

EVOLVING SHORELINES PROJECT AT BOTHIN MARSH

DRAFT FOR PLANNING - 2023

BOTHIN MARSH OPEN SPACE PRESERVE: EXISTING CONDITIONS



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PROPOSED PROJECT ELEMENTS PLAN

TRAIL AND USER EXPERIENCE

-  1 EXISTING BAY TRAIL
-  2 MILLER AVE TRAILHEAD
-  3 OLD TRAIL OVERLOOK NORTH
-  4 ROSEMONT OVERLOOK
-  5 TAM JUNCTION TRAILHEAD
-  6 PROPOSED BAY TRAIL
-  7 OLD TRAIL OVERLOOK SOUTH

MARSH RESILIENCE

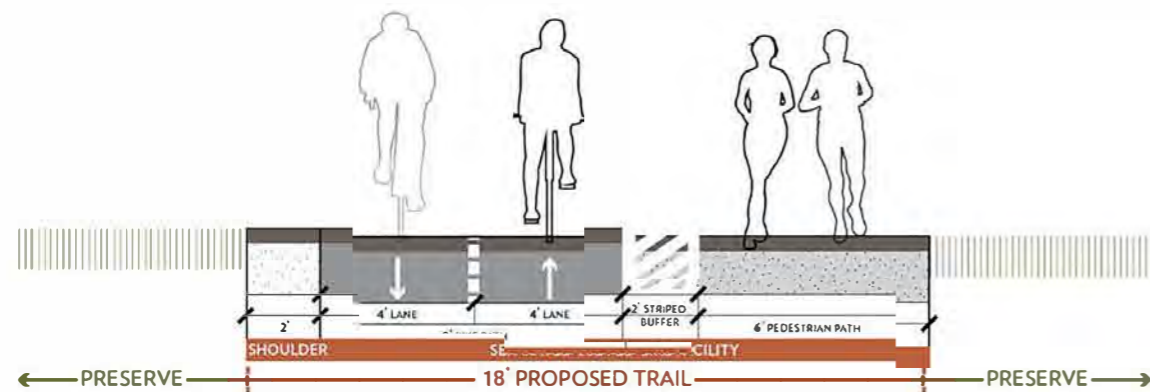
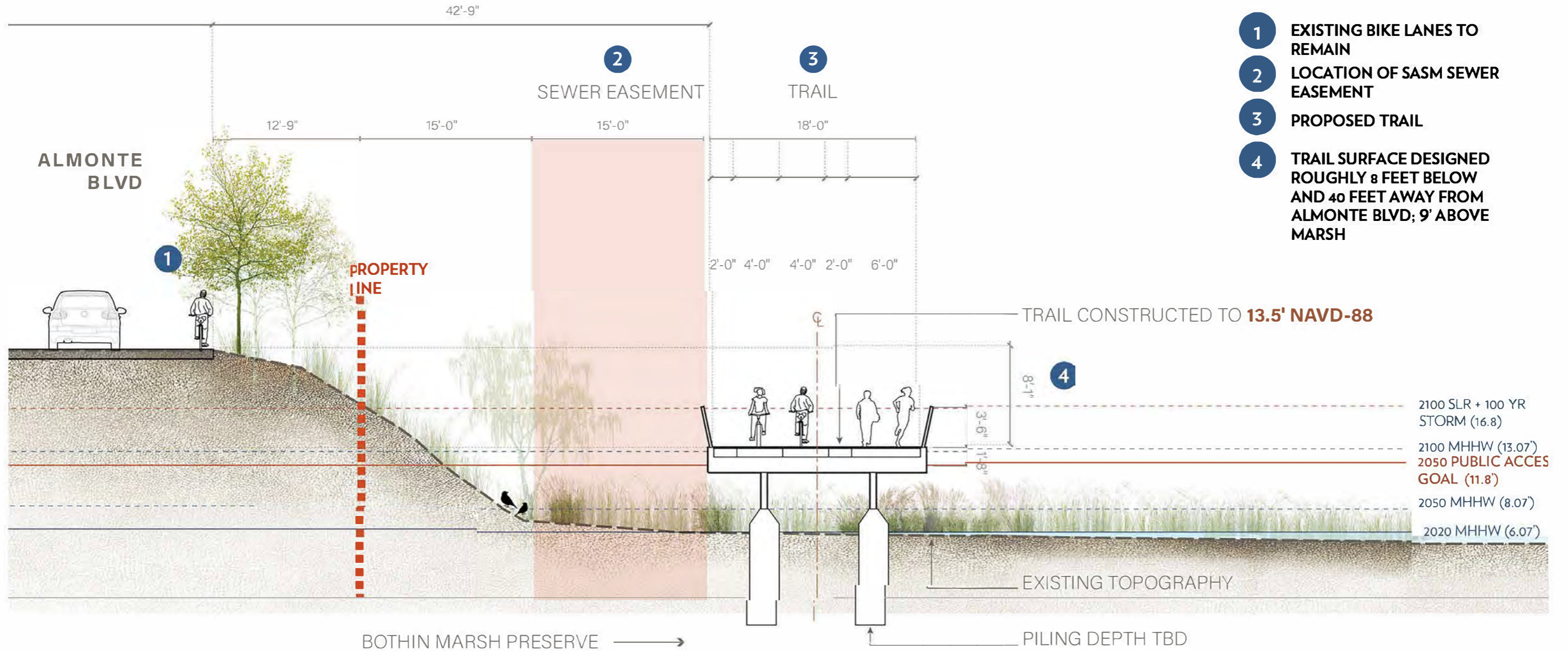
-  1 EXISTING TIDAL CHANNEL
-  2 PROPOSED TIDAL CHANNEL
-  3 TRAIL EMBANKMENT RESTORATION
-  4 COARSE BEACH
-  5 EXISTING BRIDGE REMOVAL
-  6 POTENTIAL REEF LOCATION
-  7 POTENTIAL THIN LIFT
-  8 ECOTONE SLOPE
-  9 HIGH MARSH RESTORATION
-  10 MARSH MOUNDS



