

Surfers Beach Pilot Restoration Project Construction Update



Brad Damitz, Coastal Management Consultant

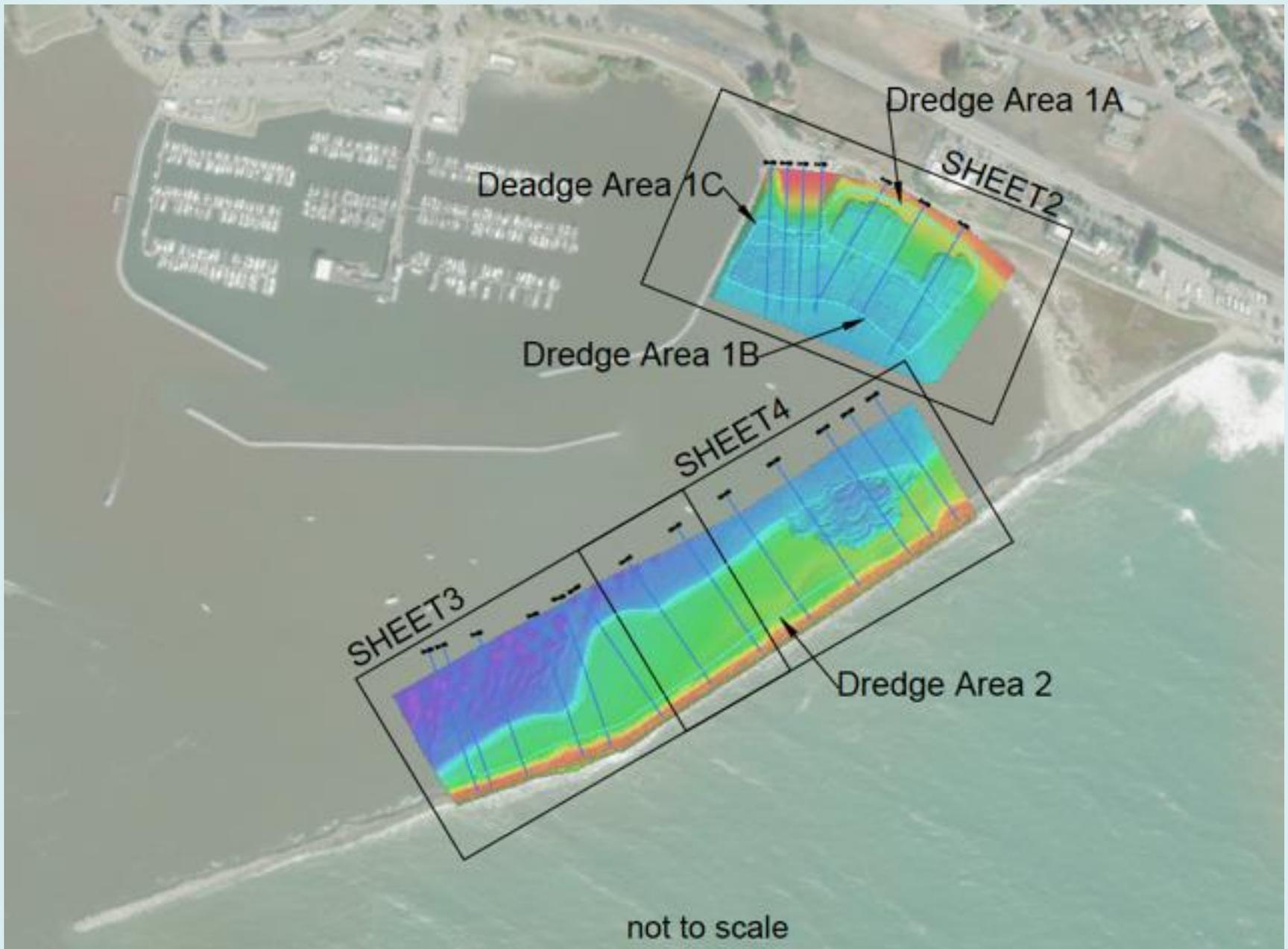
**San Mateo County Harbor District, Board of Harbor Commissioners Meeting
11/19/2025**

Surfers Beach Construction Timeline

1. Contractor mobilization.
2. Dredge near Boat Launch Ramps and construct eelgrass mitigation area.
3. Finish placing sediment at eelgrass mitigation area and allow placed sediment to settle.
4. Transplant Eelgrass
5. Dredge and pump sand to Surfer's Beach, Final grading.
6. Contractor closeout and Demobilization.

