



# KĀ'ANAPALI BEACH REPLENISHMENT PROJECT

## EVOLUTION IN RESPONSE TO COMMUNITY CONSULTATION

The proposed plan for Kā'anapali Beach has been shaped by — and is better today because of — the community's feedback we have incorporated since 2023. Improvements include:



Enhanced protections for cultural resources and the environment.



Expanded and guaranteed access for canoe clubs, fishing, and cultural practices throughout the project.



A commitment to join the conversation about how Kā'anapali will adapt to man-made sea-level rise.

## ENHANCEMENTS SINCE 2023

### MAINTAINING ACCESS FOR CANOE CLUBS

#### CONCERN

We heard concerns about how construction might impact canoe clubs and activities at Hanaka'ō'ō Beach Park.

#### 2023

The original plan included some staging and construction activities at Hanaka'ō'ō Beach Park at certain times.

#### TODAY

To minimize disruption, the new plan eliminates staging and construction at Hanaka'ō'ō Beach Park and expedites sand placement there. Construction will be scheduled outside canoe paddling season to ensure uninterrupted access to the shoreline and safety in the water. New safeguards for off-season access during construction have been added.

### PLANNING FOR FUTURE IMPACTS OF SEA-LEVEL RISE

#### CONCERN

We heard the community's call for Kā'anapali to participate in the discussion about long-term planning to adapt to the impacts of man-made sea-level rise and shoreline erosion.

#### 2023

The project's proposed beach replenishment offered a medium-term solution to shoreline erosion, but no long-term planning was included.

#### TODAY

Kā'anapali will develop an Adaptation Pathway Plan with near- to mid-term actions implemented over decades to centuries, guided by observation, analysis, review, and decision-making in response to evolving environmental conditions. Beach restoration through sand nourishment will be a synergistic mid-term step, while longer-term adaptation options are evaluated.

#### CONCERN

We heard the community's feedback about developing long-term plans for the Kā'anapali Beachwalk, which has been damaged by erosion.

#### 2023

No long-term planning was included for the Kā'anapali Beachwalk.

#### TODAY

Kā'anapali will develop a new, long-term management plan for the Beachwalk as part of developing the larger Adaptation Pathway Plan. This will include planning for erosion impacts and how damaged sections can be replaced with more resilient and less impactful options.

## PROTECTING PU'U KEKA'A & CULTURAL RESOURCES

### CONCERN

We repeatedly heard that Pu'u Keka'a is a sacred place with deep cultural history and significance, and it must be protected.

### 2023

While the original plans included safeguards for Pu'u Keka'a and cultural resources, the original sand collection area was approximately 20% larger.

### TODAY

In response, we significantly reduced the area where sand will be sourced and expanded the protective buffer area from 150 feet to 280 feet from the shoreline and Pu'u Keka'a. We will also adopt the community's recommendation to supplement archaeological monitoring during construction with cultural monitors empowered to observe work and conditions on the beach and in the water.

## CULTURAL MONITORING

### CONCERN

We repeatedly heard that culturally sensitive areas must be protected with appropriate oversight during construction.

### 2023

A cultural monitor was not part of the project team.

### TODAY

A cultural monitor with local experience and understanding of the Kā'anapali environment will be an active member of the team throughout the project. The monitor will have access to the full project area and will be responsible for raising any concerns for future investigation.

## COMMUNICATIONS DURING CONSTRUCTION

### CONCERN

We appreciate the community's feedback about the need for a clear communications plan during construction.

### 2023

Measures to keep the community informed were included in the original plan, primarily via daily emails and posting updates on the project website.

### TODAY

The new plan includes significantly enhanced efforts to share information about the project with the community and all interested stakeholders, along with proactive communications to key groups, including first responders, canoe clubs, cultural practitioners and community members, as well as new safety messaging for visitors.

## EDUCATING VISITORS

### CONCERN

We understand the need to better inform visitors about the project and how to safely navigate the area during construction.

### 2023

A visitor information video was not included in the original plan.

### TODAY

An informational video will be developed and shared with the resort community for distribution to guests, sharing information about the project and safety guidance to help protect themselves, the environment, and others during construction.

