



WAIKĪKĪ BEACH COMMUNITY ADVISORY COMMITTEE

HO'OMAU 'O WAIKĪKĪ KAHAKAI

"WAIKĪKĪ BEACH RENEWS ITSELF"

MEETING AGENDA

Date: **September 27, 2018* 1:30pm to 4:00pm**

**Rescheduled August 23, 2018 meeting due to Hurricane Lane*

Location: Royal Hawaiian Hotel
Regency I Room
2559 Kalakaua Ave, Honolulu, HI 96815

Host: Waikīkī Beach Special Improvement District Association (WBSIDA)

Contact: Dolan Eversole, University of Hawai'i Sea Grant/WBSIDA
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MEETING AGENDA

- 1. Waikīkī Beach Community Advisory Committee Updates (15 mins)**
 - a. Advisory Committee composition. (New members)
 - b. March meeting issue mapping summary. (Handout)
- 2. Royal Hawaiian Groin Design Update (15 mins) (Handout)**
 - a) sea-level rise (SLR) consideration and new "L-spur" design.
 - b) Timing and application status.
- 3. Kuhio Beach Sandbag Groin Project (30 mins) (Handout)**
 - Final sandbag groin design update.
 - Design rationale and construction plan.
 - Access plan, timing and application status.
 - Group discussion, questions and comments.
- 4. Waikīkī Conceptual Designs - Halekulani, Royal and Kuhio (90 mins) (Handout)**
 - a) DLNR Waikīkī EIS project background, goals and scope.
 - b) Review conceptual designs for Kuhio, Royal and Halekulani cells.
 - c) Pedestrian access, SLR, public safety and aesthetic considerations for designs.
 - d) Timing and application status.
 - e) Group discussion, questions and comments.

4pm Pau



9-27-2018 Meeting Summary

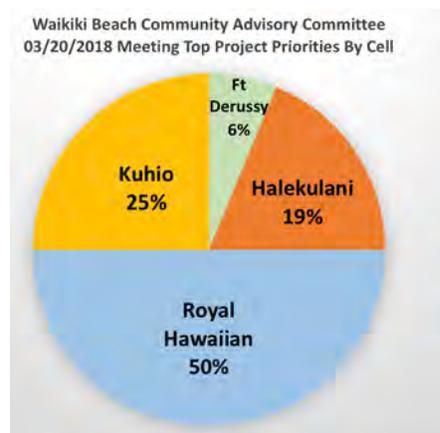
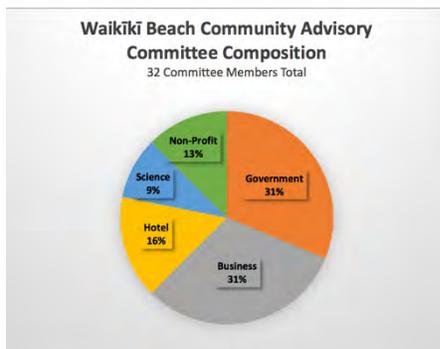
Committee composition, past meeting summaries and information can be accessed online at: <https://www.wbsida.org/waikiki-beach-community-advisory-committee/>

Background Information

The 32-member Waikīkī Beach Community Advisory Committee (WBCAC) is intended to help to identify and address Waikīkī Beach management issues. The committee provides important guidance for planning and prioritizing future beach management projects in Waikīkī.

Waikīkī Beach Advisory Committee Goals

1. Advise the WBSIDA, the DLNR, the City and County of Honolulu and UH Sea Grant on the development and implementation of a Waikīkī Beach Management Plan.
2. Ensure that future beach management projects address the issues and concerns of the Waikīkī community and local stakeholders.
3. Advise/recommend on specific beach management projects in Waikīkī.
4. Provide community coordination, education, and outreach efforts about beach management issues and projects in Waikīkī.
5. Identify and evaluate alternatives for beach management and maintenance in Waikīkī.





General Meeting Summary:

- 21 of the 32-member committee (66%) were present for the 9-27-18 meeting.
- The meeting consisted of several project updates and a ranking sheet exercise for six different conceptual engineering designs for the three priority beach cells (Royal, Kuhio and Halekulani).
- Follow up discussion with several committee members and stakeholders on the overall outreach and communication strategy for the conceptual designs has resulted in the development of an overall project goals, objectives and strategies.
- Based on the above input, the WBSIDA is in the process of developing specific criteria for the identification of the desired recreational use, design rationale and outcome objectives for each design cell. This is thought to assist in the committee assessment and ranking of various conceptual designs.