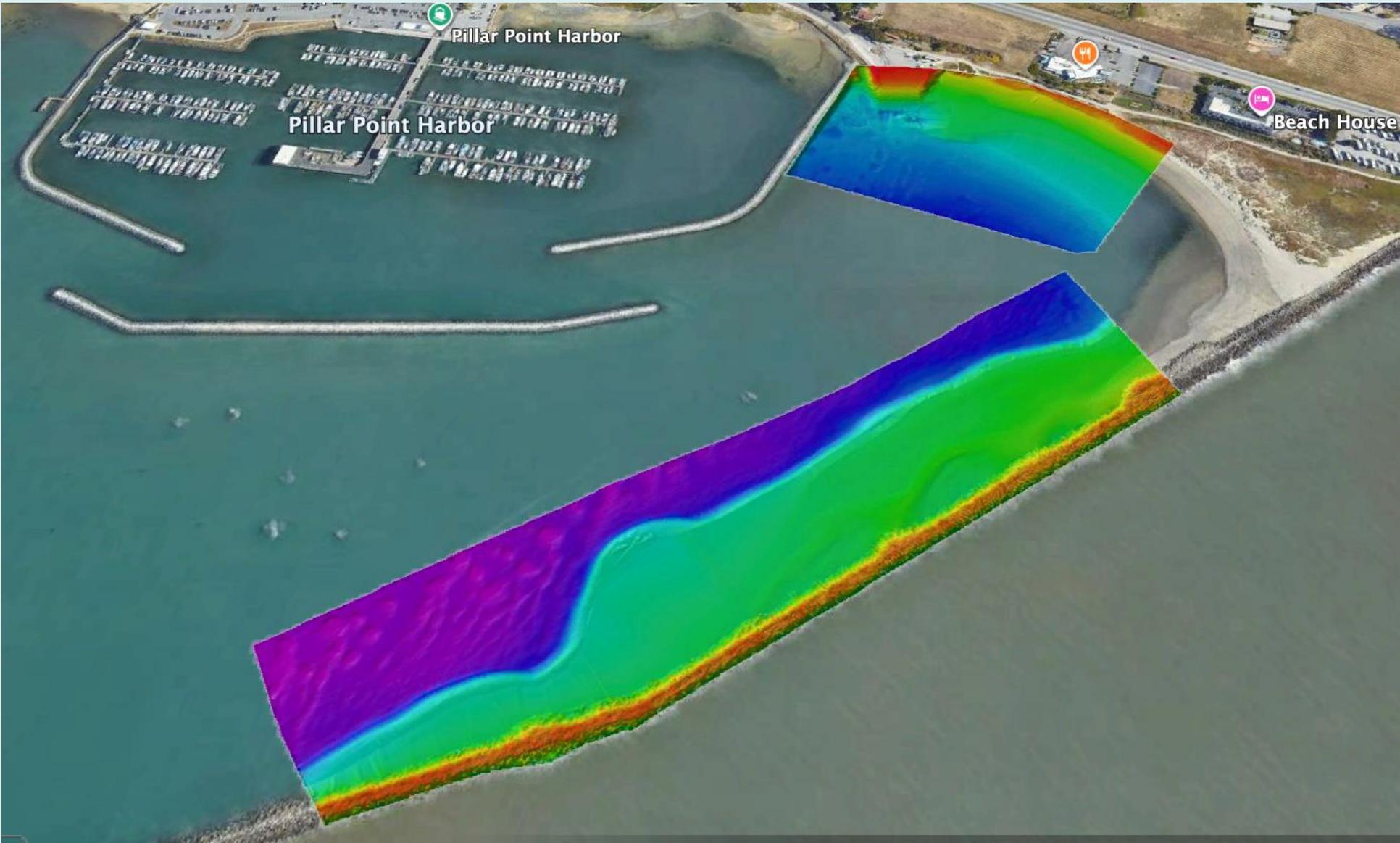
Construction Summary

- Dredging , Surfer's Beach sand placement, and final grooming completed by October 29, 2025.
 - 96,000 cubic yards of sand dredged from Harbor's east basin
 - 80,000 cubic yards pumped to Surfer's Beach
- Eelgrass mitigation site constructed and eelgrass salvaged/transplanted
- All construction and staging areas restored to pre-project conditions, and Vortex Marine has demobilized all equipment.
- Multiple sand placement methodologies were tested as part of Pilot Project.