## PROTODUNES

### CONCERN

We heard interest in incorporating dune restoration and native planting to support a more resilient shoreline.

### 2023

Protodunes were not included in the original plan.

### TODAY

Following discussions with the community, the University of Hawai'i, and State and County agencies, protodunes have been incorporated into the beach profile in the Hanaka'ō'ō Littoral Cell. With DLNR's support, these features may be planted with native vegetation, helping establish a more natural and resilient dune environment.

## DUNE PATHS

### CONCERN

We received feedback on how to manage shoreline traffic to protect dunes and native plants.

### 2023

Dune paths were not included in the original plan.

### TODAY

Reflecting the recommendations we received, new dune pathways will direct foot traffic along the shoreline in designated sections, protecting native plants and dunes from impact.

## EXISTING SHORELINE VEGETATION

### CONCERN

We heard the community's comments about the type and location of vegetation along the shoreline.

### 2023

The original plan included cutting back existing vegetation as needed.

### TODAY

We've updated the plan to include clearing all vegetation within the project footprint. Vegetation will be cut to ground level and covered with sand, and in areas with protodunes, replaced with native plants, pending DLNR support.

## PUBLIC PARKING & ACCESS

### CONCERN

We appreciate the importance of ensuring that public parking remains available and that access to the shoreline remains uninterrupted during construction.

### 2023

The original plan prohibited construction vehicles from using public parking and limited construction activities in access pathways.

### TODAY

In response to feedback, efforts are underway to improve signage about available public beach parking in Kā'anapali, paired with monitoring and enforcement to ensure appropriate use. Additionally, we will require contractors to use designated off-site staging and laydown areas to minimize the use of beach access points to the greatest extent possible.

## OCEAN SAFETY

### CONCERN

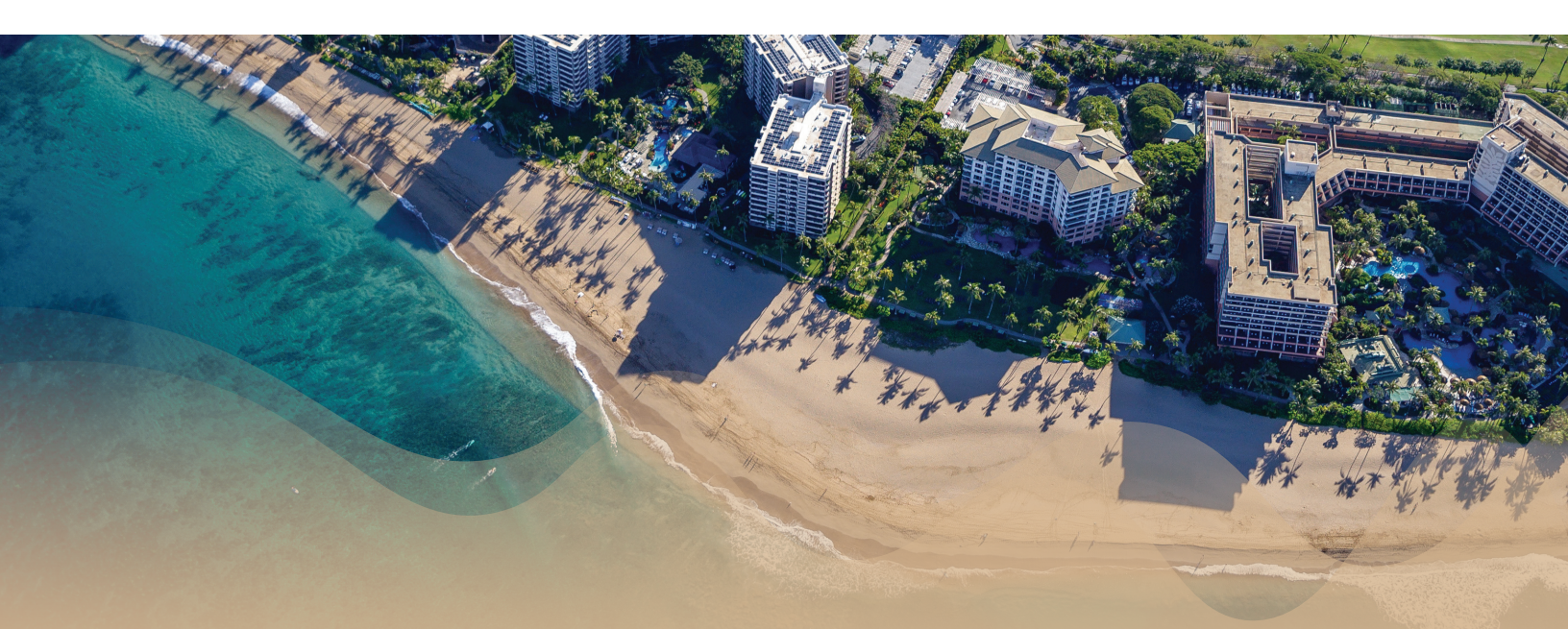
We understand concerns about maintaining safety for ocean users during construction activities.

