

ARCHITECTS LANDSCAPE ARCHITECTS PLANNERS

ARCHITECTS

AGENDA

/// PROCESS

/// SITE ANALYSIS

/// DESIGN PREMISES

/// DESIGN

/// SUMMARY



GOALS

FUNCTION - People/Activities/Relationships

Create a PLACE for researchers, students, families and visitors - that promotes research and education supporting OCEAN and COASTAL ecosystem RESTORATION and SUSTAINABLE MANAGEMENT.

Make use of the opportunities presented by the **PROXIMITY** to the **OCEAN** by providing educational experiences, programs and exhibits that cannot be duplicated in a conventional setting or classroom.

To INTERPRET the history of the site and region and recognize fishing, lumber, and Pomo tribal legacies.

To create a facility that expresses the goal of moving from **EXTRACTION** to **SUSTAINABLE** economics and embodies the multi-faceted values of ocean and coastal ecosystems.

To provide a CONFERENCE HALL to serve workshops, lectures, conferences and public presentations.

Plan the facility to serve as a COLD WATER MARINE research center for the community college and state college system, and other issues.

To provide for the husbandry, holding, and care of LIVE ANIMALS in support of the educational programs.

To provide for CLEAN SEA-WATER delivery and storage for the Aquatic exhibits and research.

Develop a facility and program with MAXIMUM FLEXIBILITY for current needs (multiple use spaces) and adaptation for future needs.

Facility to SHOWCASE sustainability and achieve LEED standard GOLD certification.

Provide for back-up and emergency POWER.

GATEWAY to areas of coastal stewardship (Johnson Point).

Provide a sense of approach and orientation of the COASTAL BLUFF TRAIL.

GOALS

GOALS

FORM - Space/Environment/Quality

To provide a facility to **EDUCATE** the **PUBLIC** through exhibits, lectures, classes and guided tours about the impacts that humans have on our marine and terrestrial environment.

To create INSPIRATIONAL environments that encourage creativity and motivate the participation of individuals engaged in the activities.

Locate facilities to take full advantage of the NATURAL RESOURCES and attributes that would maximize efficient operations.

Plan the facilities with opportunities that encourage COLLABORATION and chance encounters to enable social CONNECTION among researchers.

Plan for opportunities for COLLABORATION and interaction of different user groups between researchers, educators and visitors.

To demonstrate **ENVIRONMENTALLY RESPONSIVE** design.

To express the **GENUINE FEELING** of a working scientific environment.

To select materials and systems that can withstand the corrosive effects of the harsh NEAR OCEAN ENVIRONMENT.

To respect and enhance the site's qualities of LIGHT and SPACE.

Provide a SAFE environment for learning and experiencing nature for all AGES and ABILITIES.

Buildings should be appropriate to the **DRAMATIC** and **RUGGED BEAUTY** of the Mendocino coast, where forest and coastal prairies meet the dynamic Pacific Ocean.

Reflect cultural HERITAGE of Fort Bragg.

Observer should receive a spiritual **IMPRESSION** of soaring beyond current limitations to a future of hope, light and optimism, which will be achieved through seeking greater **UNDERSTANDING** of the forests, the sea, and the land that joins them. Some features of the facility should impart this sense of pride, elation, and wonder.

GOALS

GOALS ECONOMY - Initial Budget

To plan the **PROJECT** for a \$TBD BUDGET.

To explore potential **PARTNERSHIPS** with local utilities, agencies, college districts, Native American tribes and other interests for funding, operations and collaborations.

To plan the project for an INITIAL EXPENDITURE of \$7 MILLION for Phase I.

To **MINIMIZE** operating costs through generation of X of on-site power and reclaiming X of water usage.

To OPERATE the SITE at NET ZERO ENERGY to the City of Fort Bragg.

To control OPERATIONS and MAINTENANCE costs through LIFE-CYCLE COST planning.

To provide for a HIGH LEVEL of FUNCTIONAL QUALITY - lasting, durable, genuine, and functional.

To provide for a RESEARCH FIELD STATION LEVEL of AESTHETIC QUALITY - working and scientific.

To use and demonstrate the **BEST** practices and **CUTTING** edge systems.

To provide a CARBON NEUTRAL facility.

TIME - Past/Present/Future

To **PHASE** the Development based on funding.

To OCCUPY PHASE ONE by 2016.

To develop a LONG RANGE PLAN through 2025.

To develop a plan that ANTICIPATES and ALLOWS for change.

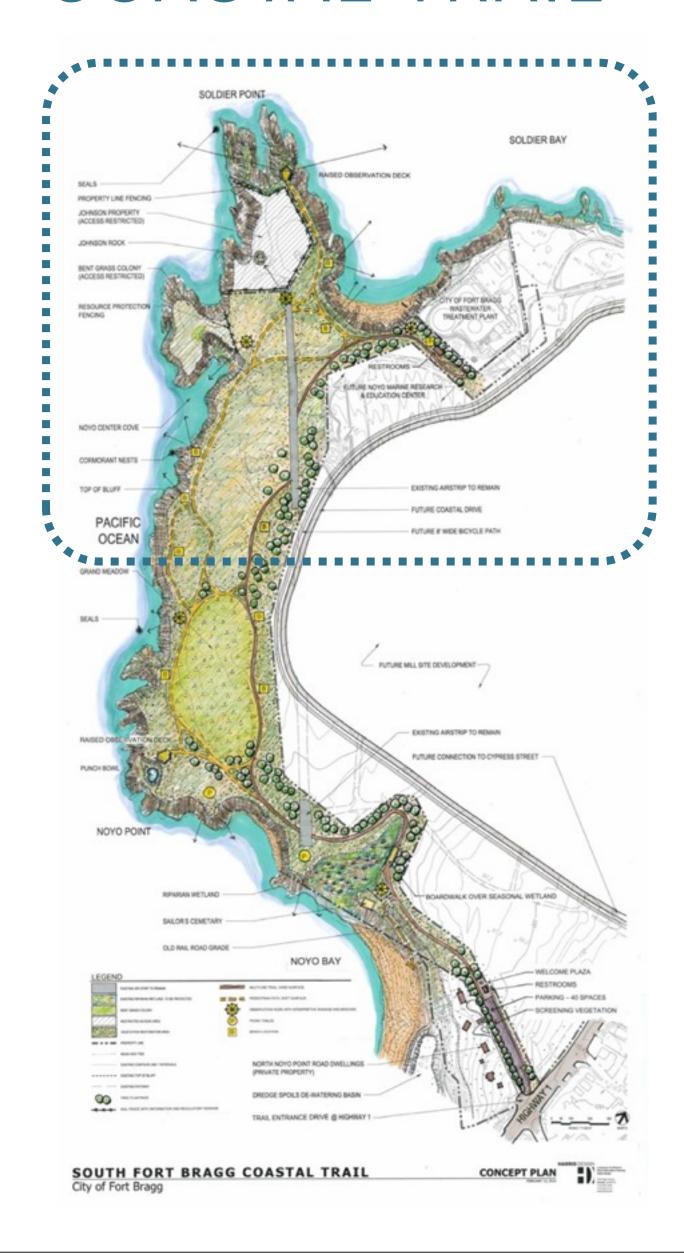
GOALS

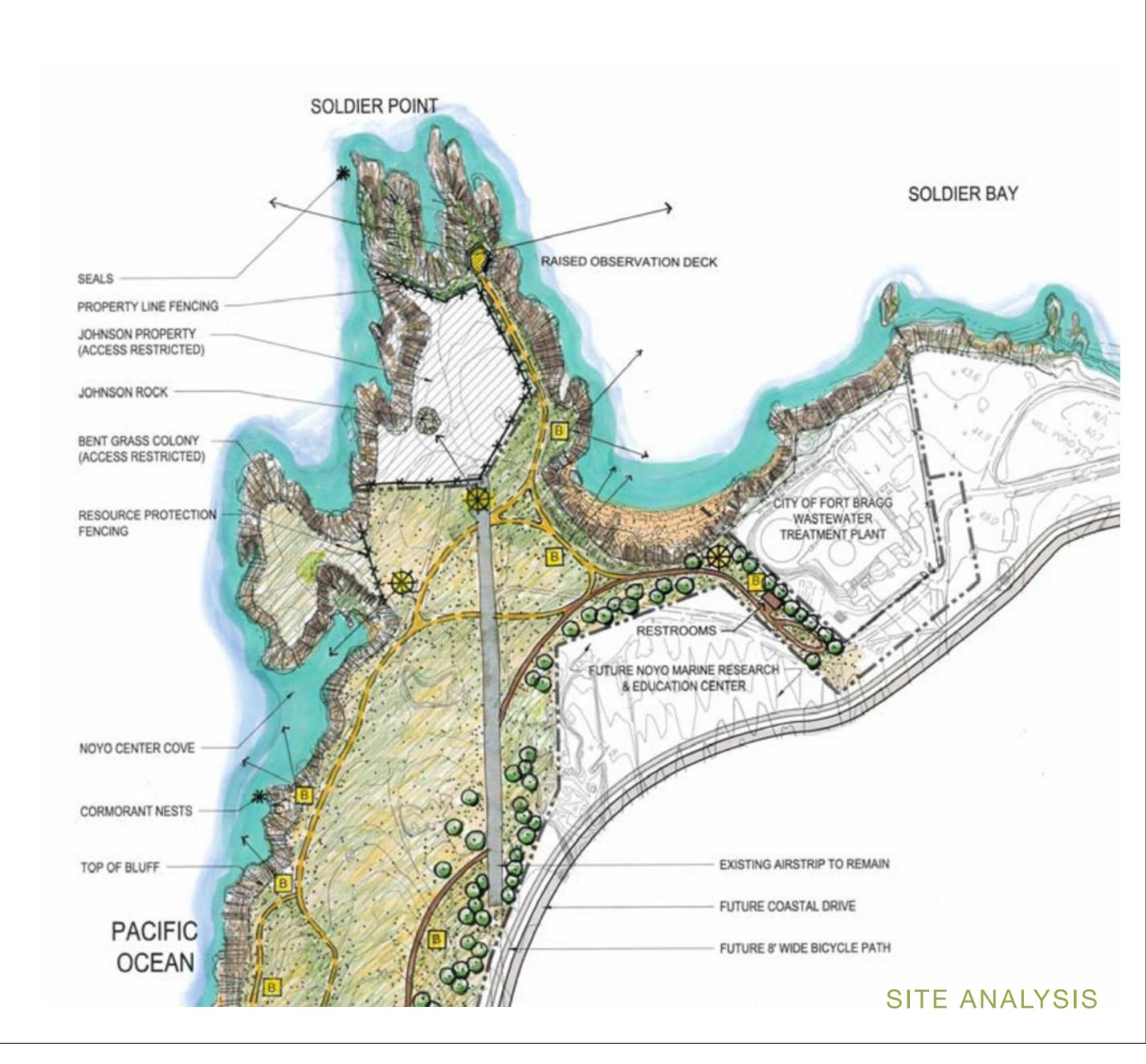
SPACE REQUIREMENTS

PHASE		PHASE II	
LABS/RESEARCH	1,872 NSF	2,050 NSF	
ADMINISTRATION	1,242 NSF	630 NSF	
SUPPORT FACILITIESHOUSINGINTERPRETIVE CENTER	859 NSF 0 NSF 4,458 NSF	600 NSF 3,600 NSF	
TOTAL NSF	8,431 NSF	10,200 NSF	18,631 NSF
TOTAL GROSS	10,970 SF	13,272 SF	24,242 SF