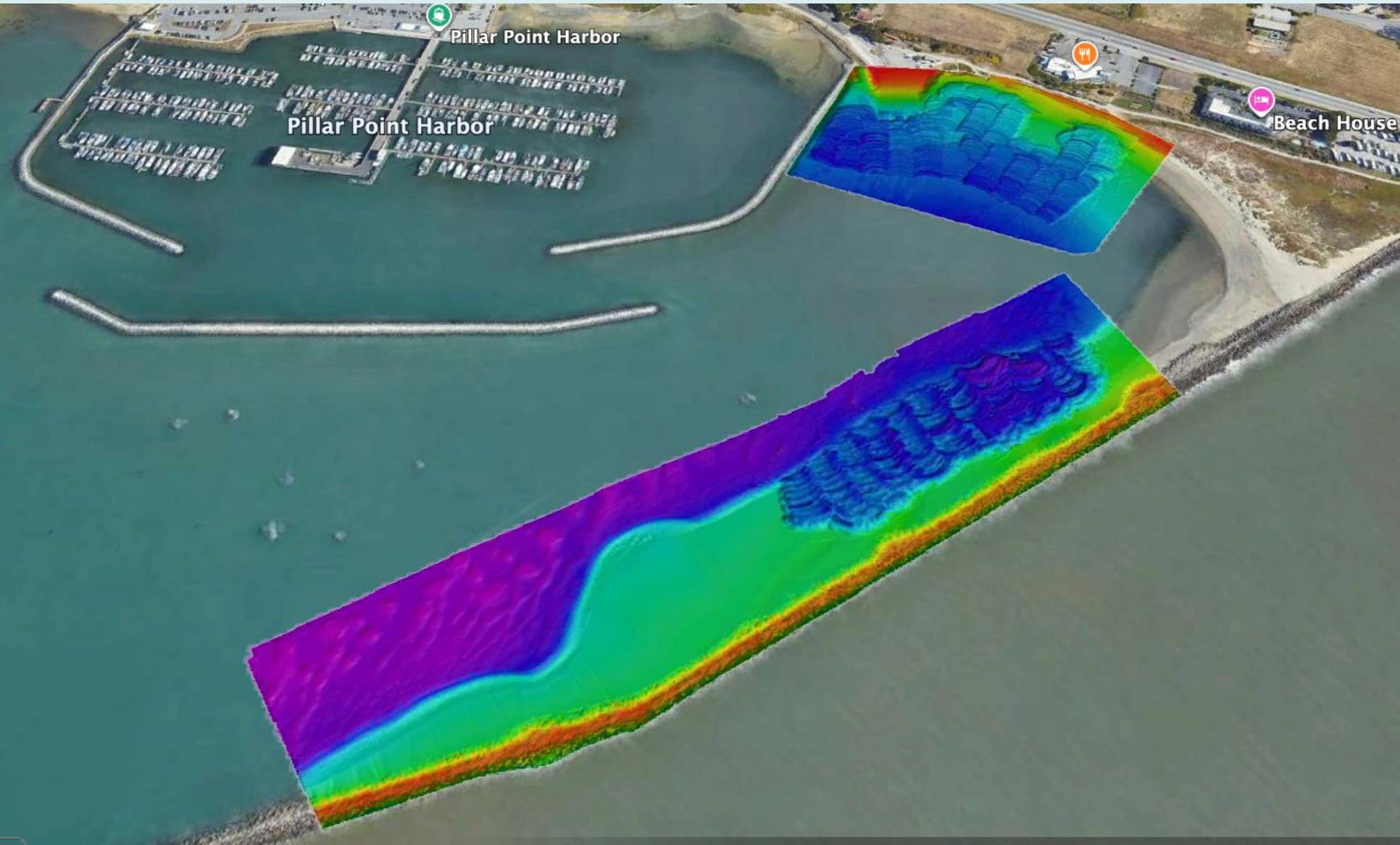


Total of 96,000 cubic yards of sand dredged from areas 1 and 2

Prior-to-Dredging Condition



Post-Dredging Condition



Pre-Dredging Condition



Post-Dredging Condition

11-04-2025 Tue 03:17:21 PM



North

Completion of Sand Placement (10/31)



