KAPĀLAMA CANAL CATALYTIC PROJECT

State TOD Council January 12, 2021

Harrison Rue

Where We Left Off

1. PAC Meeting #2: December 2016

2. Public Workshop: January 2017

3. Master Plan: September 2017

4. State of Hawai'i Sea Level Rise Vulnerability and Adaptation Report: December 2017

5. City & County of Honolulu Sea Level Rise Guidance: June 2018

6. Mayor's Climate Change Directive: July 2018

Project Boundaries







Project Goals: Community



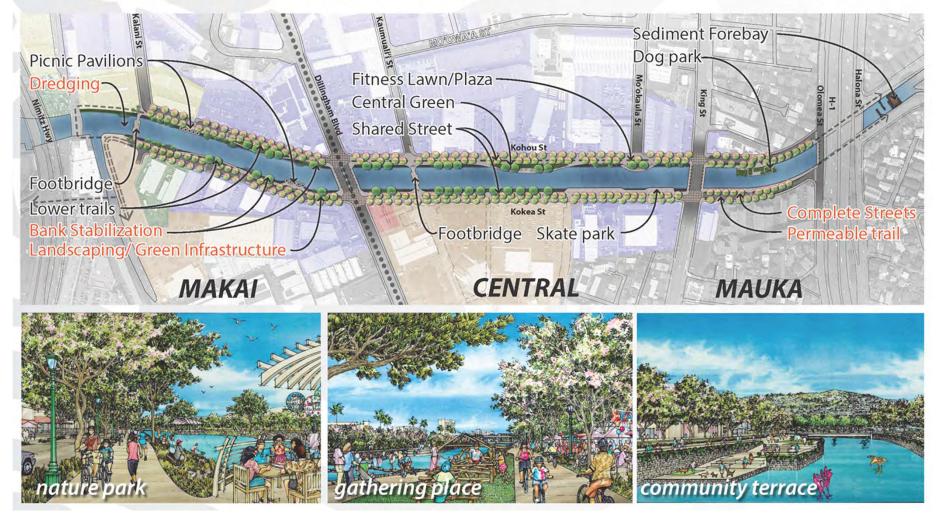
Project Goals: Infrastructure



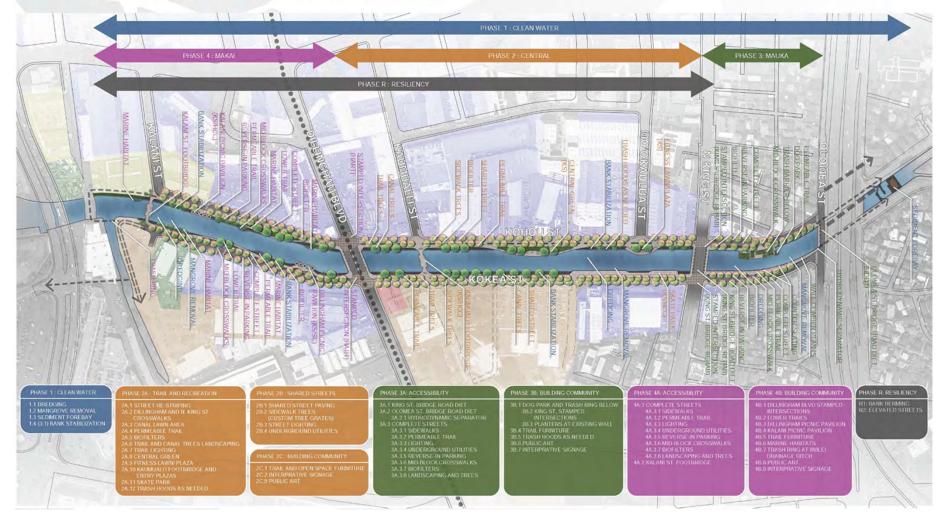
Project Goals: Environment

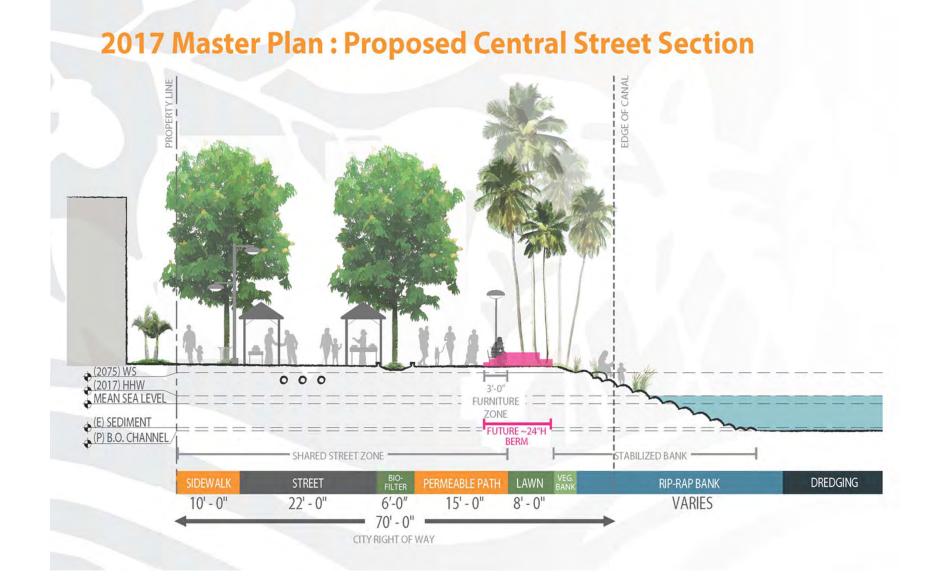


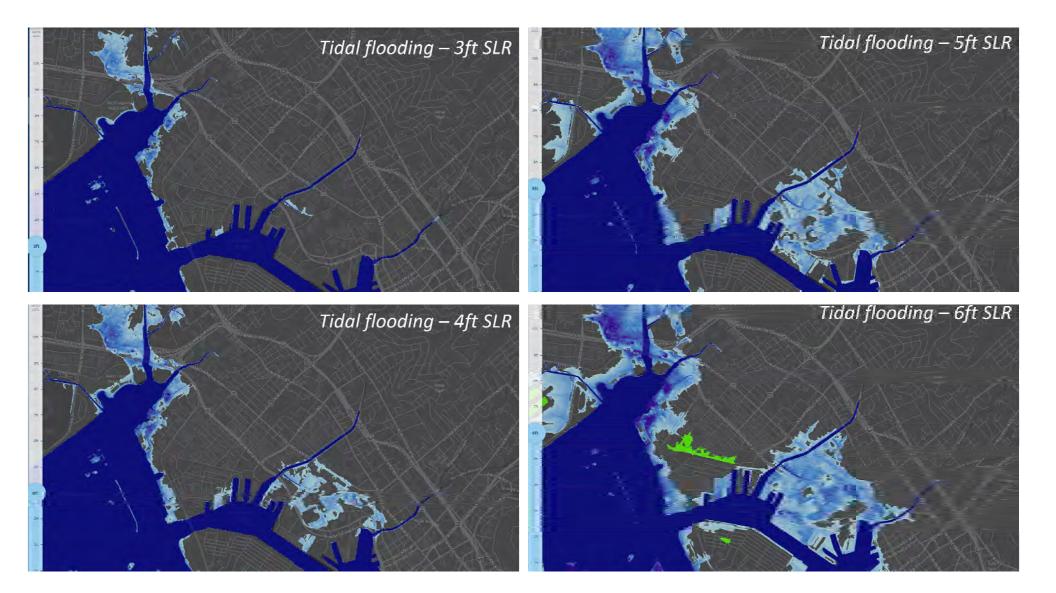
2017 Master Plan : Overall Plan















Enhanced Flood Protection Strategies - Generic



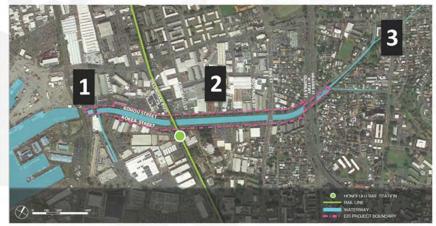
1. Tide gate structure + pumping (tidal + storm)



