

Ecological Demonstration, Education and Training center Northern Arizona University "Wild Bill Ranch"

Introduction

We have been commissioned by Northern Arizona University (NAU) to provide a concept, master plan and an approx 5,000 square foot building design for a 25 acre site. This site was donated by the Babbitt Ranches to the Ecological Monitoring & Assessment Foundation (EMAP). See provided materials for a brief description of the mission of this organization.

The site

This site is located in the Coconino National Forest and was part of the southern edge of the Cobar section of Babbitt Ranches. The Babbitt Ranches cover 704,000 acres, 270,000 are privately held, 304,000 are leased state lands and 130,000 are federally managed leased lands. These lands form a large portion of the region known as the Colorado Plateau.

You will be provided with preliminary assessment of the geology, soil types, hydrology and biology of the site as well as a draft cultural resources inventory of the site and surrounding areas. These materials need to be studied, and any questions formulated prior to our visit to Flagstaff for our meetings.

The project

The mission and goals of the EMAP are related to the proper management of the Lands of the Colorado Plateau and this project is to be designed to support these objectives. EMAP is interested in developing the land for an ecological demonstration, education and training center.

The project can be defined as having three components:

- a. Visioning
- b. Master site planning, and
- c. Facilities design.

Much of the actual programming will occur on our visit to Northern Arizona and in discussions with Dr. Tom Rogers who is heading this project.

Process

As a critical element of any ecological design comes from the site we will be spending three days in Northern Arizona meeting with the clients, experts on the region and ecological systems design. We will also be touring the City of Flagstaff and the local area to gain an understanding of the vernacular architecture of the region. We will camp on the site and meet with our faculty to look at a variety of design determinates on the site. Prior to our departure from Prescott you will have an introduction to some of the tools and concepts we will study at the site location.

Much of the program will result from a charrette to be held in Flagstaff with a number of the stakeholders. This will be an opportunity to listen to the ideas of the client, ask questions and gather data. It is not anticipated that this will be a design charrette although some design concepts will result

and be documented at this meeting. You need to be well prepared for this meeting as this will be the only opportunity to meet with this group.

Schedule

Our schedule for this visit is as follows:

September 24	September 25	September 26
8am - Depart Prescott	9am - Meet Tom Rogers in Flagstaff and others (Water Catchment Expert, Wind Energy Expert, Water Treatment Expert)	9am -Ecosa Site Analysis with Consultants:
10am -Visit Site/ Meet Tom Rogers		Patti Olson – Bio-climatic Design & Solar Access
12pm - Lunch in Flagstaff	12pm – Lunch	Andrew Millison - Permaculture & Southwest Ecology
1pm –Guided Tour of Flagstaff	1:00pm - Charrette	Suzanne Smith – Feng Shui
4pm – 1hr. Free Time in Flagstaff	4pm – Free Time	3pm Depart
5:30pm – Dinner Cookout at Site/ Make Camp	5:30pm - Dinner	

There are a number of milestone dates that need to be met which are as follows:

- October 28 Interim Review in Prescott by Tom Rogers & Others
- November 19 Interim Review in Prescott by Tom Rogers & Others
- December 10 Final Presentation in Prescott (All Stakeholders Welcome)

Please note that these dates may be subject to change.

Project deliverables

The following materials are to be ready for presentation to the client at the end of the semester.

Vision/Concept

This can be in any format you select however it needs to be easily reproduced. It is intended as a marketing, education, fundraising tool that will clearly define the goals of this project both short term and long term.

Master planning

This master plan will focus on the land and its uses as an ecological demonstration project and educational resource. It should focus attention on the sustainable use of the Colorado Plateau and use the site in a way that is both sensitive and ecologically sound. The locations of the various components in the project need to be defined and an assessment of alternative locations may be necessary if there are options for siting various components.

Building design

We will take this project to schematic design level. The final design presentation materials must be easily reproducible and include:

Site plan showing location of building and any ancillary land disturbances in the vicinity of the building.

Plan(s) Elevations and sections to a minimum 1/4" to 1'.

Model of the building in its context.

Supporting materials

These materials will be a documentation of the research and development showing all necessary data to show that the building will work as intended. This will include water calculations, heating and cooling diagrams and calculations, energy requirements and system sizing, construction materials, availability and sustainability implications.