Before and after discharge of ~10,000 cy to North End

Before Discharge Started



After ~ 2 weeks / 10,000 cy



June 5 = 1.7' MLLW



September 12 = 2.5' MLLW



September 21 = 1.1' MLLW



October 9 = -0.5' MLLW



October 21 = 0.4' MLLW



October 23 = 0.76' MLLW



November 4 = -0.82' MLLW



Sand Placed on beach 10/31/25



Pre-Storm Beach Profile 11/04/25



Post-Storm Beach Profile 11/05/25



11/06/25 Surfing Conditions



11/06/25 Surfing Conditions



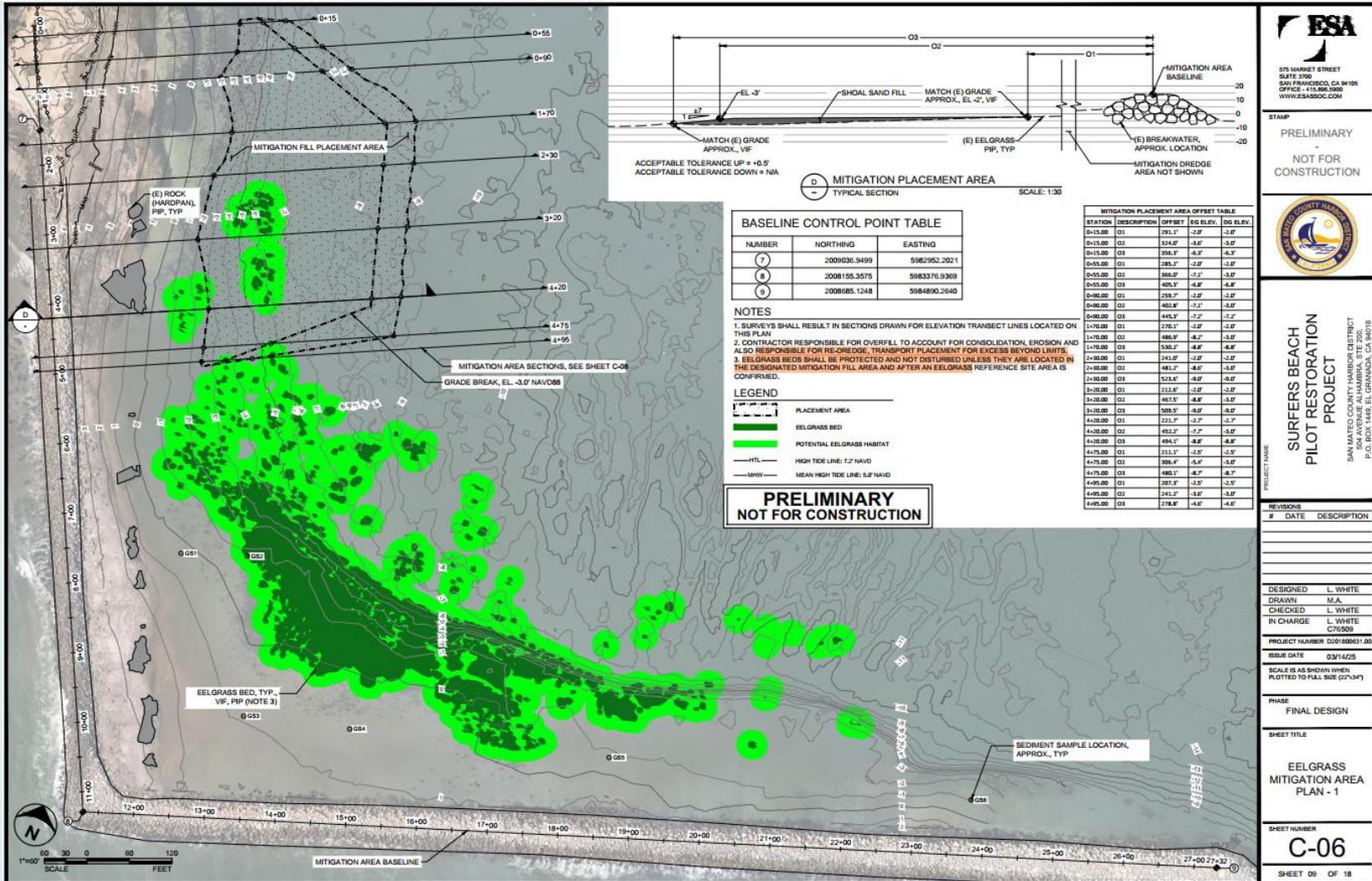


Deer Creek Outfall on October 3rd



Deer Creek Outfall on November 3rd

Eelgrass Mitigation Area Pre-Construction Conditions



ESA
 835 MARKET STREET
 SUITE 3700
 SAN FRANCISCO, CA 94105
 OFFICE: +1.415.552.5500
 WWW.ESASSOC.COM

STAMP
 PRELIMINARY
 NOT FOR CONSTRUCTION



SURFERS BEACH PILOT RESTORATION PROJECT
 SAN MATEO COUNTY HARBOR DISTRICT
 504 AVENUE ALHAMBRA, ST# 200
 P.O. BOX 1449, EL BRANCO, CA 94018

DESIGNED L. WHITE
 DRAWN M.A.
 CHECKED L. WHITE
 IN CHARGE L. WHITE
 C76509

PROJECT NUMBER: 0207800631-00
 ISSUE DATE: 03/14/25
 SCALE IS AS SHOWN WHEN PLOTTED TO FULL SIZE (27"X34")