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TRAIL SECTION ALONG ALMONTE BLVD

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SEPARATED USE TRAIL

Within the same 18'-wide clearance recommended by the Bay Trail Guidelines, this design provides a two-way 8' bike path with 2' shoulders and a 6' dedicated pedestrian path. The 2' striped shoulder provides a safe, curbsless buffer that provides separation, but still encourages bikers to maintain safe speeds.



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VIEW ADJACENT TO ALMONTE BLVD

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TAM JUNCTION TRAILHEAD: EXPANDED OPTION

Potential Amenities

- 1 Existing trail alignment restored as marsh habitat
- 2 Proposed Bay Trail Alignment
- 3 Trail Entrances
- 4 Bus Stop
- 5 Shade Trees and Gathering Space
- 6 Restrooms
- 7 Accessible Parking
- 8 Native Plant Restoration
- 9 Flexible Event Space



An expanded Tam Junction Trailhead could provide visitors with numerous amenities as part of the proposed adaptation for the Bay Trail around Bothin Marsh. Potential amenities could include; restrooms, more parking, flexible space for events and gathering, shaded seating, a broader trail entrance, and improved bus connection. This expanded approach could provide opportunities to restore a native plant landscape along the edges of the trail and trailhead.

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TAM JUNCTION TRAILHEAD: MINIMAL OPTION

- 1 Existing trail alignment restored as marsh habitat
- 2 Proposed Trail Alignment
- 3 Marsh Overlook
- 4 Trail Entrance
- 5 Proposed Causeway Trail
- 6 Rosemont Access Bridge
- 7 Parallel Parking
- 8 Native Plant Restoration



A minimal option for the Tam Junction Trailhead could provide visitors with new access to the proposed Bay Trail that would ring Bothin Marsh. This minimal approach could improve existing parking along Almonte Blvd. and may include a trail connection near the Rosemont bus stop and crosswalk. A large portion of the Open Space Preserve could be planted with native plants and provide important transition zone habitat for tidal marsh plants and animals.

