REVITALIZING LAKE LAVERNE: A PARAMETRIC MODELING STUDY

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Site Plan

A. WAVESPACE
- Allows for outdoor class activities
- May be used to extend a classroom on a performance space

B. PAVILION
- Acts as an alternate space for students to work outdoors
- Provides basic shelter for outdoor activities (shade, CAFÉ, etc.)
- Eight-path at night for safety

C. SCREEN WALL
- Masks the sound of traffic
- Provides a partition for the space
- Enhances pedestrian flow and safety
- Provides signage for Iowa State
- Choice view corridor through the site
- Wraps around the site to create smaller spaces

D. BRIDGE
- Shades lake waterfront, thereby hindering algae blooms
- Curves to encompass the site
- Makes the site more interactive and pedestrian friendly
- Provides an entry/exit function for interacting with Lake Laverne

PLANT MAP

EXISTING PLANTS
- DECIDUOUS TREES
- CONIFEROUS TREES
- PERENNIAL PLANTS

NEW PLANTS
- DEEP WATER PLANTS
- SHALLOW MARGINAL PLANTS
- TOMATO SHELL PLANTS
- DRAKE MARGINAL PLANTS
- WETLAND PLANTS

ALGAE PREVENTION

FLOATING PLANTS
- Floating plant barriers
- Floating plant covers
- Floating plant filters

PLANT PALETTE

- Wildflowers
- Perennials
- Shrubs
- Groundcovers

NODAL AND CONNECTIONS

IDAHO SPRUCE
- WEST COAST PINE
- WHITE BARK PAINTED BARK
- RED WINGED BLACKBIRD
- BLACK MOTH
- BUCK EYE AGAVE
- MEXICAN BLOOMING HUSK
- PLATINA
- BLOOMING HUSK
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