

A ROUNDABOUT SOLUTION TO AGING INFRASTRUCTURE IN HAWAI'I

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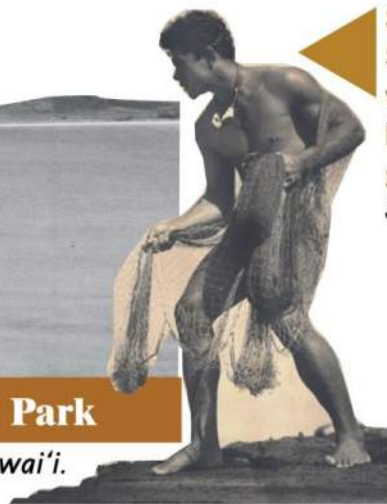
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KAILUA, O'AHU

THE QUIET BEACH TOWN THAT OUTGREW ITS INFRASTRUCTURE



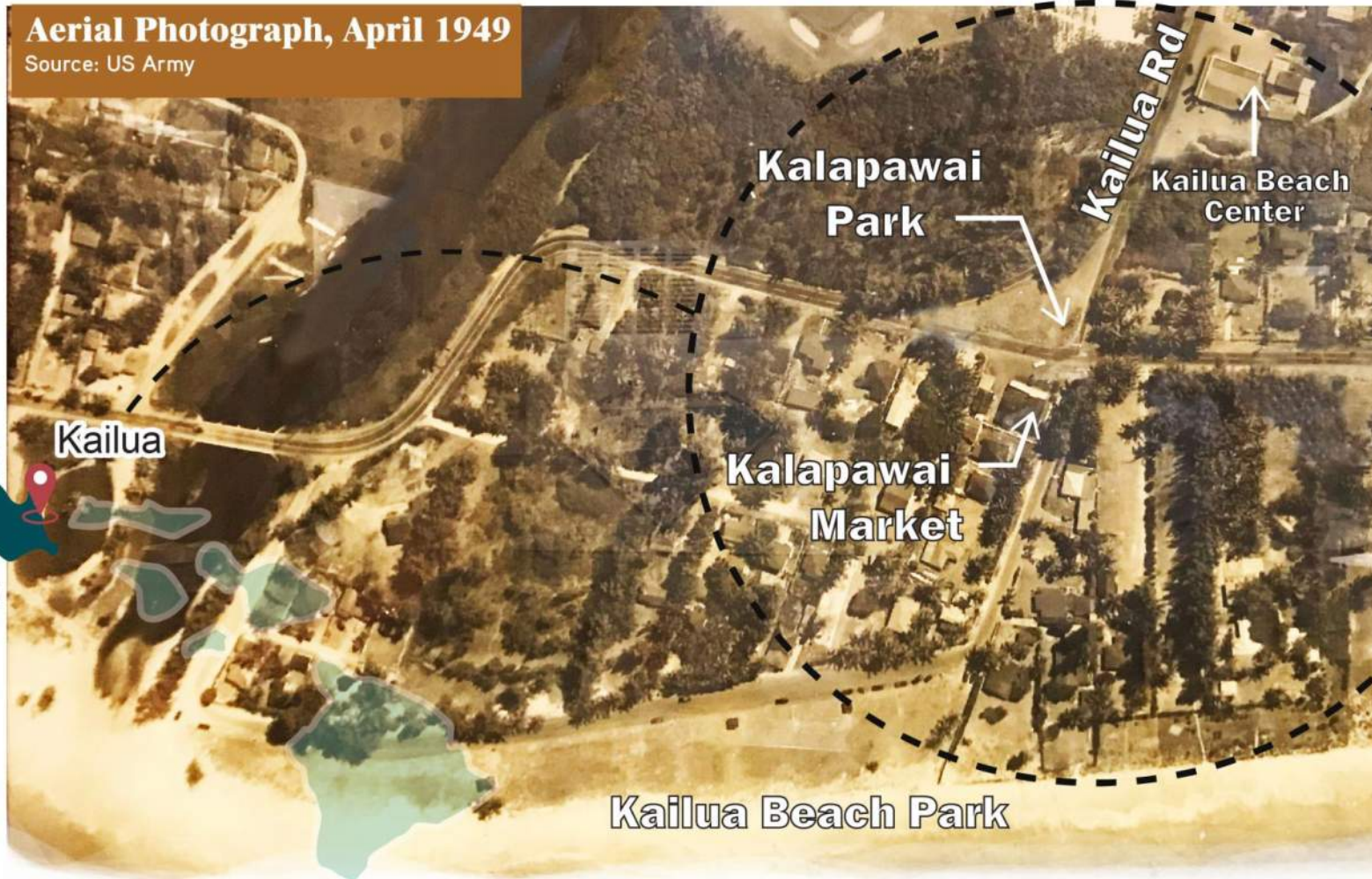


Solomon Mahoe's grandson, Solomon (Solo) Kalapawai Mahoe Jr, with a throw net and handmade bamboo goggles at Ka'ōhao, circa 1945.
Source: Powlison family collection

The Beach and Pier at Kawailoa, Circa 1920, Today's Kailua Beach Park

Source: Kailua Historical Society. (2010). *Kailua: In the Wisps of the Malanai Breeze*. Kailua, Hawai'i.

