



Fundamentals of Design:

Permaculture and Regenerative Systems

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WILD ROOTS FARM VERMONT

What is the greatest potential for a site ?



Viewing the landscape with a whole systems approach

- ▶ Observe
 - ▶ Patterns, Transitions, Emotional reactions
- ▶ Understand
 - ▶ Methods of communication, Roles within the living system
- ▶ Develop
 - ▶ Relationship with the land, wildlife, weather
- ▶ Define
 - ▶ Mission, Vision, Goals, Project Impact

How does a site influence the design?



How does the mission influence the site?



Permaculture Principles

- ▶ Observe & Interact
- ▶ Catch & Store Energy
- ▶ Obtain a Yield
- ▶ Self Regulation & Feedback
- ▶ Use & Value Resources
- ▶ Produce No Waste
- ▶ Design Patterns at Various Scales
- ▶ Integrate Rather than Segregate

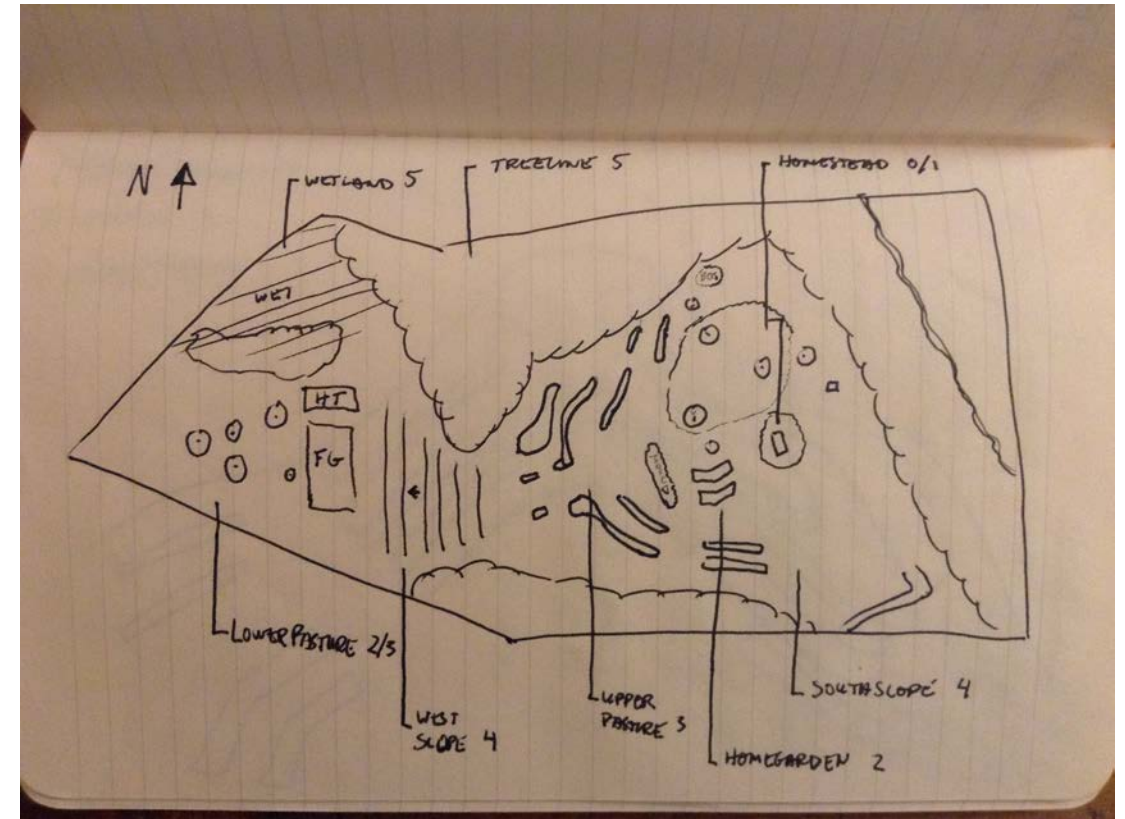


Permaculture Principles

- ▶ Small, Slow Solutions
- ▶ Use & Value Diversity
- ▶ Use & Respond to Change



Site Analysis & Assessment



Zones of Use

- ▶ Zone 0 Private- Home, Self
- ▶ Zone 1 Personal- Kitchen garden, Pathways
- ▶ Zone 2 Public- Chickens, Greenhouse
- ▶ Zone 3 Farm- Row crops, Bigger livestock
- ▶ Zone 4 Forage- Orchard, Pasture, Managed woods
- ▶ Zone 5 Wild- Unmanaged woods, Wildcraft, Sacred space

