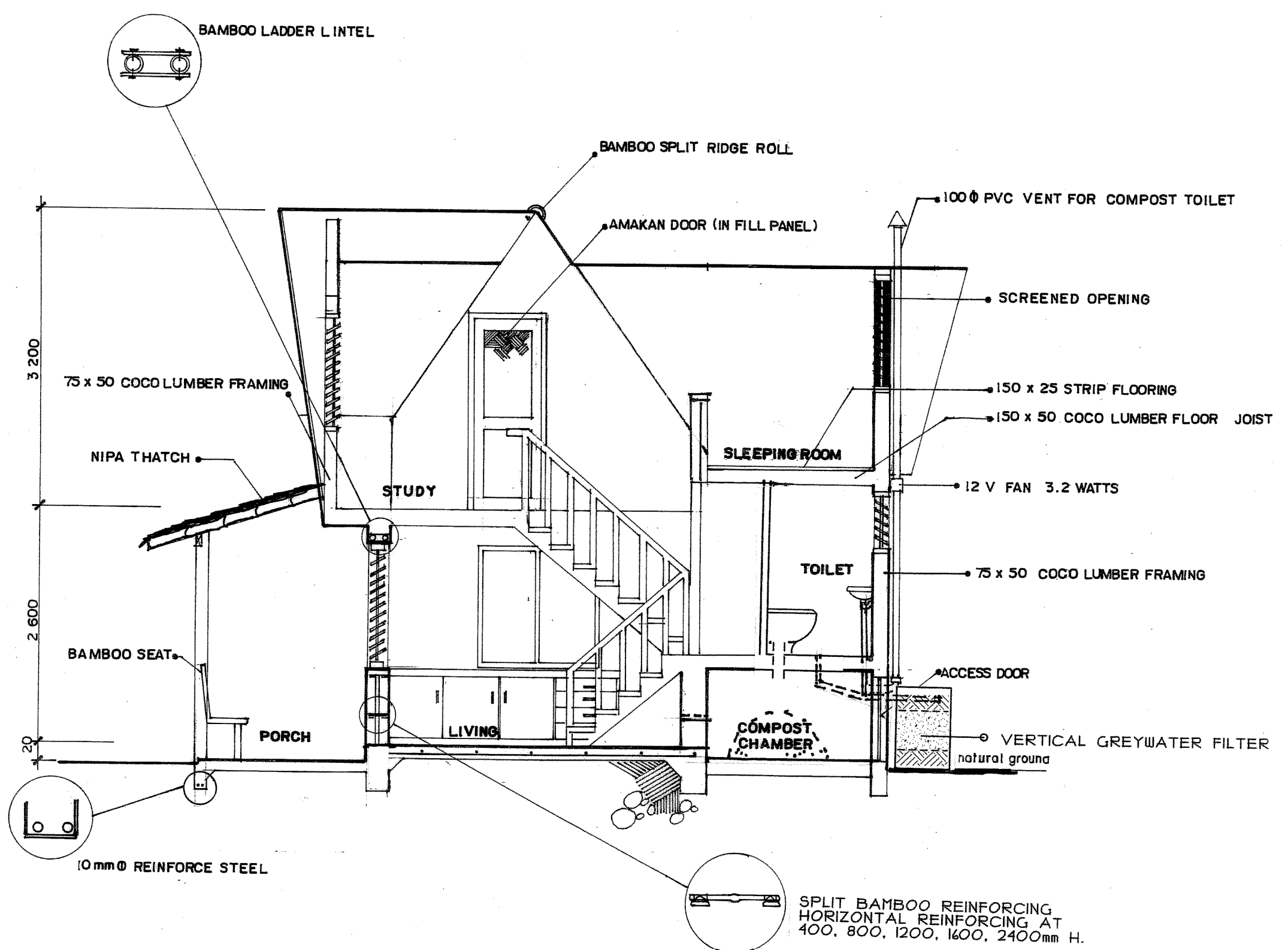
SOUTHERN ELEVATION
SCALE: 1:100



FLOOR PLAN
SCALE: 1:100M.



ATTIC FLOOR PLAN
SCALE: 1:100 M.



SECTION AA
SCALE: 1:50



Proposed prototype low cost
"House of the Future"
for
Gingoog City, Mindanao, the Philippines.

- Entrant:** Peter Hickson,
Australian Business Volunteer (ABV) Advisor.
and Gingoog Earth Building Company.
- Category:** Green Builder
- Philosophy:** Socio/economic, spiritual/cultural and ecological sustainability.
Appropriate, renewable, sustainable technologies.
- Location:** Gingoog (Hing-orrg) City, Mindanao, Philippines.
- Site Location:** Barangay 25, National Hwy, Gingoog City,
Missamis Oriental, Mindanao.
- Climate Zone:** Tropical. 7 degrees north of Equator
- Climate:** Warm humid coastal climate.
- Construction System:** Bamboo reinforced Cob earth, coco lumber and nipa thatch.
- Design:** Tropical
- Style:** Attic style using a blend of traditional indigenous ideas and materials with earth and minimal use of high embodied processed materials.
- Features:** Bamboo reinforced Cob earth construction system
Promotes better use of indigenous materials
Adds earth to the palette of sustainable options
Appropriate Climate Responsive Tropical design
Clever use of space using attic bedrooms
Builds out hazards and builds in longevity
Dry Compost toilet to reduce disease and illness
Greywater onsite treatment and reuse