Aerial Photograph, April 1949
Source: US Army



Kalapawai Park, Circa 1970



LKOC and Boy Scout Troop 216
Source: Lani-Kailua Outdoor Circle



BEFORE THE CHANGE

(Pre-2017)

Concerns/Conflicts



**Traffic Volume &
Delay**



**Intersection Conflicts
Lack of Wayfinding**



**Poor Pavement
Condition**

Flooding

Lanikai



- **Gateway intersection to Kailua Beach**

- **Sole vehicular access to the Lanikai community**



- Upwards of ~18,000 vehicles plus heavy foot and bike traffic traveling through intersection
- Resulted in summer weekend delays exceeding two hours leaving Lanikai





- Intersection was prone to flooding during heavy rains
- Contributed to the degradation of roadway
- Making inhospitable for pedestrian or bike use

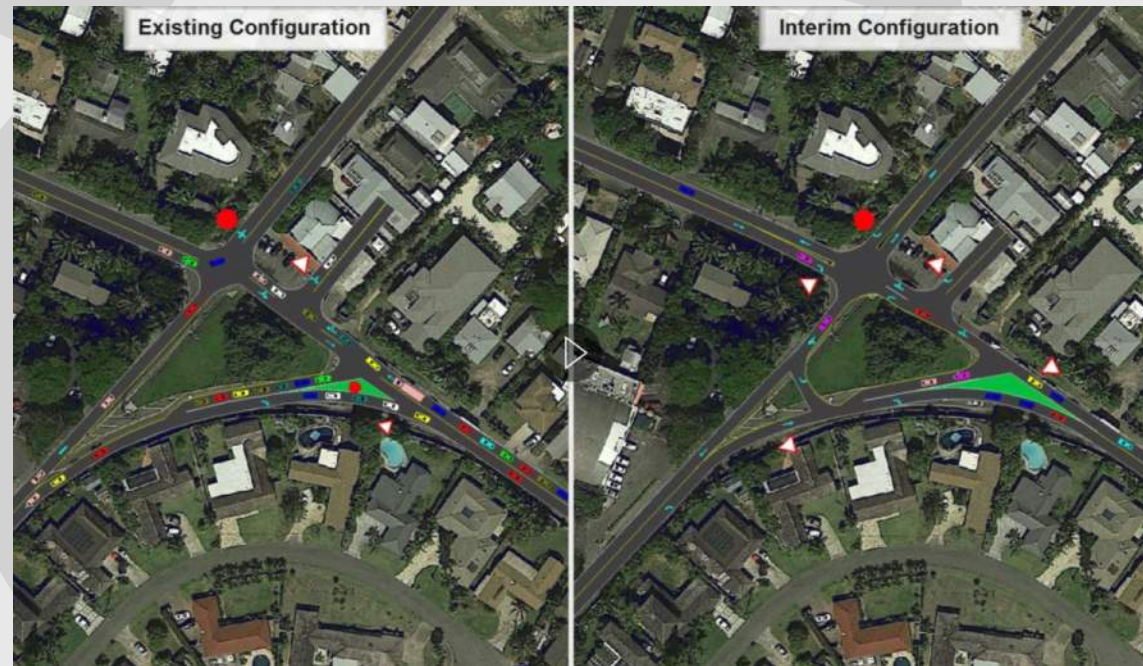




Existing Aerial Image



Proposed Roundabout



**Intersection Improvements
Community Meetings
2016**

Concerns With Roundabout Operations



INTERIM SOLUTIONS/TRANSITION

(2017-2022)

How the Kalapawai
Roundabout Emerged as the
Path Forward

2016

Original Configuration



2018

Interim Solution



Interim Construction (2017)



