





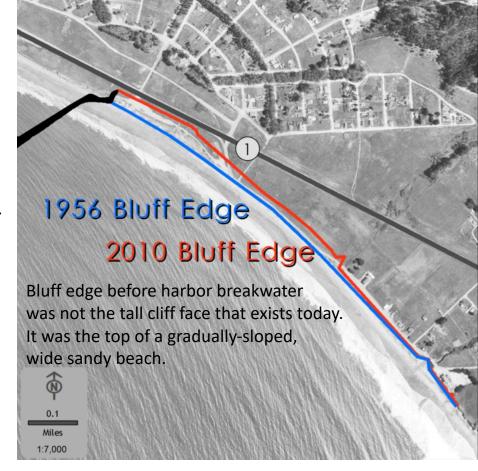




Surfers' Beach Reports & Projects

US Army Corps of Engineers:

- 2009 report determined that construction of the harbor breakwater 1959-61 dramatically increased the rate of erosion south of the jetty to Medio Creek.
- 2016 report determined the preferred alternative to address the issue was to move 150,000 cy of harbor dredge material to Surfers' Beach and southward to the Miramar revetment, however no federally-funded Army Corps project was recommended due to inadequate cost/benefit ratio.



Caltrans:

• 2016 project: 10-yr interim (renewable) permit amendment for 175-ft armoring extension & beach-access stairway to allow time to implement a long-term solution, such as moving this section of highway inland.

SMC Harbor District:

• 2015 initiated Surfers' Beach Pilot Restoration Project: transfer 75,000 cy harbor dredge material to beach south of jetty; construction expected 2021. If the follow-up 2-year monitoring program finds that the project is effective and does not cause unacceptable environmental impacts, then a larger beach nourishment project would be pursued in the future.

More info: http://www.midcoastcommunitycouncil.org/surfers-beach/

Shoreline Armoring Permits

Permit Jurisdiction

The 1976 Coastal Act requires a Coastal Development Permit (CDP) for shoreline armoring of existing development. Local governments can issue the CDP under their Local Coastal Program (LCP), which is appealable to the Coastal Commission (CCC).

CCC has direct permit jurisdiction if the armoring is placed below mean high tide, or on appeal, which is the case for all existing armoring permits along Surfers' Beach & Miramar.

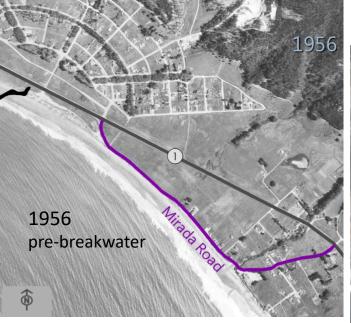
Armoring under emergency permit is considered temporary and subject to removal until a regular CDP is approved.

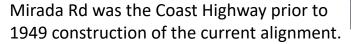
Applicants for existing armoring:

- Surfers' Beach: Caltrans (original CDP 1998, as amended 2015)
- Mirada Rd & replacement bridge: San Mateo County Public Works
 Initial rip-rap installed before Coastal Act when no CDP required.

 2016 emergency permits to repair & extend rip-rap require follow-up regular CDP.
- 2 Mirada & Casa Mira: private property owner (located within HMB City Limit)









Mirada Rd north of Magellan was abandoned to erosion in 1965.





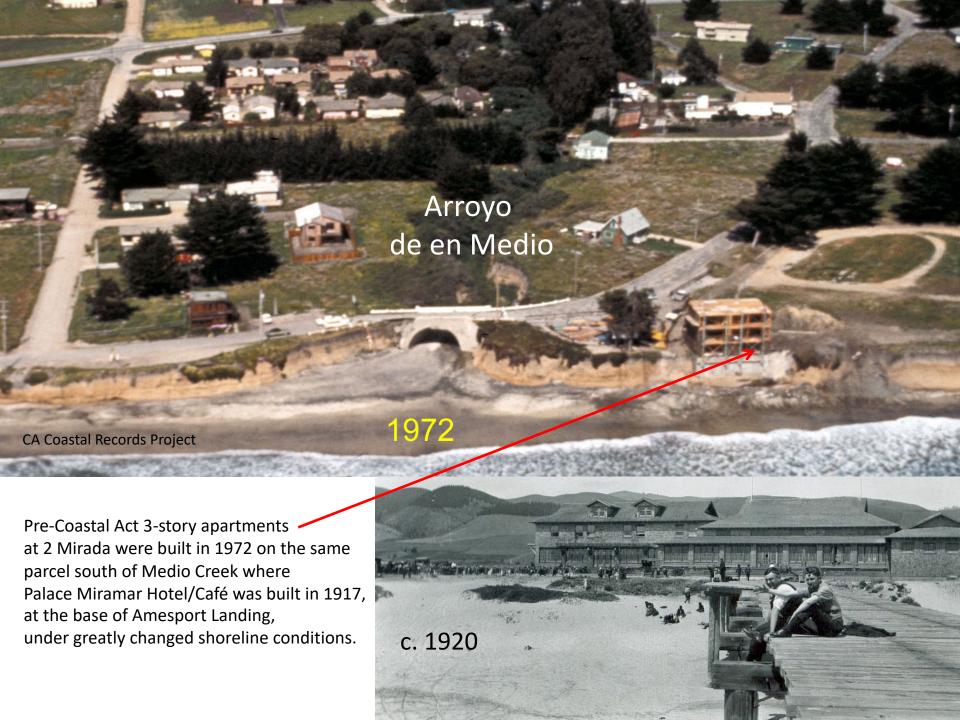
As the natural bluffs at Mirada Surf retreat, new armoring rocks have been placed where Miramar starts to become a peninsula jutting out over the beach.

8









Permitting in process around Arroyo de en Medio

Mirada Rd Coastal Trail Bridge

closed July 2020 -failed steel bridge on top of failed concrete bridge at Arroyo de en Medio Creek "2 Mirada" -- Armored pre-Coastal-Act apartments built on the 1972 shoreline, now on a peninsula out over the beach. 2019: Coastal Commission denied Casa Mira proposed shotcrete sea wall to protect the Coastal Trail which can be rerouted inland (under litigation).



2020 County CDP application to CCC for aluminum replacement bridge and armoring to wrap both sides of the mouth of the arroyo and connect to existing shoreline riprap.

Coastal Commission has open enforcement action on unpermitted riprap along the private parking lot.

2016 emergency rip-rap to protect 2 Mirada from erosion cutting in behind building. Additional emergency rip-rap was added in 2016 along the exposed side of the extending peninsula that formed as a result of armoring at the ocean front of the building.





Inevitable result of hard armoring the back beach – loss of beach and lateral access except at low tide. To compound the problem for beach-goers, there is no vertical access to the Coastal Trail on the bluff top in this area.



Miramar south of Mirada Rd, City of Half Moon Bay

South Miramar & Half Moon Bay State Beach



Existing residences on State Parks land at Alcatraz & Santa Rosa are used for ranger housing, and moved or demolished (X) when threatened by erosion.



Fronting State Parks property -- No armoring. No loss of beach. Natural bluff retreat and removal of development when threatened by erosion.