

Station Development Program

Kaka'ako Station Group



This meeting is held in compliance with
Programmatic Agreement Stipulation IV. B

Neal S. Blaisdell Center
October 8, 2014

20 Miles with 21 Stations



Operating Details

When will trains run?

- 4 a.m. to midnight
- Every 5 minutes during peak travel times
- Every 11 minutes during non-peak travel times
- Single systemwide fare system for rail and TheBus
- ADA compliant
- Bicycles, surfboards, wheelchairs, strollers, and luggage allowed
- Free Wi-Fi

How fast will trains travel?

- 55 mph top speed & 30 mph average including station stops

Your Feedback Shapes Your Station

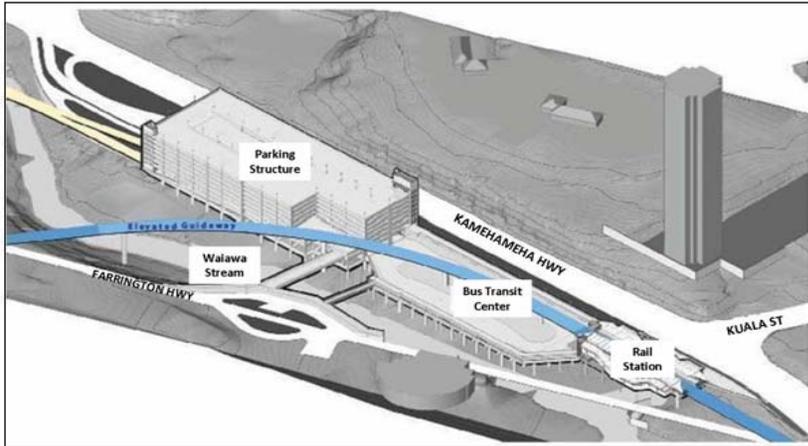
- Open Spaces - Breeze Flows Through
- Rain Protection - Entry to Boarding
- Colors and Finishes Reflect Hawai'i
- Cultural / Historical Motifs & Artwork
- Landscaping Incorporates Indigenous Plants
- Hawaiian Station Names
- Comply with Chinatown Special District

Design Requirements

Your Feedback Shapes Your Station

- Systemwide Security: CCTV in Stations & Vehicles
- Bike Stair Ramp
- ADA Compliance
- Heavy Duty Large Elevators
- Emergency Response & Generators
- Bus – Rail Coordination

Station Park-and-Ride Facilities



Pearl Highlands (1,600 spaces)



East Kapolei (900 spaces)



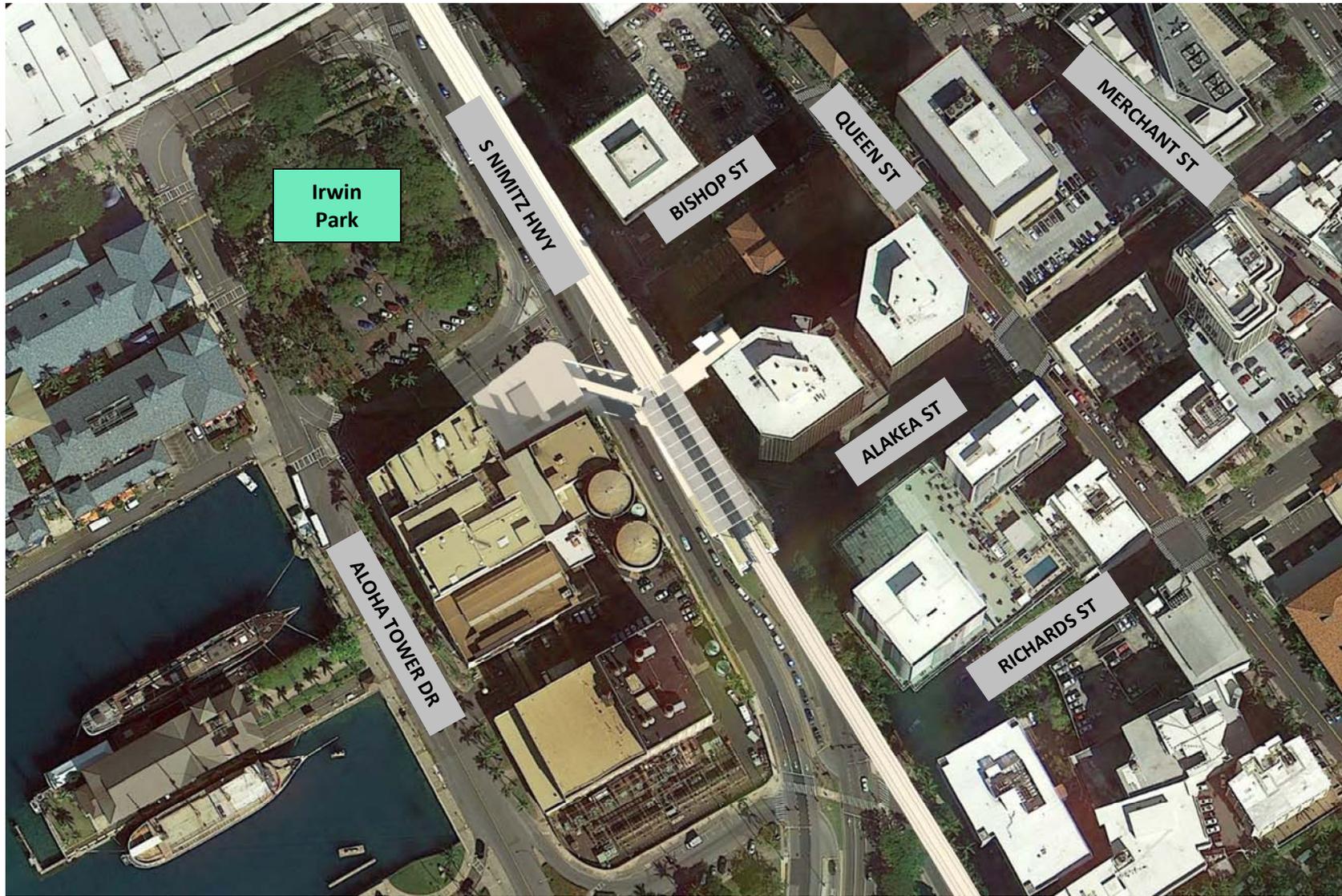
Aloha Stadium (600 spaces)



UH West O'ahu (1,000 spaces)