Project Updates

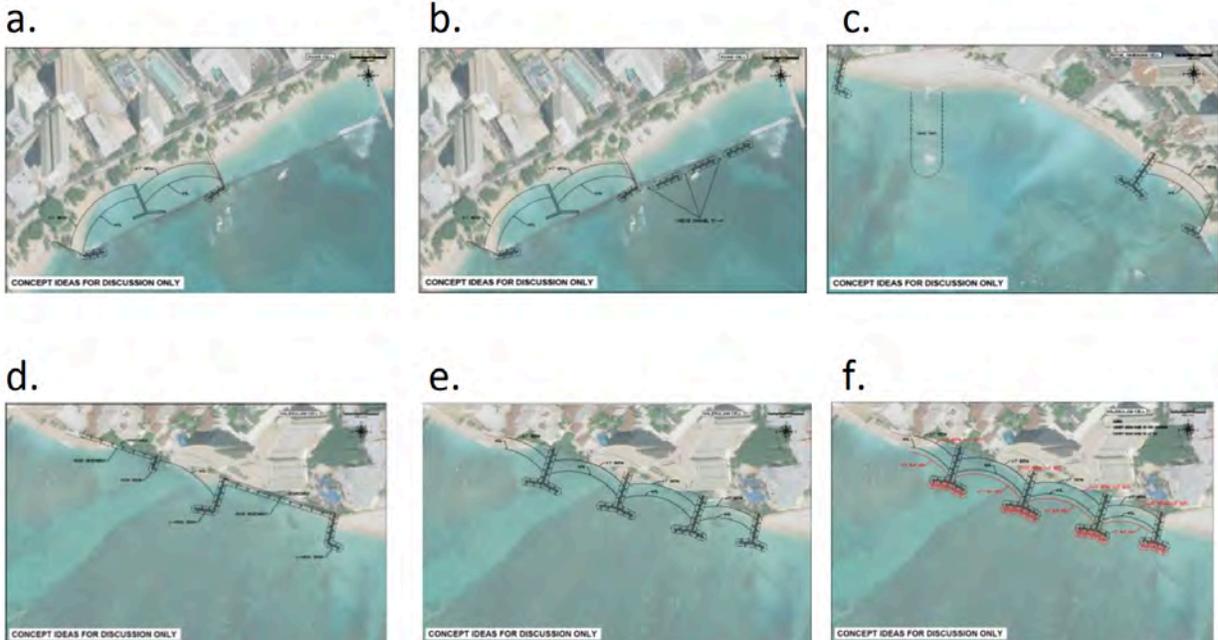
- Royal Hawaiian Groin (RHG)- A project update was provided to the committee on the various design changes planned for the RHG including the change in the shoreward portion to “L-head” and an overall increase in the overall crest elevation by 1.5ft to account for future projections of sea-level rise.
- Discussion of the RHG centered on public safety measures that can be built into the design to prevent and/or mitigate public access along the top of the groin.
- A suggestion of possibly adding a lifeguard station to the base of the RHG was brought up. There was acknowledgement this may serve to improve observational coverage and emergency response time from the RHG to the Ft. DeRussy groin which is currently unguarded.
- Kuhio Beach Groin (KBG)- A project update was provided to the committee on the various design changes planned for the KBG.
- Discussion included the KBG function, dimensions, orientation, sand source and installation methodology.
- Concern raised by several committee members about the use of the proposed sand barrow area in the Diamond head basin for the beach fill next to the KBG as it may increase the slope of the beach and cause a deepening of the shallow wading area leading to a safety concern. Other safety concerns were raised regarding slip/fall hazards on the groin as well as novice surfers hitting the groin.
- A suggestion was made for the planned KBG be oriented similar to the pre-existing groin in order to orient the groin into the prevailing waves, as opposed to shore-perpendicular.



Conceptual Design Ranking Exercise (60 mins)

Goal: Evaluate and rank potential conceptual designs.

This exercise started with a presentation and discussion on six different conceptual designs for the three priority beach cells. Committee members were asked to rank the various designs on a 1-5 scale (1= no support, 5 = full support) (Appendix A). The ranking sheet was also emailed out to all committee members as part of a briefing packet before the meeting and a form-fillable version was sent after the meeting. The results for this exercise are summarized below.



