

McLaughlin Eastshore State Park



Informational Item: North Basin Strip Shoreline Improvement Project



Board Executive Committee

November 6, 2024

Agenda

Project & Site History

Project Goals

Site Understanding/Findings

Opportunities/Constraints



Project Scope

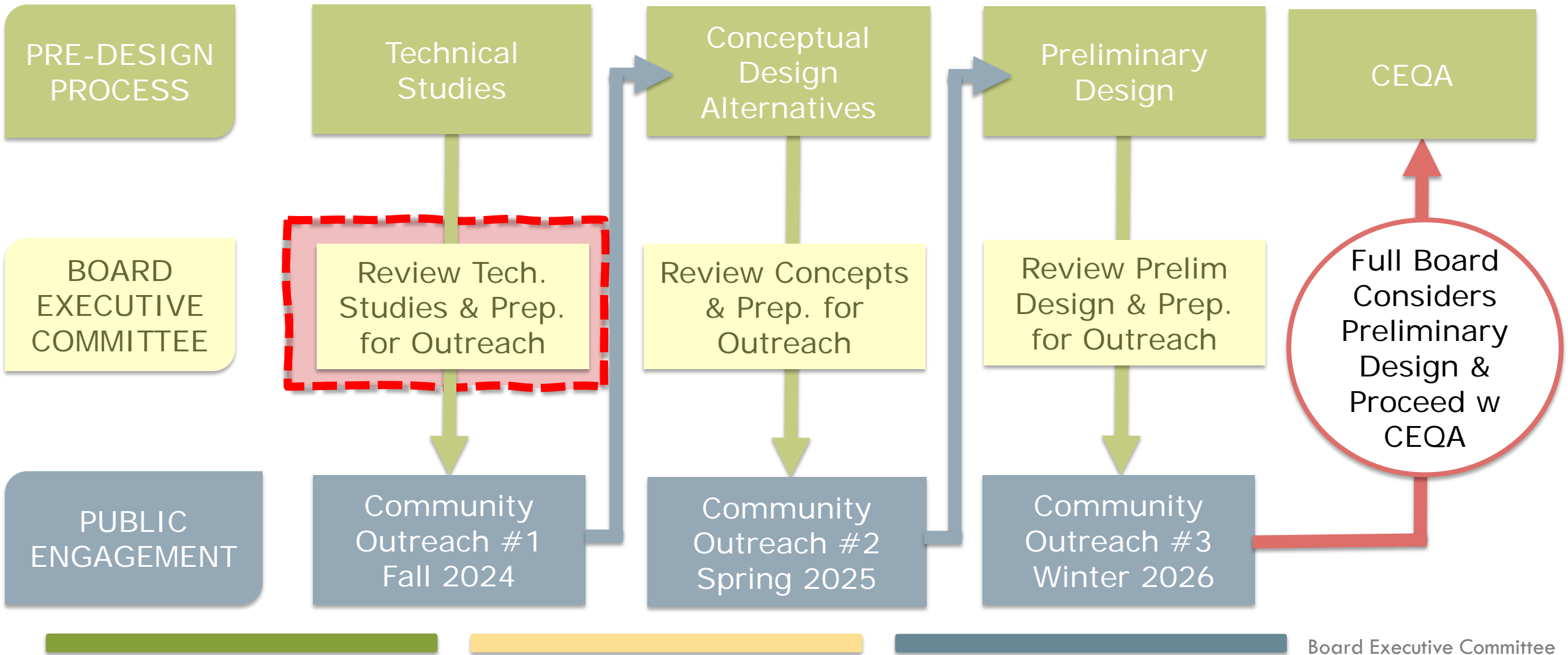


- Technical Studies
- Public Outreach
- Conceptual & Preliminary Design
- CEQA

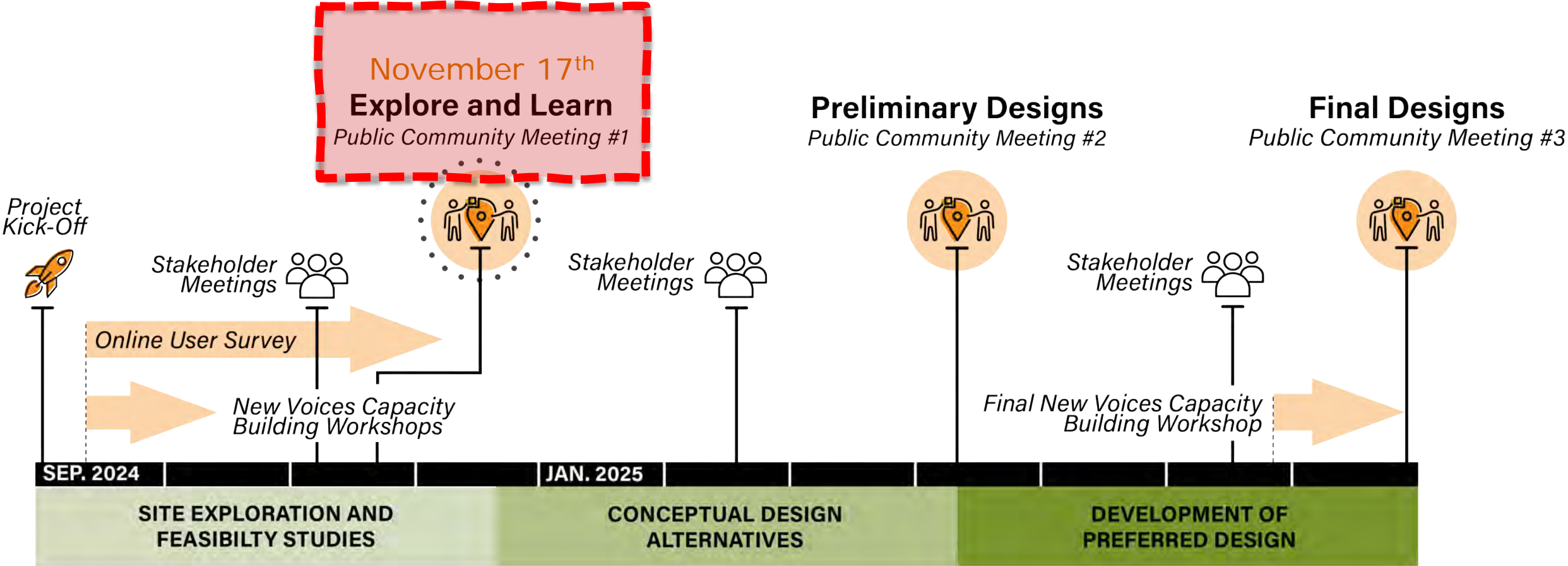
Project Goals

- **Habitat and Public Access.** Improve habitat and develop public access facilities, consistent with the Eastshore State Park General Plan
- **Green Infrastructure.** Use nature-based design solutions where appropriate
- **Climate Resiliency.** Design for climate resiliency
- **Actionable.** Ensure improvements are within operational and budgetary constraints of the Park District

Project Review Process



Community Engagement Timeline





Opportunities ~ Constraints ~ Risks

Constraints & Challenges

- Sea Level Rise
- Soil Disturbance/Excavation Restrictions
- Feasibility of Utility Connections
- Safe Ingress/Egress
- Regulatory Permitting
- District Operational Capacity
- Funding Availability



Shoreline & Sea Level Rise



MHHW Level (~6' NAVD88)
MHHW is 6.23 NAVD88 (Berkeley Station # 9414816)

**King Tide Level/
Mid-century SLR equivalent (~1.5 ft)**

The King Tide is tide is approximately quantified as the annual maximum spring tide elevation. This can be represented by the Highest Astronomical Tide (HAT) recorded from a nearby tide gage, or 7.8 feet NAVD. (The HAT can also be used to approximate the High Tide Line which defines USACE jurisdiction for permitting purposes.)

End-of Century SLR Intermediate Scenario (~3 ft)

The initial recommendation is that the project should be designed to accommodate 2-3 feet of sea-level rise. This equates to the 2060-2070 timeframe under the "high" sea-level rise projection. (The "intermediate-high" projection is about 2.2 feet in 2080.) There are some other considerations that might come into play for specific project features such as the Bay Trail, but 2-3 feet is a good range to use at this planning stage.