2. Onstream barriers (tidal + storm)



3. Upstream detention / Offstream diversion (storm)



Enhanced Flood Protection Strategies - Project Focus



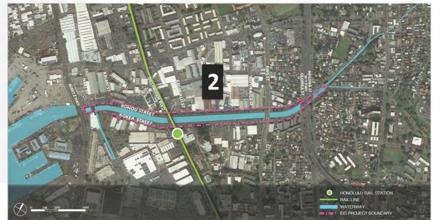
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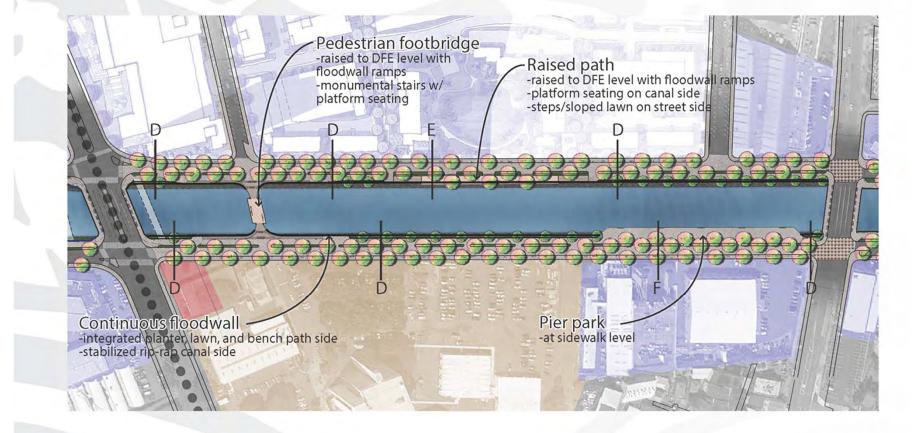


Flood Barrier Strategies - Onstream focus

Permanent Options

- Floodwalls
- Bulkheads
- Levees / Berms
- Raised Roadways / Curbs / Sidewalks





Central Canal: Section D, typ. (SLR +3.2')



SIDEWALK	STREET	Bio Filiter	PERMEABLE PATH	RAISED FLOOD LAWN WALL	STABILIZED RIP-RAP
10'-0"	22'-0"	6'-0"	15'-0"	1'-6"	

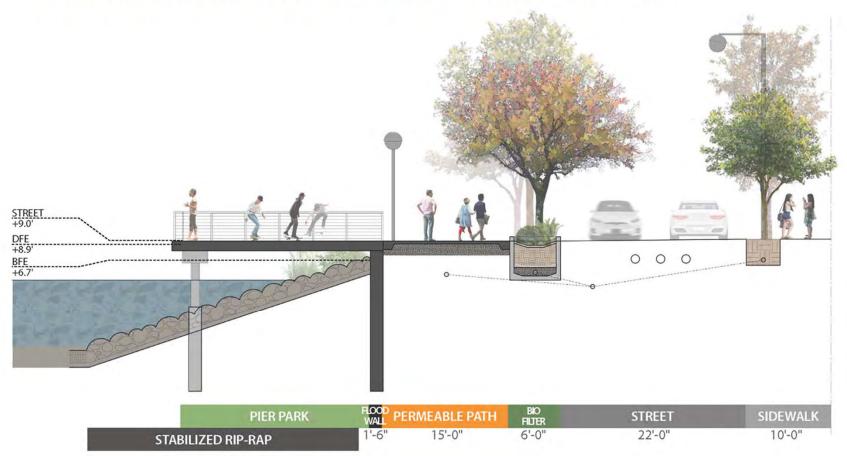
NOTES 1. POSITION, SPECIES, & ROOT CONTAINMENT OF NEW TREES TO BE DETERMINED AS FLOODWALL DESIGN DEVELOPS SUCH THAT TREES DO NOT DIMINISH INTEGRIY & FUNCTIONALITY OF EMBANKMENT SYSTEM 2. GRAVITY RETAINING WALL INDICATIVE ONLY, FLOODWALL TYPE SELECTION TBD.

Central Canal: Section E, typ. (SLR +3.2')