Downtown Station

Downtown Station

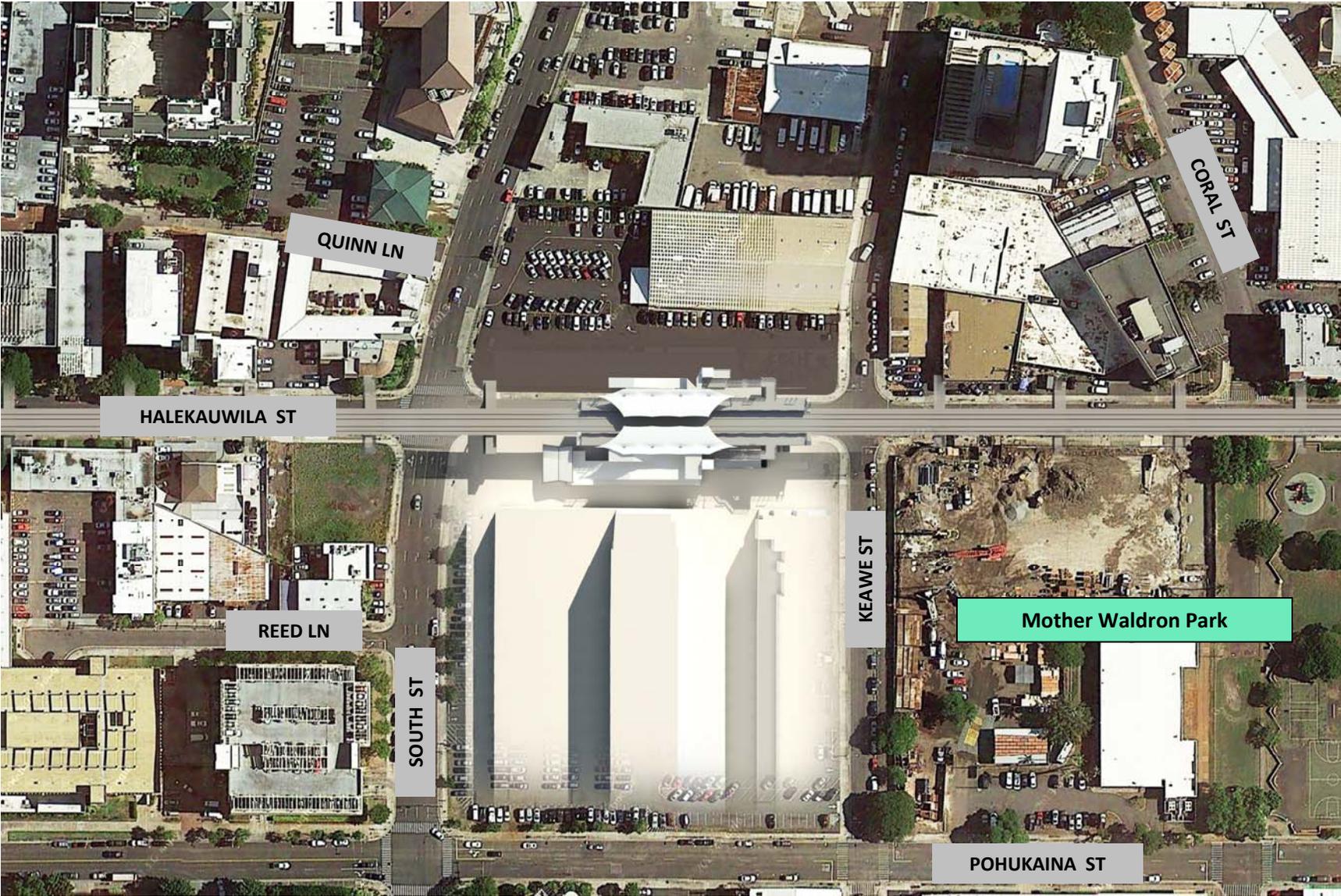




Downtown Station Entrance

Civic Center Station

Civic Center Station





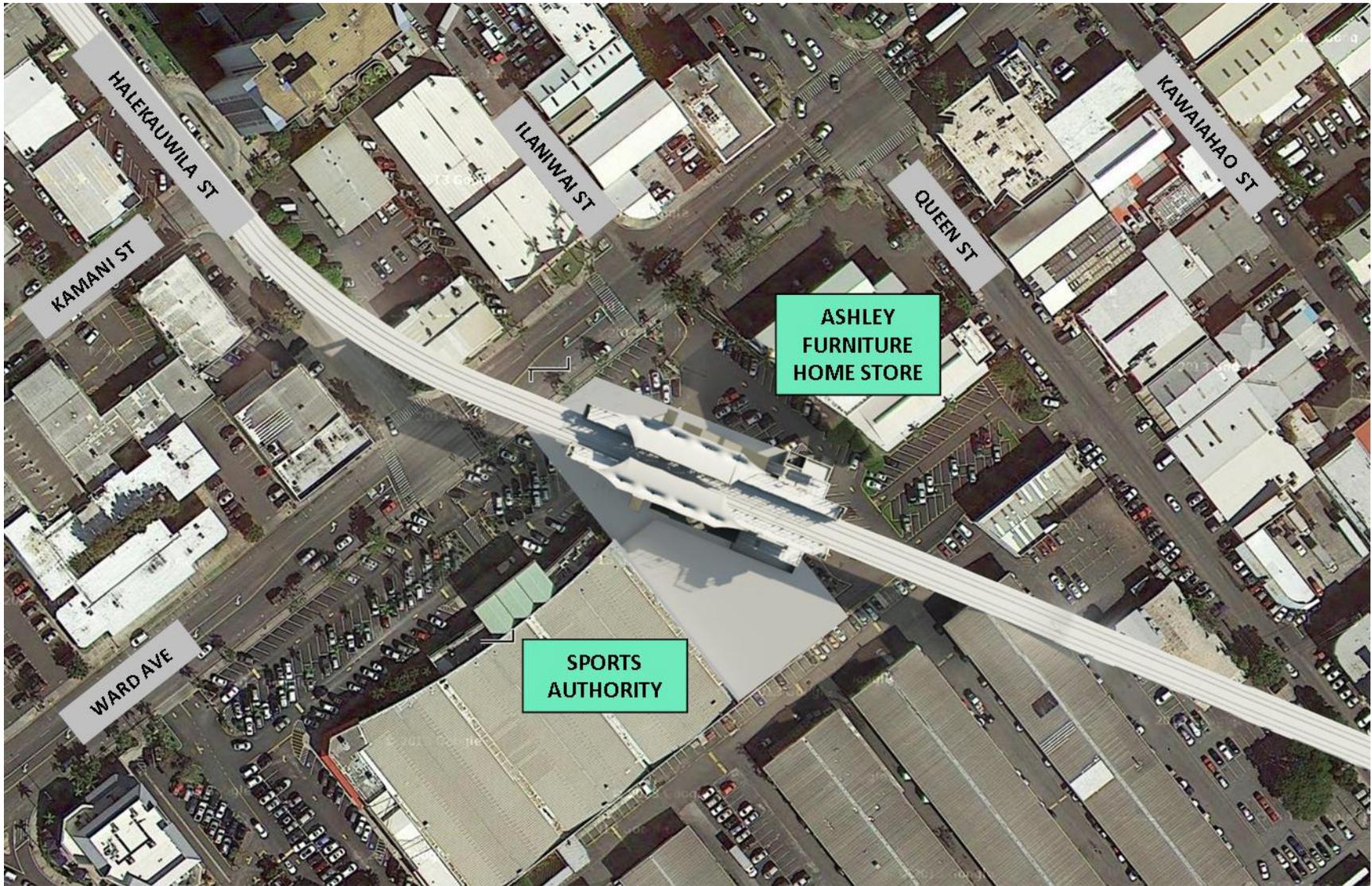
Civic Center Station – Aerial View



Civic Center Station Entrance

Kaka'ako Station

Kaka'ako Station





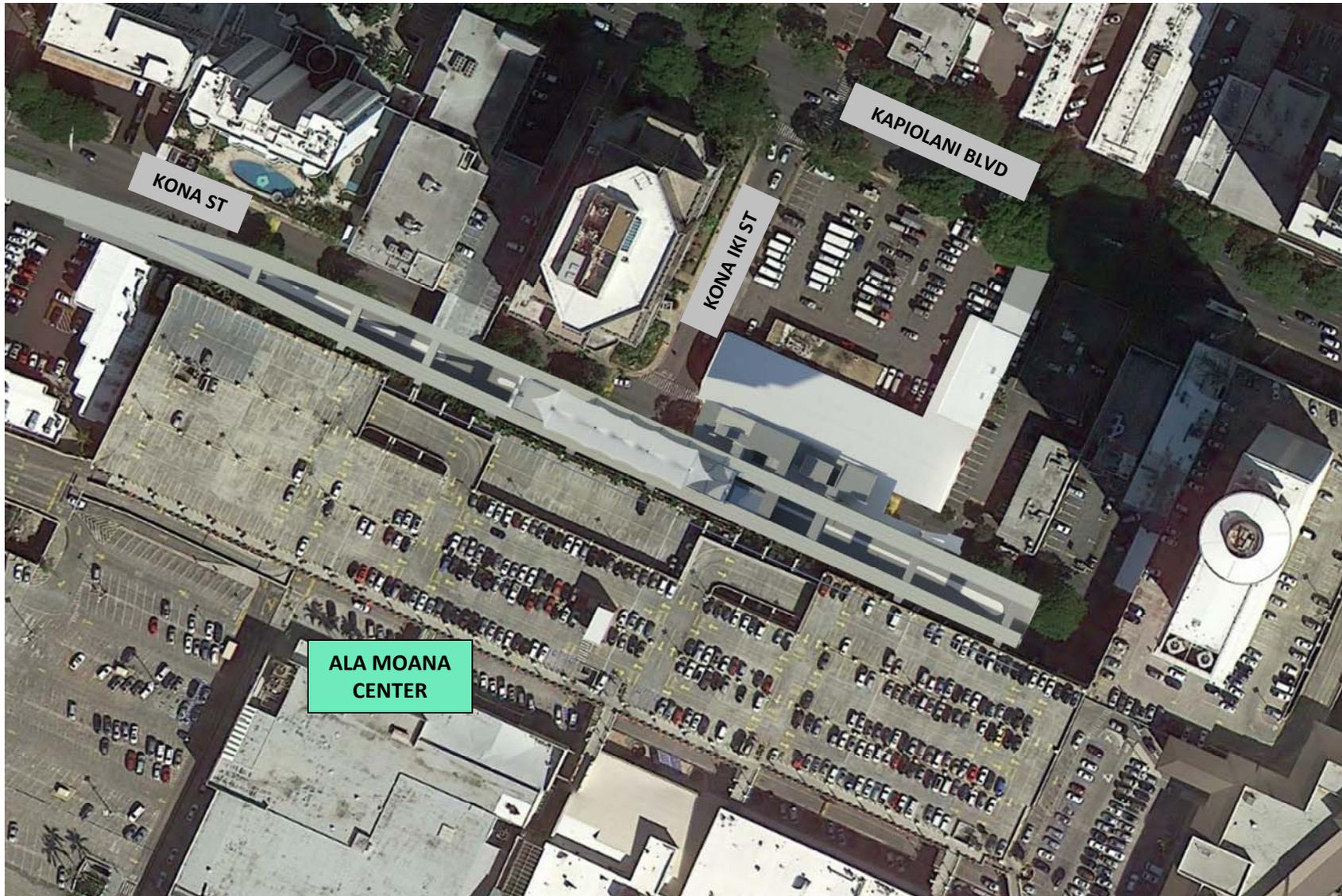