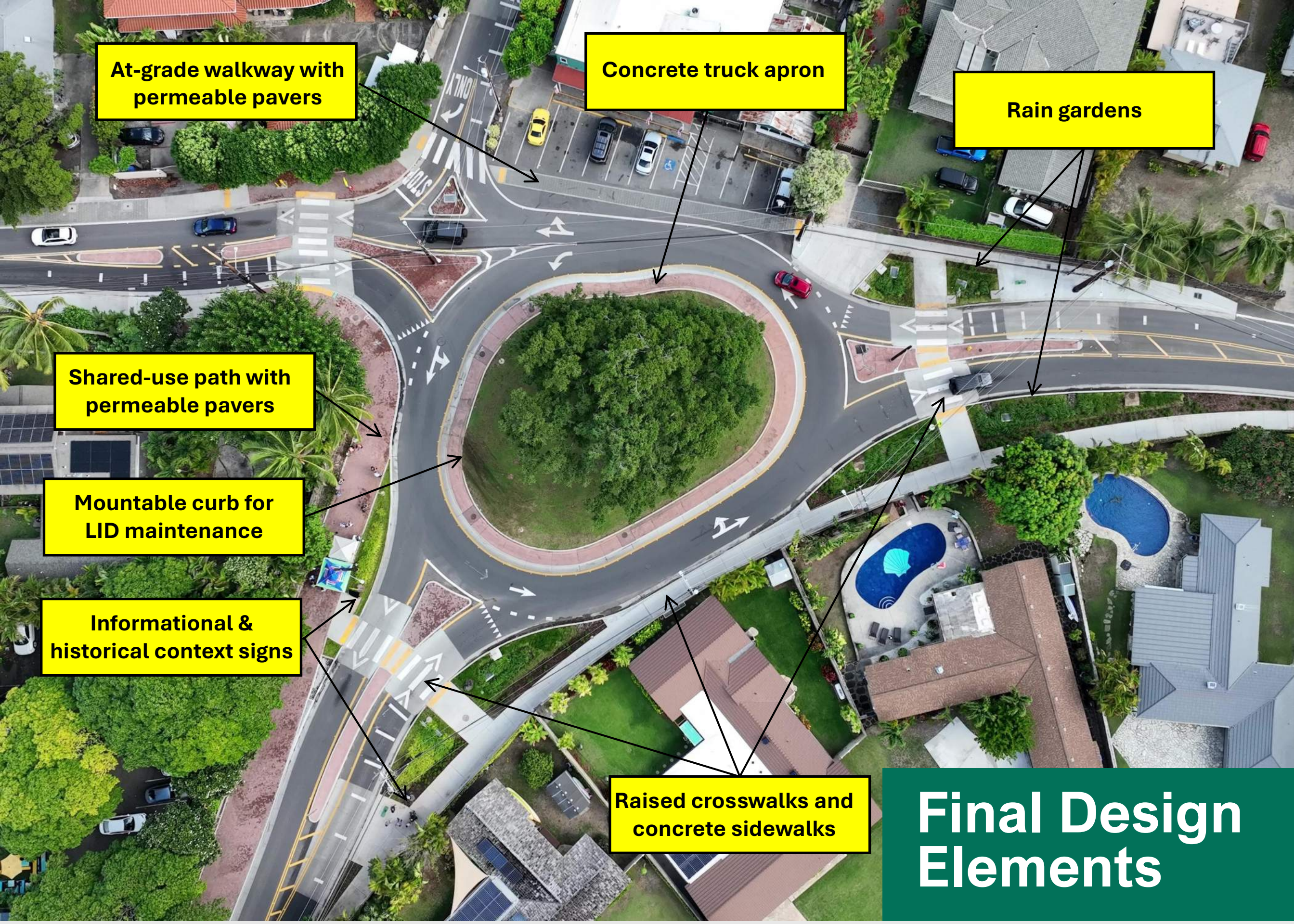
Completed Construction (2018)





THE TRANSFORMATION

(2022- 2025)



At-grade walkway with permeable pavers

Concrete truck apron

Rain gardens

Shared-use path with permeable pavers

Mountable curb for LID maintenance

Informational & historical context signs

Raised crosswalks and concrete sidewalks

Final Design Elements

Utility Poles Relocation (2022)



Center Island LID Installation (2023)



Kalapawai Park, Circa 1970



LKOC and Boy Scout Troop 216
Source: Lani-Kailua Outdoor Circle

Paver Installation (2023)



Traffic Control during Construction (2023)



Business Operations During Construction (2023)





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Kailua residents frustrated over Kalapawai roundabout construction:



khon2.com

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Latest phase of Kailua roundabout project frustrating park users



HAWAII NEWS NOW

MORE KALAPAWAI ROUNDABOUT FRUSTRATION

PHOTOJOURNALIST: ANTHONY HAMILTON

Letter: Kailua roundabout gives residents the runaround

Dec. 14, 2024 3 Comments

Kailua roundabout construction is wasting time and money. [Read more](#)







Final Construction
2025



HONORING THE PAST, BUILDING THE FUTURE

Cultural practitioner at blessing

QUESTIONS & COMMENTS?





**City and County of Honolulu
Department of Transportation Services**



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