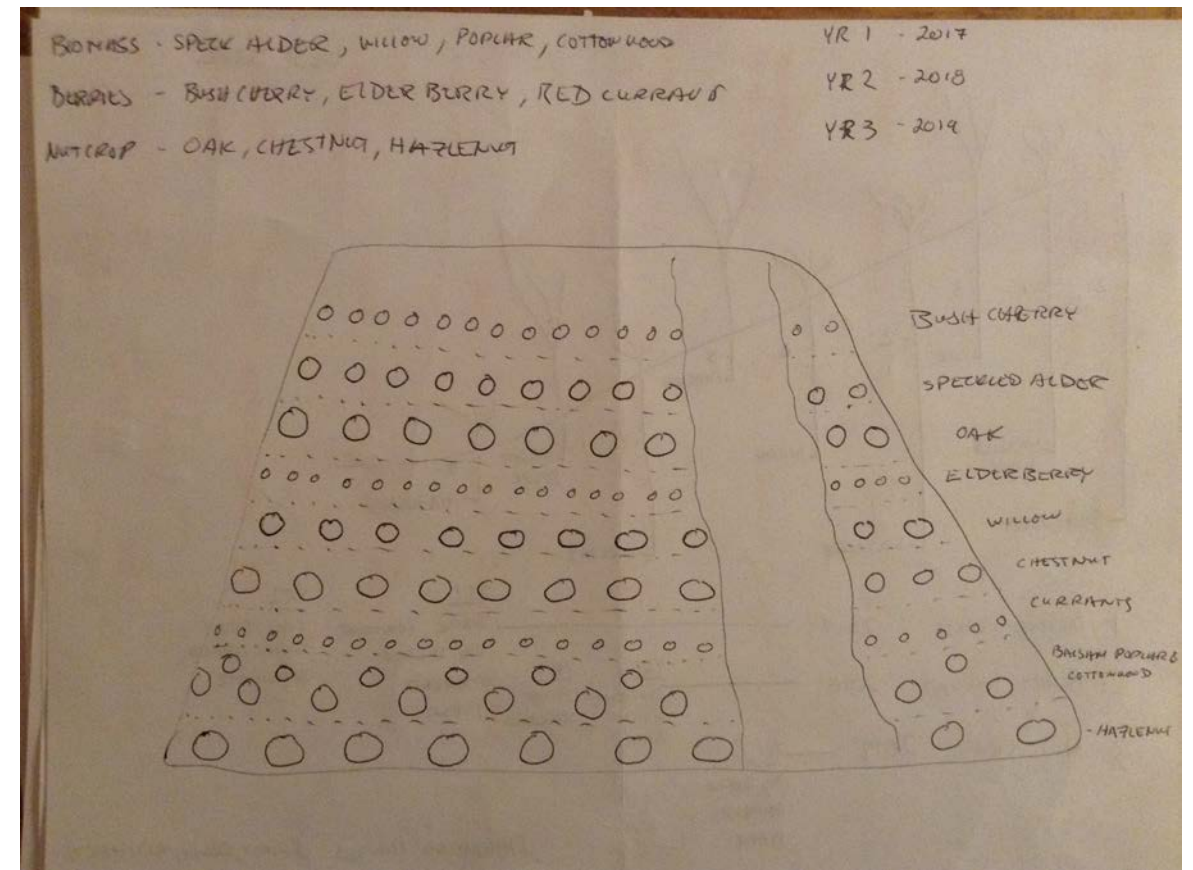
