

# The Environmental Studies Lab: Expansion

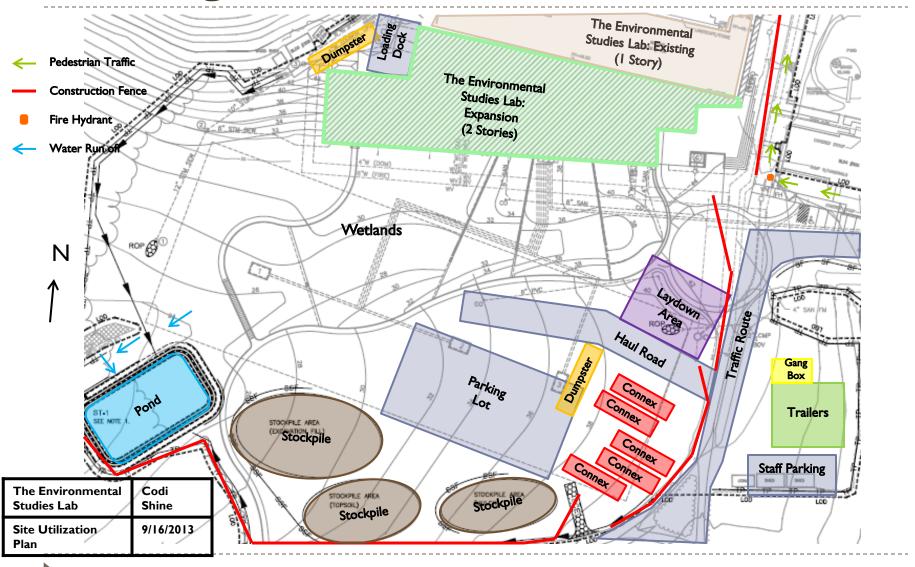
East Coast, USA Codi Shine

### The Owner

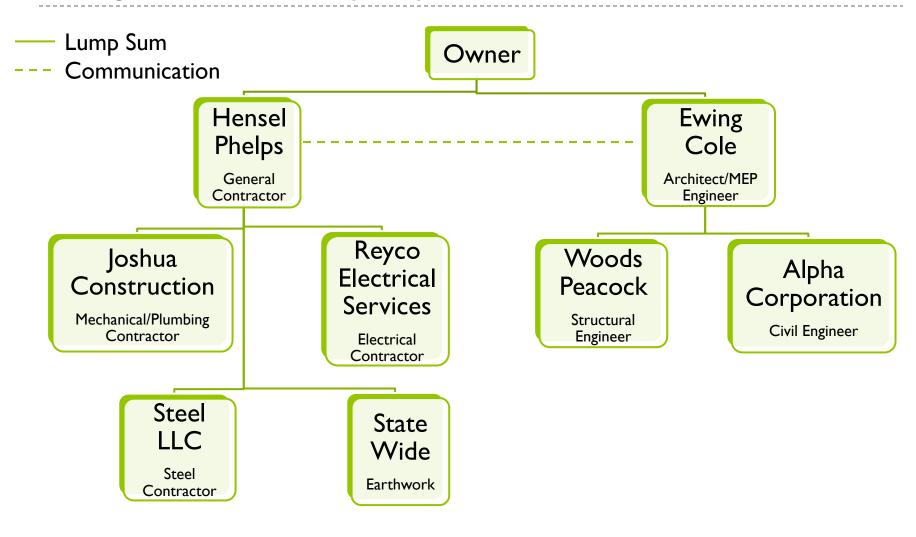
- Who?
  - ▶ Environmental Scientists
- Why?
  - Inadequate space
  - Out-of-date equipment
  - Sustainable Site
- ▶ LEED Platinum