General Summary: Considering the limited sample size¹, the overall the results suggest:

1. Preferred designs vary by each beach cell but tend to favor Options E and F (Halekulani T-heads and T-heads + SLR) as the top ranking for the first choice (Figure 1).
2. Similar ranking is observed if we look at the 1st choice PLUS the 2nd choice with Option F Halekulani T-heads + SLR as the overall preferred design (Figure 2).
3. Option C (Royal Hawaiian Beach) was an equal 2nd to Option E when considering the 1st choice PLUS the 2nd choice (Figure 2).
4. While there are exceptions in some beach cells, the *least favored* designs include Option B (Kuhio w/ breakwaters and C Royal Hawaiian).
5. Note Option C ranked an equal 3rd with 3 other designs when looking at 1st choices only an equal 2nd when looking at 1st Plus 2nd choices and an equal least preferred for the 5th choice. This seems to indicate a bi-modal distribution of ranking results or in other words the committee is largely split on this option with the same number of results as the 5th choice as there are for 1st plus 2nd (Figure 3). This might indicate more information and discussion is needed in order resolve this difference of opinion with this option if there is an interest in pursuing this option.

¹ A larger sample size will result in more statistically relevant and representative results. This could be done as an online survey to a wider stakeholder group and/or as public survey. Ideally future surveys will evaluate and rank various options for each cell rather than rank overall for all cells.



Conceptual Design Ranking Exercise – Results

Figure 1.

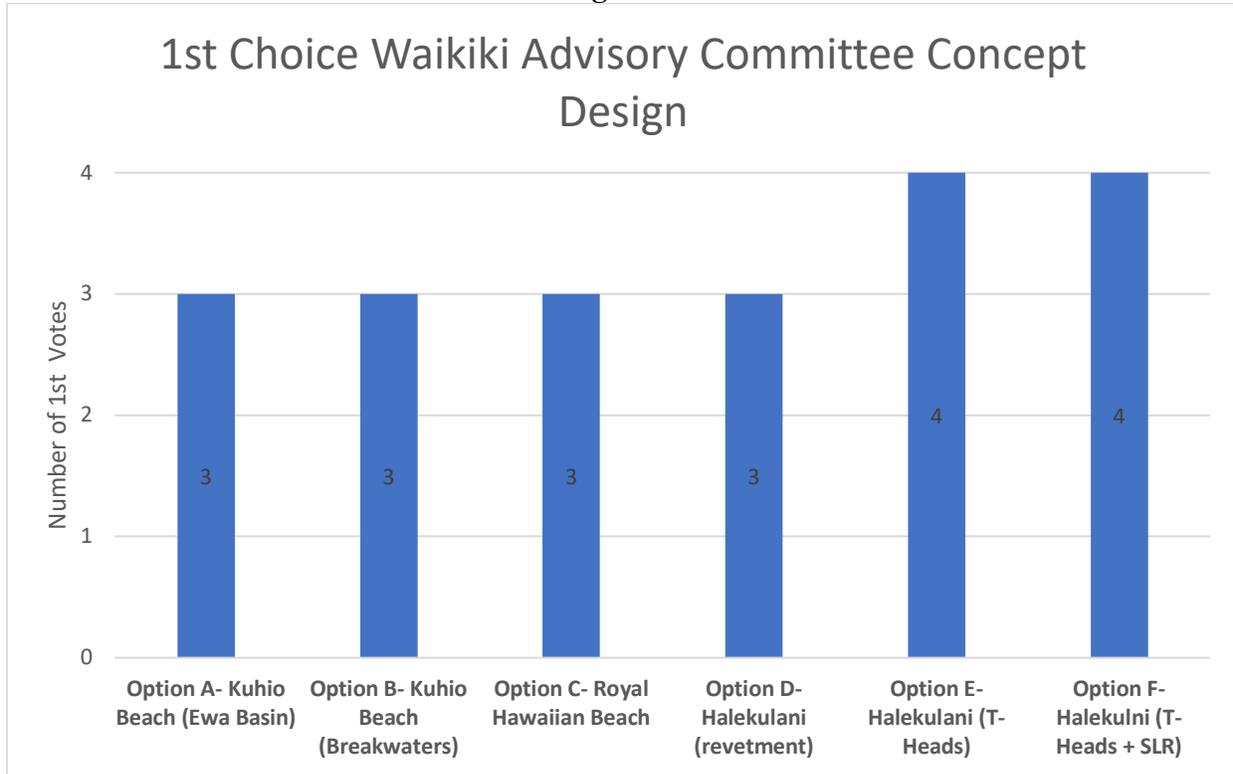


Figure 2.

