

Orchard House Presentation

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Vision Statement

- Provide a beautiful, aesthetically pleasing example of Permaculture in action
- Minimize waste, especially of fruit
- Teaching space: ~40 people; living space: 2 adults, one dog, and frequent guests
- Minimize ongoing maintenance and labor costs, including zero maintenance in the winter
- Thriving forest garden
- Local self-sufficiency and readiness for climate change and a post-petroleum world

Client Interview (I): Priorities

- Aesthetics preserved with beauty throughout the landscape
- Producing a food surplus to share with many people
- Plan B readiness for lifestyle change in a changed world
- Serve as a Permaculture teaching model for others
- Minimize labor inputs with low maintenance landscape
- No maintenance in winter

Client Interview (II): People

- Spend at least 2 weeks out of every month in the winter away
- Two people, one dog, frequent guests
- Providing own food not high priority
- Not involved in gardening nor do they wish to be

Client Interview (III): Property

- Oldest living orchard in the region, planted in 1916
- The property is used for fundraising events and teaching throughout the year.
- The property has rights to ditch along the western edge of the property.

Client Interview (IV): Problems

- Need to reduce labor costs.
- Difficulty with neighbor to north
- Bears/wildlife
- Fruit wasted
- Irrigation system issues

Base Map/Model

Observation and Research

- Overlays with site analysis
 - Sector
 - Zone
- Species lists
 - Apple Tree Guild
 - Medicinal plants
 - Plants for bees
 - Nitrogen fixers
 - Dynamic accumulators

Observation and Research (II)

- Invisible structures
 - Aesthetics
 - Use of property by owners/guests
 - Neighborhood relations
 - Easements

Preliminary design ideas

- Greenhouse
- Ditch
- Fence
- Pig
- Bees

Final Design

- blow-ups
- dive into design

Selected Design Elements

- Greenhouse
- Apple Tree guild
- Bees
- Food forest
- Nut trees
- Flood mitigation system
- Dovecote
- Compost
- Herb spiral

