Change Draft Corte Madera Adaptation Plan for Mariner Cove and Marina Village

Strategy: Levee/Sheet Pile Wall with Nature-Based Enhancements

Two possible alignments for a flood risk management levee'sheet pile wall and fue gate are shown in the maps to the right. There are a number of tradeoffs to consider between the inner and outer alignment, views and backyard space are impacted by the placement of the structure near more bomes, while the outer alignment preserves the structure near more bomes, while the outer alignment preserves the status quo for more properties. The tide gate location in the inner alignment disconnects less of San Clemente Creek from the Bay, with fower corresponding ecological impacts. The location of the tide gate also determines the stormwater detention capacity of the area behind the gate, with the outer ty because the inner alignment is lossification gate edge of the neighborhood itself, it is less likeoustra (alignment alignment is location at the march edge likely means more impacts.





Marta and Roger Sullivan started this petition to Town of Corte Madera

Did you know that in January 2020 the Town of Corte Madera will approve a plan which includes provisions to **build a 15 ft levee in the backyard of all bayfront properties? It also includes blocking all water flow to the marsh, and update real estate disclosure requirements to include current and future flood risk**? We have never started a petition but, when we found the link to the Draft Corte Madera Adaptation Plan in a December 20th Marin IJ article and read it, we decided to write this. The section of the plan dedicated specifically to the issue of flooding and sea level rise in Mariner Cove and Marina Village is available here.

On the levee and the marsh, the document states:

"the Town is considering a levee that would extend to 15ft NAVD88 (about 9 ft above current MHHW) that could be built in multiple phases to allow for settlement. Site constraints such as proximity to marsh and houses, lack of space, and poor ground conditions may limit the range of potential options. If a levee is constructed, a tide gate across San Clemente Creek would be required to complete the line of protection. It should be noted that as sea levels rise, **this tide gate will need to be closed more** often, resulting in loss of tidal marsh, reduced stormwater outflow, and potential water quality issues in the creek. Eventually this gate will need to be closed all the time. Tide gates and levees have finite life spans as they provide protection for a certain amount of sea level rise. However, they can be designed to be modified in the future and can reduce flood risk in the short- and medium-term while longer-term adaptation strategies are developed.

Maps showing the location of the levee, as well as drawings of the levee's structure are included at page 14 of the document linked above. Descriptions of the different levee options read:

Option 1 is a traditional earthern or light weight fill levee **built in or near homeowners' backyards**. While this is the least expensive option, it is likely infeasible due to space limitations, the net weight of the levee, and the associated settlement in areas built over bay mud.

Option 2 is a block wall connected by a geogrid. This option would reduce additional weight on marsh and significantly reduce the width of the levee; however, **this option would reduce visibility of the Bay, as it would extend eight or nine feet above the current ground level** to provide adequate flood protection through the middle of the century. The block walls could be modified on the inside to provide a set-up design (see blue lines in figure 3.13), be hidden by landscaping, or allow homeowners to build steps and decks connected to the wall.

Option 3 is a sheet pile wall. This is by far the narrowest and lightest weight option, reducing impacts to homeowners and reducing settlement. **Potentially the least visually appealing, the inside of the wall could be designed with a step-up to limit visual disruption of the eight- to nine-foot tall wall, or homeowners could incorporate it into their landscaping. A coarse or composite beach (see page 73) could be placed on the bayside of the flood protection levee around Mariner Cove. The coarse beach can dissipate wave energy, help protect the vertical infrastructure, and reduce the design elevation for the wall helping to preserve views.**

In its other provisions it states:

Update real estate disclosure requirements for homes in designated flood-risk zones to include hazards related to climate change including prior flood damage and current and future flood risk. (page 6 of 21)

We appreciate the work of the team that prepared the Draft Corte Madera Adaptation Plan but, given the huge potential negative impact of this project on our properties and the environment in the area, we find that the communication from the Town was insufficient, and we would like to request that the Plan's last phase is not ended on January 8th, 2020, but is delayed to allow time for further meetings and feedback from the community. We would also like the Town of Corte Madera to carry out a study to identify the causes of marsh erosion along the Mariner Cove and Marina Village shorelines and consider implementing the same nature based adaptation that the plan recommends for the tidal marshes of the Corte Madera Ecological Preserve (tidal marsh restoration, ecotone slopes, submerged aquatic vegetation and beaches) as an alternative to building a levee, and blocking water flow to the marsh.

If you agree with our requests, please sign this petition.

Thank you,

Marta and Roger Sullivan