

Surfers Beach Pilot Restoration Project Progress Update



Brad Damitz, Coastal Management Consultant

San Mateo County Harbor District, Board of Harbor Commissioners Meeting 2/19/25

Pillar Point Harbor Project Location Map



Surfers Beach Project Background and Need

- **Severe Erosion:** The USACE analysis determined that the bluffs along Surfers Beach eroded at an average rate of 1.64 feet per year between 1993 and 2012.
- **Harbor Sedimentation:** The study also found that there is a significant accumulation of sand within Pillar Point Harbor.



Existing Conditions at Surfers Beach



January 2023

Existing Conditions Pillar Point Harbor



Low Tide, January 2021

Project Overview

- The Project will remove 100,000 cy of sand from Pillar Point Harbor and place it at Surfers Beach.
- Large-scale Eelgrass mitigation is required as part of Project permits.
- This is a “Pilot Project” and, if successful, a larger version could be pursued in the future.

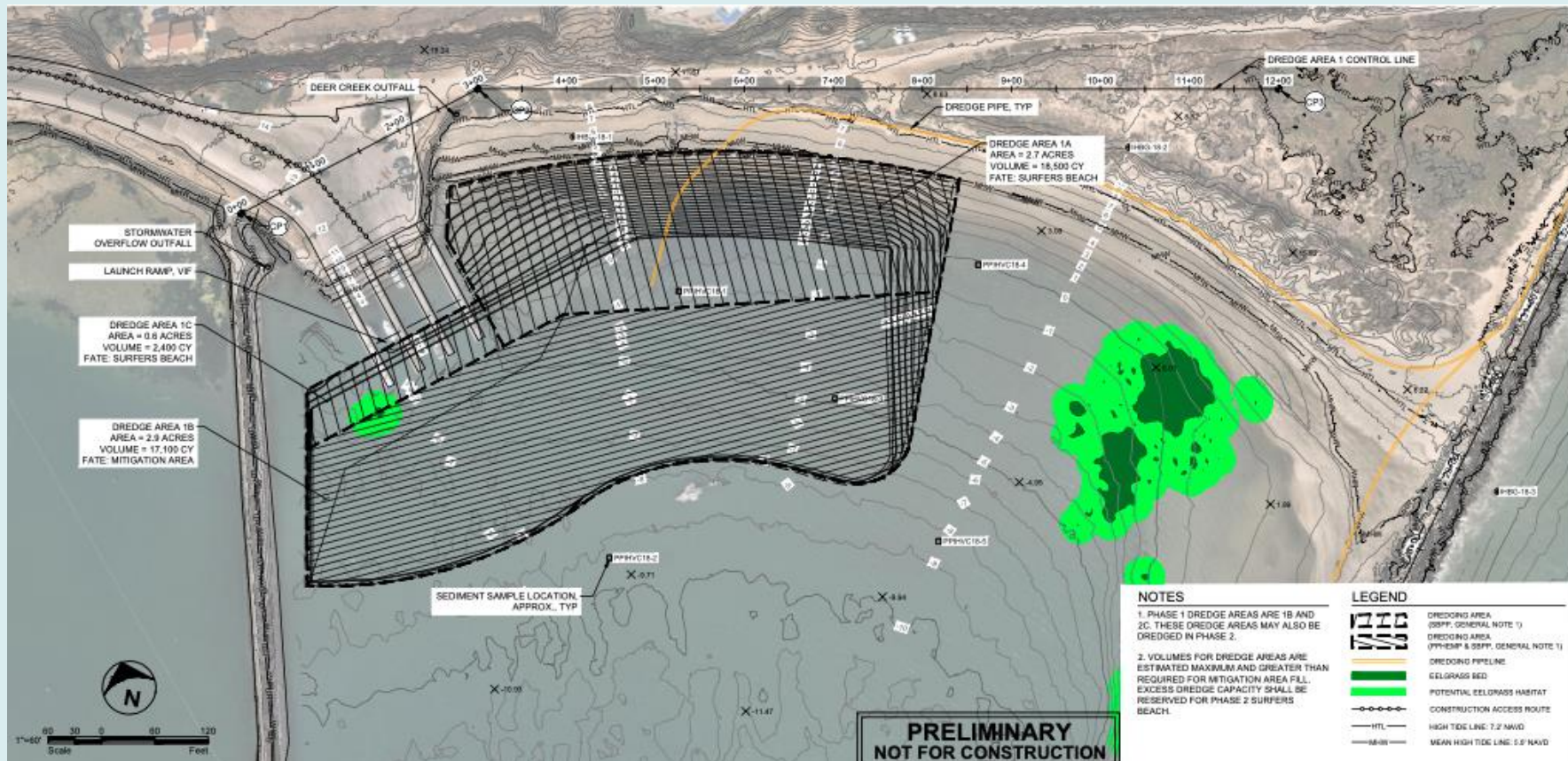
Surfers Beach: Engineering & Design



FILE: P:\01 CAD\180631\001\001 - Surfers Beach Pilot Project\DWG\02 - SITE PLAN.dwg PLOT DATE: 4/19/2023 12:11:54 PM PLOTTED BY: MARIO ACCORONDO