End-of Century SLR Intermediate-High Scenario (~5 ft)

Source: Tidal Datums refer to Berkeley Station # 9414816



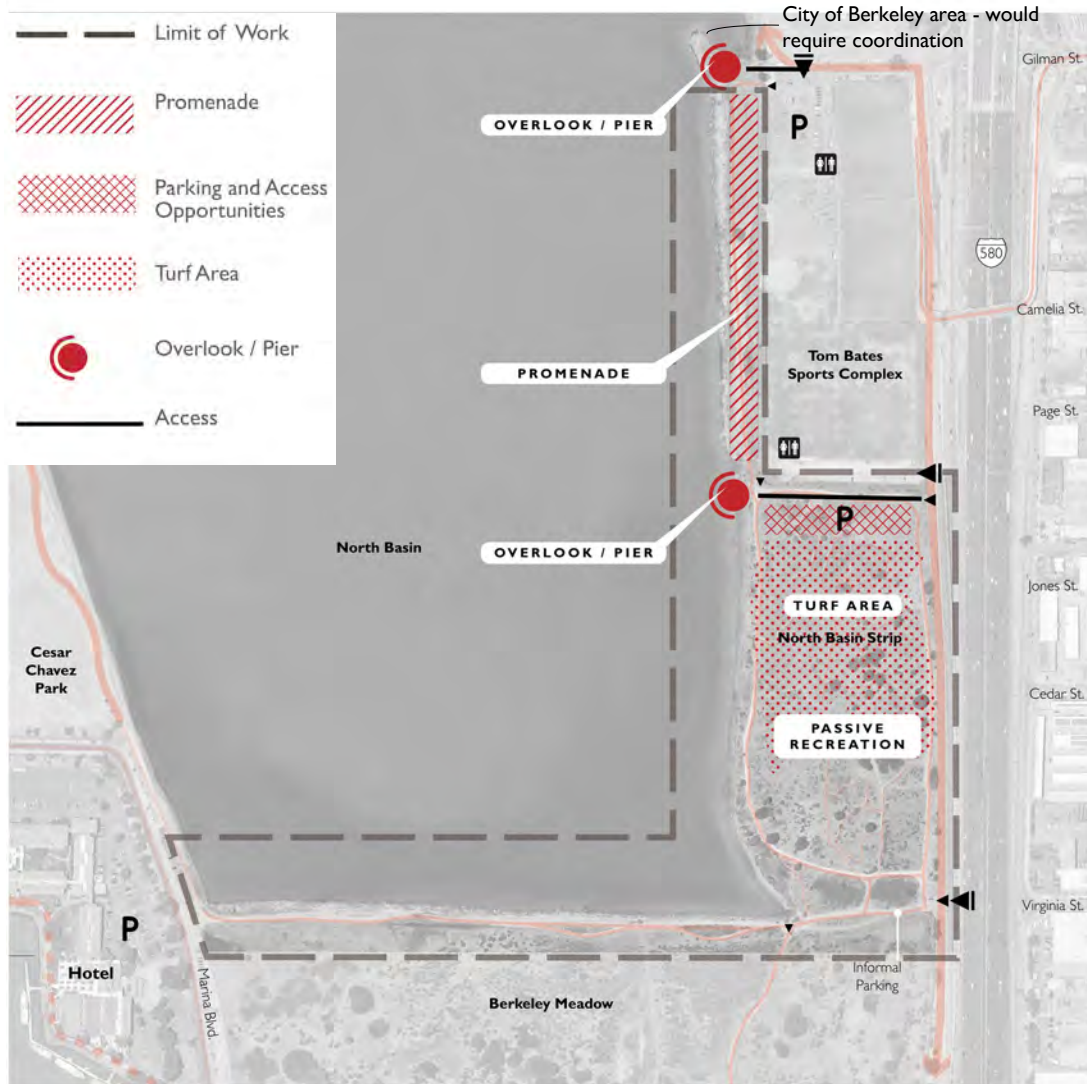
Opportunities Trails



- Limit of Work
- Spur Trail
- Boardwalk
- Existing Trails
- Bay Trail

- 1 Bay Trail "Spur"
- 2 Boardwalk to Accommodate SLR
- 3 Redirect Trail Thru B. Meadow
- 4 Interior Narrow Trails

Opportunities Recreation



Potential Facilities Identified in the General Plan:

- Interpretive Center
- Hostel with 20-40 beds
- Boathouse
- Recreation concessions
- Turf area for informal recreation
- Picnic facilities
- Restroom facilities
- Benches and seating areas
- Waterfront promenade
- Water access facility (ramp, dock, etc.)
- Boating support facilities and aquatic recreation concessions
- Multi-use trail system
- Parking for 350 cars, phased

Potential Compatible Facilities

Recreational Amenities

- Barbecue areas
- Paved areas for group activities
- Exercise equipment
- Sand Volleyball Courts , Lawn games

Shoreline & Water Access

- Fishing pier, fish cleaning station
- Swimming areas (Albany beach/Alameda beach)

Support Facilities

- Showers
- Restrooms
- Bicycle parking (racks)

Program Requiring Management, e.g., Concessions

- Aquatic Recreation Rentals
- Bicycle Rentals
- Bicycle pump track/BMX facilities, Skate park

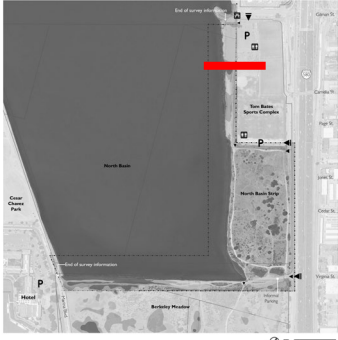
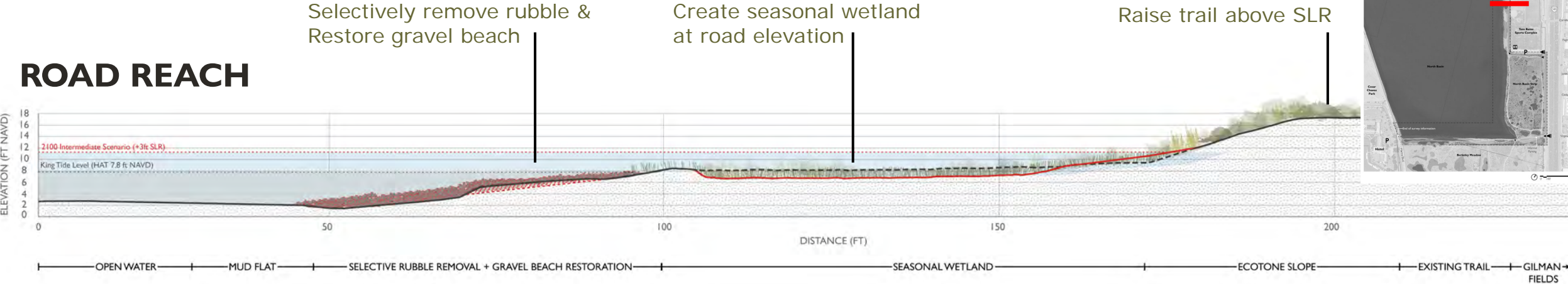
Opportunities Habitat / Ecology



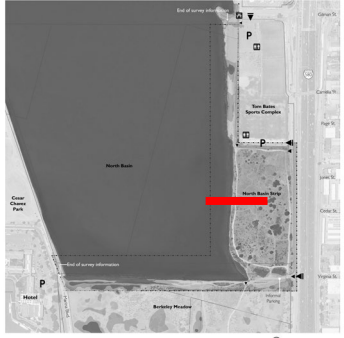
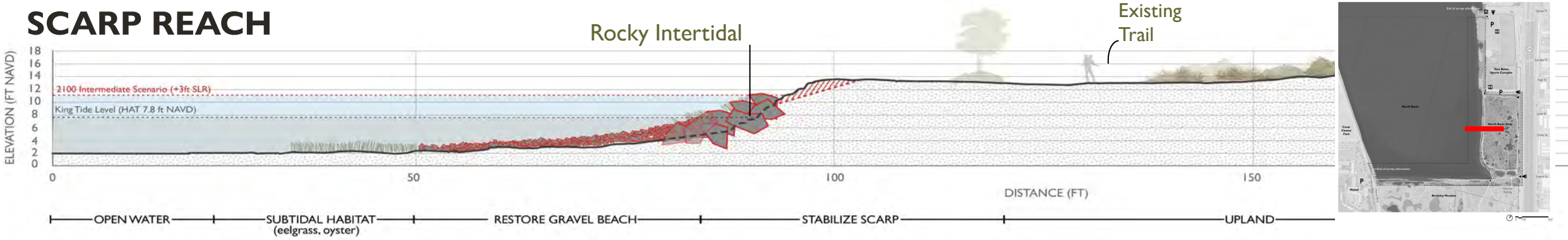
- Upland - Improve habitat for native wildlife.
- Shoreline - Restore gravel beach
- Intertidal, subtidal
 - Rockweeds, barnacles, eelgrass, oysters
- Non-native species Control

