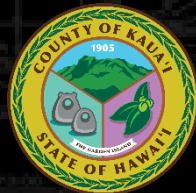


WAIMEA RIVER FLOOD CONTROL MODIFICATION FEASIBILITY STUDY

PUBLIC INFORMATION MEETING
Waimea Neighborhood Center
March 6, 2025
5:30-7:00 p.m.



US Army Corps
of Engineers®



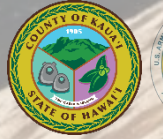


Participants:

1. Refreshments and Restrooms
2. Sign-in/Sign-up Sheet
3. Questions: *Please hold questions for the **OPEN Q&A SESSION** after the presentation*
4. Comments: We will be collecting the **comment survey on your seat** at the end of the meeting. Please provide your thoughts!
5. Meeting transcription



OPENING REMARKS



3

Study Partners:

County of Kaua'i

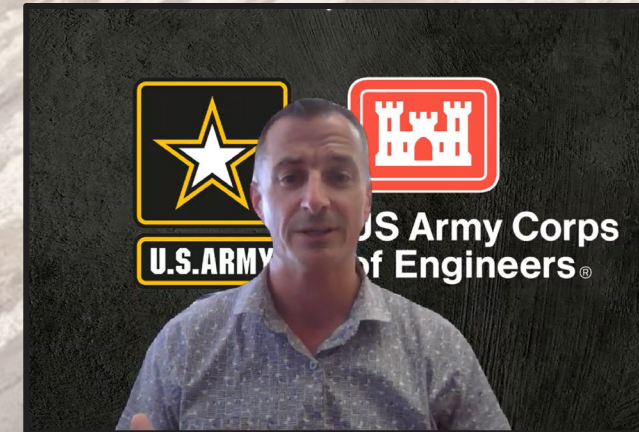
Mayor Derek Kawakami

Troy Tanigawa, P.E., County Engineer, Department of Public Works

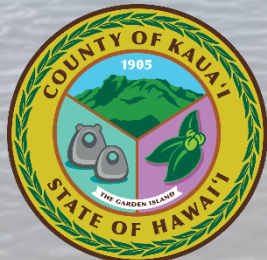
U.S. Army Corps of Engineers, Honolulu District

Jeff Herzog, Chief, Civil and Public Works Branch

Scan the QR code to view video of Mr. Herzog's remarks or go to: <https://www.poh.usace.army.mil/Missions/Civil-Works/Waimea-River/>

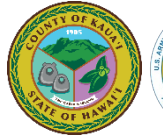


**US Army Corps
of Engineers®**
Honolulu District





MEETING PURPOSE / AGENDA



Meeting Purpose

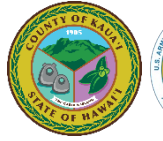
To **introduce the study** and **engage the public** and neighboring communities by **gathering information, concerns and ideas** for the study team to **incorporate and consider**.

Agenda

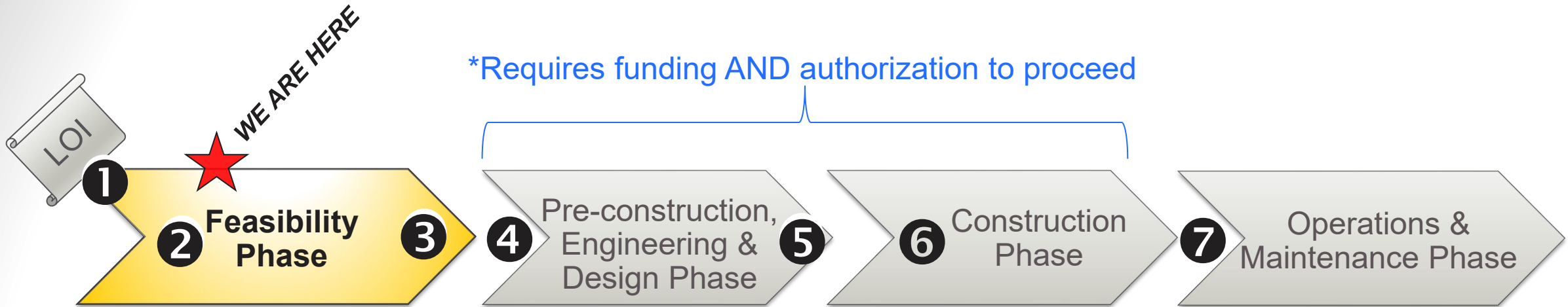
- Study Background and Timeline (15 min)
- Study Framework and Current Status (15 min)
- Q&A Session (45 min – 1 hr)