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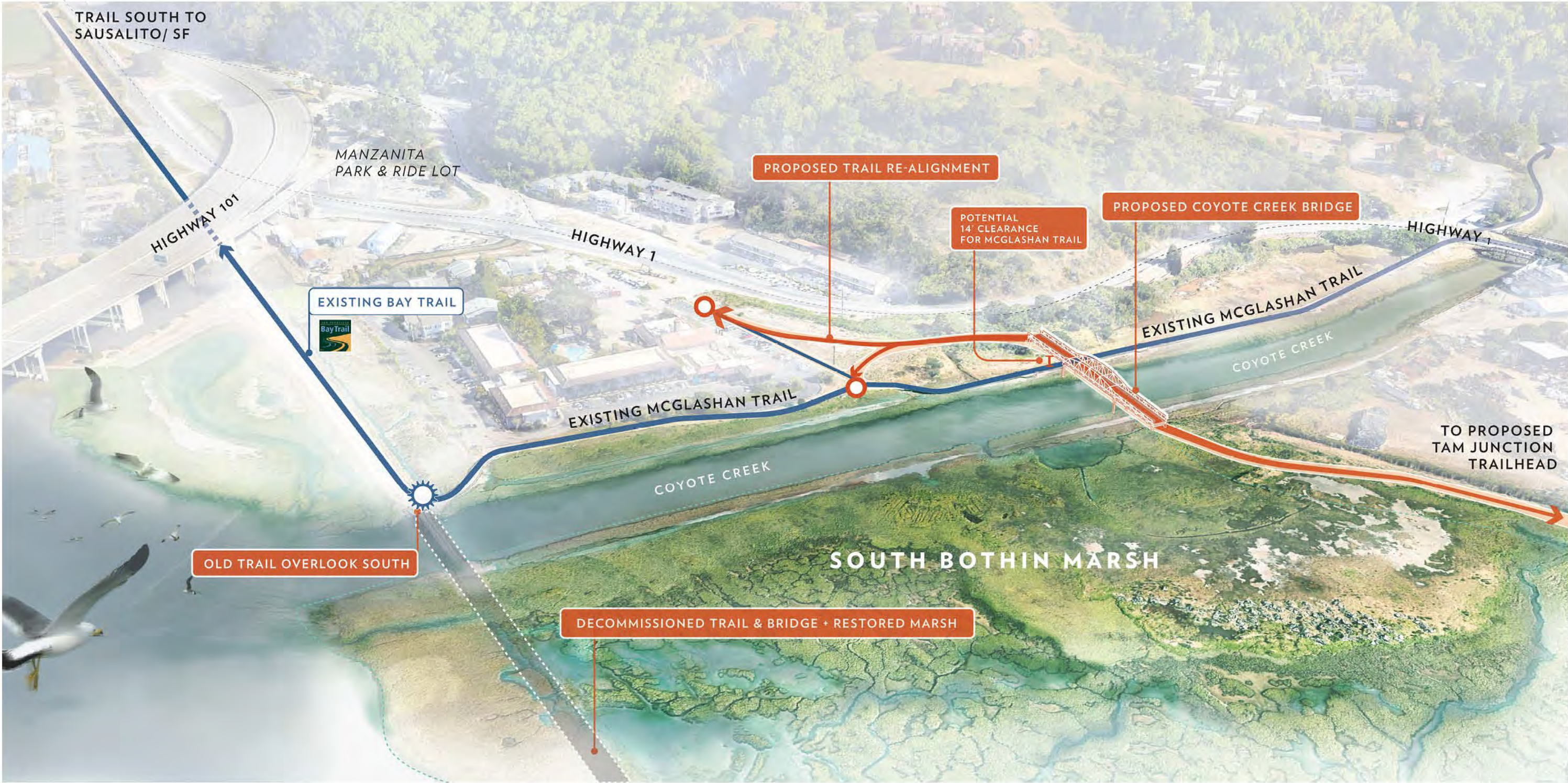
TAM JUNCTION TRAILHEAD: PROPOSED TRAILHEAD OPTION



- 1 EXISTING BUS STOP
- 2 ROSEMONT TRAIL ACCESS
- 3 ROSEMONT OVERLOOK
- 4 TRAFFIC CALMING SURFACE
- 5 IMPROVED PARALLEL PARKING
- 6 INFORMAL GATHERING AREA
- 7 UPLAND RESTORATION PLANTING
- 8 GATEWAY SIGNAGE
- 9 PEDESTRIAN IMPROVEMENTS
- 10 DRIVE AISLE TO REMAIN
- 11 EXISTING PARKING TO REMAIN
- 12 IMPROVED PARKING (12 CARS INCLUDING 2 ADA)
- 13 PREFABRICATED RESTROOM
- 14 CAR TURN-AROUND

EVOLVING SHORELINES PROJECT AT BOTHIN MARSH

COYOTE CREEK BRIDGE AND MCGLASHAN TRAIL



PROJECT TEAM



WRT is a team of planners, urban designers, architects, and landscape architects based in San Francisco and Philadelphia. Through our collective approach, we serve the communities we work with by designing places that enhance the natural and social environment.



ESA is a 100% employee-owned environmental consulting firm. We plan, design, permit, mitigate, and restore—for projects across our communities, infrastructure systems, open spaces, and wildlands.

WRT and ESA are joined by technical partners:

Peter R. Baye, Ph.D.,

GHD,

Shannon Wilson,

and Arup.



The Evolving Shorelines Project is a priority of the One Tam collaborative. One Tam brings together inspired community members, California State Parks, Marin County Parks, Marin Water, National Park Service with the nonprofit Golden Gate National Parks Conservancy to leverage skills and resources to support the long-term stewardship of Mt. Tam.



Sea level rise adaptation work at Bothin Marsh is funded by **Measure A** and from philanthropic support from **One Tam members**.

The Evolving Shorelines Project received funding from 2016’s **Measure AA**, the clean and healthy bay measure, through the **San Francisco Bay Restoration Authority**, which is a regional agency that funds projects that restore, protect and enhance the wetlands and wildlife habitat in the San Francisco Bay and its shoreline

The project has received funding from the **California State Coastal Conservancy** and the **Marin Community Foundation** through the Advancing Nature-Based Adaptation Solutions grant program. This program seeks to support nature-based approaches that address the risks and impacts of climate change and sea level rise to protect the Marin County bay and coastal shorelines and natural resources.