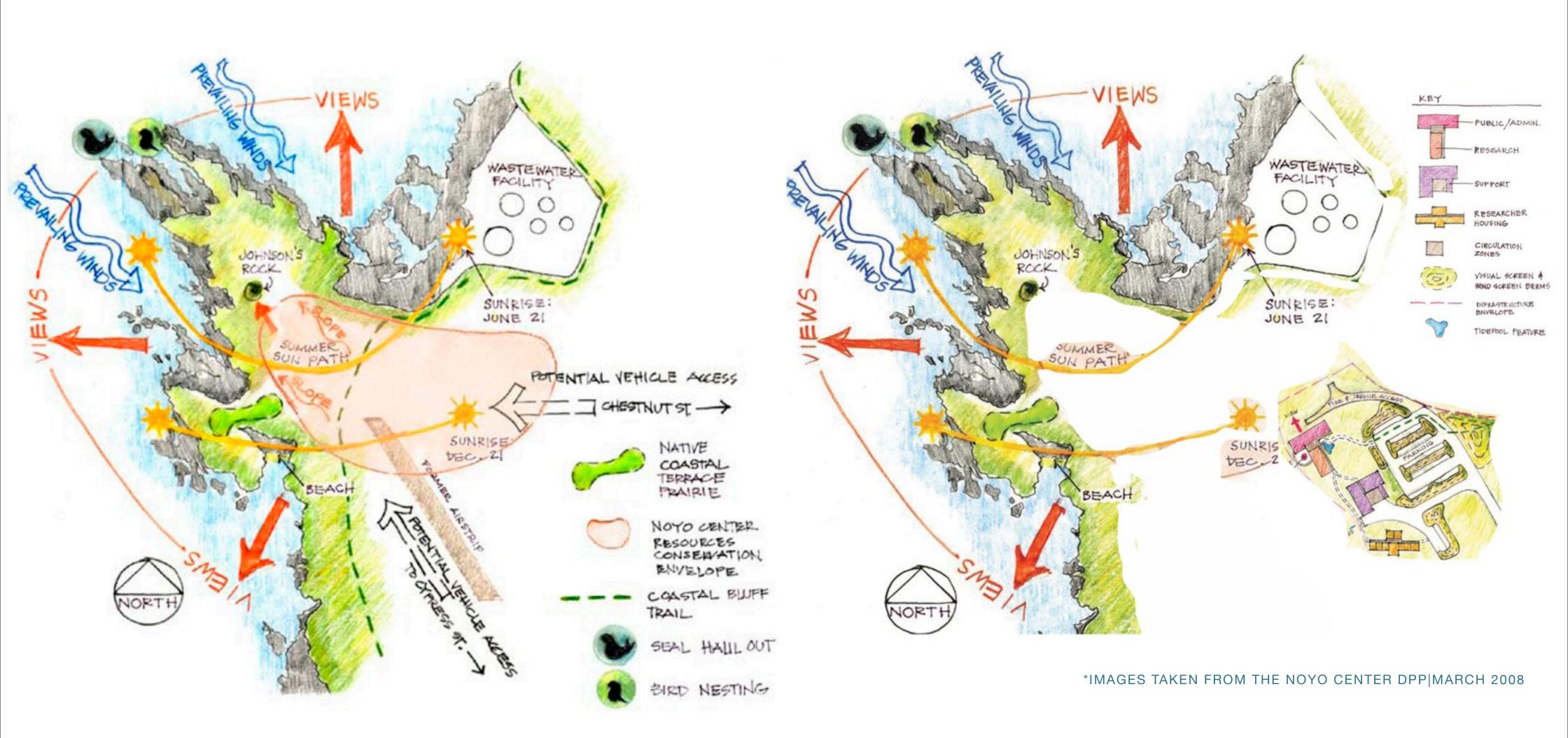
PROGRAM

COASTAL TRAIL





SITE OPPORTUNITIES + CONSTRAINTS



SITE ANALYSIS

SITE + CONTEXTUAL IMAGES



SITE ANALYSIS

SITE

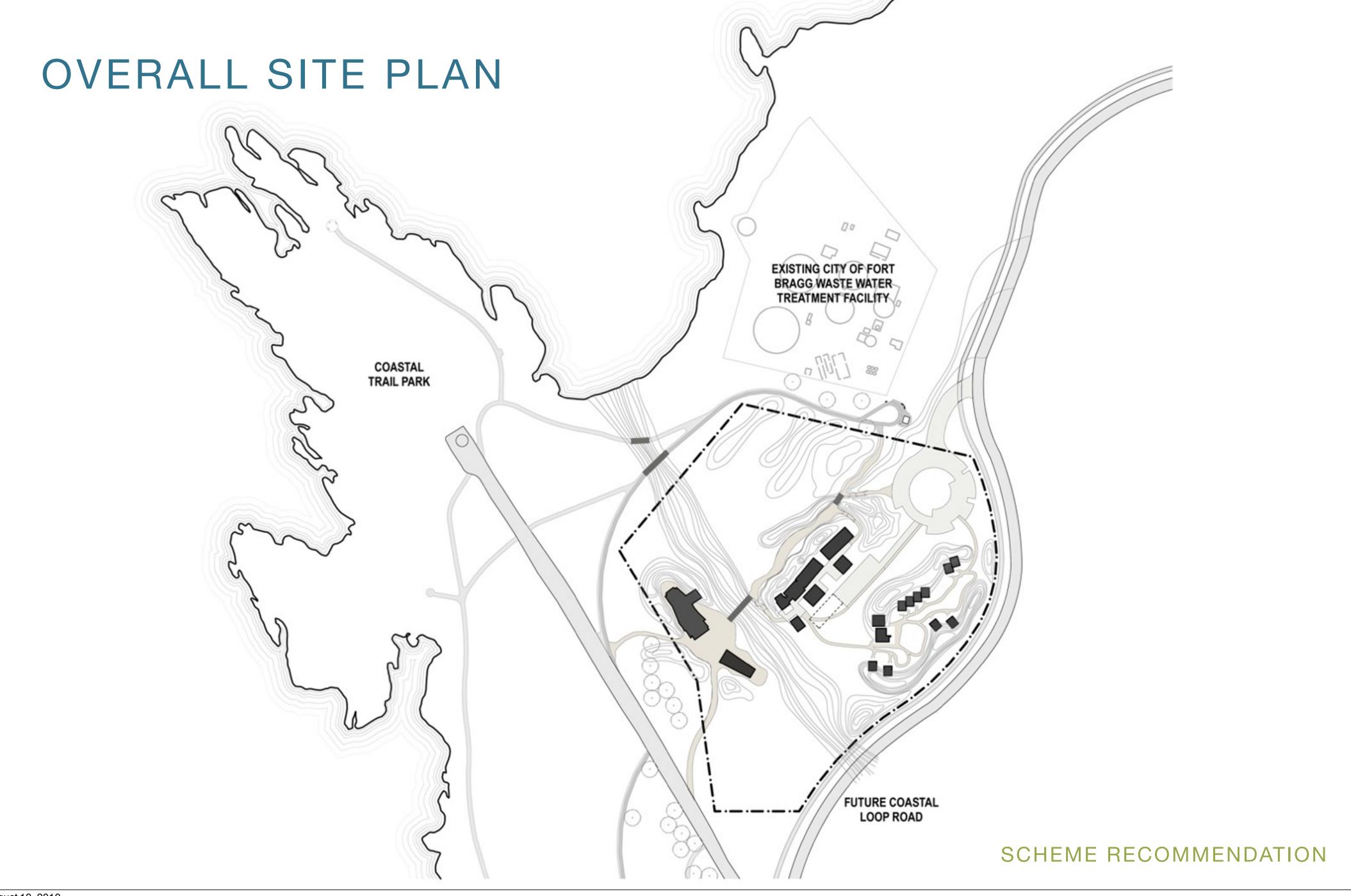


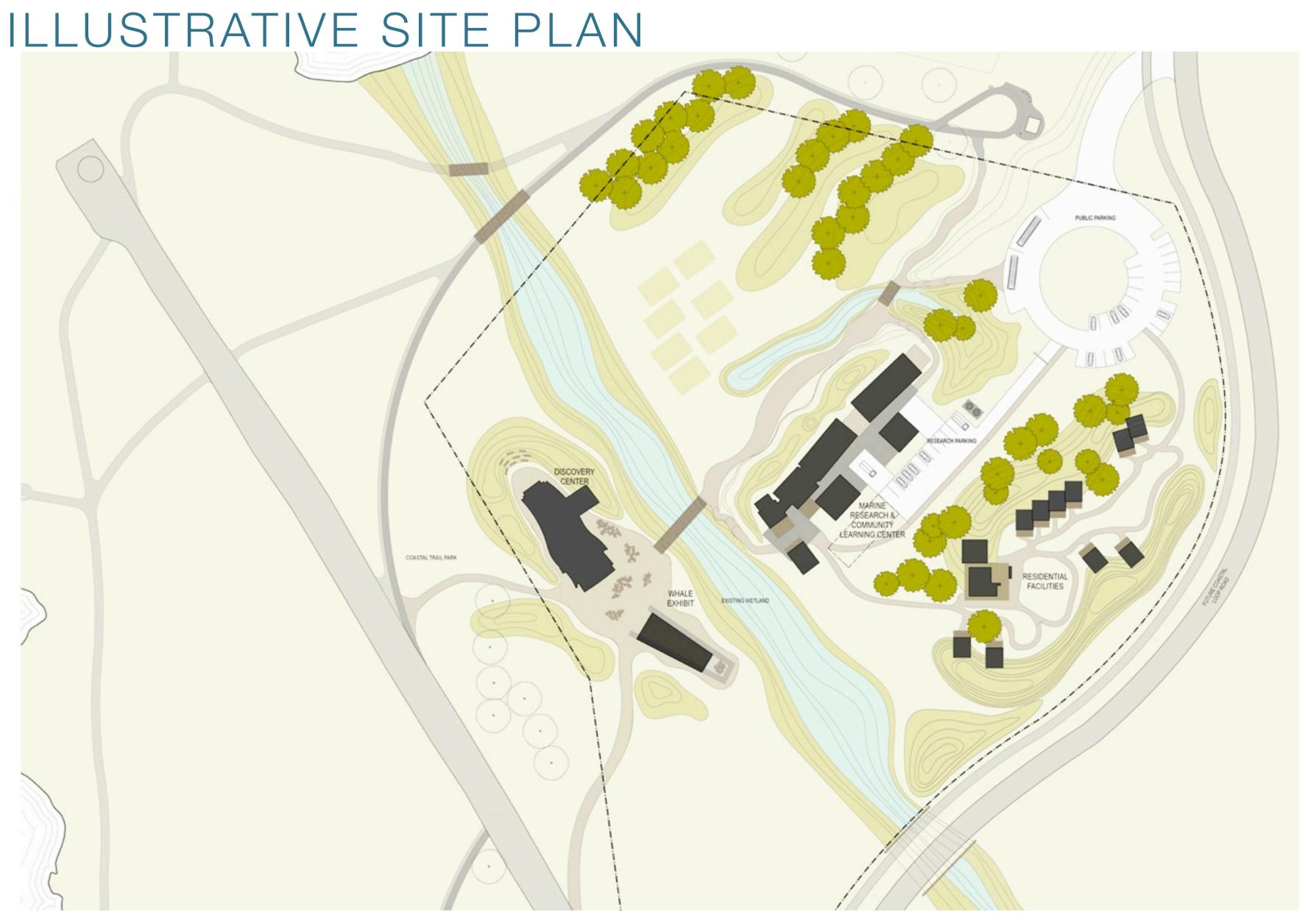


SITE LOCATION



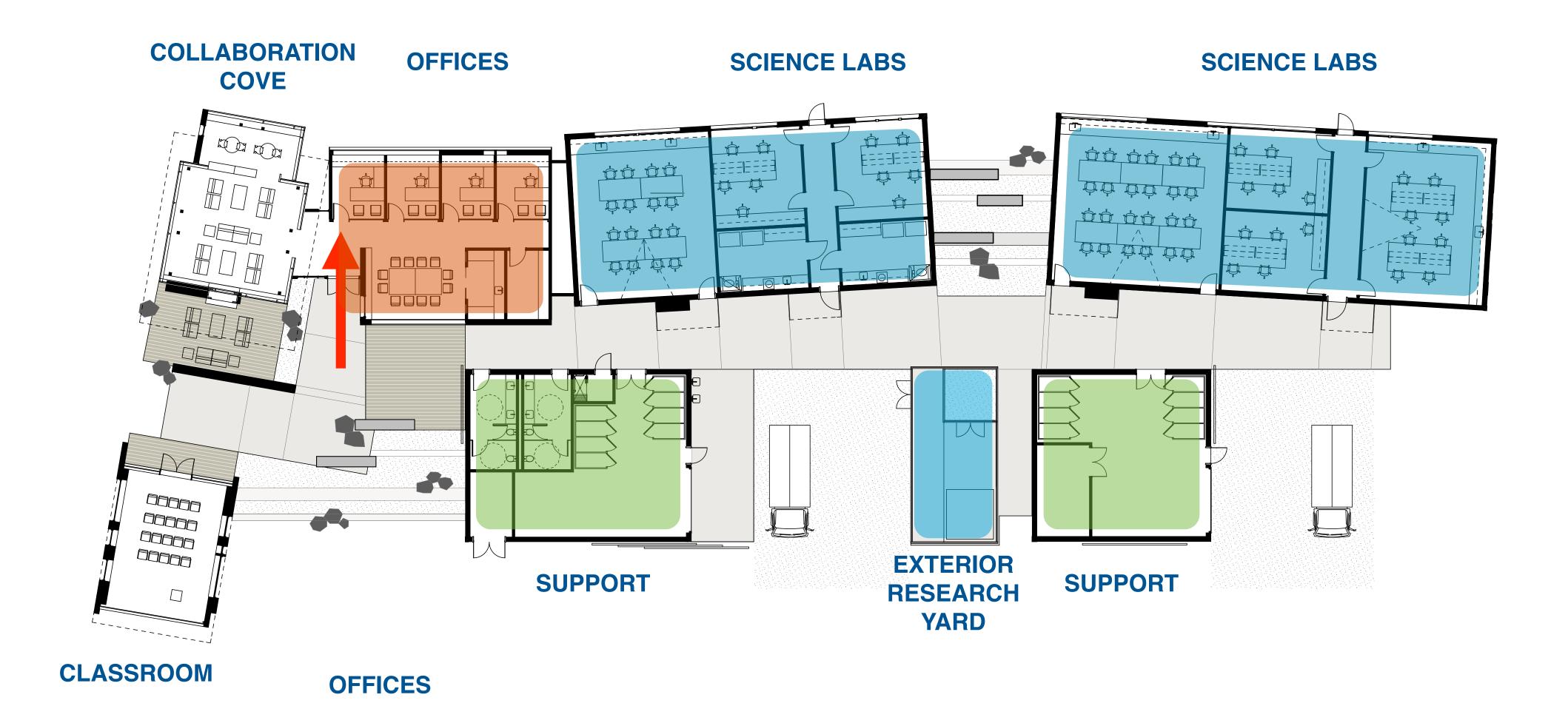
SCHEME RECOMMENDATION



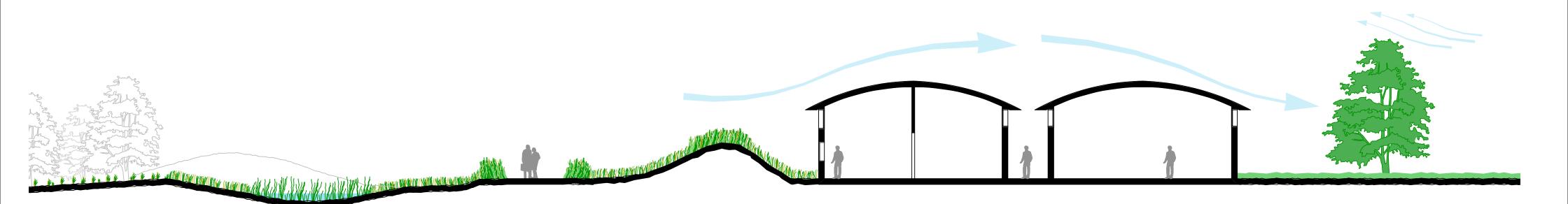




RESEARCH _PLAN



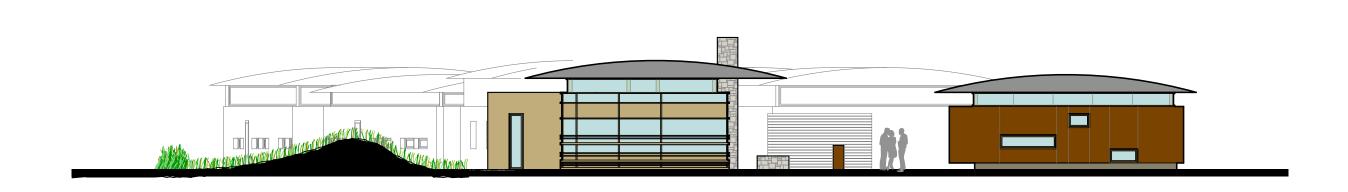
RESEARCH _sections

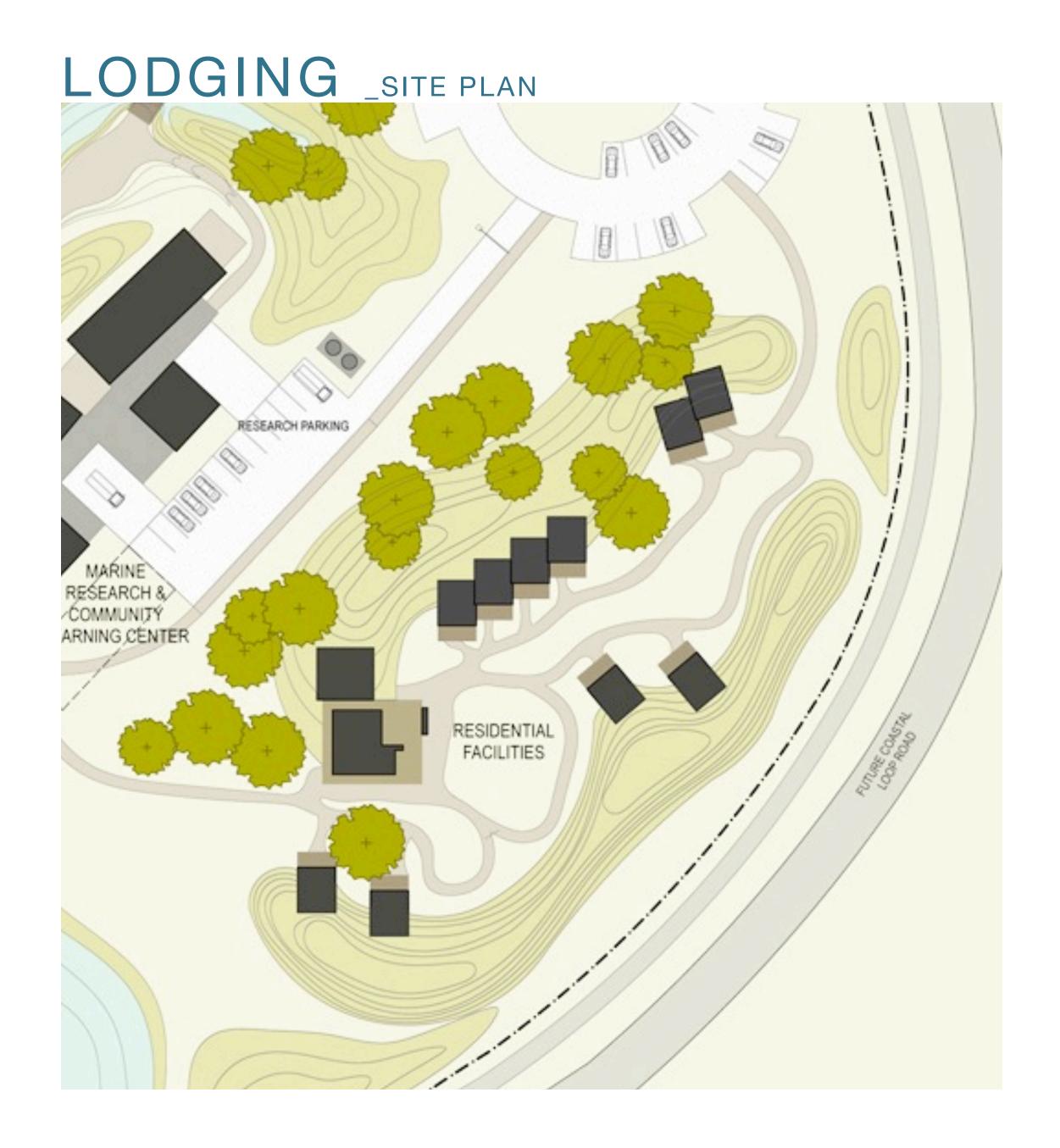


DESIGN