PROJECT LIFE CYCLE

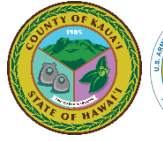


5



- 1 COMPLETED ACTIONS:**
- Letter of Interest (LOI) from non-federal sponsor**
- 3/27/24 County of Kaua'i requests USACE study
- 2 Congressional Authority & Feasibility Cost Share Agreement (FCSA)**
- Authority through Section 216 of FCA of 1972
 - 6/24/24 USACE and County of Kaua'i execute FCSA

- FUTURE ACTIONS:**
- 3** Final Feasibility Report with NEPA document;
- 4** Approval by Chief of Engineers
-
- 5** Design Agreement
- 6** Congressional Authorization & Appropriation
-
- 7** Project Partnership Agreement
- Project handed over to Sponsor



FEASIBILITY PHASE PROCESS & TIMELINE

SMART
Planning Process



Study initiation
(June 24, 2024)

WE ARE HERE

Draft Report
release (TBD)

Final Report
release

30-Day Public
Comment Period

**PUBLIC
INVOLVEMENT**
Opportunities

Public Scoping/Info
Meeting
(3/6/2025)

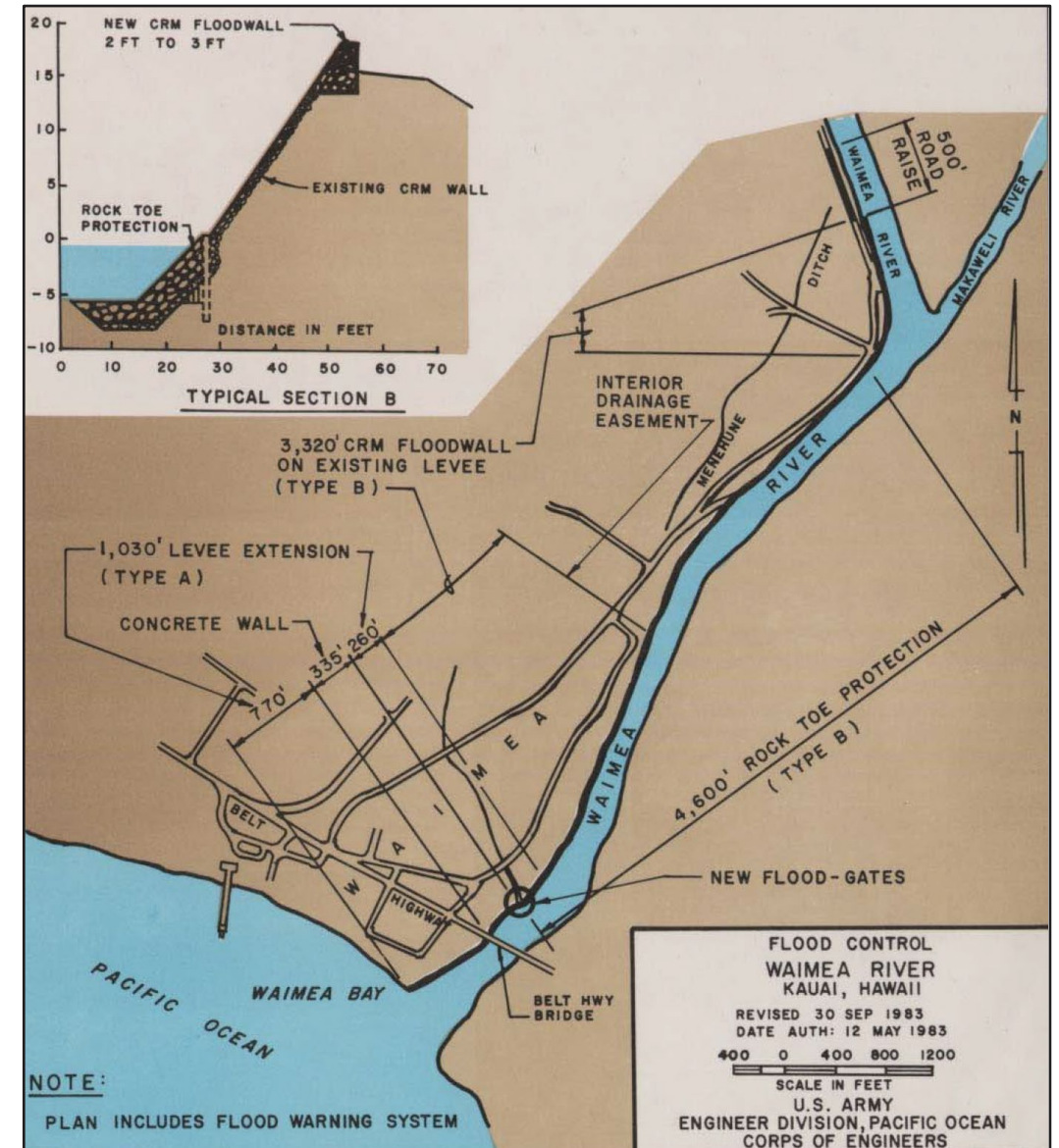
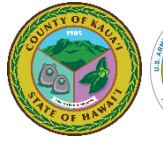
Public Meeting
(Tentative)