Kaka'ako Station – Aerial View



Kaka'ako Station Entrance

Ala Moana Station

Ala Moana Station





Ala Moana Station – Aerial View



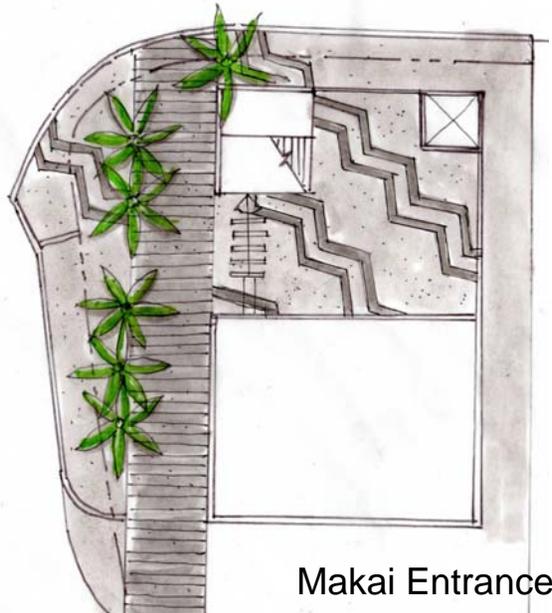
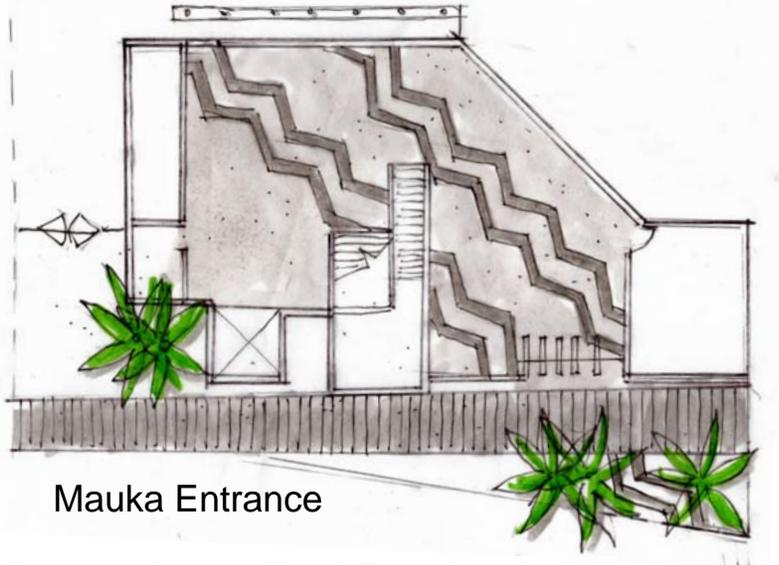
Ala Moana Station Entrance

Station Development Programs

Cultural Paving & Landscape Plan

Downtown Station