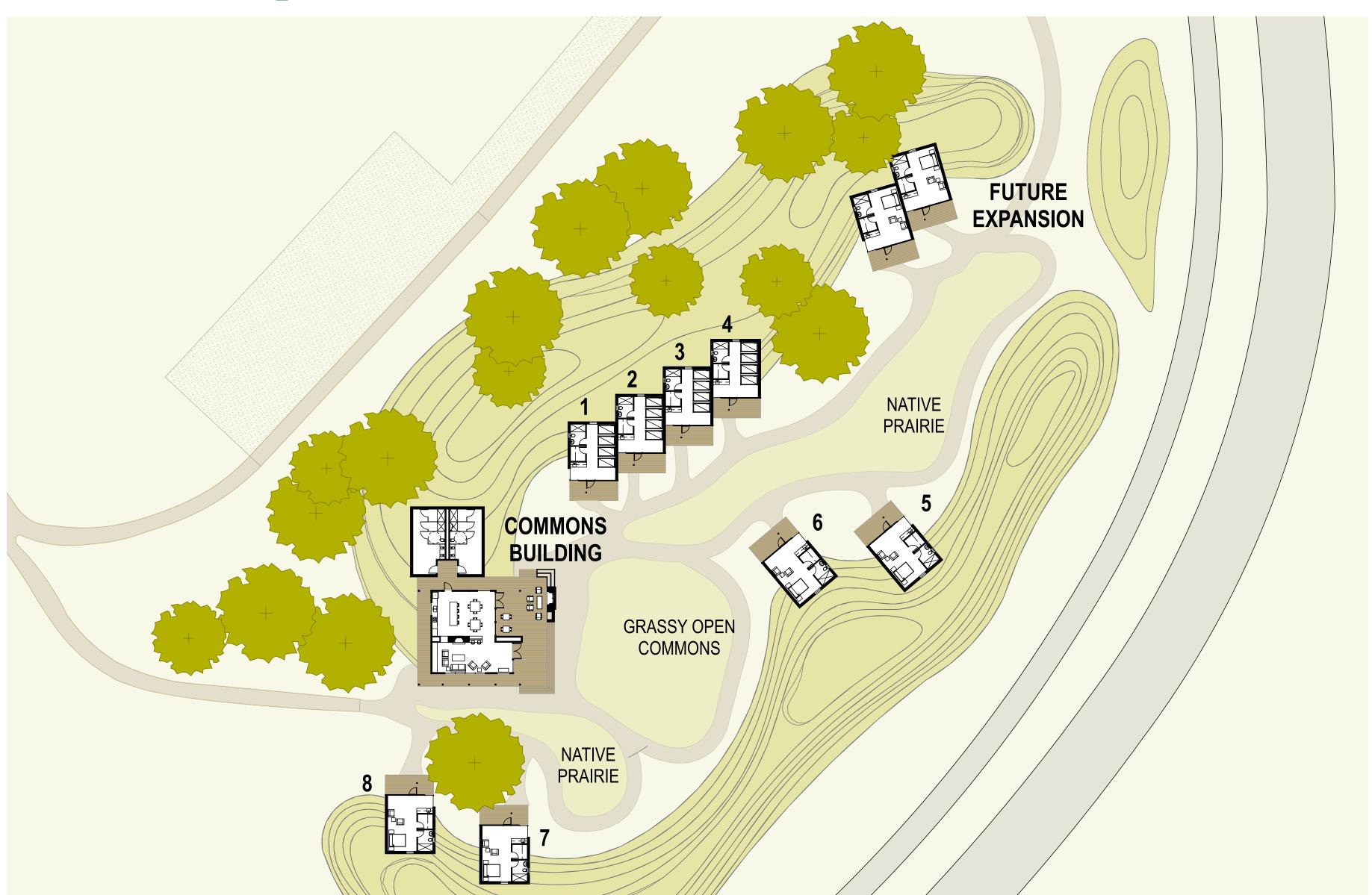
RESEARCH _ELEVATIONS



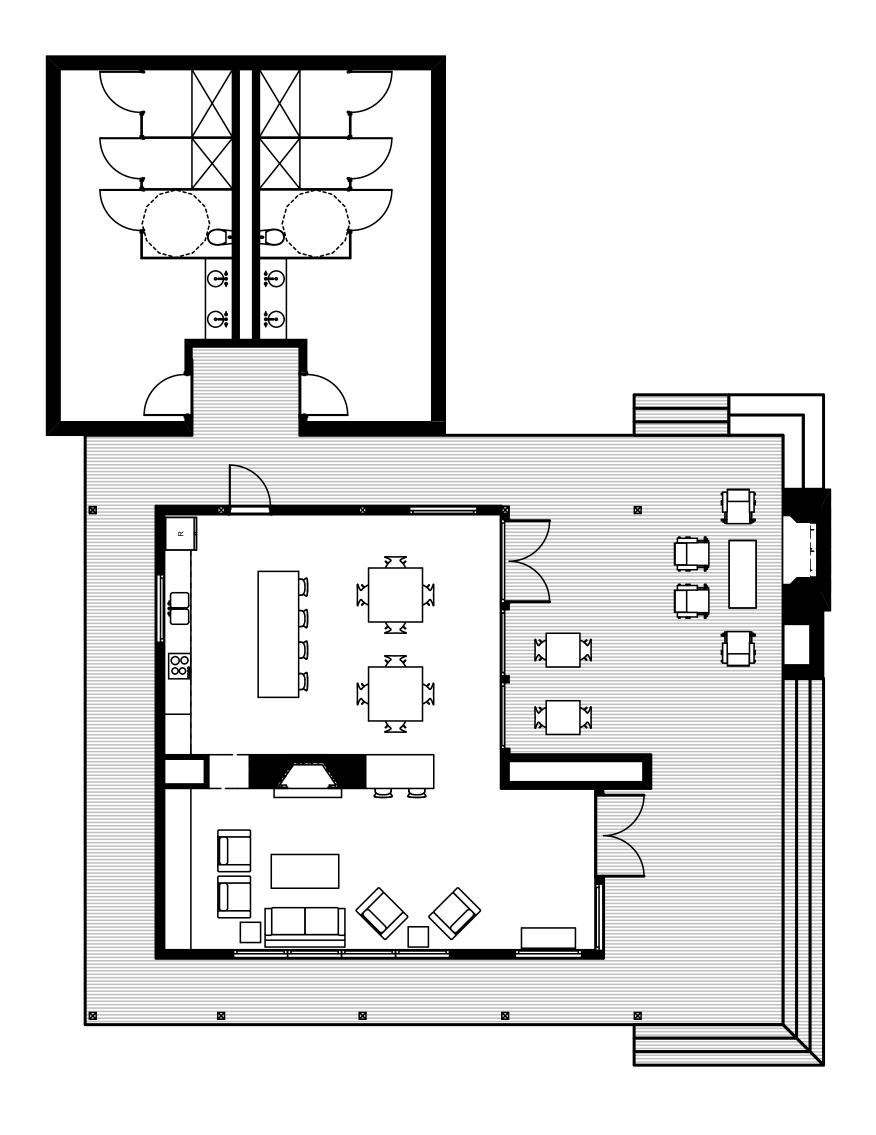




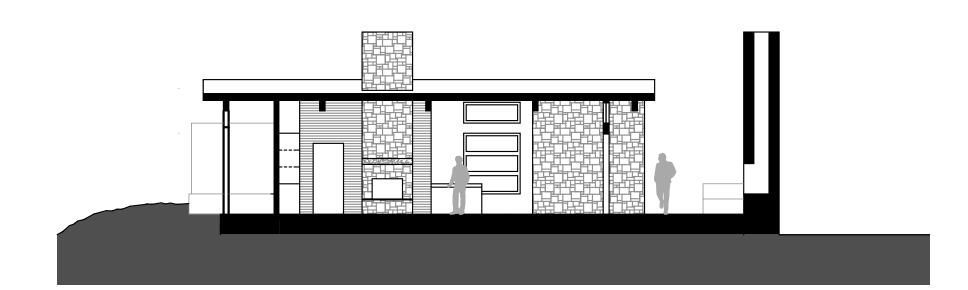
LODGING _SITE PLAN

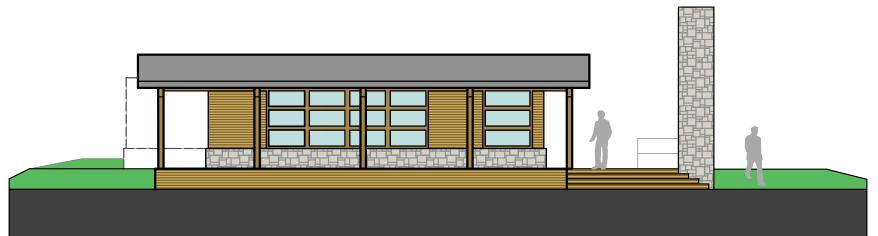


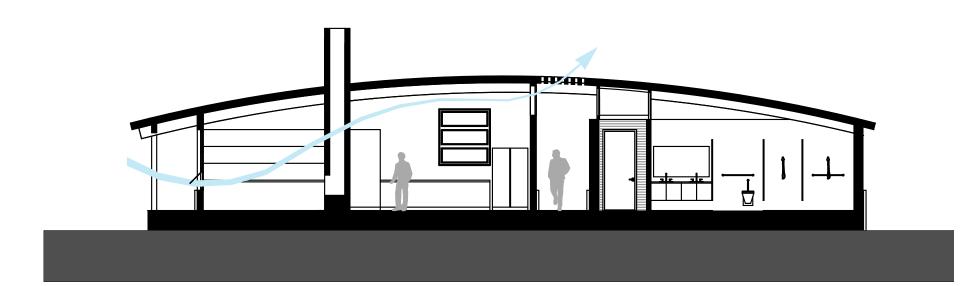
LODGING COMMONS: "the LODGE" _PLAN

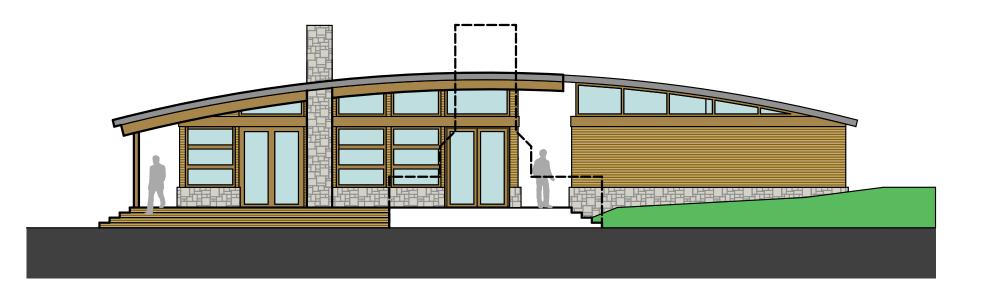


LODGING COMMONS: "the LODGE" _SECTIONS

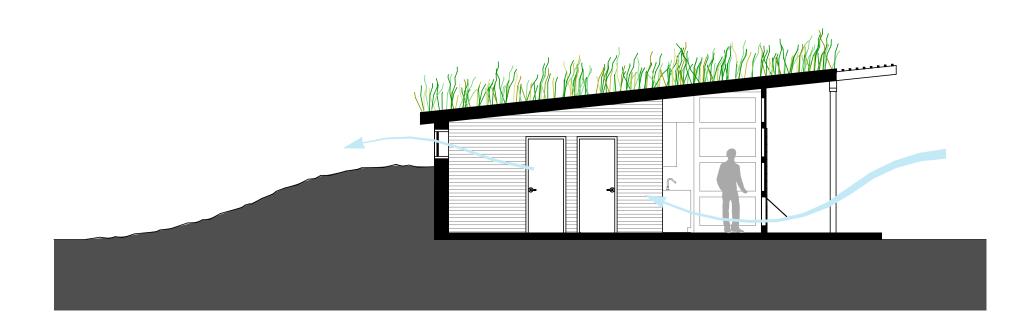


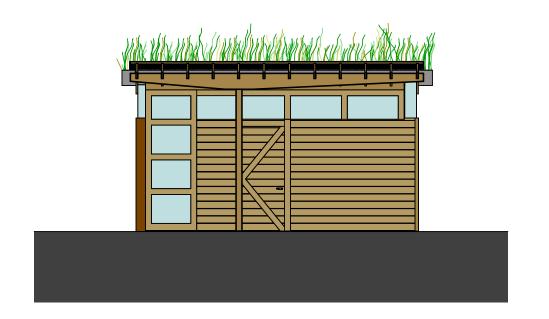


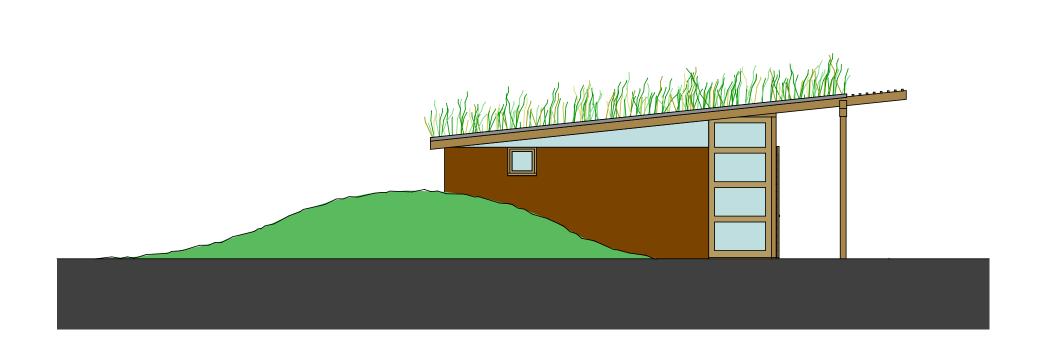


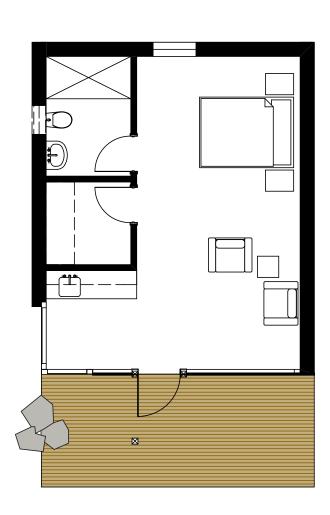