Opportunities Shoreline Resilience

ROAD REACH

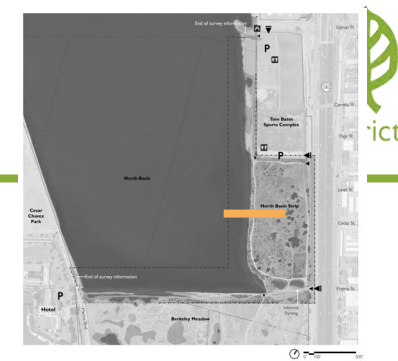


SCARP REACH



HAT – Highest Astronomical Tide
NAVD – North American Vertical Datum

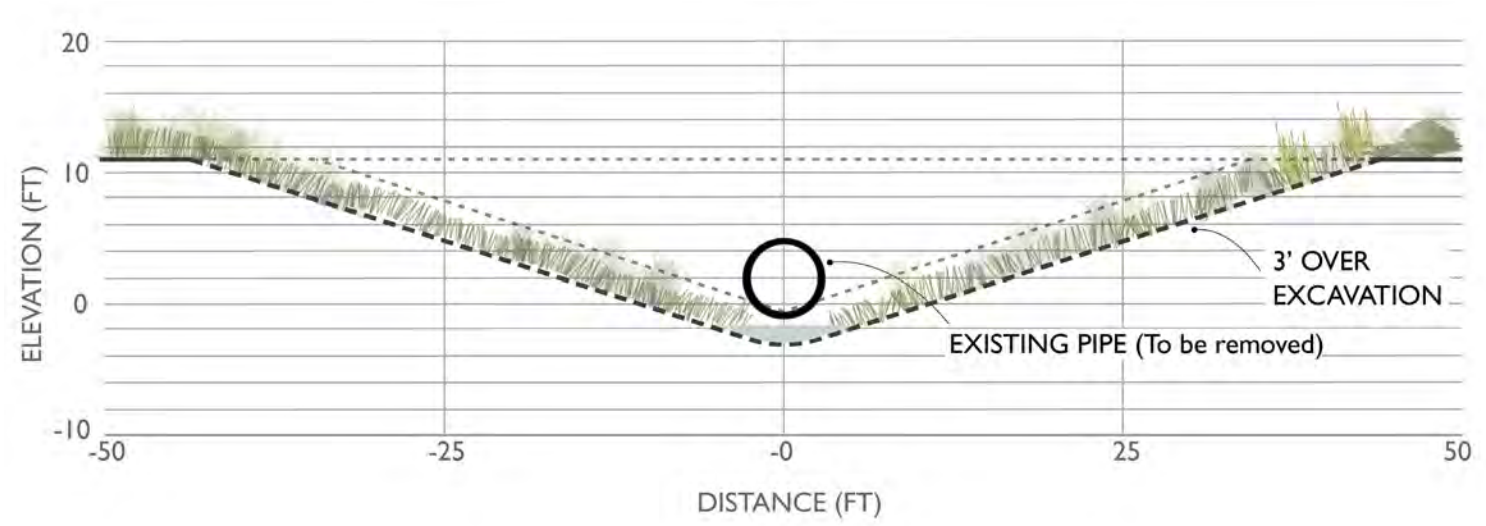
Opportunities Schoolhouse Creek



- Goals
- Habitat restoration
 - SLR resilience



- Excavate channel in existing pipe alignment
 - Minimum grading volume to daylight the pipe (~12,000cy)
 - Max grading depth = 14.5ft below ground surface
- Over-ex + clean fill to support revegetation
- Risk consideration: cutting into unknown fill could uncover materials that require special handling (potential cost/hazard)



Thank You