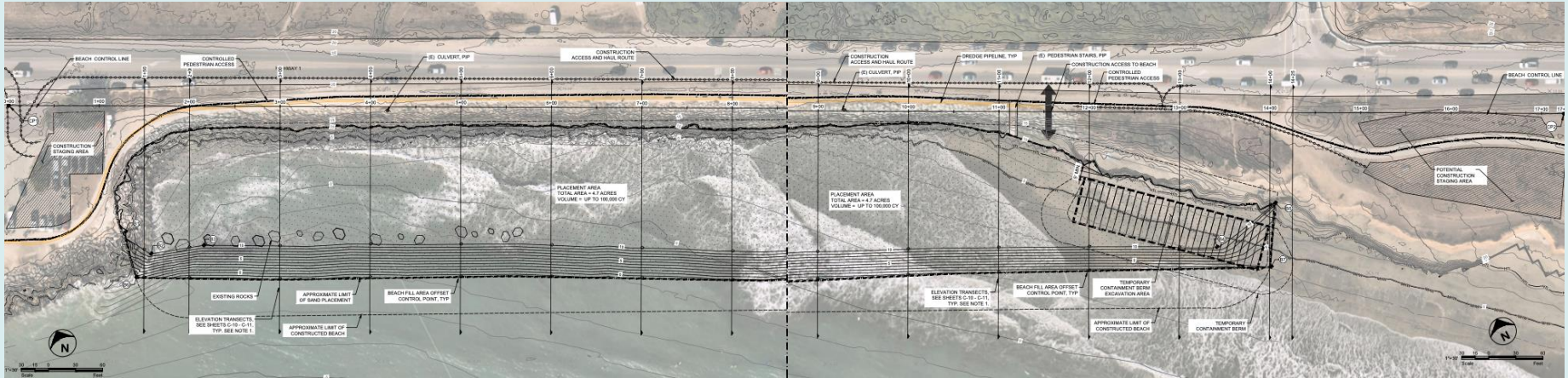
Site Plan – Showing dredge areas, eelgrass mitigation and beach placement.

Surfers Beach: Engineering & Design



Proposed Dredging Areas 1a – 1c

Surfers Beach: Engineering & Design



Proposed Beach Placement Design

Surfers Beach Implementation Timeline

February – March 2025:

- Approve project management, environmental compliance, biological and surfing conditions monitoring contracts.
- **Project goes out to bid early March.**
- Continue surfing conditions monitoring.
- Continue planning and logistics and pre-construction permitting requirements.
- Finalize Biological Monitoring Plan, obtain agency approval
- Finalize Monitoring and Adaptive Management Plan, obtain agency approval

Surfers Beach Implementation Timeline

April 2025:

- Eelgrass survey of East Basin and West Basin mitigation area (after April 1, within 60 days of construction start).
- Black abalone survey.
- Special Status Plant surveys.
- Bathymetry survey.
- Continue surfing conditions monitoring.
- Public meeting to provide Project information.
- Submit Construction Plan to agencies.
- Coordinate with Contractor and Project Partners on Construction Logistics.

