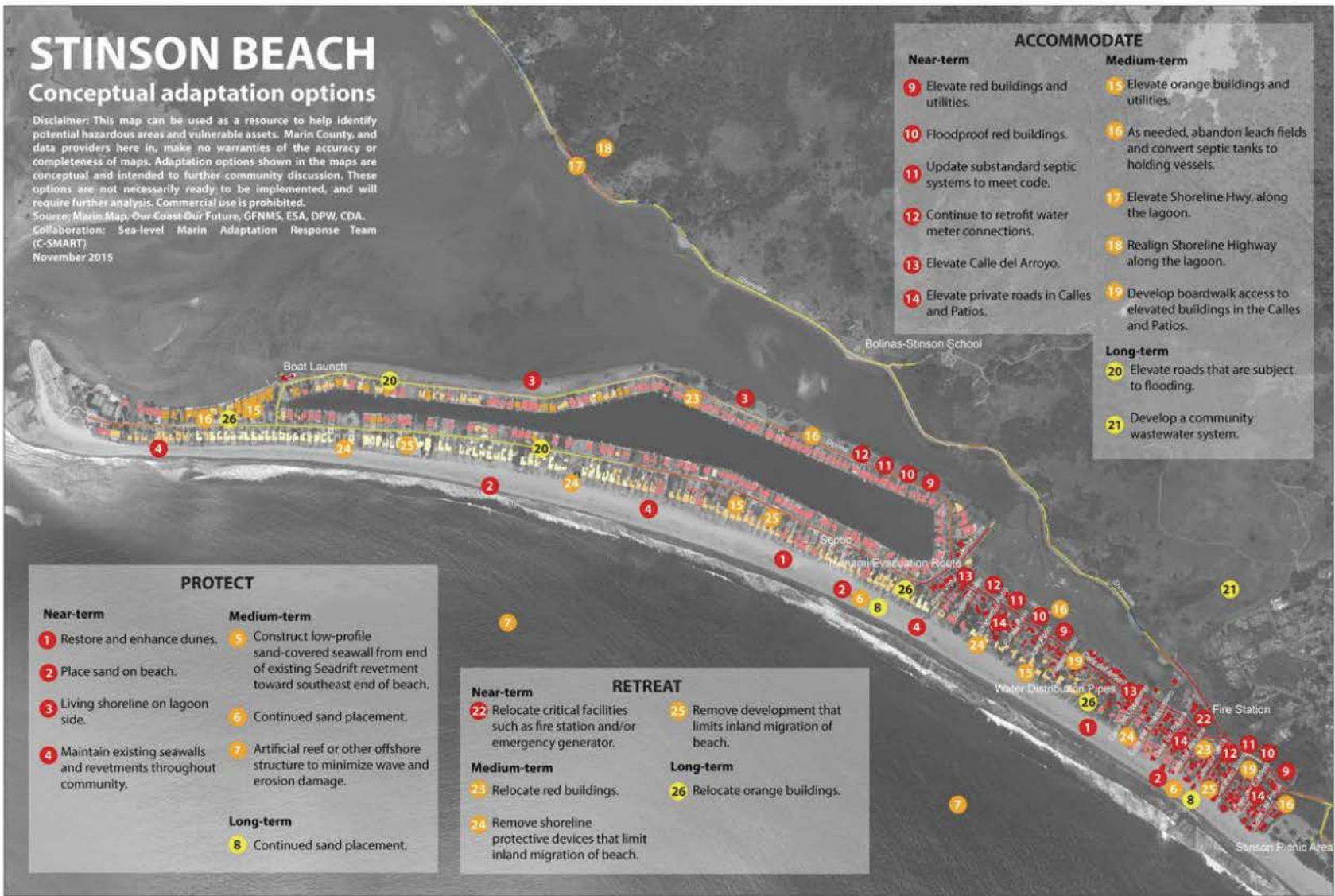


STINSON BEACH

Conceptual adaptation options

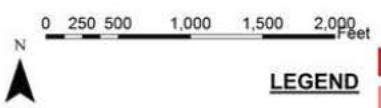
Disclaimer: This map can be used as a resource to help identify potential hazardous areas and vulnerable assets. Marin County, and data providers here in, make no warranties of the accuracy or completeness of maps. Adaptation options shown in the maps are conceptual and intended to further community discussion. These options are not necessarily ready to be implemented, and will require further analysis. Commercial use is prohibited.
 Source: Marin Map, Our Coast Our Future, GENMS, ESA, DPW, CDA.
 Collaboration: Sea-level Marin Adaptation Response Team (C-SMART)
 November 2015



- ### ACCOMMODATE
- | | |
|--|---|
| Near-term | Medium-term |
| 9 Elevate red buildings and utilities. | 15 Elevate orange buildings and utilities. |
| 10 Floodproof red buildings. | 16 As needed, abandon leach fields and convert septic tanks to holding vessels. |
| 11 Update substandard septic systems to meet code. | 17 Elevate Shoreline Hwy. along the lagoon. |
| 12 Continue to retrofit water meter connections. | 18 Realign Shoreline Highway along the lagoon. |
| 13 Elevate Calle del Arroyo. | 19 Develop boardwalk access to elevated buildings in the Calles and Patios. |
| 14 Elevate private roads in Calles and Patios. | Long-term |
| | 20 Elevate roads that are subject to flooding. |
| | 21 Develop a community wastewater system. |

- ### PROTECT
- | | |
|---|---|
| Near-term | Medium-term |
| 1 Restore and enhance dunes. | 5 Construct low-profile sand-covered seawall from end of existing Seadrift revetment toward southeast end of beach. |
| 2 Place sand on beach. | 6 Continued sand placement. |
| 3 Living shoreline on lagoon side. | 7 Artificial reef or other offshore structure to minimize wave and erosion damage. |
| 4 Maintain existing seawalls and revetments throughout community. | Long-term |
| | 8 Continued sand placement. |

- ### RETREAT
- | | |
|--|--|
| Near-term | Long-term |
| 22 Relocate critical facilities such as fire station and/or emergency generator. | 25 Remove development that limits inland migration of beach. |
| Medium-term | Long-term |
| 23 Relocate red buildings. | 26 Relocate orange buildings. |
| 24 Remove shoreline protective devices that limit inland migration of beach. | |



LEGEND

Exposed Buildings			Exposed Roads		
Near-term	Medium-term	Long-term	Near-term	Medium-term	Long-term
Red square: @ 10 in. & annual storm	Orange square: @ 20 in. & 20-year storm	Light orange square: @ 40 in. & 100-year storm	Red line: @ 10 in. & annual storm	Orange line: @ 20 in. & 20-year storm	Light orange line: @ 40 in. & 100-year storm
Light red square: @ 10 in. & 20-year storm		Yellow square: @ 80 in. & 100-year storm	Light red line: @ 10 in. & 20-year storm		Yellow line: @ 80 in. & 100-year storm