

PROJECT UPDATE



AESTHETIC COLUMN PROGRAM

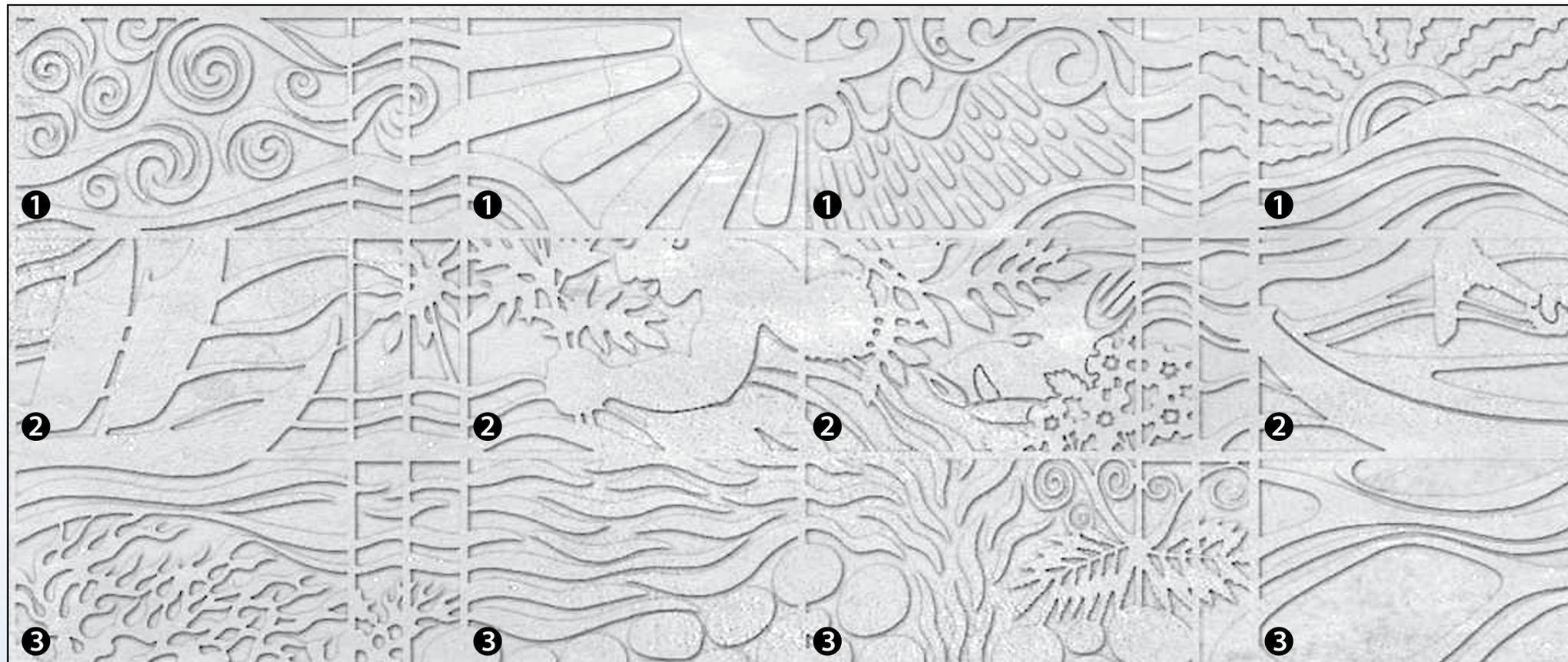


Example of Station Column Treatment Design

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



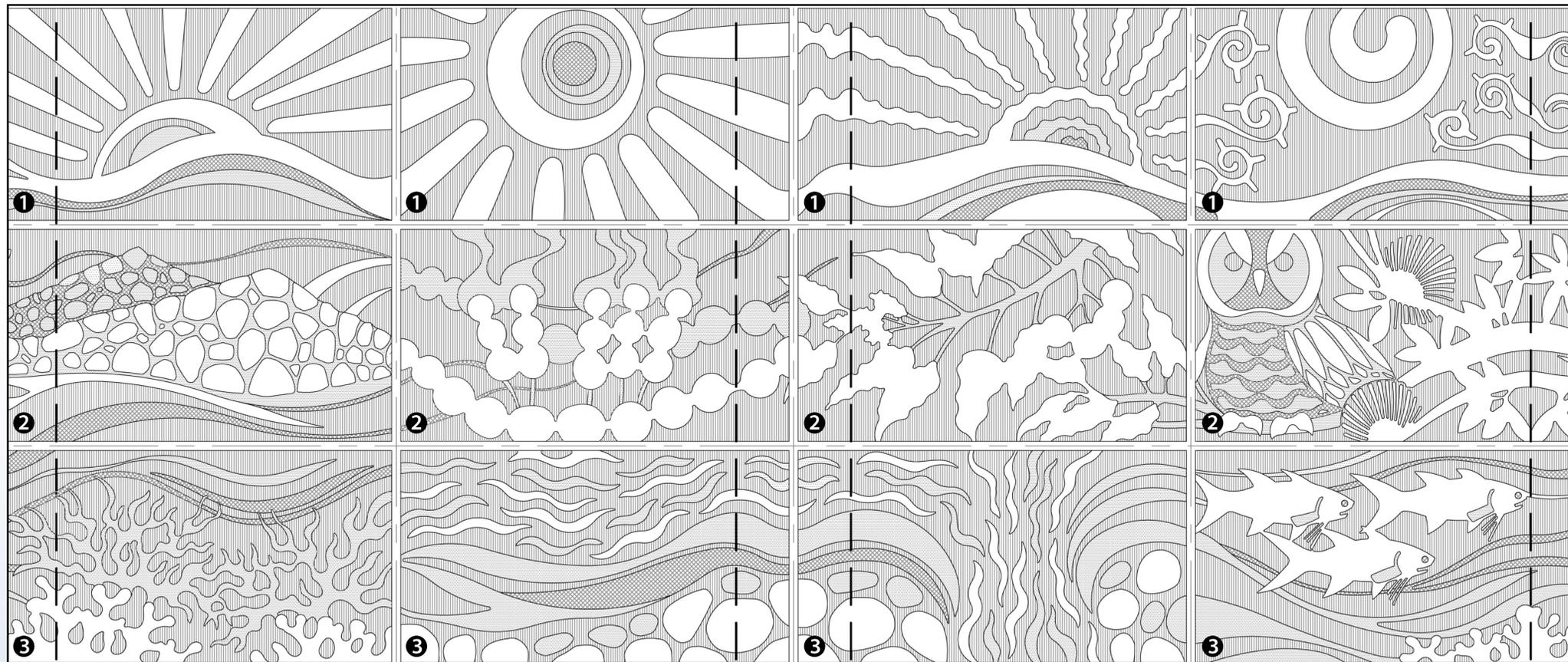
AESTHETIC COLUMN PROGRAM



Ho'opili Station Columns

- | | | | |
|--|--|--|---|
| <p>1. KAMAKANI, WIND
- Wind, Natural energy</p> | <p>1. SUNSHINE
- Natural energy, used to track seasons</p> | <p>1. LONO/RAIN
- God of agriculture</p> | <p>1. SUNSET OVER PU'UOKAPOLEI
- Signals the changing of seasons, also the home of Kamapua'a's grandmother</p> |
| <p>2. WA`A SAILS
- The voyage of Kaha'i, descendant of Mo'ikeha, departed from Kalaeloa, `Ewa - brought `ulu from Samoa</p> | <p>2. KAHA'I PLANTING THE FIRST `ULU TREES AT PU`ULOLOA</p> | <p>2. `ULU, `APAPANE, PUA`A, MA`O
- Pua`a represents Kamapua`a</p> | <p>2. ADZE CARVING WA`A
- Trees from Hono`uli`uli</p> |
| <p>3. `AKO`AKO`A
- Coral represents foundations, beginnings</p> | <p>3. `EWA CORAL PLAINS
- Source of limestone blocks, used in buildings, churches</p> | <p>3. KALO`I SPRING & GULCH
- Fed the lo`i of the area, spring symbolizes source of knowledge</p> | <p>3. PA`AKAI BEDS
- Sea salt dried on red clay beds</p> |