Public Meeting
(Tentative)



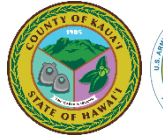
HOW WE GOT HERE

- 1954: Original levee constructed by County of Kaua'i and Territory of Hawai'i
- 1984: Original levee modified by USACE in partnership with County of Kaua'i
- 2024 March: County of Kaua'i submits Letter of Interest requesting USACE assistance for levee modification study.
- 2024 June: County of Kaua'i and USACE execute cost share agreement; study starts.
- 2025 March: Public informational meeting





SECTION 216

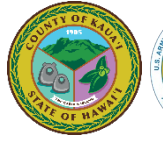


Section 216 of the Rivers and Harbors Flood Control Act of 1970 allows USACE, in partnership with a non-federal sponsor*, to initiate ***review of completed USACE projects, investigate modifications to the structure or its operation,*** and to improve the quality of the environment in the overall public interest.

**This study is cost-shared with the County of Kaua'i*

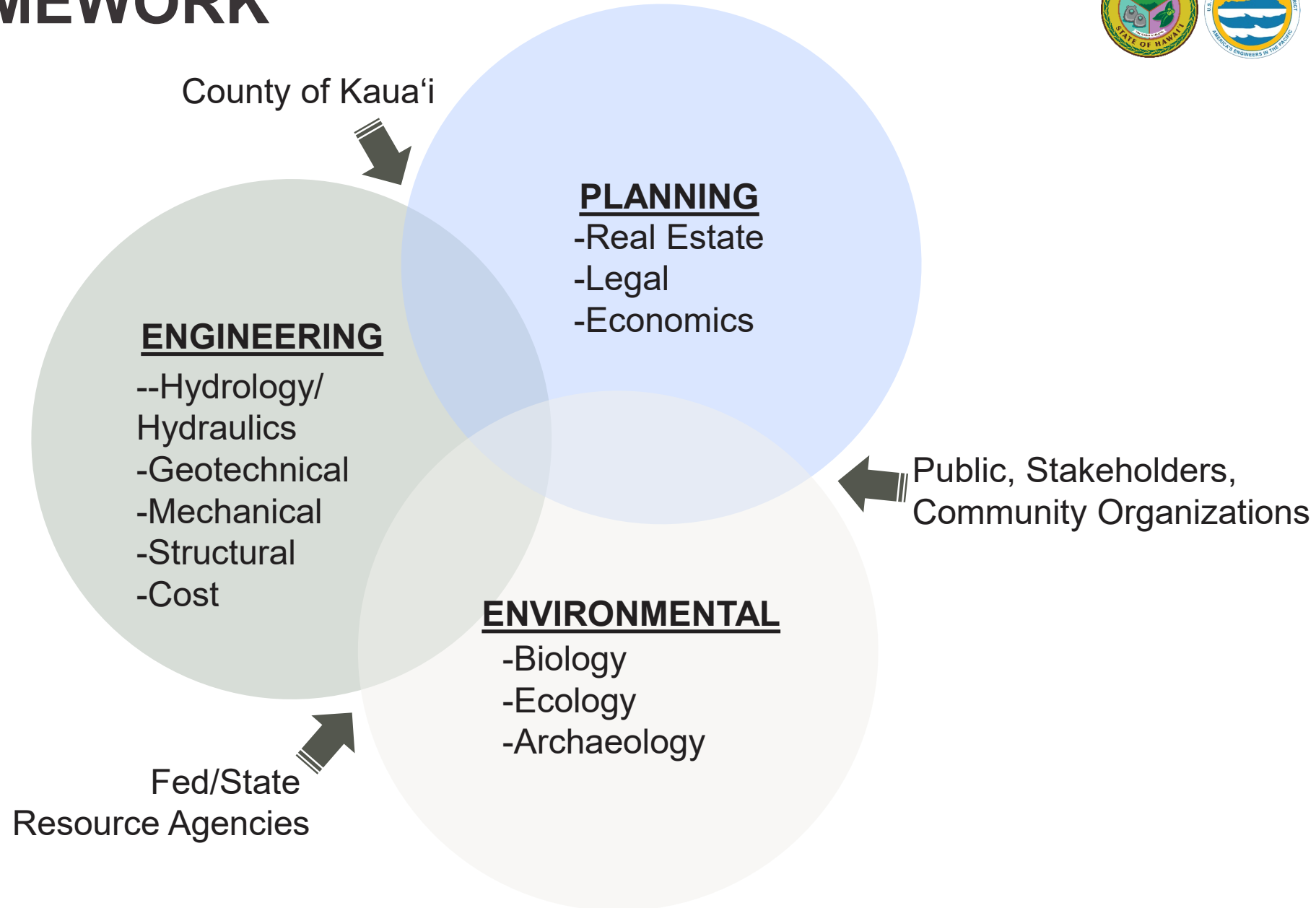


STUDY FRAMEWORK



9

- Multi-disciplinary
- Collaborative
- Iterative





ENVIRONMENTAL

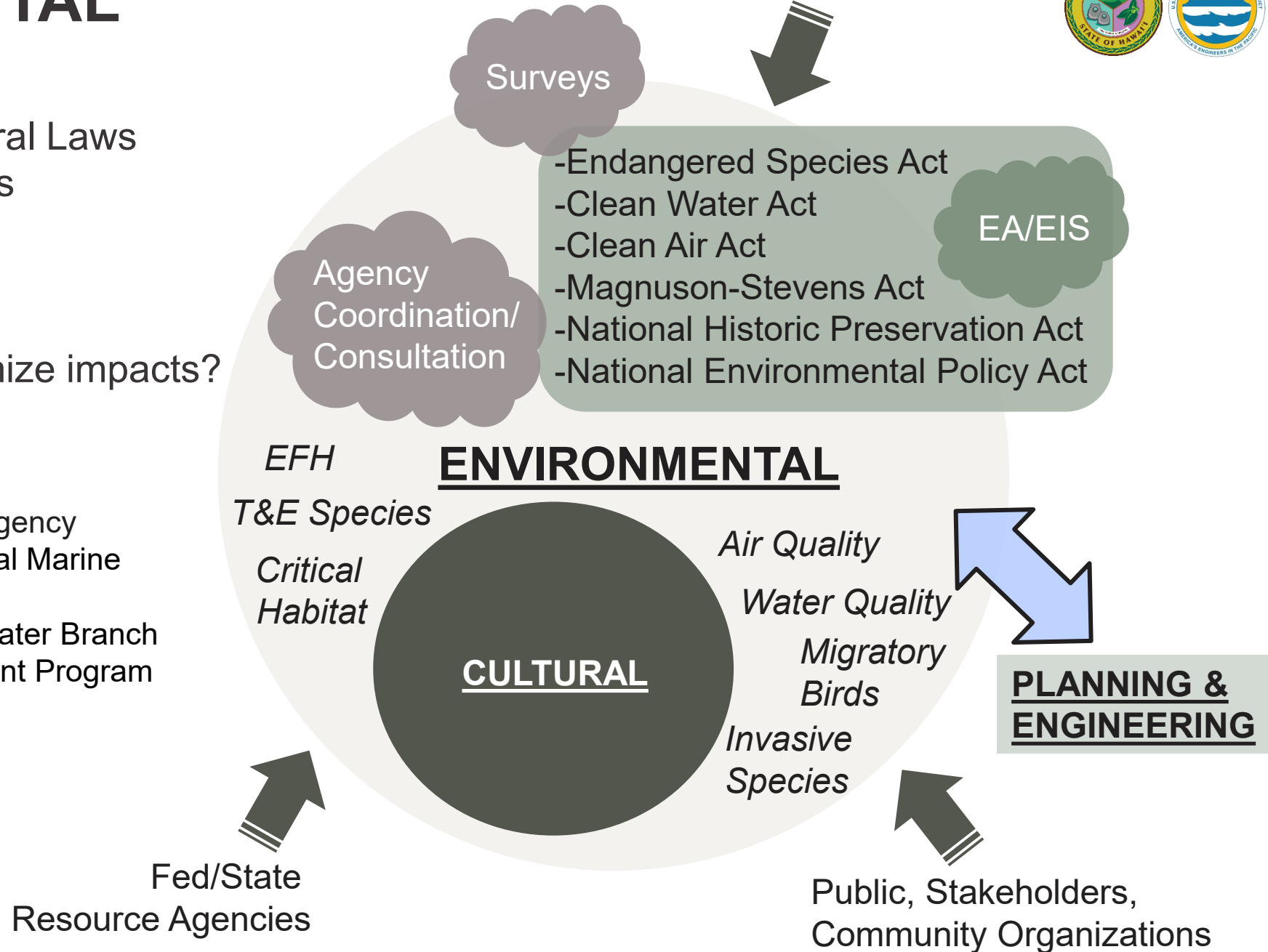


USACE Policy + Federal Laws and Regulations

1. What's there?
2. How will it be impacted?
3. How can we avoid/minimize impacts?

Partner Agency Input

- ✓ U.S. Fish and Wildlife Services
- ✓ U.S. Environmental Protection Agency
- ✓ NOAA Fisheries (NOAA - National Marine Fisheries Service)
- ✓ Department of Health – Clean Water Branch
- ✓ Hawaii Coastal Zone Management Program
- ✓ Public Input!
- ✓ NEPA EA or EIS





