REVITALIZING LAKE LAVERNE: A PARAMETRIC MODELING STUDY

By Kelsey Fleenor
Project Advisor: Pete Evans

Site Plan

A. MAP PATHS
   - Allows for outdoor class activities
   - May be used as another classroom or a performance space

B. PAVILION
   - Acts as an alternate space for students to work outdoors
   - Provides basic shelter for outdoor activities (shade, protection from rain, etc.)
   - A safe area at night for safety

C. SCREEN WALL
   - Mutes the sound of traffic
   - Provides a partition for the space
   - Helps prevent pedestrian traffic from AWAKING
   - Provides signage for Iowa State
   - Guides pedestrians through the site
   - Creates a sense of place
   - Provides a decorative element

D. BRIDGE
   - Shades lake bottom, thereby hindering algae blooms
   - Lets users feel connected to the site
   - Makes the site more interactive and pedestrian friendly
   - Provides alternative method of exploring with Lake Laverne

PLANT MAP

EXISTING PLANTS
- DECIDUOUS TREES
- CONIFEROUS TREES
- PERENNIAL PLANTS

NEW PLANTS
- DEEP WATER PLANTS
- SHALLOW MARGINAL PLANTS
- SUBMERSIBLE PLANTS
- FLEETING PLANTS
- SUBTROPICAL PLANTS
- CONIFEROUS PLANTS
- DECIDUOUS TREES
- PERENNIAL PLANTS

ALGAE PREVENTION

FLOATING PLANTS
- Adds visual interest and movement to the water
- Helps in the prevention of algae growth

PLANT PALETTE

- Green Arrowhead
- Blue Arrowhead
- Yellow Arrowhead
- White Arrowhead
- Pink Arrowhead

BUILDING PROGRAMS

- MEDIAN
- LIVE EDGE
- RAINWATER
- TOWER
- NAVIGATION

NODAL AND CONNECTIONS

- RED: NODAL
- GREEN: PATHS
- BLUE: WATER
- WHITE: LAND
- BLACK: ALL MASTS

LANDSCAPING