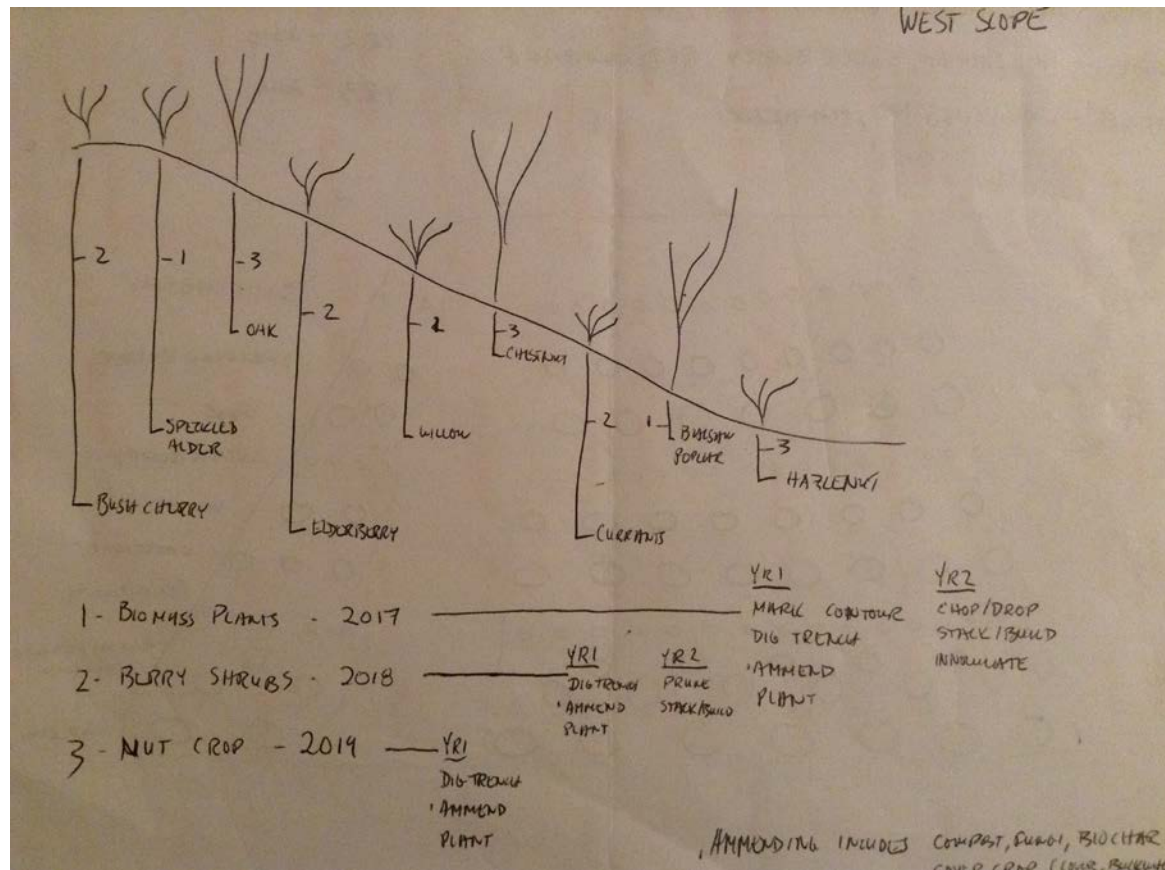
Resources & Opportunities