CULTURAL

USACE Policy + Federal and State Laws and Regulations

1. What's there?
2. How will it be impacted?
3. How can we avoid/minimize impacts?

Historic Properties, Cultural Resources,
Access/Practices, Viewscape, Subsistence Activities

Stakeholders:

- ✓ State Historic Preservation Division
- ✓ Native Hawaiian Organizations
- ✓ Public

Archaeology Lead

Tyler Teese

tyler.j.teese@usace.army.mil (907) 753-2640

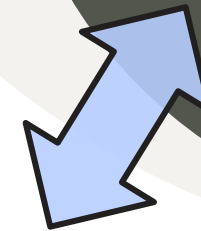
ENVIRONMENTAL

-Section 106, NHPA
-HRS Chapter 6E

Consultation
-SHPD,
NHOs, Public

Surveys
Assessment
Monitoring

CULTURAL



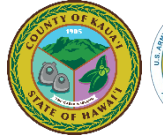
PLANNING & ENGINEERING



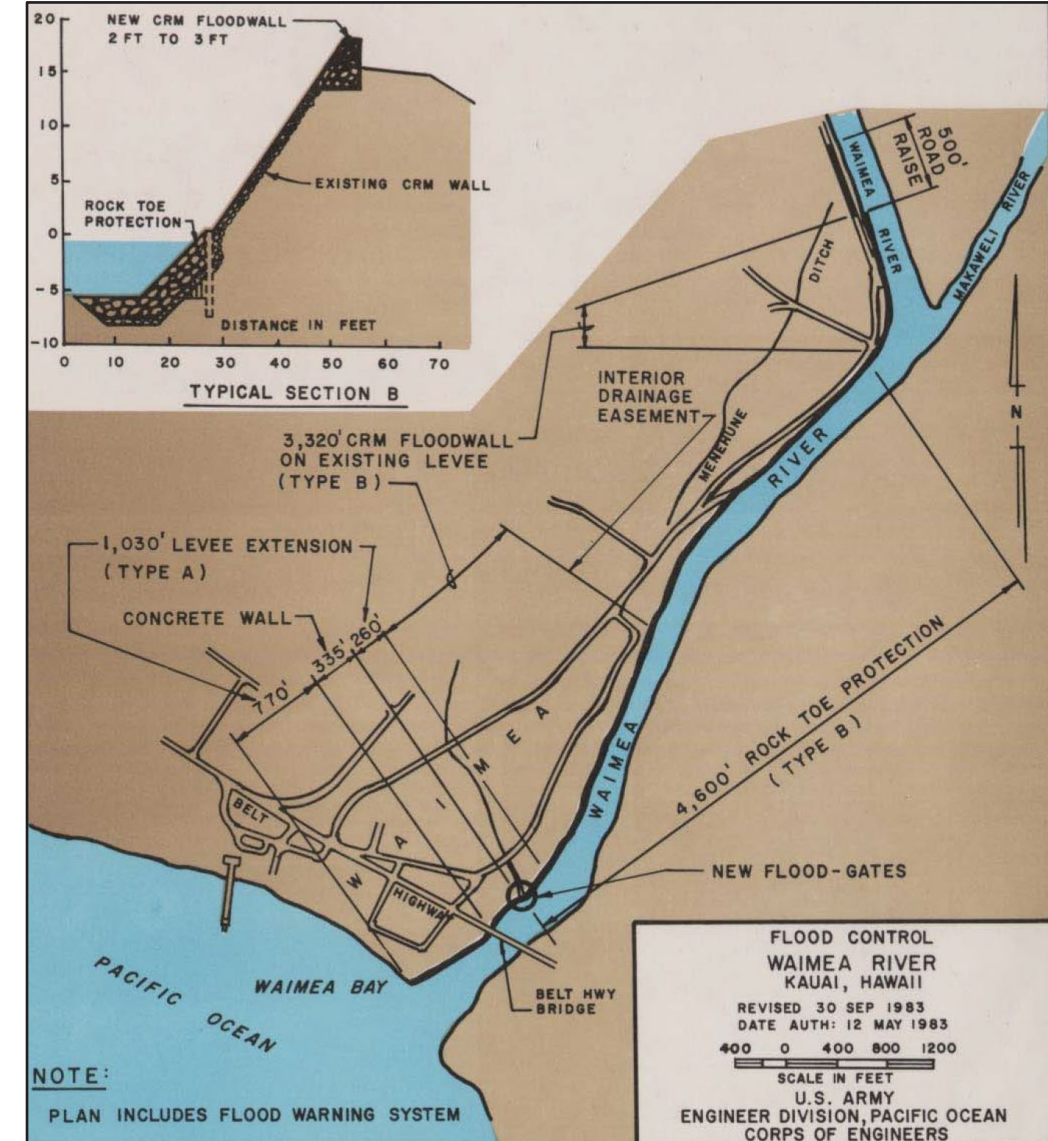


ENGINEERING

- **Original 1954 levee project:**
 - Earthen levee upstream Kaumuali'i Hwy bridge
 - Grouted rip-rap lining
 - Improvements aiding drainage of levee interior
- **Existing levee project + 1984 County of Kaua'i and USACE modifications:**