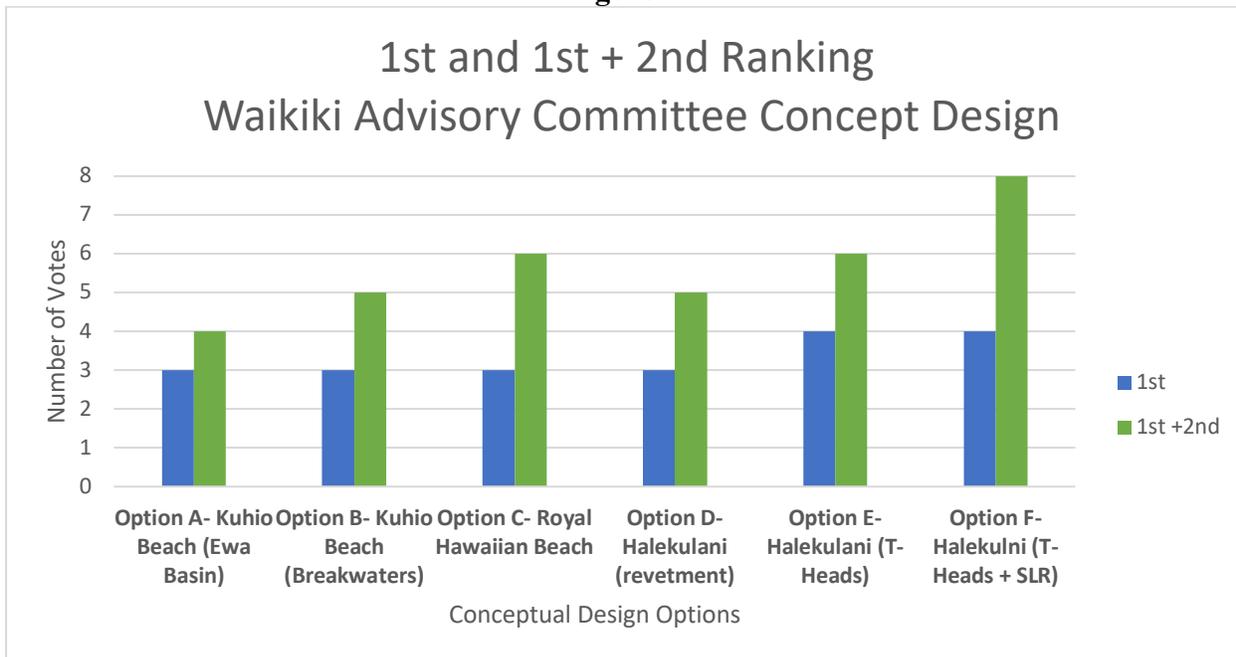
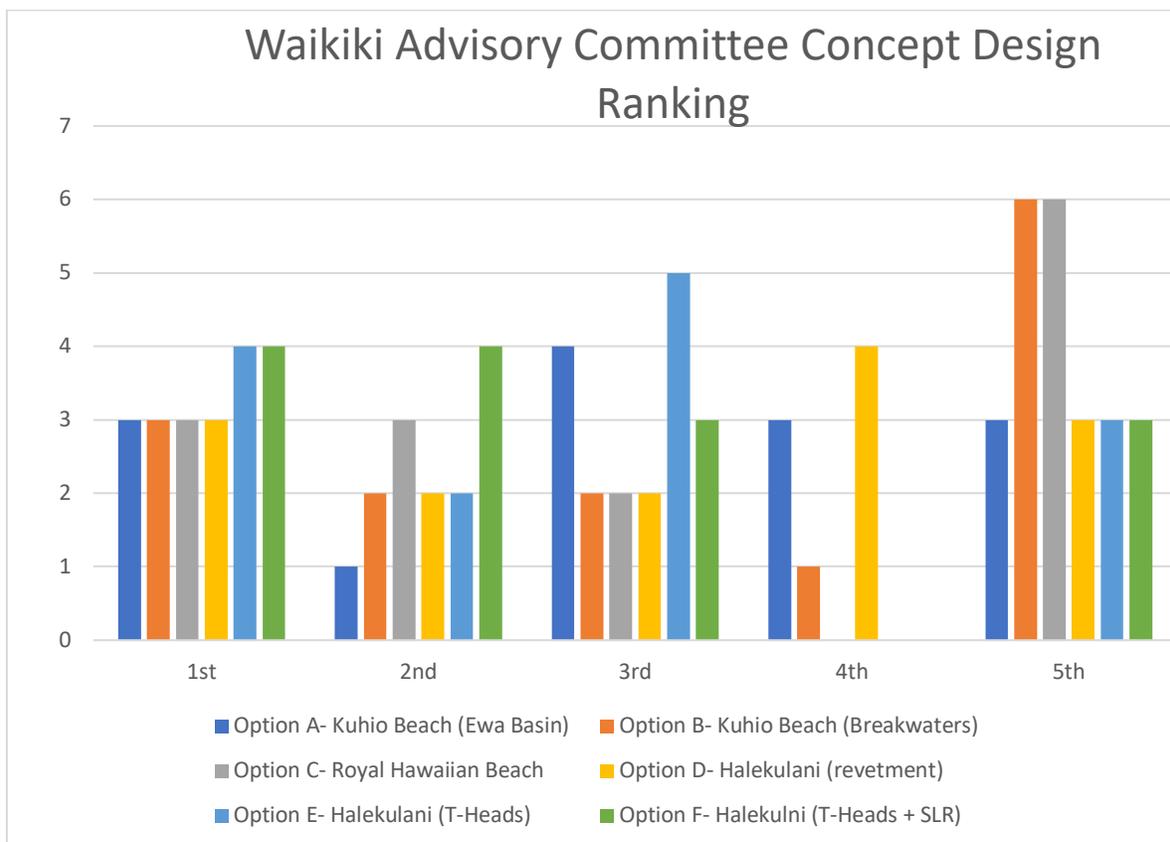