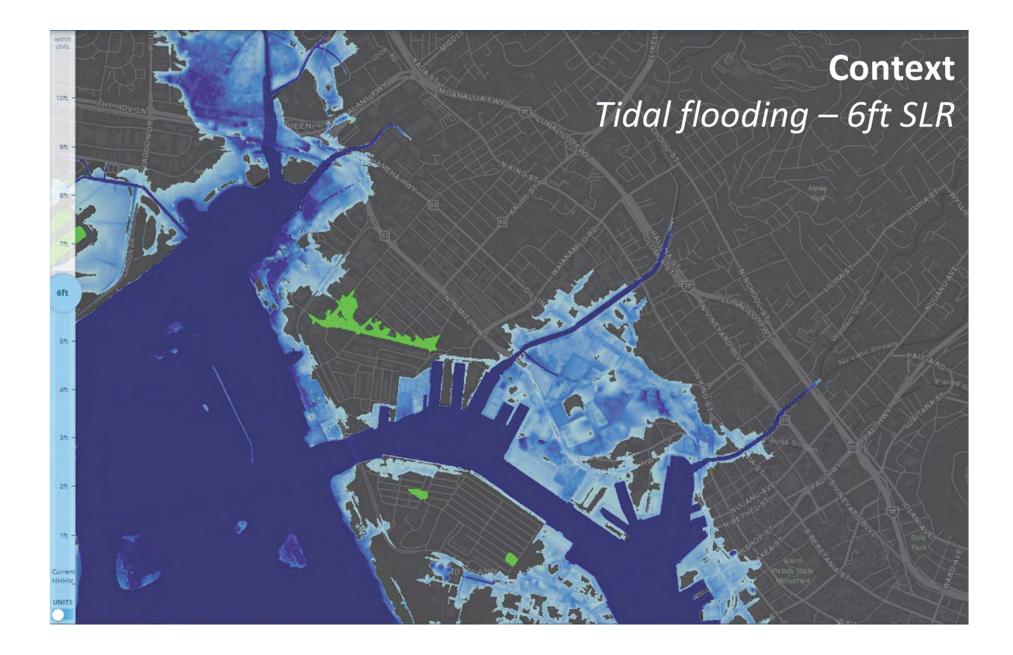


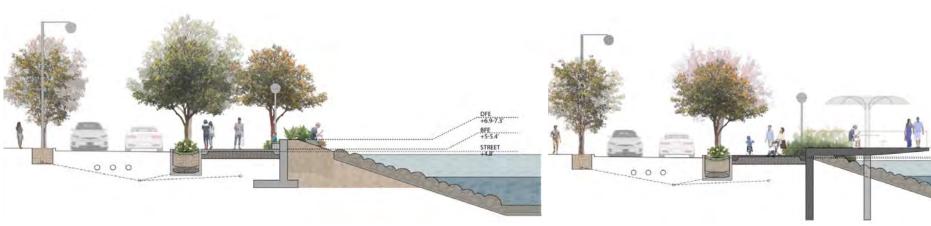
SIDEWALK	STREET	BIO STAIRS FILTER LAW	PERMEABLE PATH	FLOOD WALL	STABILIZED RIP-RAP
10'-0"	22'-0"	6'-0"	15'-0"	1'-6"	

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Central Canal: Section F @ Pier Park (SLR +3.2')