- ▶ Timber Stand- Lumber, substrate, wildcrafting, forest farming
- ▶ Slopes- Terrace gardens, micro-climates, maximize site yield, wildlife habitat
- ▶ Wetlands- Wildlife corridor, mushroom cultivation
- ▶ Pasture- Rotational grazing, perennial polycultures, annual production
- ▶ Location- Public gatherings, workshops, farm-stand

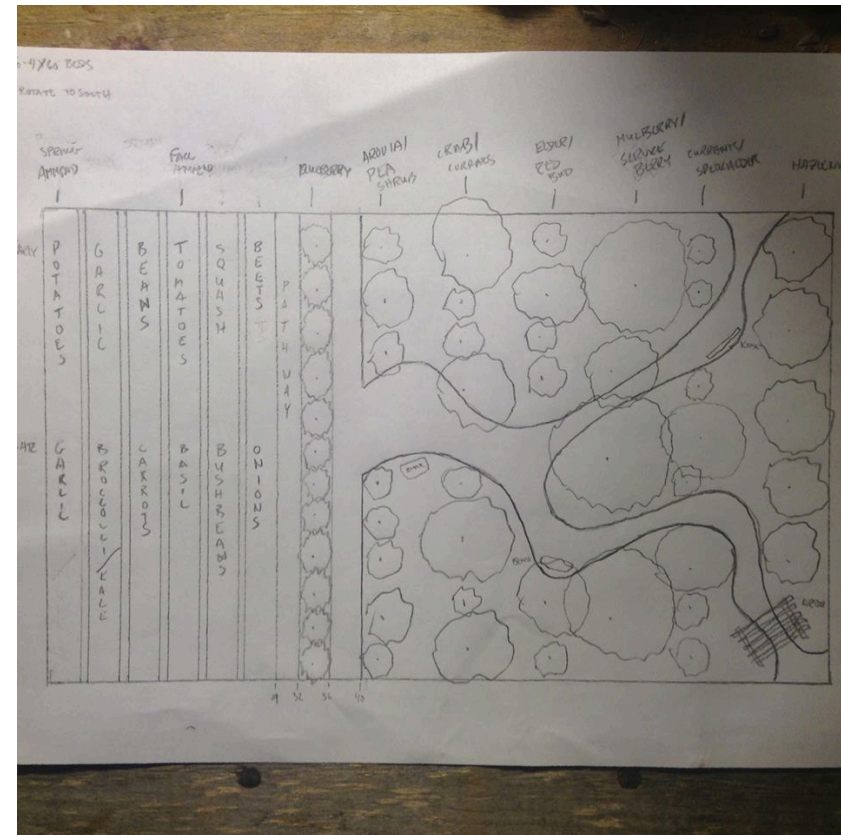
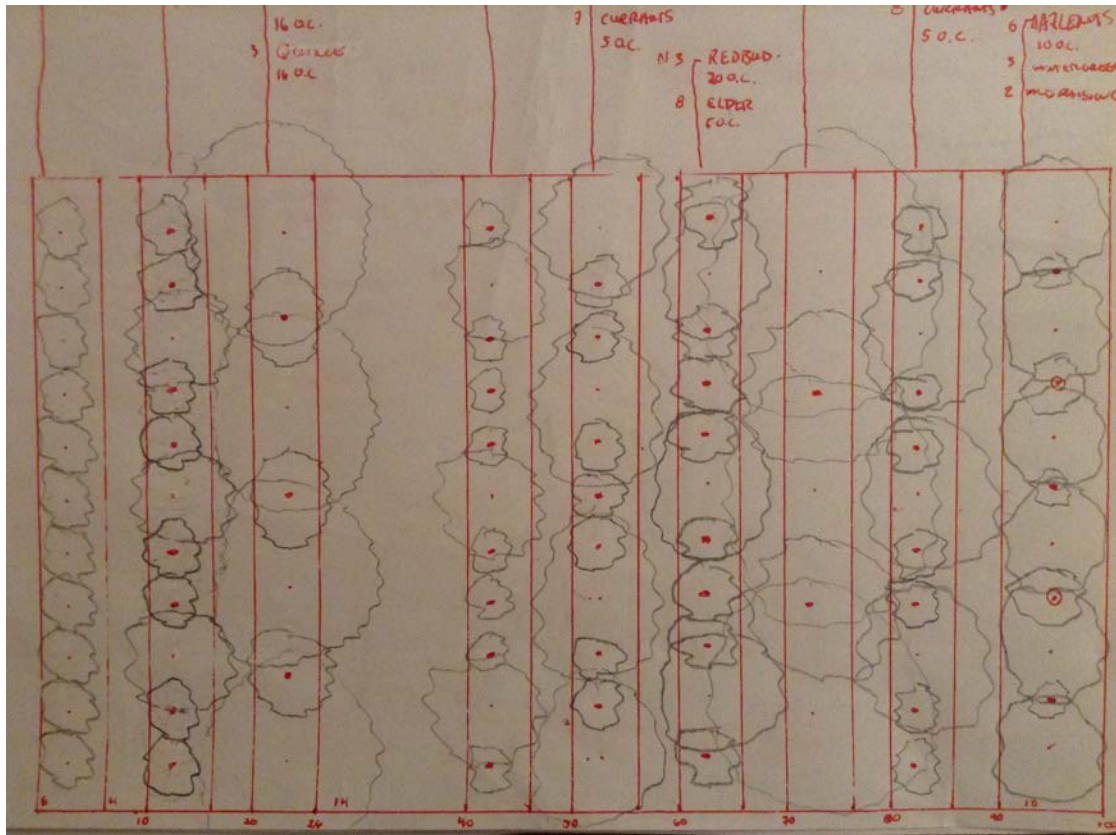
Viewing the greater landscape



Limitless Vision



Integrating Diversity



What is the essence of the project?

- ▶ Bio-diversity, Community, Health & Vitality?
- ▶ Identify- Purpose, Process & Values
- ▶ Obtain- Purpose Statement
- ▶ Define- Mission, Vision, Goals, Timeline, Measures of Success
- ▶ Evolution occurs when we embody the essence of creation and are influenced by the desire to reach our greatest potential in this life.

Shifting our perception of space

- ▶ Observe- People & Place
- ▶ Understand- Patterns
- ▶ Accept- Perspective
- ▶ Determine- Essence
- ▶ Harmonize- People & Place
- ▶ Co-creation- Evolution



Site Examples



Keyline



Swales & Contour Planting



Forest Farming



Alley Cropping & Silvo-pasture



Rotational Grazing



Terraces



Terraced Polycultures



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