AESTHETIC COLUMN PROGRAM



University of Hawai`i West O`ahu Station Columns

1. **KAKAHIKA, SUNRISE**
- Enlightenment

2. **HEIAU**
- To worship the Sun

3. **ĀKO`AKO`A**
- Coral of the `Ewa coastline with
Lipoa limu

1. **HIGH NOON**
- Time for harvest

2. **KUKUI NUT**
- Burning candles made from its oils
are symbols for enlightenment

3. **FLOWING STREAMS**

1. **DUSK**
- Time to feast

2. **KUKUI NUT TREE**
- Brought to life by the flowing
streams

3. **SPRING**
- An ancient spring that begins
in the hills of honouliuli

1. **PŌ**
- Time for rest

2. **PUEO**
- A familiar `aumakua found in
the Honouliuli Preserve

3. **KAI**
- The rich fishing grounds of
Honouliuli

AESTHETIC COLUMN PROGRAM



East Kapolei Station Columns

1. UA, RAIN
- The season for planting

2. HALA
- A staple for utilitarian use

3. HE'E
- Symbol of Kanaloa, god of the oceans & water

1. KA MAKANI
- Ho'oilo season for growth

2. HALA LEI FOR KAPO
- The fruits were used to fashion a lei to honor Kapo, goddess of hula; hence the name Kapolei

3. MŪHE'E
- Another symbol of Kanaloa

1. KAU
- Hotter season for rest

2. KALO
- A staple of sustenance

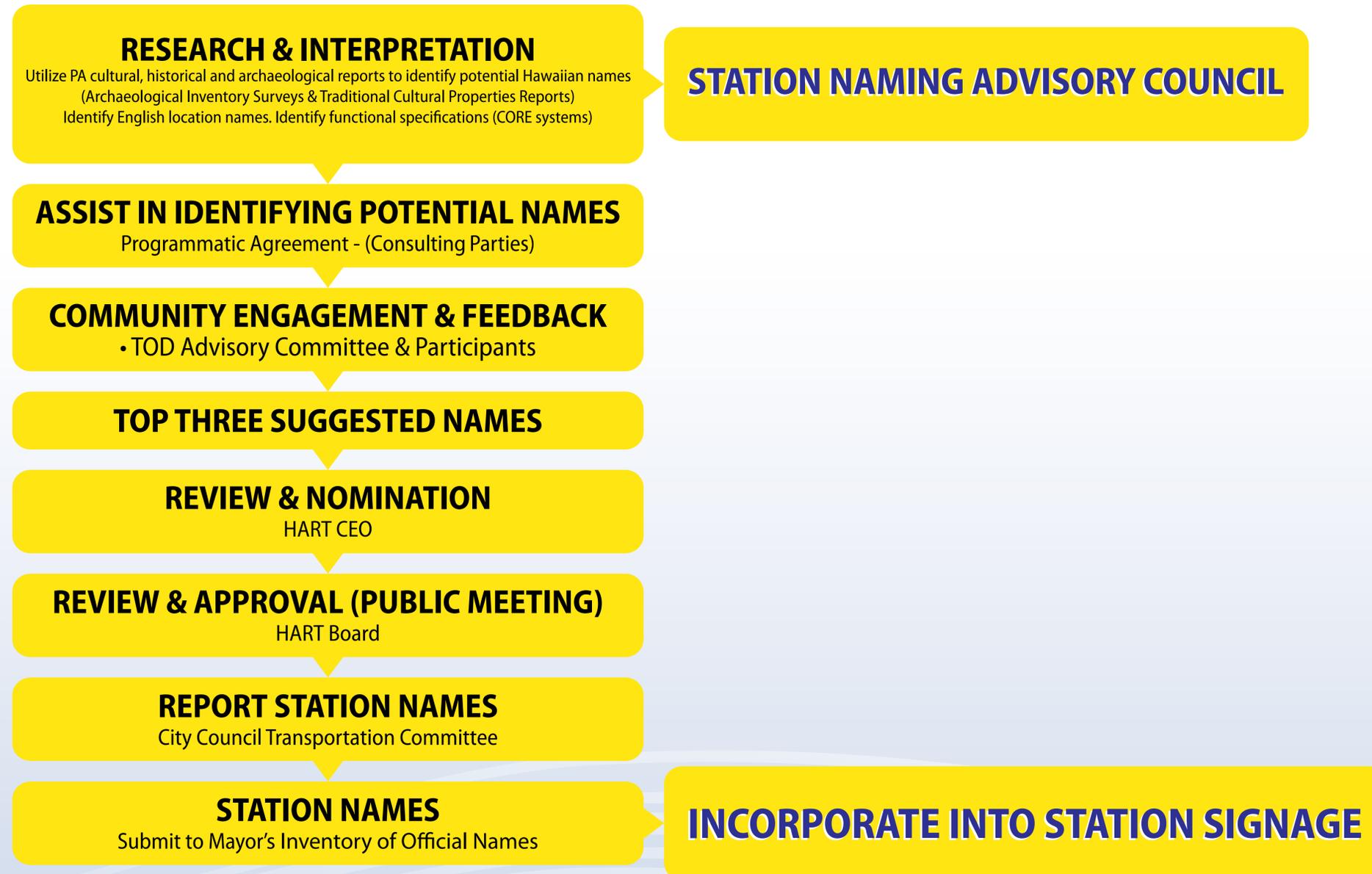
3. `ĀKO`AKO`A
- Coral, foundation of the Honouliuli area

1. PŌ OVER PU`UOKAPOLEI
- Night over Pu`uokapolei, a marker used by farmers to determine the winter & summer solstice to mark the seasons

2. POI POUNDING

3. `ĀKO`AKO`A

DRAFT STATION NAMING PROGRAM



STATION RELATED COMMUNITY COMMENTS

West O`ahu Station Group

Your feedback shapes the station