Honoring the maritime history of the harbor



Palms



Niu

Shrubs & Ground Covers



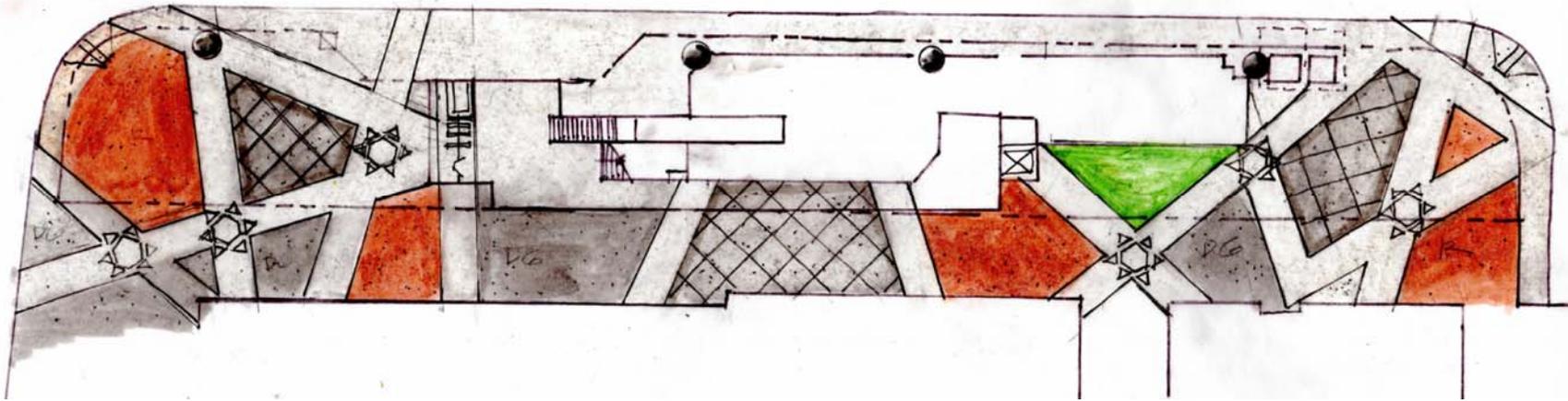
O'ahu Sedge



St. Augustine Grass

Cultural Paving & Landscape Plan

Civic Center Station



Ka'ākaukui (the right or north light) – inspired by the historical salt pans, coral, and fishing village