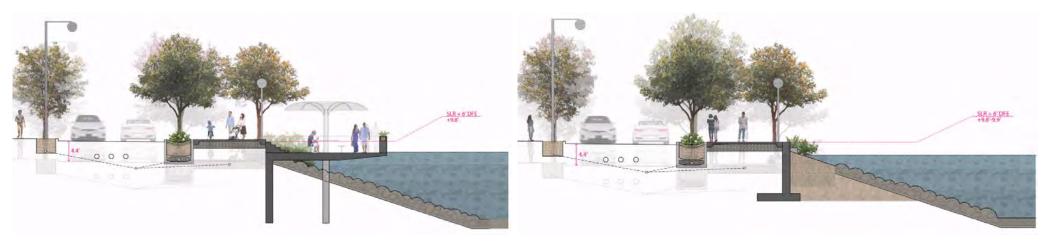


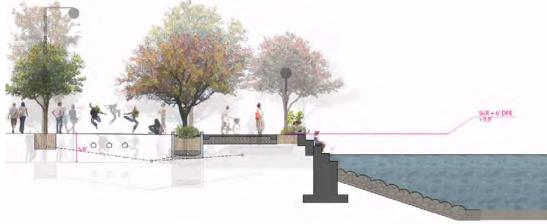




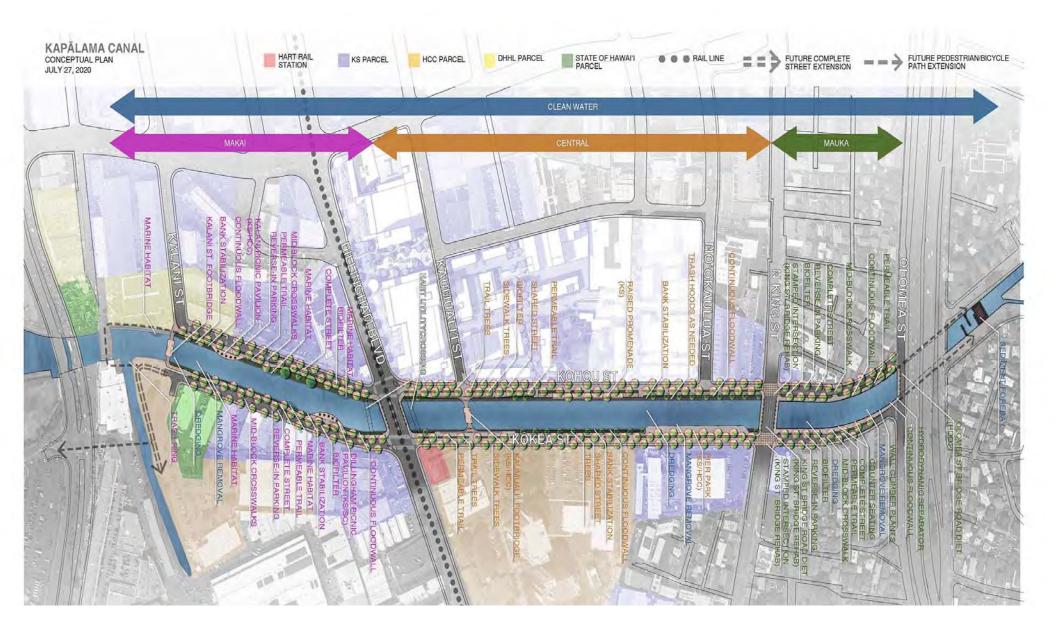


STREET





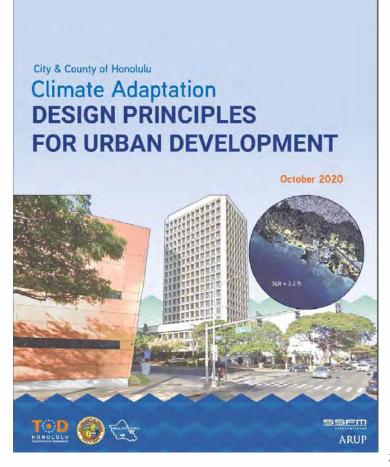




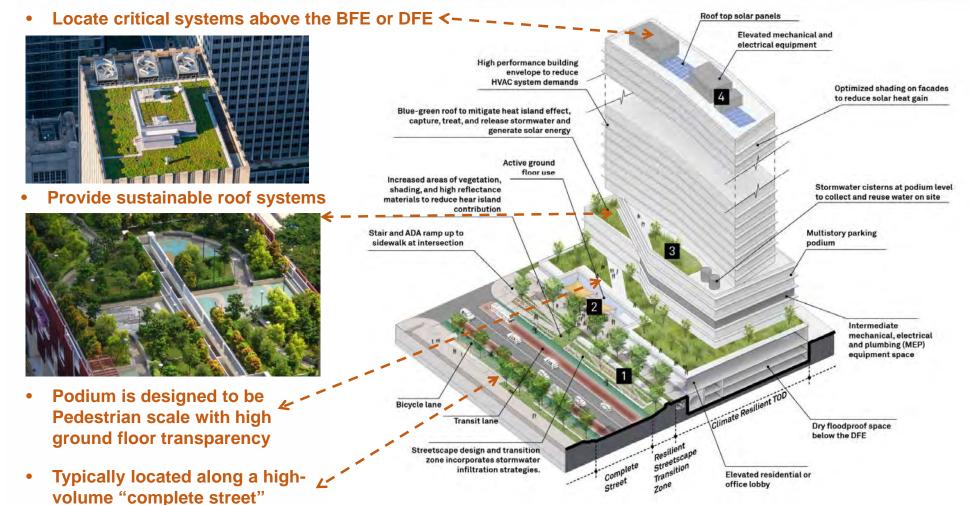
CLIMATE ADAPTATION DESIGN PRINCIPLES

Outlines key design principles:

- For City agencies updating policies and regulations
- Focused on urban areas vulnerable to sea level rise (SLR) and other climate hazards
- Includes approaches to consider in designing building sites and structures
- To increase resilience to SLR, flooding, extreme heat, and groundwater inundation



Tower & Podium



Resilient Streetscape Transition Zone

Resilient Streetscape <- - - > Transition Zone



1,000 VIEWS - JUI 21, 202	96 views + Jul 21,1	202
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The Kapālama Canal Catalytic project is the outcome of various community plans supported by the City & County of Honolulu Department of Planning and Permitting. These community plans include the Kalihi-Palāma Action Plan (2004) and the Kalihi Neighborhood Transit-Oriented Development Plan

(2014), which provide visions for a linear park along Kapālama Canal, a waterfront promenade, and complete street improvements along Kökea and Kohou Streets from Nimitz Highway to the H-1 Freeway. In addition to supporting the community's visions, the Masterplan will address green infrastructure and water quality improvements, erosion control, bank stabilization, resiliency

https://bit.ly/3hg4D5r

YouTube search: "Kapalama Canal TOD DEIS"

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