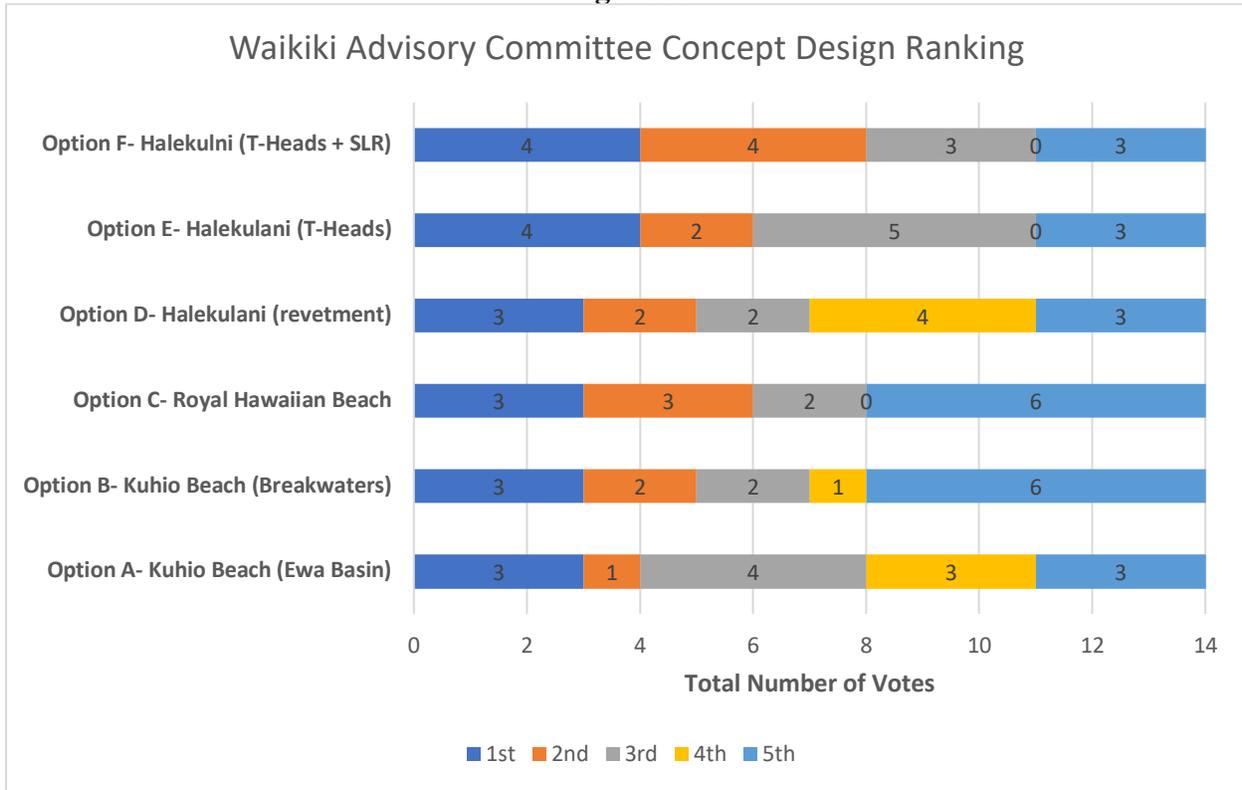