Shrubs & Ground Covers

Trees & Palms



True Kukui



True Kou



Niu



O'ahu Sedge



Kupukupu



St. Augustine Grass

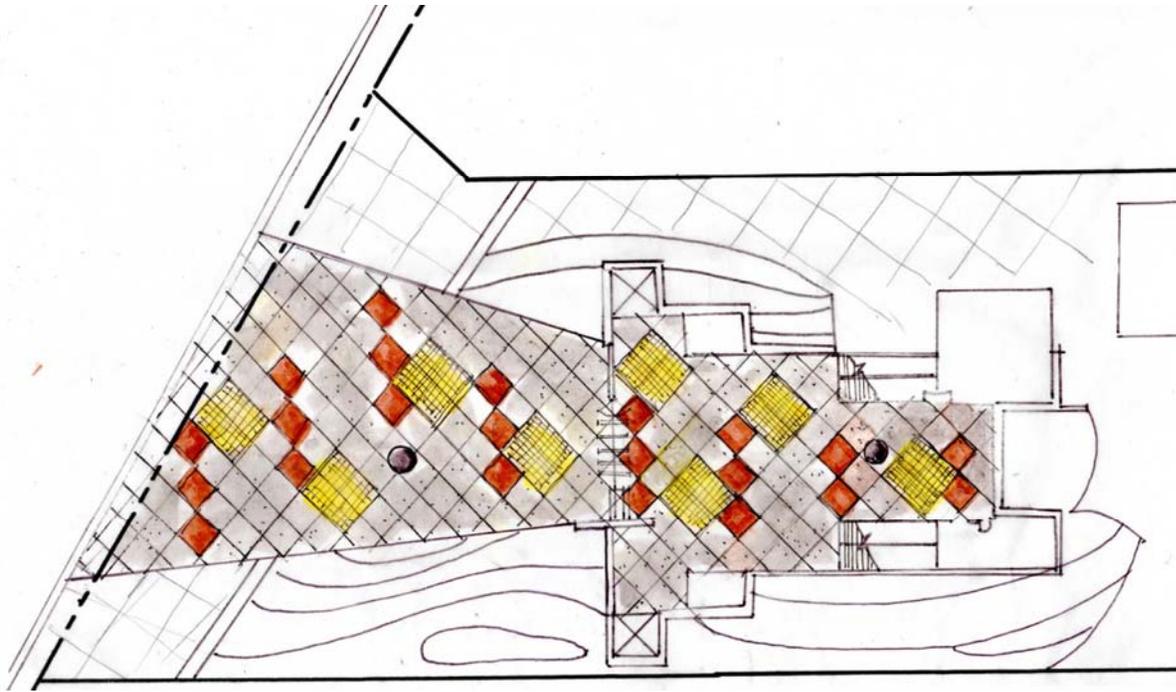


Huapala

Cultural Paving & Landscape Plan

Kaka'ako Station

Binding the fishing village of the past with the urban village of present



Trees & Palms



Hapu'u Pulu



Niu

Shrubs & Ground Covers



Pili Grass



Pohinahina



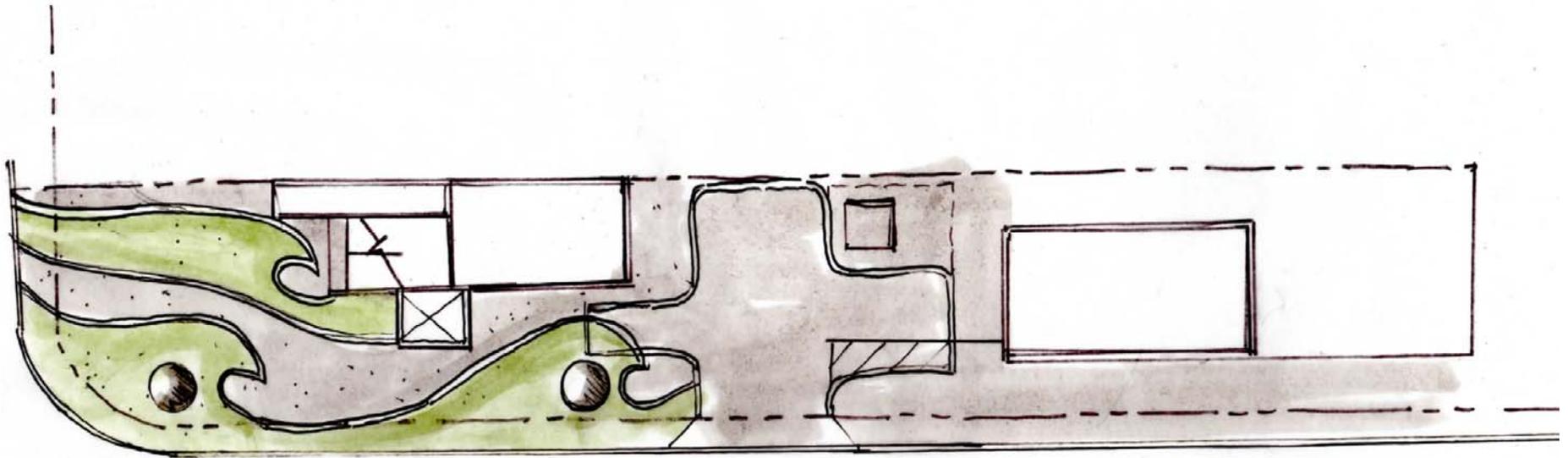
Dwarf Laua'e



Kupukupu

Cultural Paving

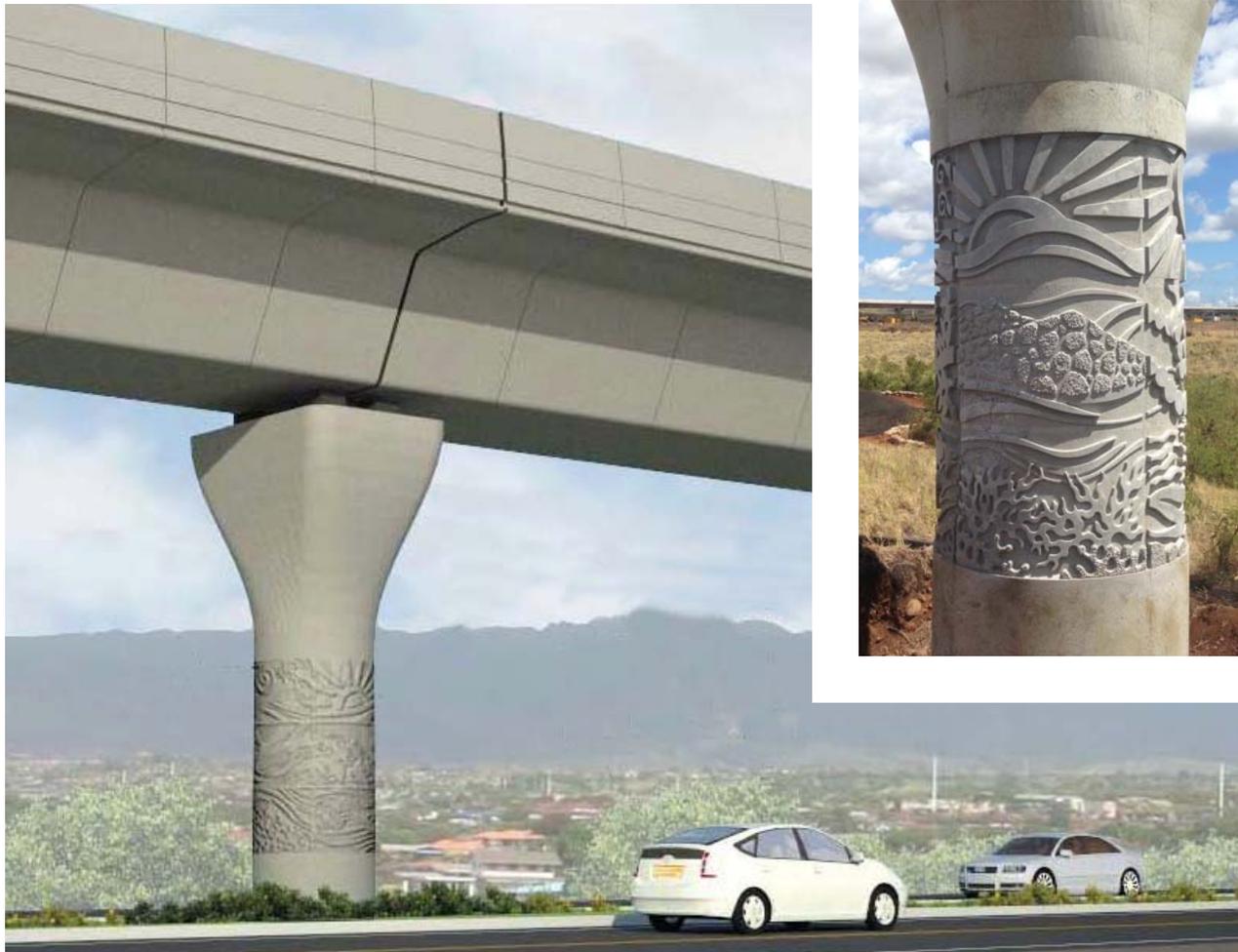
Ala Moana Station



The ocean currents and waves that flow offshore

Aesthetic Column Program

The history and stories that celebrate the past while acknowledging the present day existence that surrounds each station site...