### 2023

No provisions for ocean safety were included in the original plan.

### TODAY

Following discussions with the community, the plan has been updated to prioritize ocean safety across all project activities, including designated transit lanes for canoe clubs and commercial vessels transiting near the sand collection and sand placement areas.



## PROTECTIONS IN PLACE SINCE 2023

### PROTECTING REEFS & WATER QUALITY

#### CONCERN

Project impacts could impact water quality and coral reefs near the sand collection and placement areas should be protected from damage.

#### PROTECTIVE MEASURE

The project uses multiple best management practices to protect water quality and nearby reefs, including turbidity monitoring, silt curtains to contain suspended sediment, and an environmental clamshell bucket designed to minimize sediment release during sand collection. The sand has been carefully selected to match native beach conditions, which also helps reduce turbidity and maximizes the changes of successful replenishment. Collectively, these measures will ensure that any impacts will be temporary, and will lead to a healthier ecosystem compared to the impacts from continued erosion.

### PROTECTING MARINE SPECIES

#### CONCERN

Kona crab living in or near the sand recovery area could be impacted by the project.

#### PROTECTIVE MEASURE

A pre-recovery dive survey will identify any visible Kona crab habitat or other sensitive conditions in the sand recovery area. Identified areas will be marked using surface GPS coordinates and excluded from recovery. Recovered sand will be visually inspected before transport; any Kona crabs collected inadvertently are returned to the recovery area before the sand moves to shore. Drop camera surveys will also be used.

#### CONCERN

Nabeta living in or near the sand recovery area could be impacted by the project.

#### PROTECTIVE MEASURE

Sand recovery will proceed progressively across the recovery area rather than through dispersed excavation patterns, maintaining adjacent undisturbed habitat as a pathway for these mobile fish to relocate away from active work. Drop camera surveys will also be used.

### TIMING OF CONSTRUCTION

#### CONCERN

Construction timing could conflict with whale season and paddling activities.

#### PROTECTIVE MEASURE

Work is scheduled for fall and early winter to avoid peak whale season and coral spawning periods. Construction will be sequenced to move through key areas, such as at Hanaka'ō'ō Beach Park, as quickly as possible to minimize disruption to paddling practices and regatta.

### SAND COLLECTION

#### CONCERN

Sand collection could impact habitat and water quality.

#### PROTECTIVE MEASURE

Sand will be recovered using an environmental clamshell bucket designed to reduce sediment loss and limit turbidity during collection. The recovery area was carefully selected to avoid coral and sensitive habitat.

#### CONCERN

Diver inspections before anchor and bridge placement.

#### PROTECTIVE MEASURE

Before anchors and the temporary bridge are installed, divers will perform in-water inspections to confirm the exact placement locations and ensure they will be set in sandy areas and avoid coral or other sensitive marine habitat.

### SAND PLACEMENT

#### CONCERN

Improper sand placement could alter the shoreline profile and negatively impact habitat.

#### PROTECTIVE MEASURE

The proposed plan will ensure sand is placed within the 1988 beach footprint, which was considered healthy, between Hanaka'ō'ō Beach Park and Hanaka'ō'ō Point. No sand will be placed where sand did not already occupy space in 1988.