Figure 3.





**Conceptual Design Ranking Exercise –
Additional Committee Written Comments Received
(In no particular order)**

1. No T-Heads
2. Safety critical for locals and visitors
3. Surf and recreation important
4. In favor of T-Heads but not the groins leading from shore to the heads.
5. Favor Breakwaters over groins
6. All structures are temporary, plan accordingly
7. Fully support T-Groins just need more details
8. Option A is good but B is better but need 3 more groins towards Kapahulu groin
9. Option C is good but need to take out T-Groin inshore of Canoes
10. Option E is good but need to move western most groin out of Halekulani channel
11. Option B- need to add replacement for Slippery Wall (Kuhio Breakwall)
12. Consider Multi-modal groins for safety, designed for safe access.
13. Design safe water entry areas and signage
14. Allow more mauka room for a beach to form and elevate beach
15. Design multi-use recreational access (stairs) rather than restrict access.
16. Safety concern for eddie formation and current flows (Koolina lagoon example)
17. Possible impacts of sand movement Ewa side of T-head



Appendix A: Sample of Conceptual Design Ranking Sheet

NAME: _____



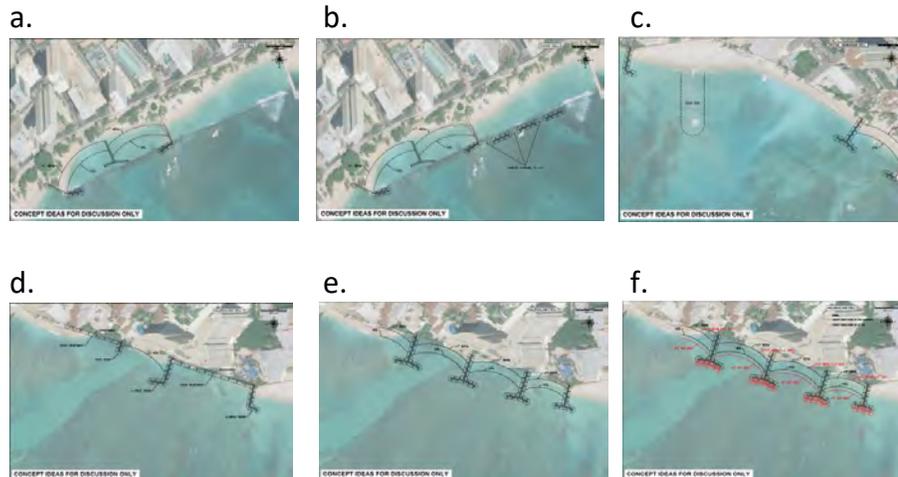
Waikiki Beach Conceptual Designs- Comment Sheet

1= no support, 5 = fully support

What is your level of your support for the following conceptual designs?

1-5 Scale

- a) Kuhio Beach Option A (Ewa Basin only) _____
- b) Kuhio Beach Option B (A +Breakwaters) _____
- c) Royal Hawaiian Beach (L-spur and T-head) _____
- d) Halekulani Option A (Revetments) _____
- e) Halekulani Option B (T-Heads) _____
- f) Halekulani Option A (T-Heads + SLR) _____



Other comments you want to add?