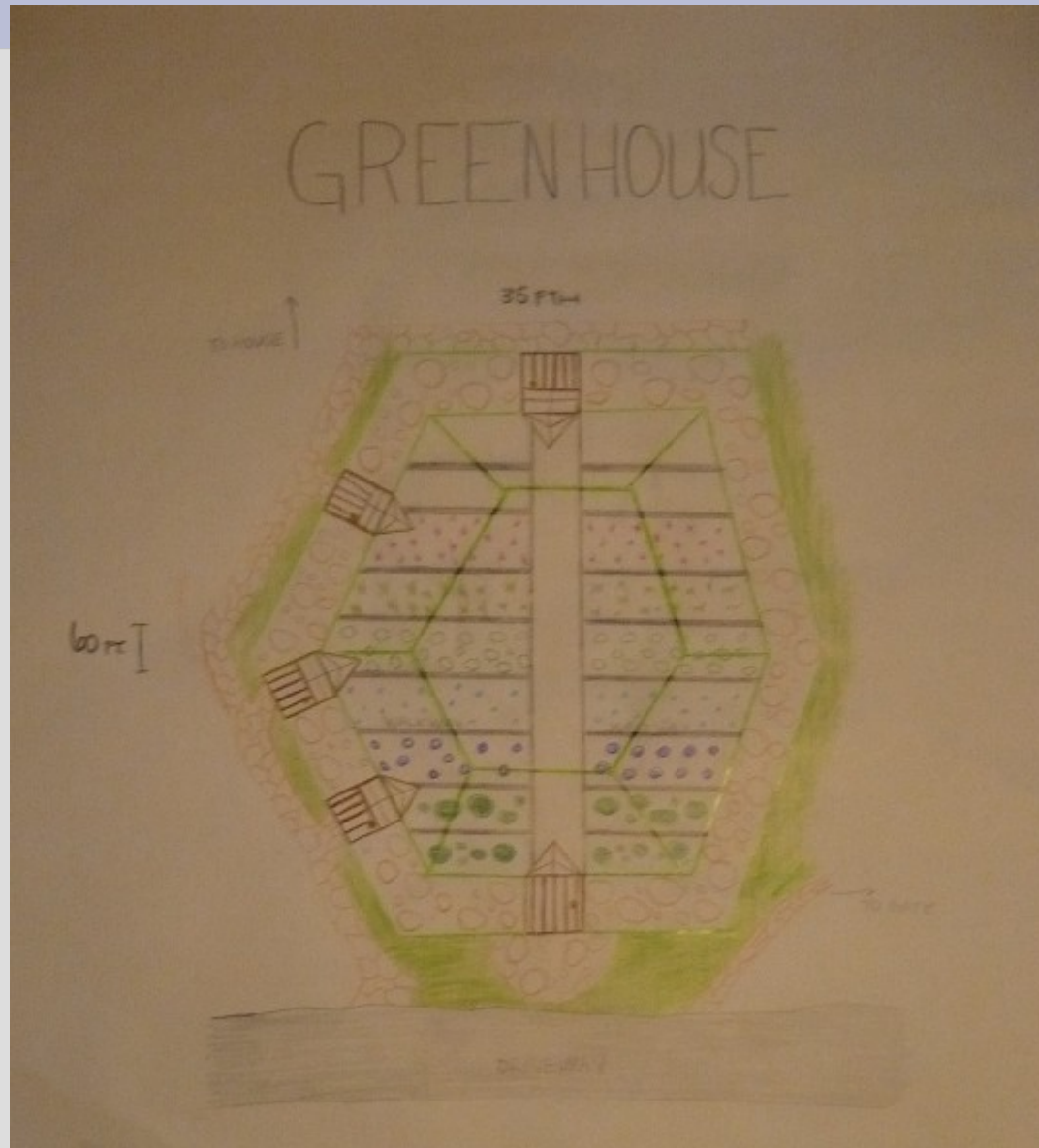
Green house

- Options

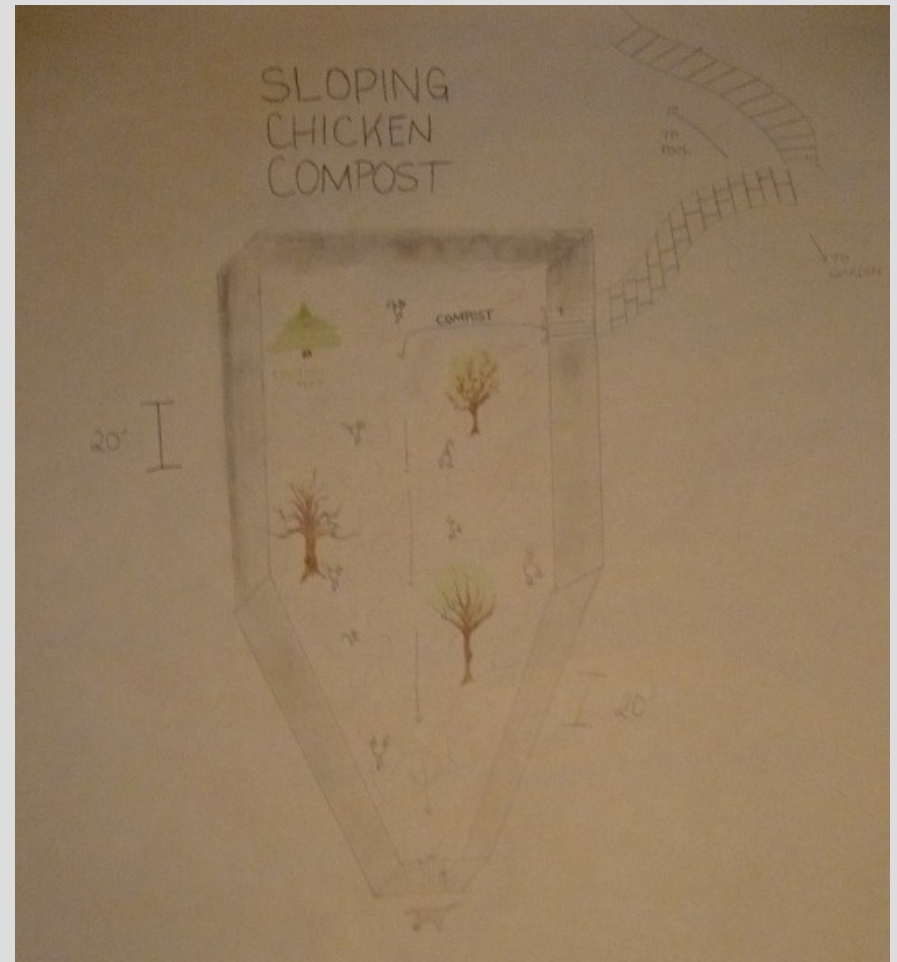


Green house (II)

- Design



Compost



Apple Tree Guild

- Permanent pathways for access
- Community of plants, gradually decreasing in height around each tree or cluster of trees
- Avoid
 - Dead leaves, hawthorn, cedar, juniper, pyrocantha, black walnut, grasses
- Pest control
 - Predator wasps of coddling moth: Trichogramma, Braconid, and Chalcid

Apple Tree Guild (II)

- Plants to include
 - Daffodils
 - Insectary plants like dill and yarrow
 - Mulch plants like rhubarb
 - Nutrient accumulators like chicory and dandelion
 - Nitrogen fixers like clover
 - Soil fumigants like marigolds
- Animals to include
 - Consider Blue Orchard bees
 - Add habitat for other predators

Apple Tree Guild (III)