**University of Hawai'i
West O'ahu Station**

Ho'opili Station

Aesthetic Column Program

Aloha Stadium Station Columns



Highlights the *Makahiki festival*, late October through January – A time of harvest; taxes and offerings of thanks were paid to the *Ali'i* and *ho'okupu*, gifts were made to honor *Lono*, the god of fertility and rain, in trust that the gods would provide rain and prosperity for the future.

Then came the time for feasts, competitive games and hula.

Interpretative Signage Program

Hawaiian Quilts: Lei of Love

The highly graphic floral designs of Hawaiian appliqué quilts remind us that love and respect for nature permeated every aspect of Hawaiian traditional culture. There is perhaps no more romantic and universally recognized symbol of that love than the Hawaiian lei. Flowers, ferns and other foliage, as well as feathers, seeds and shells were strung, sewn into, braided, or knotted to form lei. An integral part of everyday life, only accounts told of native Hawaiian women who "delight in flowers and wear wreaths on their heads ... in the most beautiful way ... always well chosen and in good taste."



In the language of Hawaiian chess, music and dance, many words had hidden meanings (haiku). These references to lei really speak of love and love-making. "Fragrant ginger, 'ilima, liliwa, maui and fern" described the sweethearts themselves. Beyond children, lei pua (flowers), also were called lei. Romantic love also found expression in the rain, rain, and the coolness of the upland forest. Many of the old Hawaiian quilt patterns names were likewise "haiku-like in the sense of metaphor." Where more fitting than on their laps—their bed quilts—should be expressed the language of love?

Quilts, like the lei of old, carried the aloha and the mana (power or spirit) of the maker and were seldom shared outside the 'ahane (family) for some harm befall the maker. Quilts might be burned on the death of the quilt maker, or the quilt might be buried with her quilts in much the same way that lei might be dismantled or buried.

Precious feather, seed and shell lei were carefully stored when not in use. In many families, Hawaiian quilts were also carefully stored away and displayed on beds only for special occasions. Children were raised knowing it was forbidden to ever sit on a quilt.