LODGING _PLAN + SECTION + ELEVATIONS

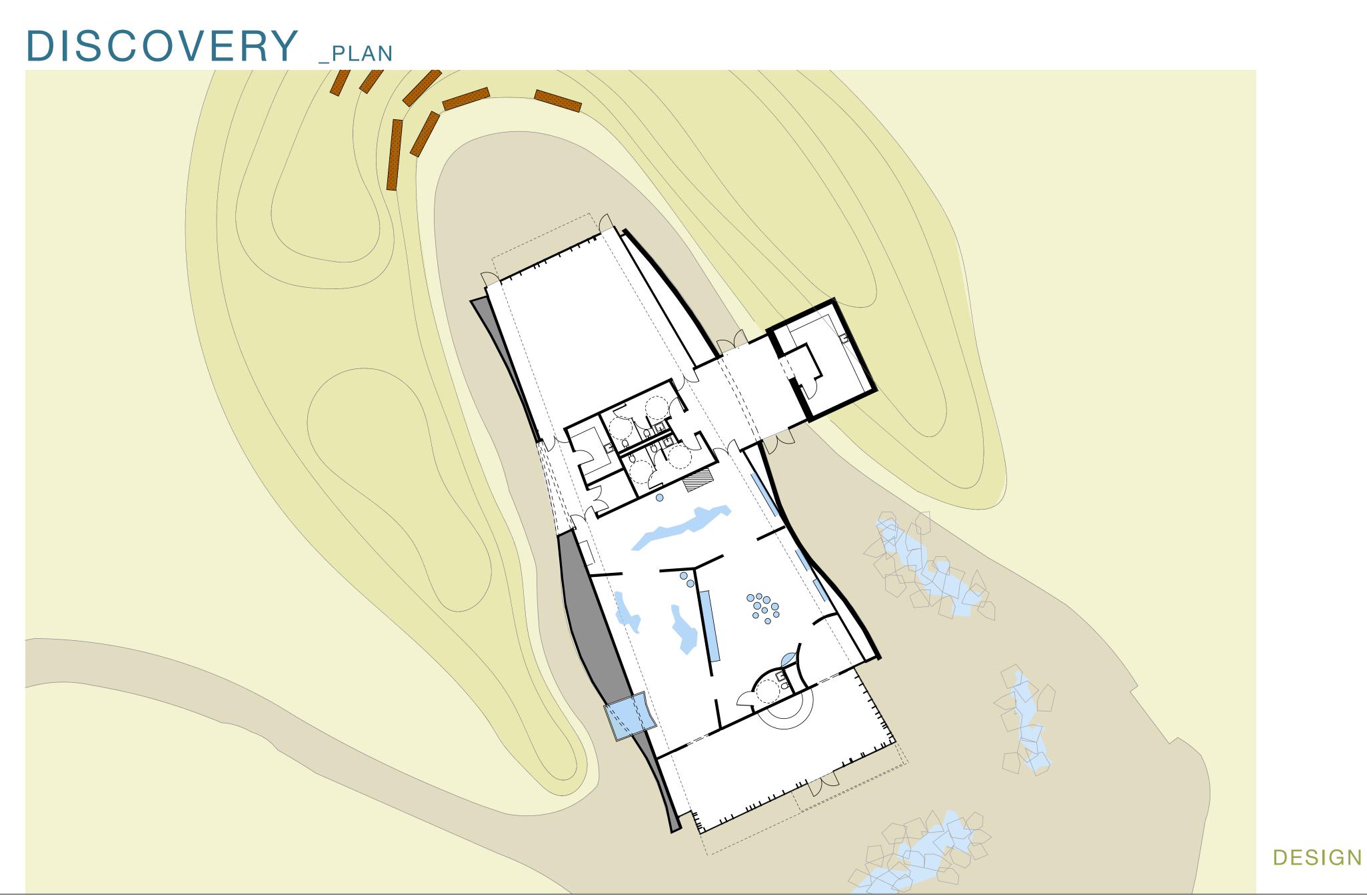




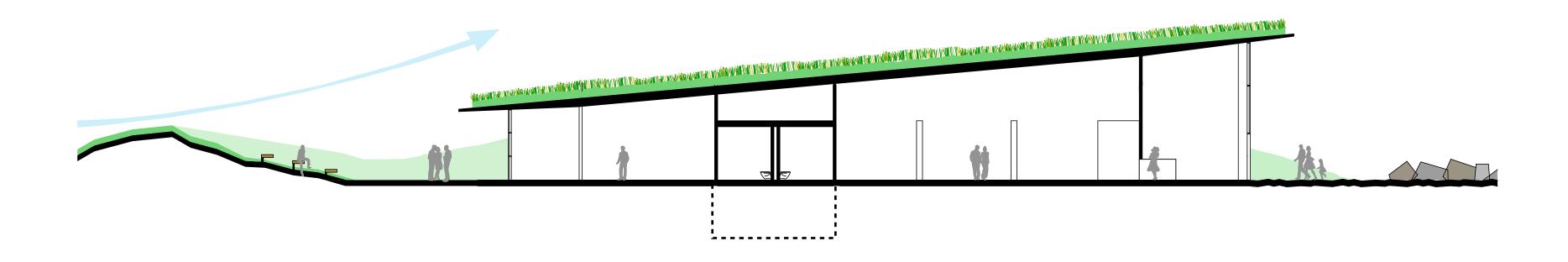


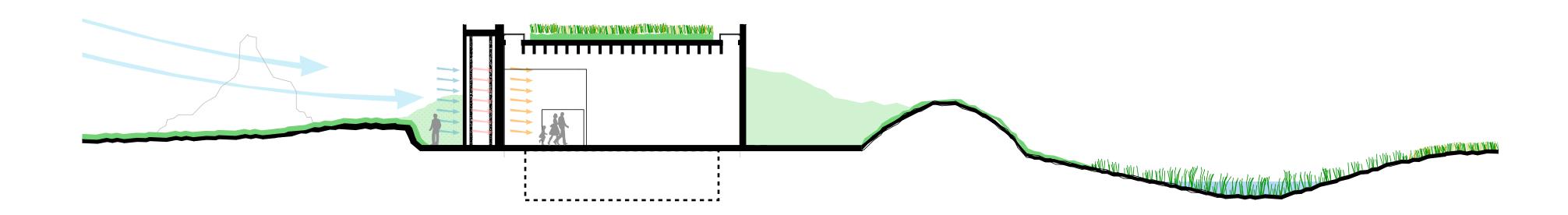


DISCOVERY/WHALE _PLAN DISCOVERY CENTER PARK WHALE EXISTING WETLAND EXHIBIT

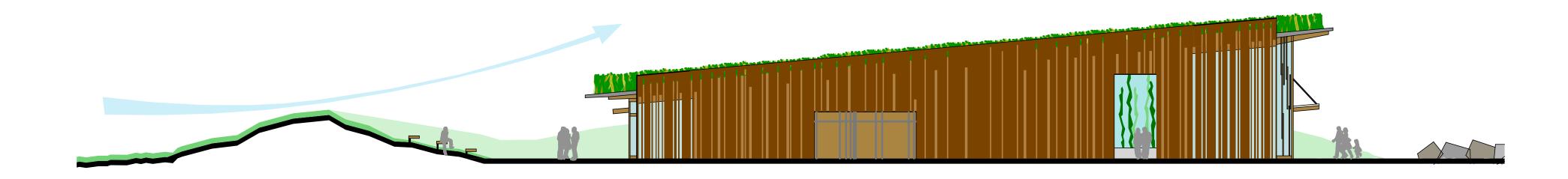


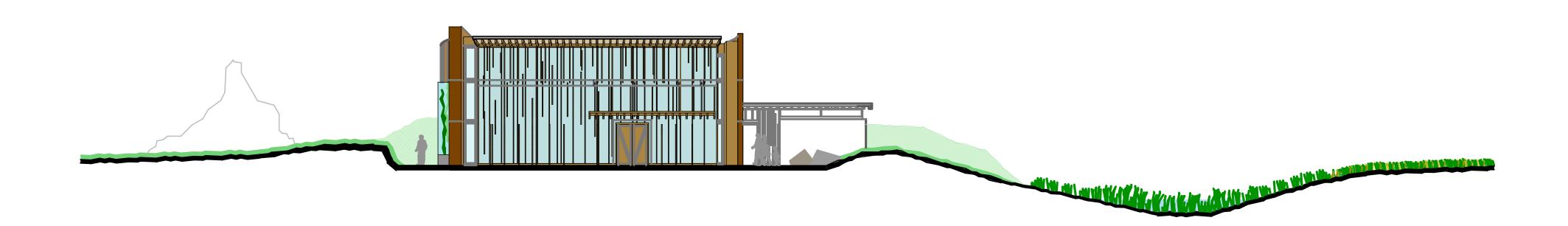
DISCOVERY _SECTIONS

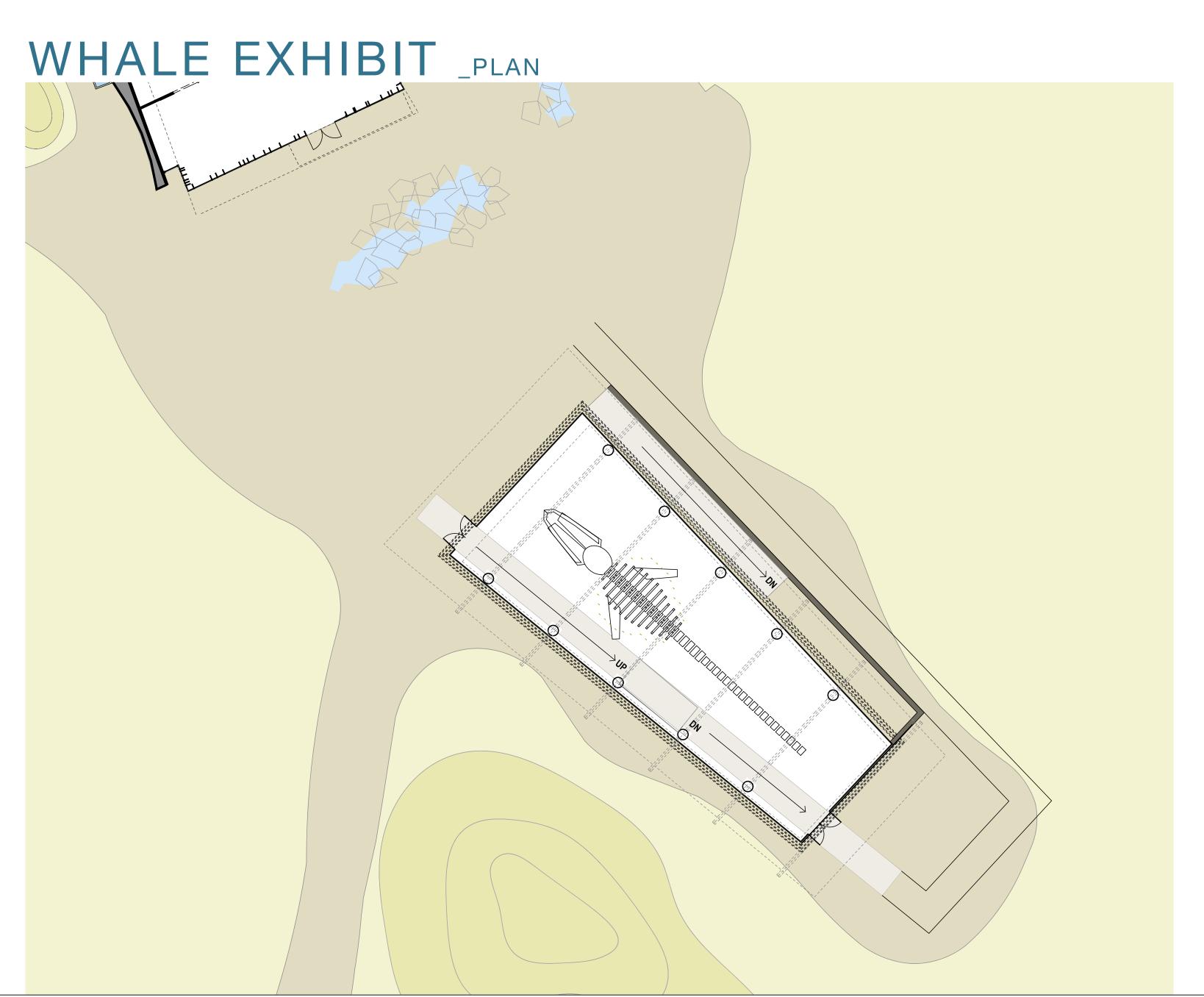




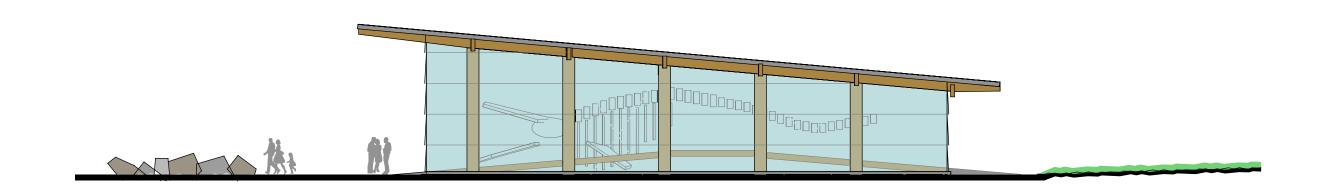
DISCOVERY _ELEVATIONS

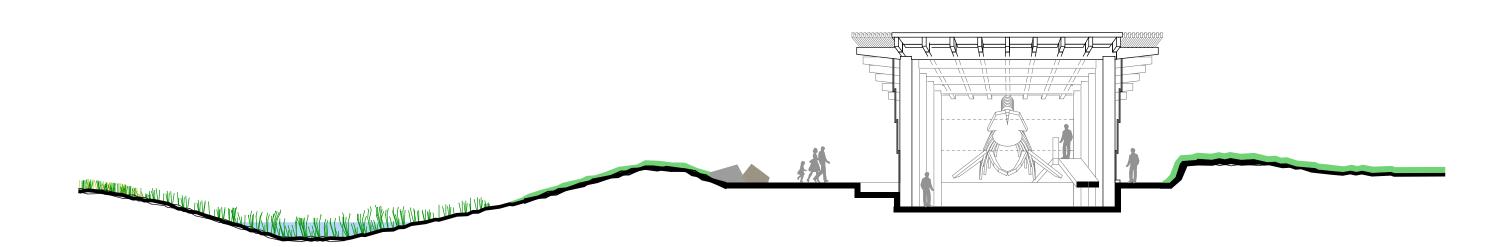






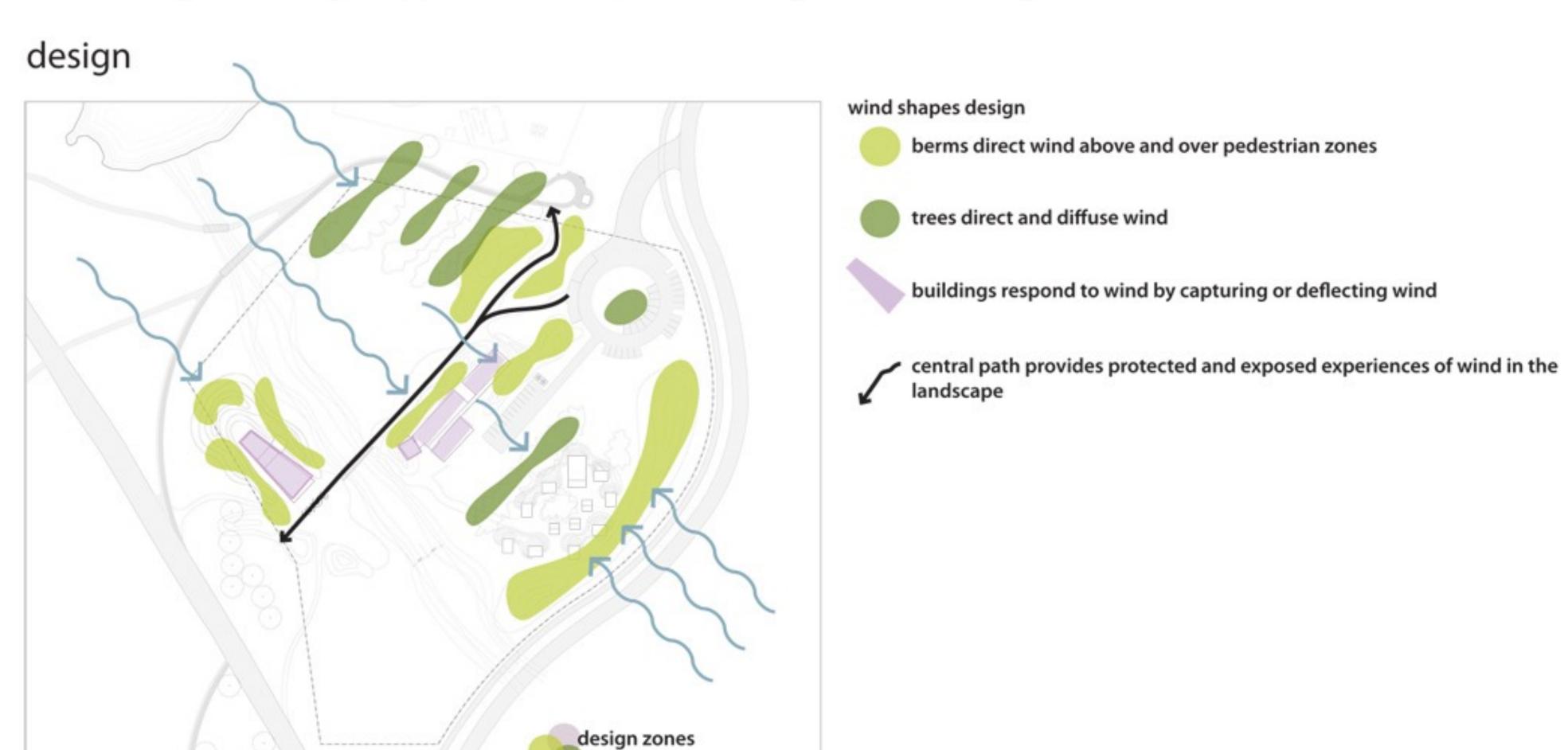
