



City of Berkeley Piling Replacement and Dock Repair Project: Final Programmatic Report (AMENDED)

Recipient Organization/Agency: City of Berkeley

Date Submitted: September 28, 2014

Project Period: 01/01/2013 to 12/31/2015

Award Amount: \$120,000

Matching Contributions: \$86,498.00

Total Disbursement: \$120,000.00

Project Number: #8006.12.032926

1. Summary of Accomplishments

As of the close of November 2013, the City of Berkeley successfully removed and replaced pre-existing aging pilings and rings (eight at the South Sailing Cove small boat docks and two at O Dock at the Berkeley Marina), and repaired the damaged gangway beam at O Dock.

2. Project Activities & Outcomes

Activities

- The existing damaged pilings were pulled from the Bay mud and new pilings were driven using a floating pile driving rig. In addition, the damaged gangway beam at O Dock was replaced.

Benefits

- Due to storm damage in 2012, the West Dock at the South Sailing Cove was closed to the public. It was then opened after a small repair by the City, with restrictions that did not allow: (1) use by larger sail boats and (2) use by the public during storms. The replacement of the damaged pilings allowed the City to remove these restrictions so that the docks are fully available to the public.
- At the O Dock at the Berkeley Marina, the damaged gangway beam created a condition such that it was on the verge of being closed, which would have prevented public access to over 200 boat berths at O dock. The replacement of the damaged beam prevented the closure and the public will have access to the docks for the lifespan of the beam, or more than 25 years.
- With new pilings in-place, the City can now plan the project to replace the aging public docks with new ones at a greatly reduced cost.

3. The Future

The next phase of this effort will be to replace the existing aging wooden public docks with new ones.



4. Lessons Learned

- Always coordinate carefully with users of the sailing docks. Always notify them of the type of float docks to be installed and the free board height above the water prior to finalizing design.
- Always start permit process early to prevent potential delay.
- Coordinate with the dock users regarding the construction schedule in order to minimize any disruption to users.

5. Project Documents

Photographs and documents are included below.

POSTING OF FINAL REPORT: *This report and attached project documents may be shared by the Foundation and any Funding Source for the Project via their respective websites. In the event that the Recipient intends to claim that its final report or project documents contains material that does not have to be posted on such websites because it is protected from disclosure by statutory or regulatory provisions, the Recipient shall clearly mark all such potentially protected materials as “PROTECTED” and provide an explanation and complete citation to the statutory or regulatory source for such protection.*



Photograph 1: South Sailing Cove – Pile Driving Rig at West Dock during the pile driving phase. The rig removed the old pilings and drove in the new pilings (Photo: R. Miller, City Staff).



Photograph 2: South Sailing Cove – Old pilings removed from the Bay mud. (Photo: R. Miller, City Staff)



Photograph 3: South Sailing Cove – New pilings installed at West Dock with Driving Rig in background. Photo was taken from the newly-installed Bay Trail Extension Trail at the Berkeley Marina. (Photo: R. Miller, City Staff)



Photograph 4: South Sailing Cove – New pilings installed at East Dock at the new Bay Trail Extension Trail. (Photo: R. Miller, City Staff)



Photograph 5: O Dock – New gangway beam and new small pilings (2). (Photo: R. Miller, City Staff)



Photograph 6: O Dock – Close-up of new gangway beam. (Photo: R. Miller, City Staff)

7. Pilings Project, South Sailing Cove & O Dock, Berkeley Marina, aerial photo - Cosco Busan grant, December 2013

- 8 pilings replaced at East & West Docks at S. Sailing Cove (as of Nov 26, 2013)
- 2 small pilings and 1 gangway beam replaced at O Dock (as of Nov 26, 2013)



SOUTH SAILING COVE PARKING LOT

WEST DOCK - pre-existing
Cosco Busan Grant Work Completed:
 Pilings 1, 2, 3, 4 replaced on 11/26/2013

EAST DOCK - pre-existing
Cosco Busan Grant Work Completed:
 Pilings 6, 7, 9, 10 replaced on 11/26/2013

GENERAL NOTES:
 1. SEE Q-002 FOR SURVEY CONTROL INFORMATION.

AS BUILT DRAWING

TransSystems

CITY OF BERKELEY
 ENGINEER OF PUBLIC WORKS

SITE PLAN - 10/1/13
 SOUTH COVE PUBLIC DOCK
 AND PARKING LOT RENOVATION