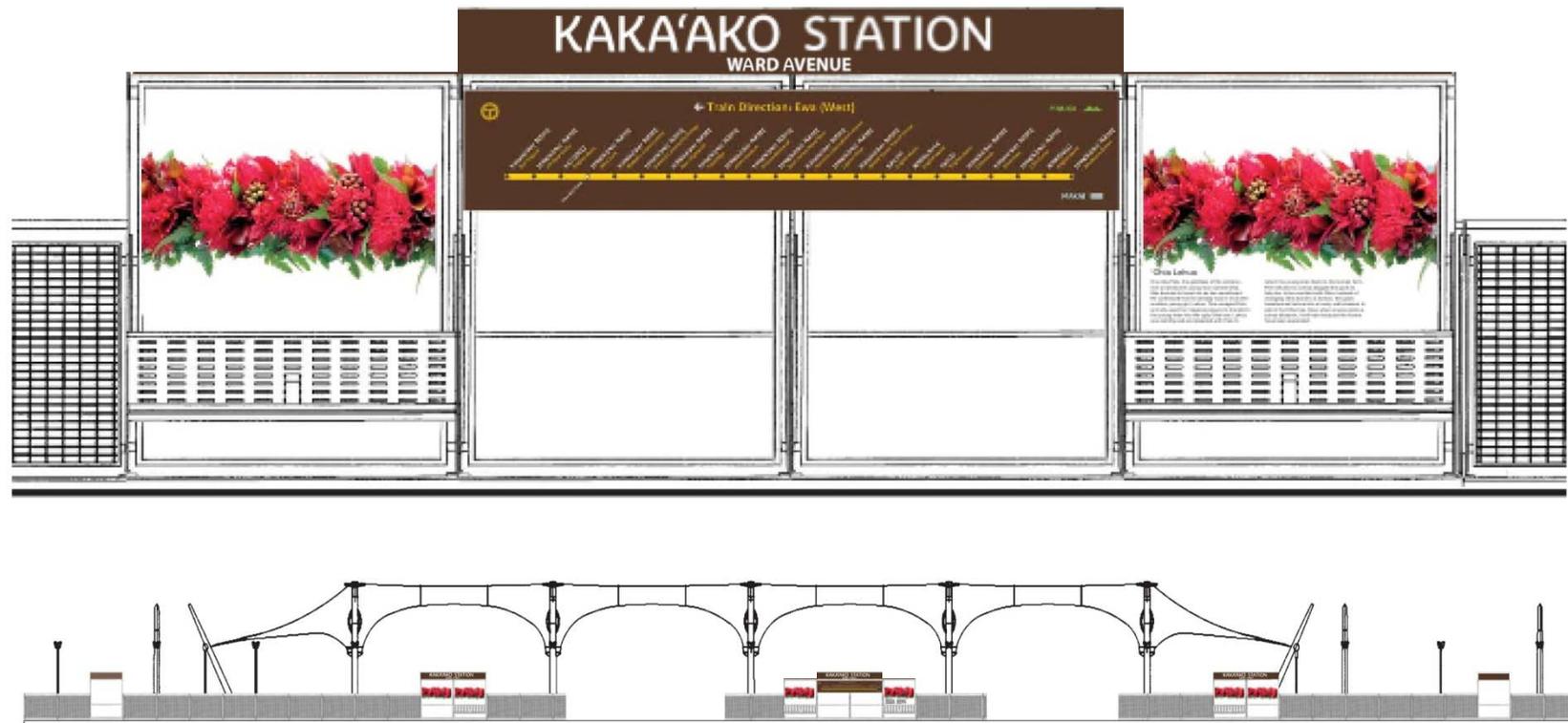

| | | | |
|--|---|--|---|
| <p>1. KAKAHIKA, SUNRISE - Enlightenment</p> <p>2. HEIAU - To worship the Sun</p> <p>3. 'AKO'AKO'A - Coral of the Ewa coastline with Lipoa limu</p> | <p>1. HIGH NOON - Time for harvest</p> <p>2. KUKUI NUT - Burning candles made from its oils are symbols for enlightenment</p> <p>3. FLOWING STREAMS</p> | <p>1. DUSK - Time to feast</p> <p>2. KALO - Brought to life by the flowing streams</p> <p>3. SPRING - An ancient spring that begins in the hills of Hono'uli'uli</p> | <p>1. PO - Time for rest</p> <p>2. PUEO - A familiar 'aumakua found in the Hono'uli'uli Preserve</p> <p>3. KAI - The rich fishing grounds of Hono'uli'uli</p> |
|--|---|--|---|

UH West Oahu



Aloha Stadium

Station Art Program



A selection of flowers and plants used in the lei will be celebrated on each station platform windscreen. Educational interpretative text that highlights the cultural significance or traditions of the plant selection will be included.

Windscreen Design

Station Art Program

Art Opportunity Categories

- Paving and Floor Designs
- Platform Glass Windscreens
- Wall Murals and Low reliefs
- Grille and Artistic Fencing
- Art Glass Windows
- Attached Architectural Elements



See It Split, See It Change, by Doug & Mike Starn,
Fused glass panels & stainless steel fence
South Ferry Station, 1 line, MTA - New York City Transit

Types of materials

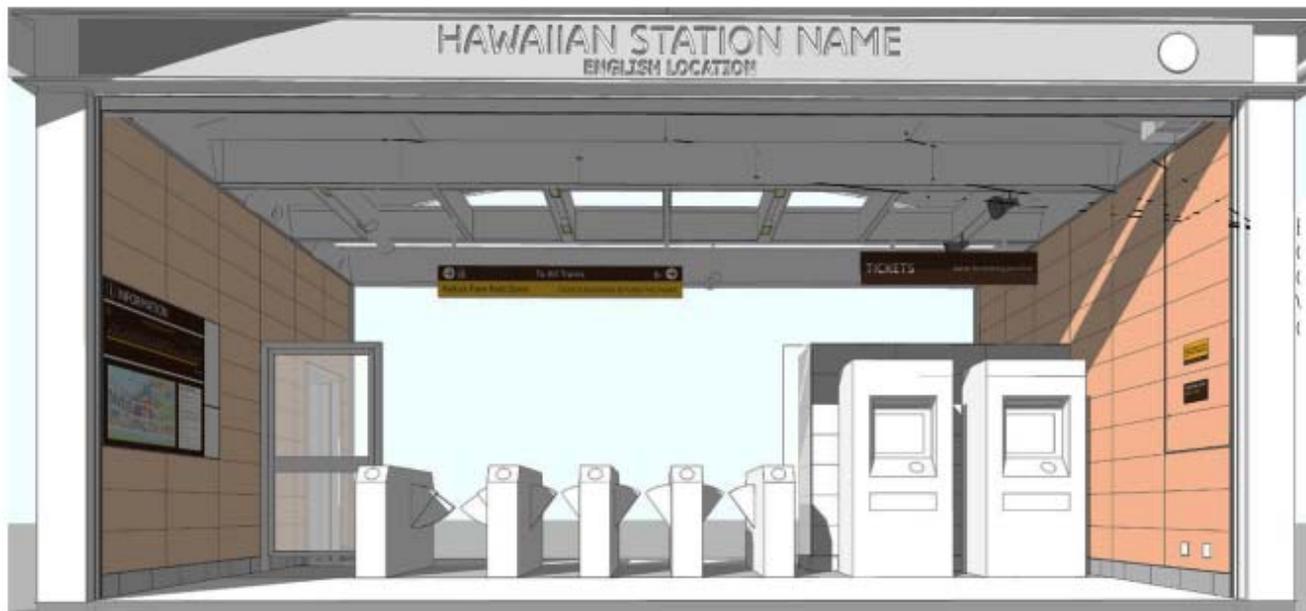
- Metal
- Stone
- Glass
- Concrete
- Ceramic
- Mosaic tile
- Other durable materials impervious to environmental conditions



Shad Crossing by Ming Fay
Glass mosaic
Delancey Street-Essex Street, MTA, New York City Transit

Station Naming Program

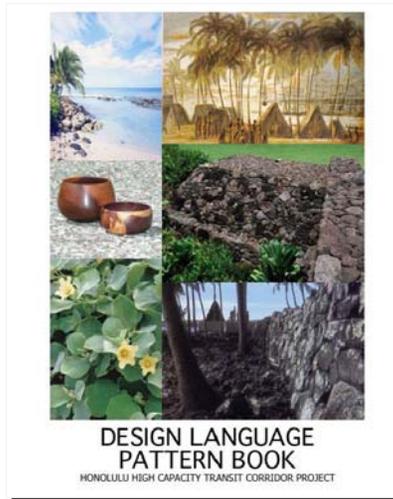
HAWAIIAN STATION NAME
STATION LOCATION



The station name and location will be clearly identified over the Fare Gate Entry

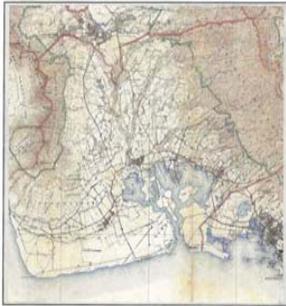
All stations will have Hawaiian Language names with location identification.