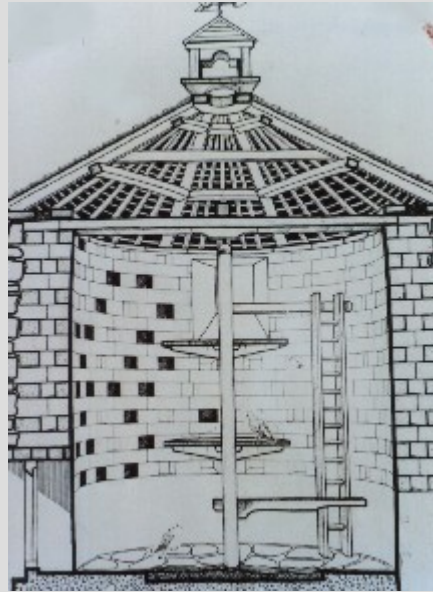
- It's a start



Apple Tree Guild (IV)



Dovecote



Bees (I)



Bees (II)

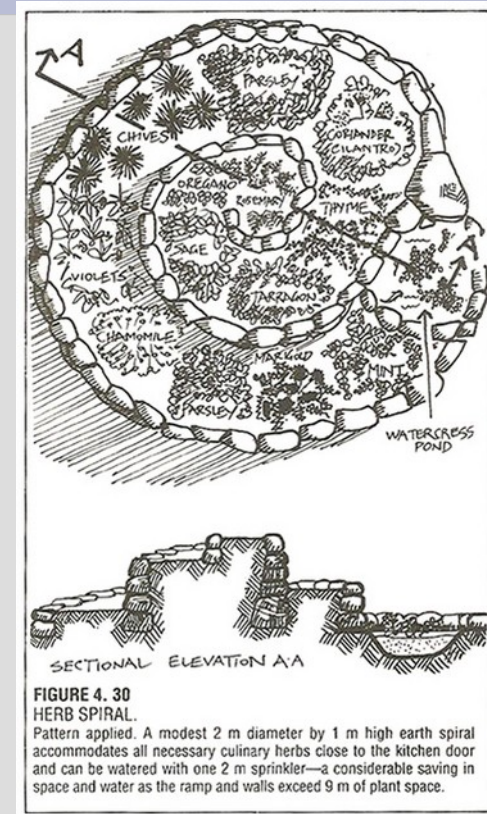
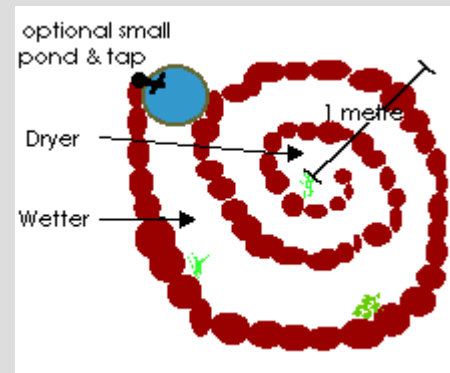
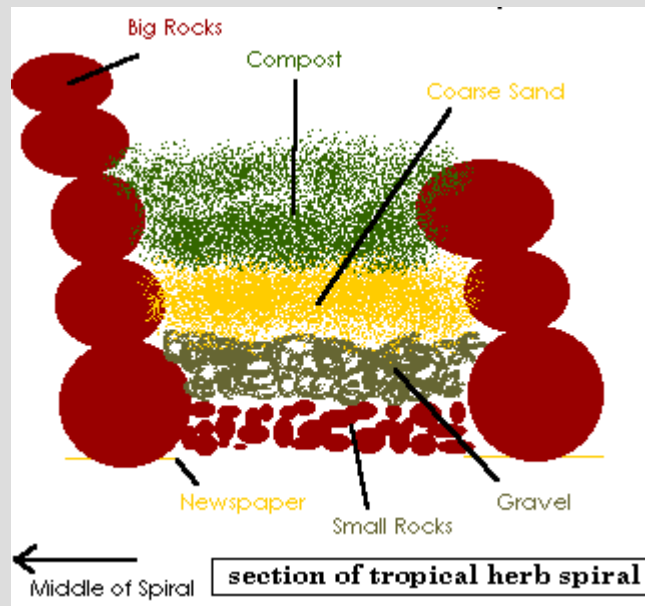
- Blue Orchard bees
 - No honey
 - Increased pollination



Culinary Herb/Greens Spiral



Culinary Herbs/Greens Spiral (II)



Swales

- Courtesy of <http://www.remuddling.com/home/archives/291>



Tour

Invisible Structures

- Abalon Guild
- Orchard/herbal CSA for next year
- Volunteer list

Implementation Plan

- Food Forest (start now)
- Fishscale swales (this fall)
- Apple tree guilds (next spring/fall)
- Stepping stone pathway connecting the test guilds (as time permits)
- Compost Area (this fall))
- Greenhouse (next spring for seed production, later if not needed)

Implementation Plan (II)

- Driveway drainage channels (before winter)
- Hives/equipment for beekeeping (this fall, next spring, or next fall)
- Herb/salad spiral (build now, plant in spring)
- Brewing/Canning facility (next harvest)
- Dovecote (far future—needs planning)

Thanks

- Orecks
- Hi Alt PDC 2008
- Apple bites