WHALE EXHIBIT _ELEVATIONS





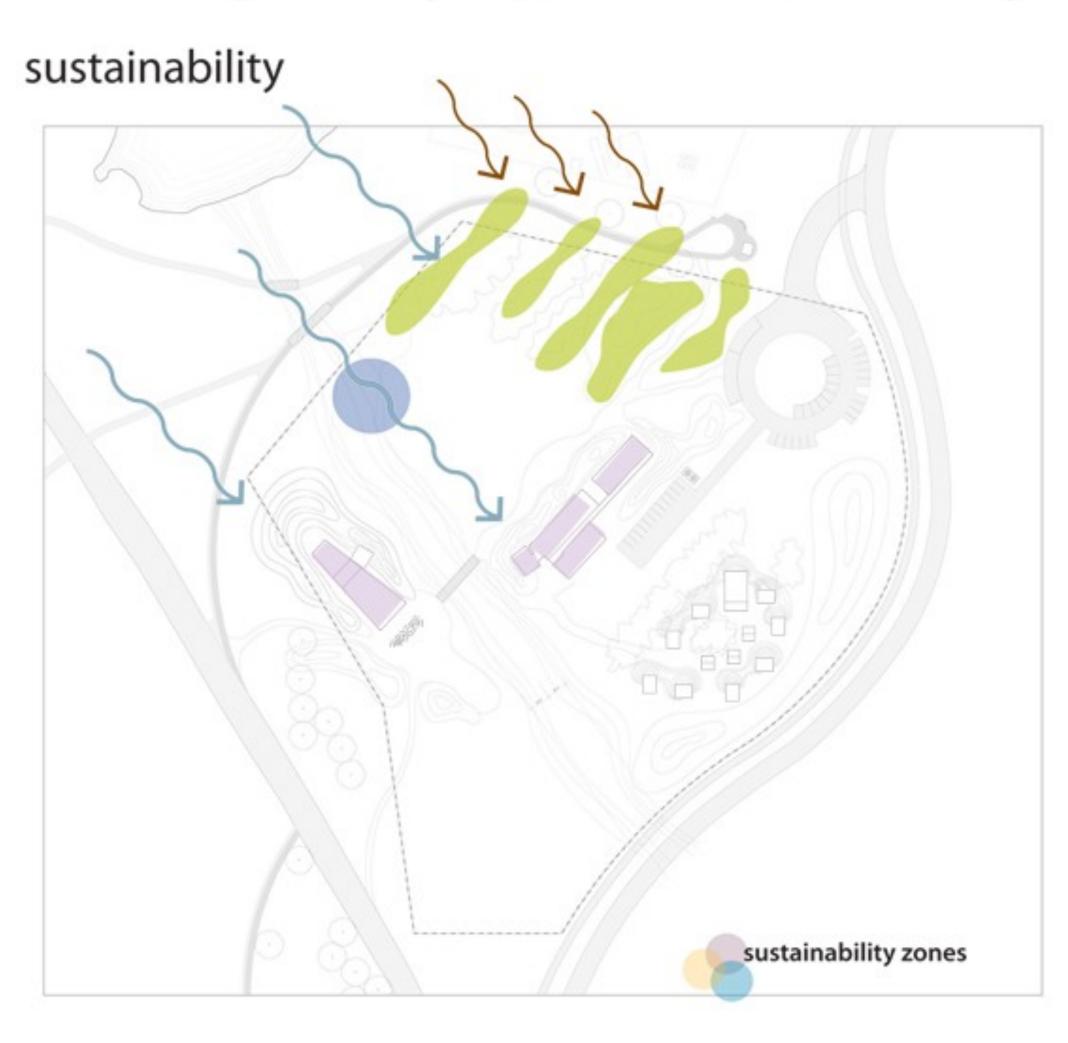
WIND

WIND: integrated design supports research, sustainability and education goals



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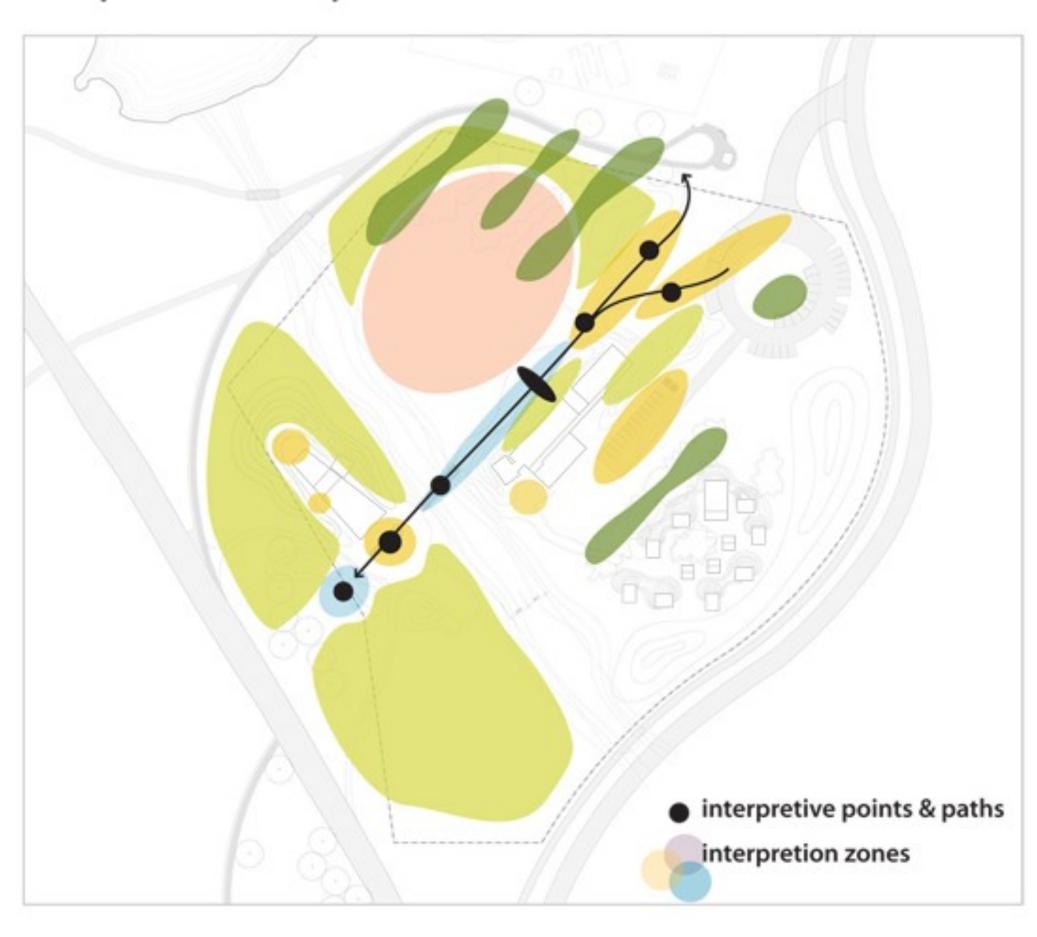
wind provides functional and experiential sustainable qualities

- berms and trees control unpleasant odor from adjacent sources
- pleasant sounds enhance experience and understanding as the wind blows through prairie grasses and shares coastal water and wildlife sounds