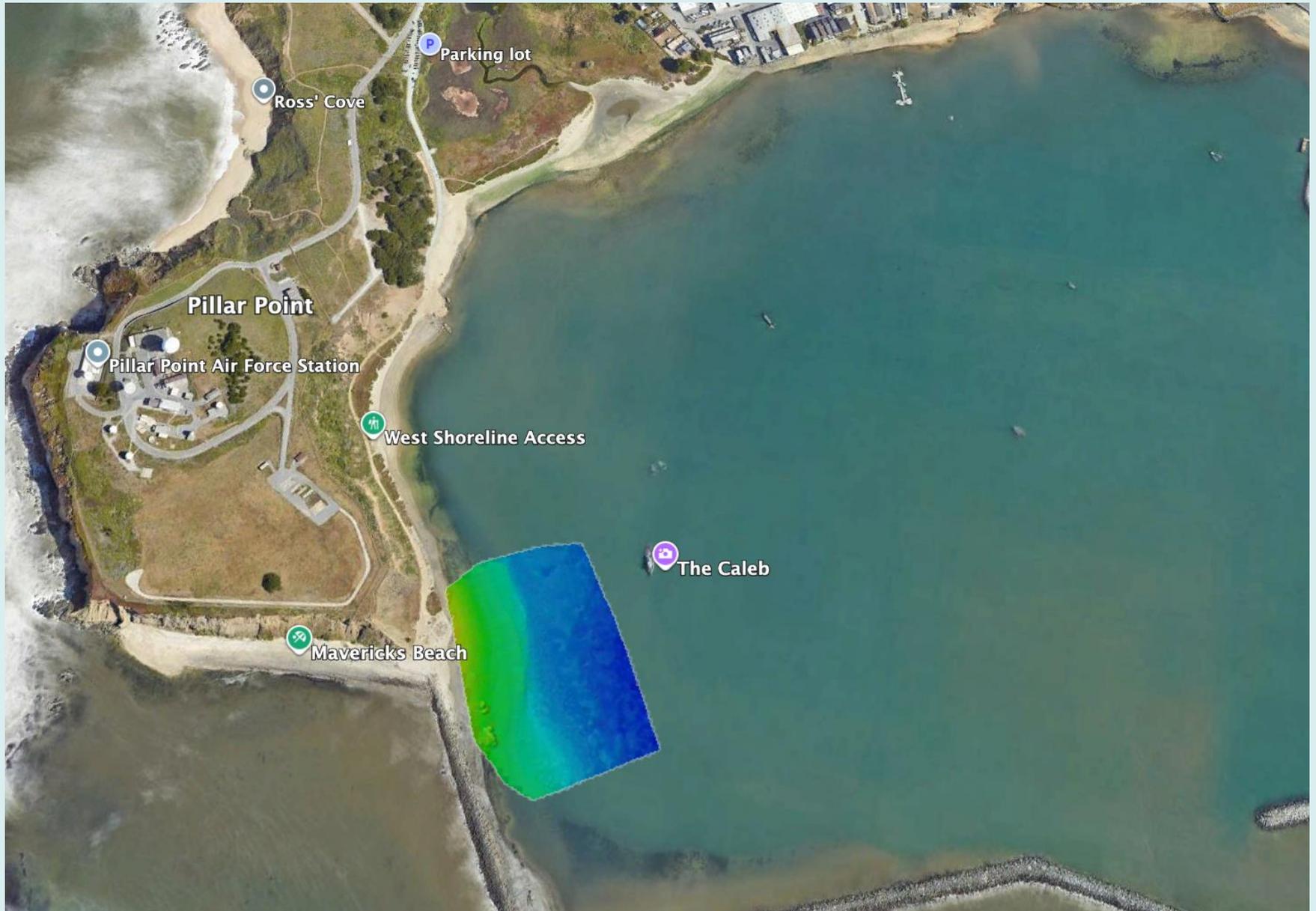
PHASE: FINAL DESIGN

SHEET TITLE: EELGRASS MITIGATION AREA PLAN - 1

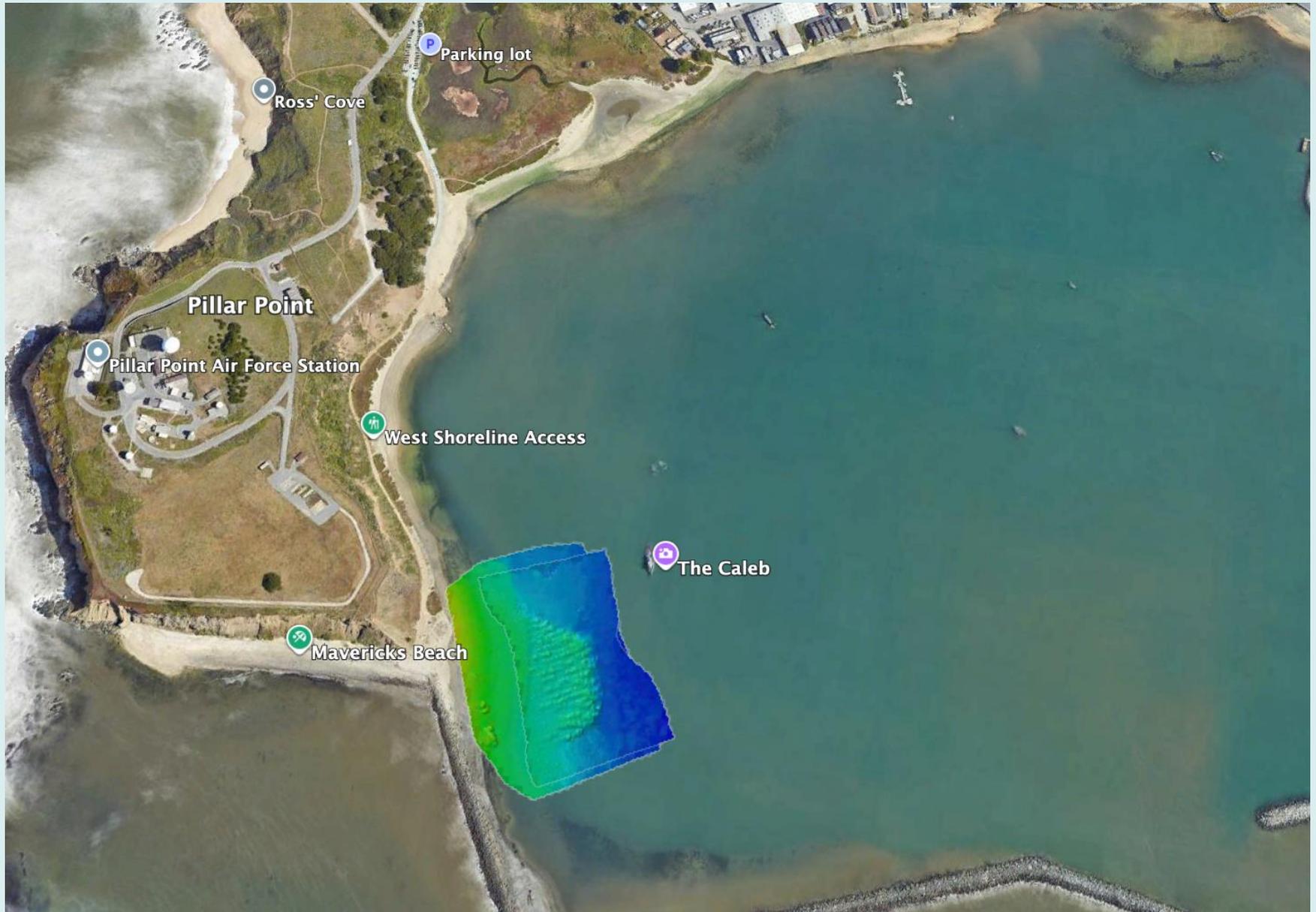
SHEET NUMBER: C-06

SHEET 09 OF 18

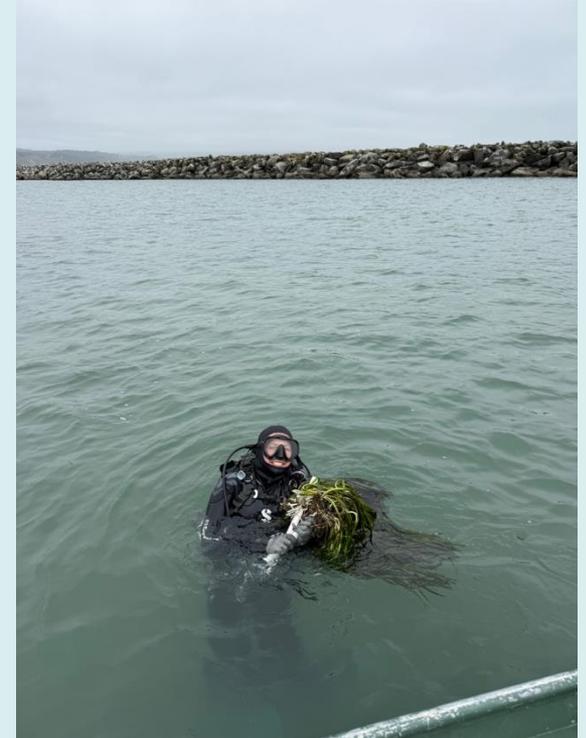
Eelgrass Mitigation Area Pre-Construction



Eelgrass Mitigation Area Post-Construction



Eelgrass Mitigation Area Salvage/Transplant



5-year Post-Construction Monitoring

- Surveys to track progress and movement of sand
- Waves – Install a buoy to measure waves offshore
- Water Levels / Tides – Install tide gauge in harbor
- Surfing and Beach Recreation – observations and camera / video