Surfers Beach Implementation Timeline

May 2025 –

- Complete Snowy Plover pre-construction survey (within 7 days of construction start).
- Special Status Plant surveys.
- **Contractor mobilization.**
- Submit Start of Construction Report to notify agencies (at least 3 day prior to construction start).
- Continue surfing conditions monitoring.

Surfers Beach Construction Timeline

1. Contractor mobilization.
2. Begin dredging near Boat Launch Ramps and construct eelgrass mitigation area.
3. Allow placed sediment at mitigation area to settle, then transplant eelgrass.
4. Dredge and pump sand to SB, Final grading.
5. Contractor closeout and Demobilization.

Proposed Services Include

- **Brad Damitz, Coastal Management Consultant** – Project Management and Environmental Compliance services for next 5.5 years.
- **Marine Taxonomic Services, Ltd. (MTS)** – Complete pre- and post-construction eelgrass surveys and black abalone surveys and implementation of the 5-yr permit-required Pillar Point Harbor-wide Eelgrass Mitigation Plan.
- **Wood Biological Consulting** – Chris Rogers to complete several biological monitoring tasks required by the Project's permits.
- **Coastal Futures, LLC** – Bob Battalio to oversee the required surfing conditions monitoring program that is required by the Coastal Commission Coastal Development Permit.

Proposed Scope of Services: Brad Damitz

Proposal for Project Management and Environmental Compliance for the Surfers Beach Restoration Pilot Project (Project) and the Pillar Point Harbor-Wide Eelgrass Mitigation Program (eelgrass mitigation) over the next 5.5 years. Includes:

- Pre-construction planning and logistics
- Construction Phase
- 5-year Maintenance and Monitoring phase of the Project.

Total Proposed Cost: \$127,710

Proposed Scope of Services: MTS

Contact: Robert Mooney, PhD

- Planning
- Scientific Collection Permit Application
- Pre-Construction Eelgrass and Black Abalone Survey
- Post-Construction Eelgrass Monitoring (8 total surveys)
- Abalone Contingency
- *Biological Monitoring Plan

Total Proposed Cost: \$156,050 (Includes \$30K contingency for abalone relocation/monitoring)

Proposed Scope of Services: Wood Biological Consulting

Contact: Chris Rogers

- Nesting Bird Survey and Monitoring
- Snowy Plover Survey and Monitoring
- Special Status Plants Surveys
- Worker Environmental Training

Total Proposed Cost: \$41,175 (includes contingency \$17,414,
for snowy plover

Proposed Scope of Services: Coastal Futures, LLC

Contact: Bob Battalio

- Continue to develop Surf Observations Protocols.
- Surf Observations and Reporting.
- Coordination and training of Monitoring Team volunteers.
- Compile and analyze data, Prepare Reports.