- wind power supplements primary energy sources
- natural ventilation creates healthy indoor air quality and enhances connection to the outdoors

WIND

WIND: integrated design supports research, sustainability and education goals

interpretation & public education



experience of wind at Noyo site

sheltered pockets

protected pockets provide experiences of warmer microclimates sheltered from the wind by berms, trees and buildings

wind exposure
limited unprotected areas provide experiences of the power of the wind

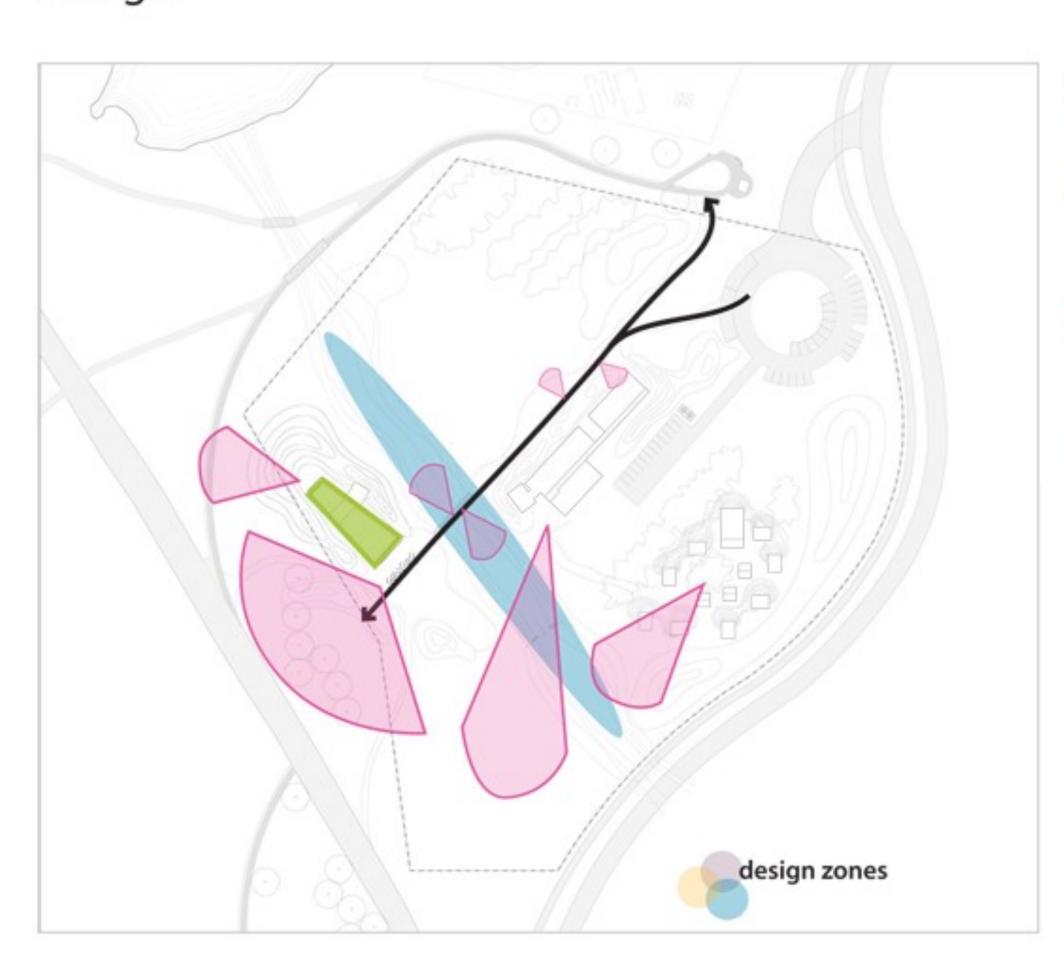
tree form responds to wind
native cypresses and pines respond to the powerful northwesterly summer winds

native coastal prairie
expansive coastal prairie captures and makes visible the powerful forces of wind

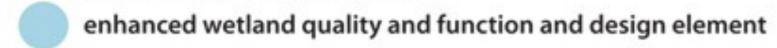
coastal prairie and grassland nursery and research beds nursery and research plots provide opportunities to highlight and investigate the role that wind plays in shaping the environment and the species of California's coastal landscapes

