University of Idaho McCall, ID Field Campus

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Presentation elements

1. Mission Statement, Goals, Objectives
2. Initial Schematic Designs
3. Site Analysis
4. Site and Building Program
5. Master Plan
6. 3-D Model
7. Strategic Site Section
8. Schematic designs
9. Carbon emission reduction strategies

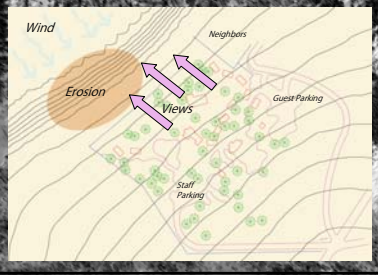
Mission Statement

At McCall Field Campus our vision is to educate users to current green building technologies in a navigable and naturally beautiful camp setting.

Goals

- Educate
- Navigate
- Appreciate Nature

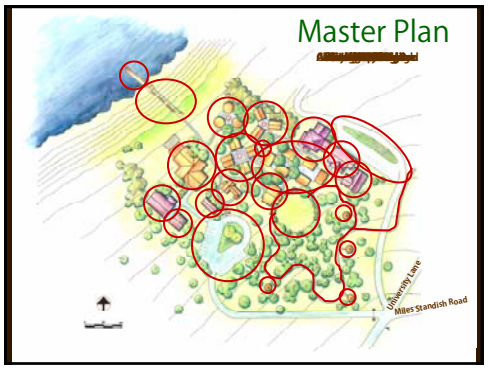
Site Analysis



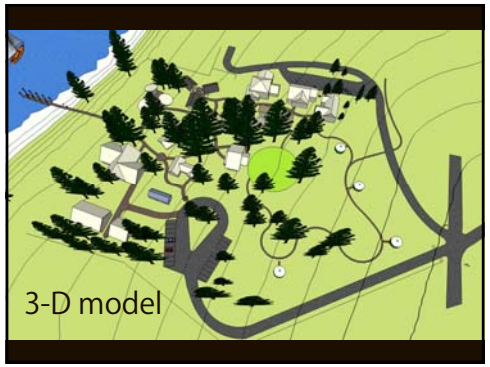
Preliminary Design

Preliminary Master plan

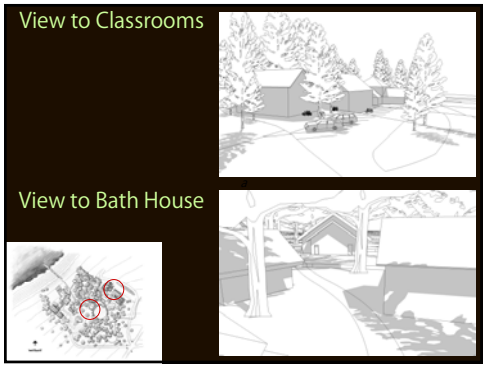
Master Plan

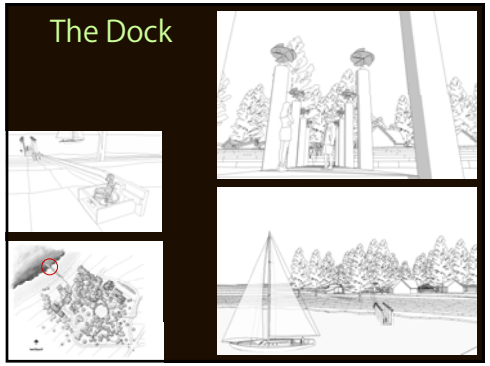


Site Section

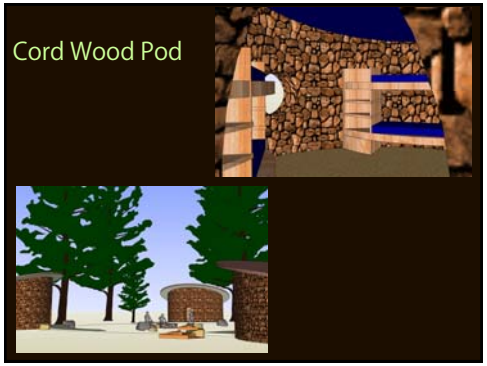

3-D model

Guest
Entrance Views


View to Classrooms
View to Bath House


The Dock

Straw Bale Pod

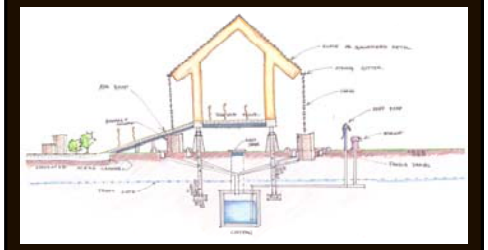

Cord Wood Pod

Straw Bale & Rammed Earth Pods

Patio Plan

Straw Bale & Cord Wood Pods

Conceptual Pod Mechanics



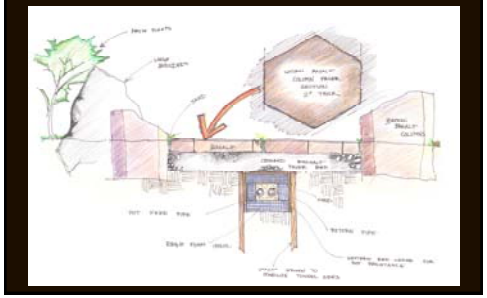
Wood Burning Boiler Unit

TARM Wood Gasification Boiler

85% Efficient

1,800 Degree Combustion Temperature

Conceptual Path Section



Carbon Emission Reduction Strategies

- Living Machine
- Cisterns
- Trees
- Alternative Building Materials
- Cold Roof Design
- Transportation

Carbon Emission Reduction Strategies

Minimal Site Disturbance
Heat Plant
Food
Wind turbines on dock pilings
Parking

Carbon Emission Reduction Strategies

By reusing the cabin wood we are saving 2.34 tons of Carbon Dioxide (Calculations available upon request)

Questions?

Thank you for your time.