 - Levee from the Kaumuali'i Hwy Bridge to coastline
 - Floodwalls along portions of the earthen levee, starting upstream from Hwy bridge.
 - Rock protection along levee's riverside toe
 - Additional improvements to aid interior drainage, including culverts, system of concrete pipes and flap gates, pump station



Existing Flood Control Project



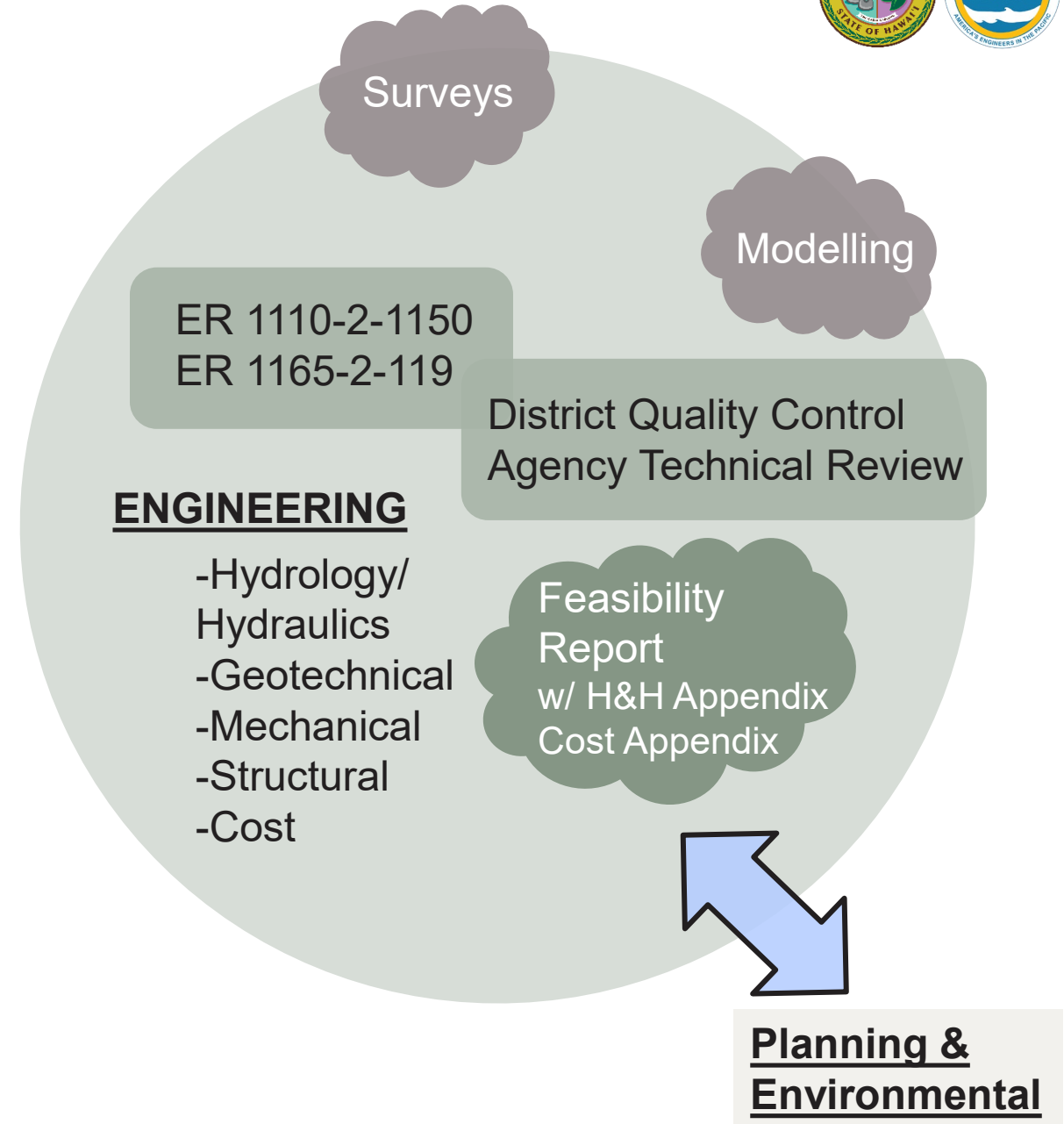


Variety of Engineers

USACE Policy, Regulation and
Federal/State/County Design Standards

Hydrology and Hydraulics modelling of
flooding

Technological and software advances =
Increased accuracy of modelling





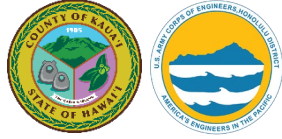
PROBLEMS

- **Levee overtopping anticipated at the 100-year flood event**, posing flood risk to homes, structures, infrastructure, and transportation corridors
- **Life safety risks** for residents of nearby neighborhood during overtopping events
- **Interior flooding** reported during normal rainy-day conditions