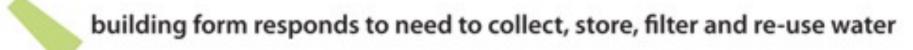
WATER

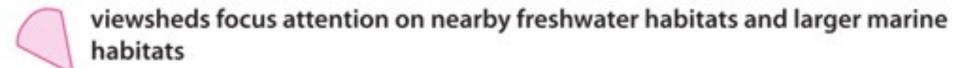
WATER: integrated design supports research, sustainability and education goals design



water was a primary design inspiration



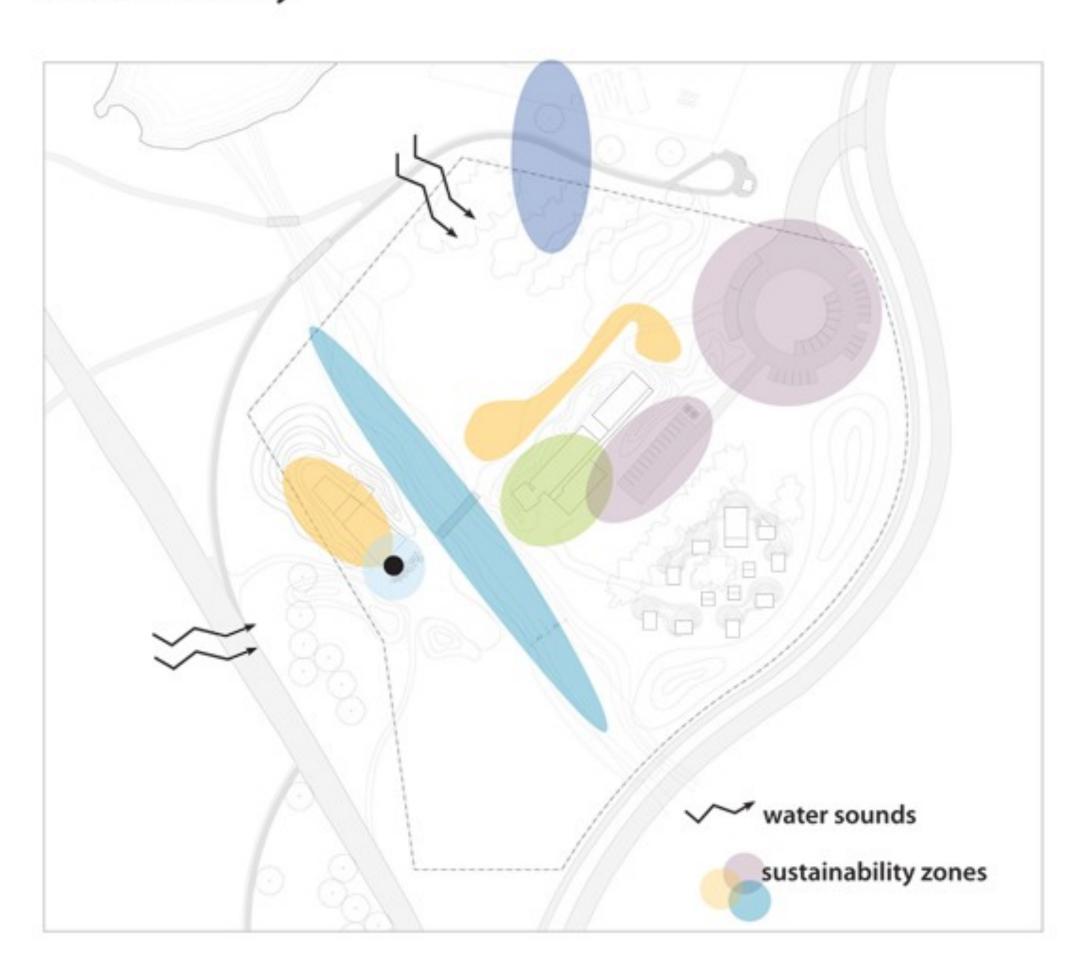




central path of experience provides diverse opportunities to experience water's many forms

WATER

WATER: integrated design supports research, sustainability and education goals sustainability



water provides variety of sustainable opportunities

water collection and reuse capture abundant fog, rainwater, and graywater for reuse

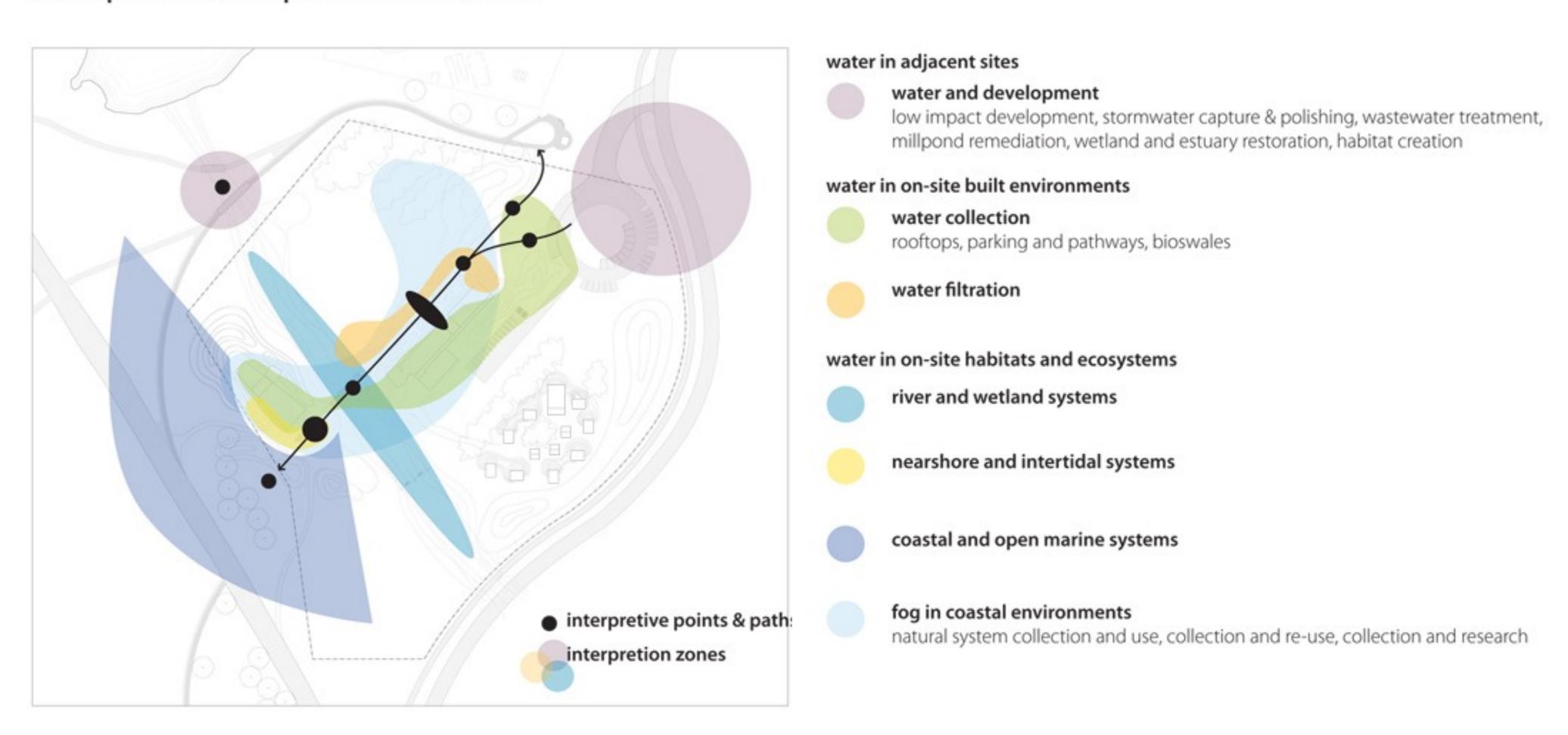
water filtration
filter contaminants from stormwater naturally with green roofs and bioswales

wetland habitat enhance existing into a wetland with diversity of habitat

aquifer recharge infiltrate in parking and path areas

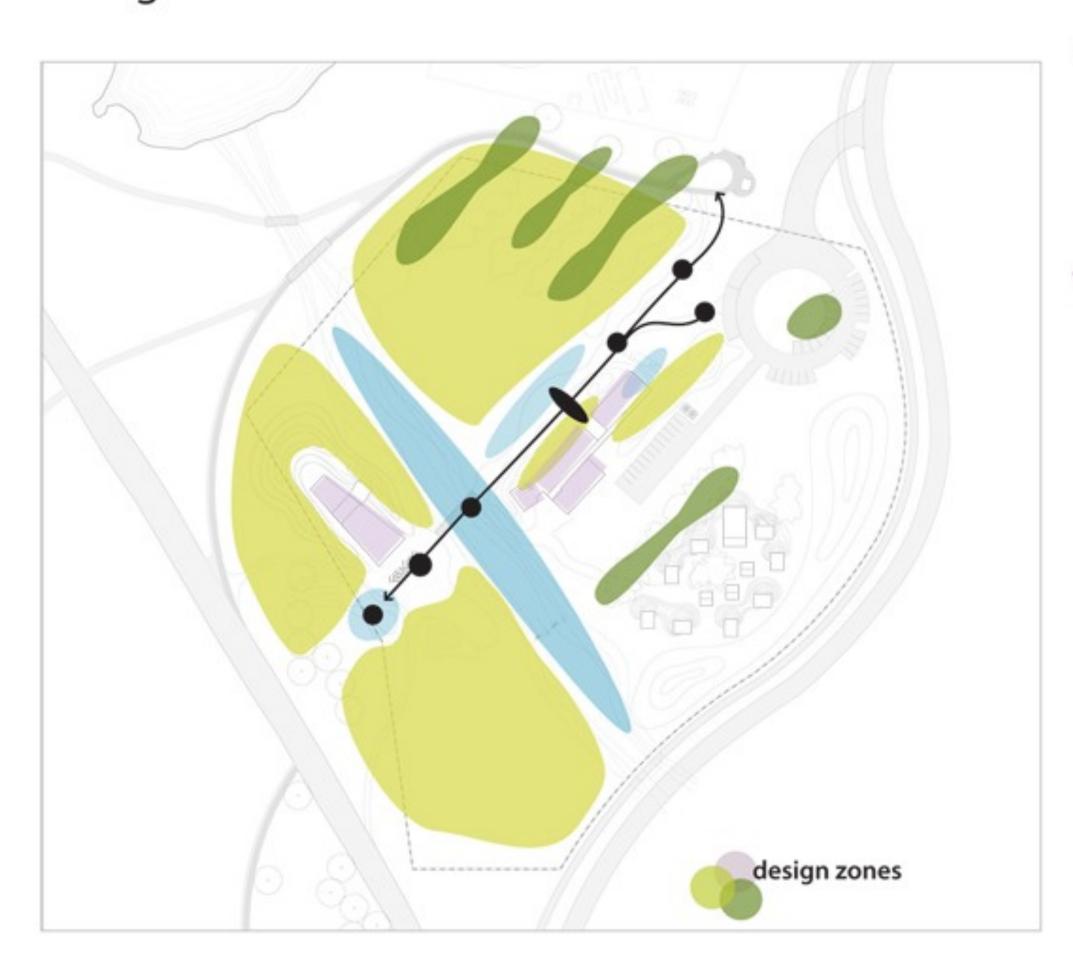
WATER

WATER: integrated design supports research, sustainability and education goals interpretation & public education



SUSTAINABILITY

ECOLOGY: integrated design supports research, sustainability and education goals design



restoration enhances design

- native prairies are restored
- native trees are reintroduced to the coastal terraces
- green roofs planted with native prairie species increase the habitat and species diversity of the site
- enhanced wetlands and treatment swales add wetland habitat diversity to the site and increase its value for a variety of birds and animals