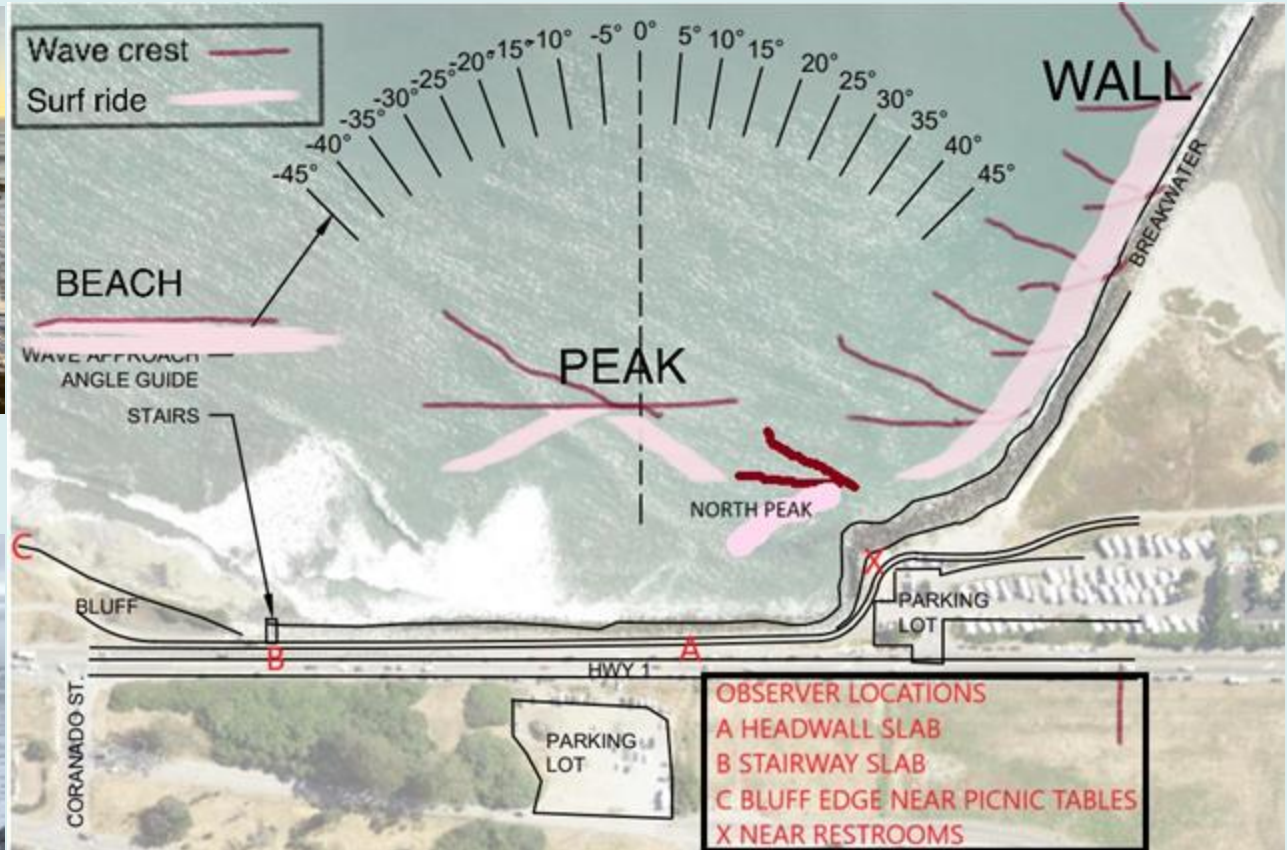
Total proposed cost: \$47,175.00

Surfing Conditions Monitoring

2024-11-04



2024-12-23



“The Wall” surf location Nov. 4 2024



Additional Project Costs

The following anticipated expenses for implementation of the Surfers Beach Project, which will still need to be approved by the District Board of Harbor Commissioners, include:

- Project Construction for harbor dredging, Surfers Beach restoration, and eelgrass mitigation. **April Board Meeting.** (Grant funds have been approved for \$2,720,000 to be applied toward Project construction).
- Proposal for Engineering Support, 3rd party Construction Management, and implementation of 5-yr Physical Monitoring Plan. **April Board Meeting.**
- Biological Monitoring Plan implementation (required by National Marine Sanctuaries permit) – final requirements yet to be determined. **April Board Meeting.** (Grant funding available).

Project Information Available

<https://www.smharbor.com/surfers-beach-pilot-restoration-project>

- Project Description.
- Preliminary Design Report
- Permitting-level Engineering Plans
- CEQA Draft IS-MND.
- Harbor-wide Eelgrass Mitigation and Management Plan.
- Sediment Sampling and Analysis Report.
- Biological Assessment.
- Federal/State Wetland Delineation Reports.

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