March 2020

OPPORTUNITIES

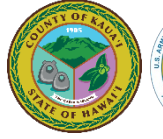


- **Modify levee** project to alleviate potential flooding of neighborhood
- **Reduce life safety risk** for residents
- **Reduce sedimentation and increase conveyance**
- **Improve environment**, e.g., water quality
- **Reduce inundation** of critical infrastructure
- Improvement of **community flood resilience and awareness**

...anything we missed?



GENERAL MEASURES



15

Structural and Non-Structural Measures

Natural & Nature-Based Solutions

Options for addressing the flood damage and for minimizing life safety risk from flooding

- Raise the levee/floodwall
- Dredge sediment and sand buildup
- Minimize sediment by using natural and nature-based features
- Elevate the homes in the floodplain

→ Measures are combined into alternative plans





STUDY END

Deliverable:

-Final Integrated Feasibility Report and NEPA
EA or EIS

➤ Recommended Plan

Study Outcomes:

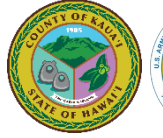
TERMINATE

✗ Federal Interest
✗ Disagreement
w/Recommended
Plan

PROCEED

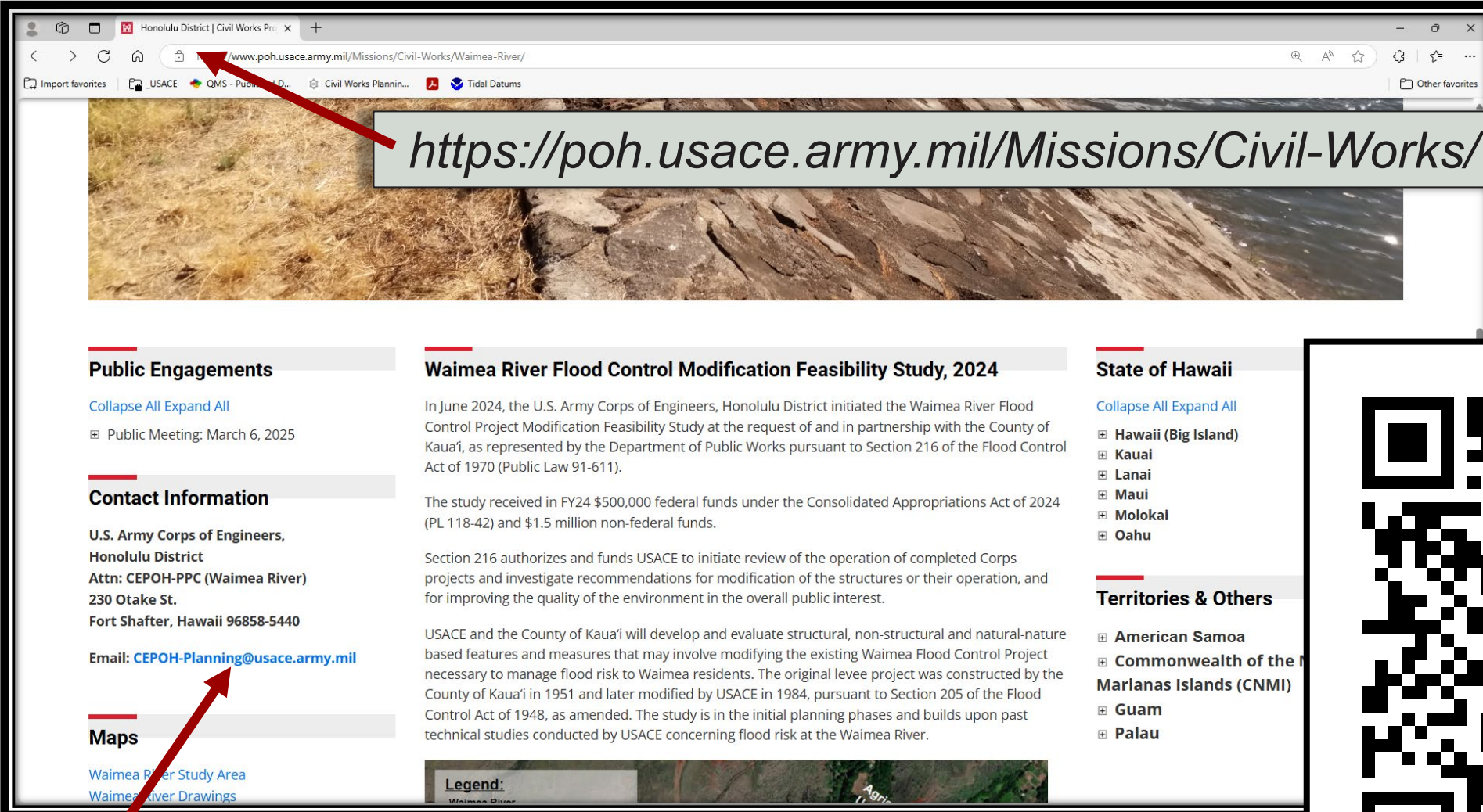
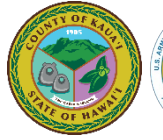
✓ Federal Interest
✓ Agree on
Recommended Plan