- Sediment sampling – grain size distributions over space and time
- Time lapse and other photography

Acknowledgements

- **San Mateo County Harbor District Board of Commissioners:** Tom Mattusch, Virginia Chang Kiraly, William Zemke, George Domurat, Kathryn Slater-Carter, Edmundo (Ed) Larenas, Nancy Reyering, Sabrina Brennan, Robert Bernardo, Pietro Parravano, Nicole David.

Acknowledgements (continued)

- San Mateo County Harbor District Staff
- Pillar Point Harbor Patrol
- Consultant Team – ESA, Joe Hill Consulting and Engineering, MTS, Wood Biological, etc.
- Ocean Protection Council
- Contractor – Vortex Marine Construction, Inc.
- Local community members.

Project Information Available

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

- **Construction Updates**
- **Project Description.**
- **Preliminary Design Report**
- **Final Plans and Technical Specification**
- **CEQA Final IS-MND.**
- **Harbor-wide Eelgrass Mitigation and Management Plan.**
- **Sediment Sampling and Analysis Report.**
- **Biological Assessment.**
- **Federal/State Wetland Delineation Reports.**
- **Permits**
- **Detailed Permitting Overview & Permit Compliance Matrix.**
- **Bid Documents, Addenda and attachments (Final plans, specs).**



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