Inspiration and References



Authored by Dan Chun, Architect, FAIA

HE MO'OLELO 'ĀINA—
TRADITIONS AND STORIED PLACES
IN THE DISTRICT OF 'EWA AND
MOANALUA (IN THE DISTRICT OF KONA),
ISLAND OF O'AHU
A TRADITIONAL CULTURAL PROPERTIES STUDY –
TECHNICAL REPORT



Kumu Pono Associates, LLC
Historical & Archival Documentary Research • Oral History Interview Studies •
Researching and Preparing Studies from Hawaiian Language Documents •
Māhala, Aha, Boundary Commissions, & Land History Research •
Integrated Cultural Resources Management Planning •
Preservation & Interpretive Program Development

Authored by Kumu Pono Associates,
Kepa Maly & Onaona Maly

Design Language Pattern Book

*“A guide for the station colors, textures, finishes
and enhancements”*

- *Design Language Pattern Book*

*“Site conditions, site circumstances, technical issues,
budgets and numerous other considerations
will shape final design.”*

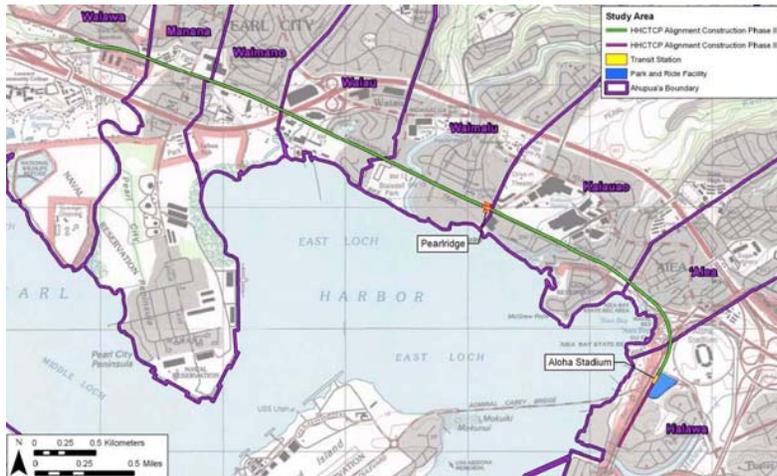
- *Design Language Pattern Book*

Traditional Cultural Properties Study

- Examination of the Cultural & Historical records
- Wahi Pana (Storied and Sacred Places)
- Major Mo'oleo (legends) and Themes
- Identified Inoa 'Āina (named places)
- Create Site Maps to locate Inoa 'Āina
- Identify eligible sites for submittal to National Registry

Inspiration and References

Archeological Inventory Survey Reports



Authored by Cultural Surveys Hawai'i, Inc.



Account of the Natural Environment

- Soils, rainfall, terrain & waterways

Historical Background

- Political and Cultural
- Agricultural
- Land use and ownership
- Military

Mythological and Traditional Accounts

- Hawaiian Mo'olelo (legends)

Community Comments – *You asked, we listened.*

Over 300 comments considered –

Colors: Incorporate earth tone colors

Landscaping: Use indigenous plants

History: Interpretive, historical artwork in station tiles

Signage: Use Hawaiian and English language

Stay Connected

- Monthly HART Facts Ad
- Public Access Television Program
- Weekly e-Blast
- Weekly Traffic Advisories
- Website and Social Media



HART FACTS
August 2014

HART CEO Dan Grabauskas answers community questions about rail transit.

QUESTION:
How many people are working on the rail project?

DAN GRABAUASKAS:
There are more than 1,200 people working on the rail project and we expect that number to grow as construction of the rail system progresses. The job count includes those people working for our contractors and their many subcontractors, in addition to the HART staff. More than 60 percent of the jobs are held by local hires, and that percentage will increase as more construction work comes on line. In the coming years we anticipate there'll be 4,000 direct rail-related jobs and another 6,000 indirectly related to the rail project.

Visit HonoluluTransit.org for more information.

| PROJECT REVENUE STATUS As of August 31, 2014 | Projections to Date ¹ | Collected or Committed to Date | Percentage of Projections |
|---|----------------------------------|--------------------------------|---------------------------|
| REVENUE SOURCE: | (in millions) | (in millions) | |
| Project Beginning Cash Balance (Dec. 2009) | \$ 298 | \$ 298 | 100% |
| General Excise Tax (GET) Surcharge ² | 3,291 | 919 | 28% |
| Federal New Starts Funds | 1,550 | 886 | 52% |
| Other Federal Transportation Funds | 214 | 4 | 2% |
| Interest Income | 2 | 9 | — |
| TOTAL | \$5,355 | \$2,036 | 38% |

1- Projections to date from the June 2012 Financial Plan.
2- Total GET surcharge revenue collected since January 1, 2007, is \$1.2 billion (includes \$278 million collected before December 2009).

| PROJECT COST STATUS As of August 31, 2014 | Current Budget ¹ | Amount Committed ² | Amount Expended ³ |
|---|-----------------------------|-------------------------------|------------------------------|
| QUESTION: | (in millions) | (in millions) | (in millions) |
| Guideway & Track Elements | \$1,130 | \$ 336 | \$ 83 |
| Stations, Stops, Terminals, Intermodal | 397 | 51 | 3 |
| Support Facilities, Yards, Shops, Admin | 114 | 114 | 36 |
| Sitework & Special Conditions | 993 | 670 | 331 |
| Systems | 257 | 242 | 0 |
| Vehicles | 192 | 192 | 8 |
| SUB-TOTAL⁴ | \$3,103 | \$1,805 | \$ 461 |
| Right-of-Way (ROW), Land, Existing Improvements | \$ 198 | \$ 63 | \$ 61 |
| Professional Services (e.g., Planning and Design) | 1,084 | 954 | 552 |
| Contingency | 564 | 8 | 0 |
| Finance Charges | 215 | 0 | 0 |
| SUB-TOTAL⁴ | \$2,061 | \$1,025 | \$ 613 |
| TOTAL⁴ | \$5,164 | \$2,830 | \$1,074 |

1. Current Budget reflects the June 2012 Baseline Budget with corrected Budget Transfers.
2. Approved contract value. 3. Portion of the work that has been paid.
4. All costs are rounded to the millions therefore subtotals may not add up to the amounts shown.

DID YOU KNOW? The creation of rail jobs benefits not only those directly involved with the project, but also generates revenue for other sectors of our local economy



HART
HONOLULU AUTHORITY FOR RAPID TRANSPORTATION
HART WEEKLY eBLAST | SEPTEMBER 26, 2014

**RAIL OPERATIONS AND CONTROL CENTER
TAKES SHAPE IN WAIPAHU**



Crew members work on a concrete tilt-up wall at the Rail Operations and Control Center.

Significant progress has been made over the past year on HART's Rail Operations and Control Center adjacent to Leeward Community College.

You Tube

facebook

twitter

vimeo

HART Rapid Response:

- 24-Hour Project Hotline number 808-566-2299
- Email Inquiries: info@HonoluluTransit.org
- Website Inquiries