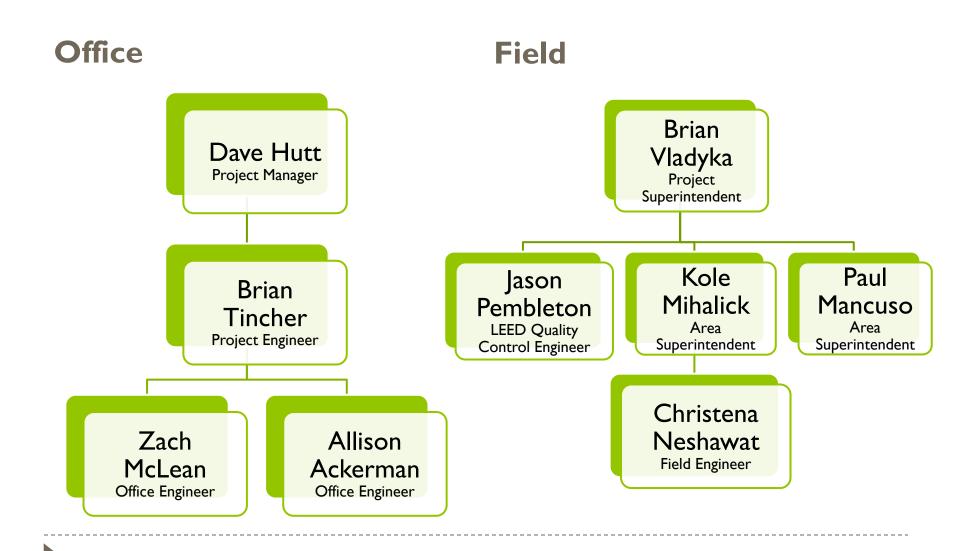
## **Existing Conditions**



## Project Delivery System



## Staffing Plan



## **Building Systems Summary**

#### **Structural System**

- Reinforced Concrete
- Steel Frame
- Roof Metal Decking and Steel Beams



#### **Exterior System**

- Brick Veneer
- Fiber Cement Siding
- Corrugated Metal Panels
- Curtain Wall System



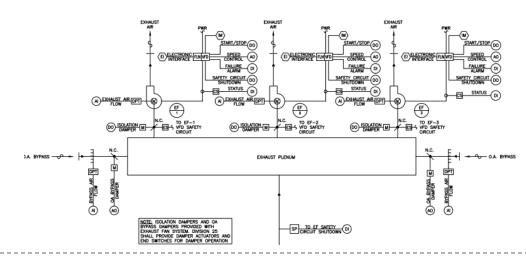
## **Building Systems**

#### **Mechanical System**

- 250 Geothermal Wells
- 4 100% Outside Air Handlers
- 5 Enthalpy Wheel

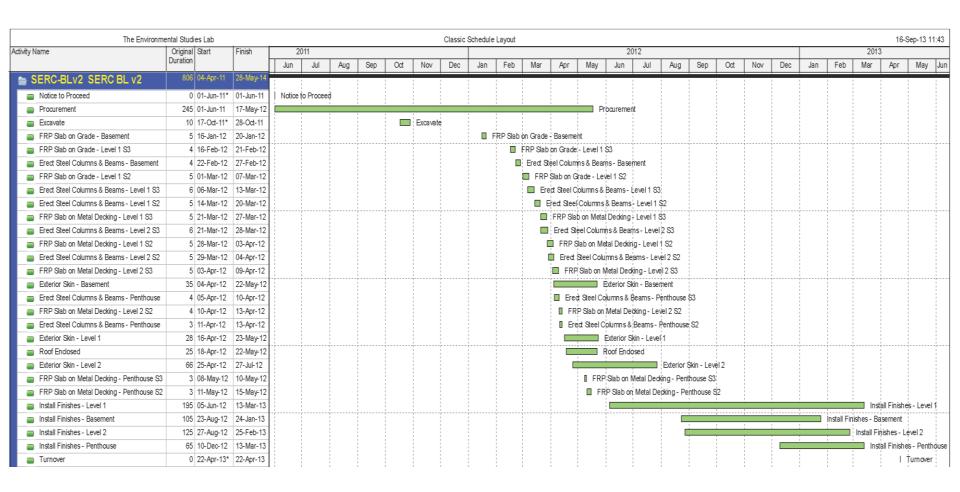
#### **Electrical System**

- Automatic Transfer Switch
- Dimmable Controls and Occupancy Sensors
- New Transformer





## Schedule Summary





## Project Cost Summary

- Construction Cost= \$39,000,000
- ▶ Total Project Cost= \$42,000,000
- Building Systems Cost:
  - Mechanical/Plumbing and Controls System= \$11,200,000
  - ► Electrical System= \$2,800,000
  - Structural System= \$3,500,000
- Square Foot Estimate = \$16,000,000