U.S. Congress
**Funds &
Authorizes**
Design Phase





GET INVOLVED!



<https://poh.usace.army.mil/Missions/Civil-Works/Waimea-River/>

Public Engagements

[Collapse All](#) [Expand All](#)

- Public Meeting: March 6, 2025

Contact Information

U.S. Army Corps of Engineers,
Honolulu District
Attn: CEPOH-PPC (Waimea River)
230 Otake St.
Fort Shafter, Hawaii 96858-5440

Email: CEPOH-Planning@usace.army.mil

Maps

[Waimea River Study Area](#)
[Waimea River Drawings](#)

Waimea River Flood Control Modification Feasibility Study, 2024

In June 2024, the U.S. Army Corps of Engineers, Honolulu District initiated the Waimea River Flood Control Project Modification Feasibility Study at the request of and in partnership with the County of Kaua'i, as represented by the Department of Public Works pursuant to Section 216 of the Flood Control Act of 1970 (Public Law 91-611).

The study received in FY24 \$500,000 federal funds under the Consolidated Appropriations Act of 2024 (PL 118-42) and \$1.5 million non-federal funds.

Section 216 authorizes and funds USACE to initiate review of the operation of completed Corps projects and investigate recommendations for modification of the structures or their operation, and for improving the quality of the environment in the overall public interest.

USACE and the County of Kaua'i will develop and evaluate structural, non-structural and natural-nature based features and measures that may involve modifying the existing Waimea Flood Control Project necessary to manage flood risk to Waimea residents. The original levee project was constructed by the County of Kaua'i in 1951 and later modified by USACE in 1984, pursuant to Section 205 of the Flood Control Act of 1948, as amended. The study is in the initial planning phases and builds upon past technical studies conducted by USACE concerning flood risk at the Waimea River.

Legend:
Waimea River

State of Hawaii

[Collapse All](#) [Expand All](#)

- Hawaii (Big Island)
- Kauai
- Lanai
- Maui
- Molokai
- Oahu

Territories & Others

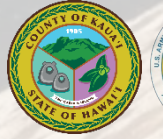
- American Samoa
- Commonwealth of the Mariana Islands (CNMI)
- Guam
- Palau



Email CEPOH-Planning@usace.army.mil
to **sign up** for our email notification list!



STUDY CONTACT INFO



USACE Honolulu District:

Ms. Cindy Acpal, *Project Manager*

Mr. Jeff Herzog, *Chief, Civil and Public Works Branch (PPC)*

Phone (PPC Main): (808) 835-4175

E-mail: CEPOH-Planning@usace.army.mil (subject: Waimea River Study)

Website: <https://www.poh.usace.army.mil/Missions/Civil-Works/Waimea-River/>

County of Kaua'i, Department of Public Works:

Mr. Troy Tanigawa, P.E., *County Engineer*

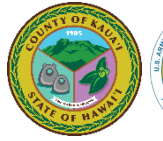
Phone: (808) 241-4993

E-mail: ttanigawa@kauai.gov





Q&A SESSION



Oral: Please raise your hand. Mic available if you need it.
Written: Please write any questions on comment survey provided.

1. What is your relationship (*kuleana* - responsibility, *pilina* - connection) with Waimea and/or the Waimea River?
2. Have you experienced any flooding effects in Waimea? If yes, please share your story.
3. Any thoughts on the source or cause of the flooding? Or potential solutions to reduce the risk of flooding?
4. Do you have any stories about Waimea River you want the study team to know?
5. Do you have any concerns you want addressed or questions you want answered by USACE or County of Kaua'i through this study?



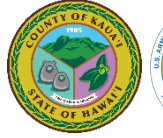
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March 2020

OPPORTUNITIES



20

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- Improvement of **community flood resilience and awareness**

...anything we missed?