STATION DESIGN: Hawaiian, open spaces, light tropical patterns, screen and mesh walls, provide shade and protection from the elements, and seating

WALLS: Use moss rock or coral blocks

COLORS: Incorporate earth tone colors

LANDSCAPING: Use indigenous plants

HISTORY: Interpretive, historical artwork in station tiles/walls (use stories of sharks and Hawaiian owl)

LOCATION: Move station closer to new shopping center in Kapolei

SIGNAGE: Use Hawaiian and English language

INCORPORATE PV PLATES, WIND TURBINES

Metal architectural fencing will allow the breeze to flow through the station. Column friezes with thematic designs will be incorporated. Protection from the elements starts at the fare gate entry module and extends to the platform level. Seating will be provided.

Coral rock veneer is being used as a decorative base at station station columns.

Earth tone colors are incorporated in the station paint schemes. (Greens Browns, Beiges & Reds)

Indigenous Plant are being incorporated in the landscape areas.

The rich history and culture of the area will be incorporated throughout the Station and Plaza areas though the use of cultural paving, column aesthetics and on interpretive signage that includes educational verbiage and graphics.

Station location addresses future development. Extension of the system into Kapolei is planned.

Hawaiian primary Station name, followed by an English location name.

A system-wide solar photovoltaic program is under consideration.

STATION ART PROGRAM



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



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

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

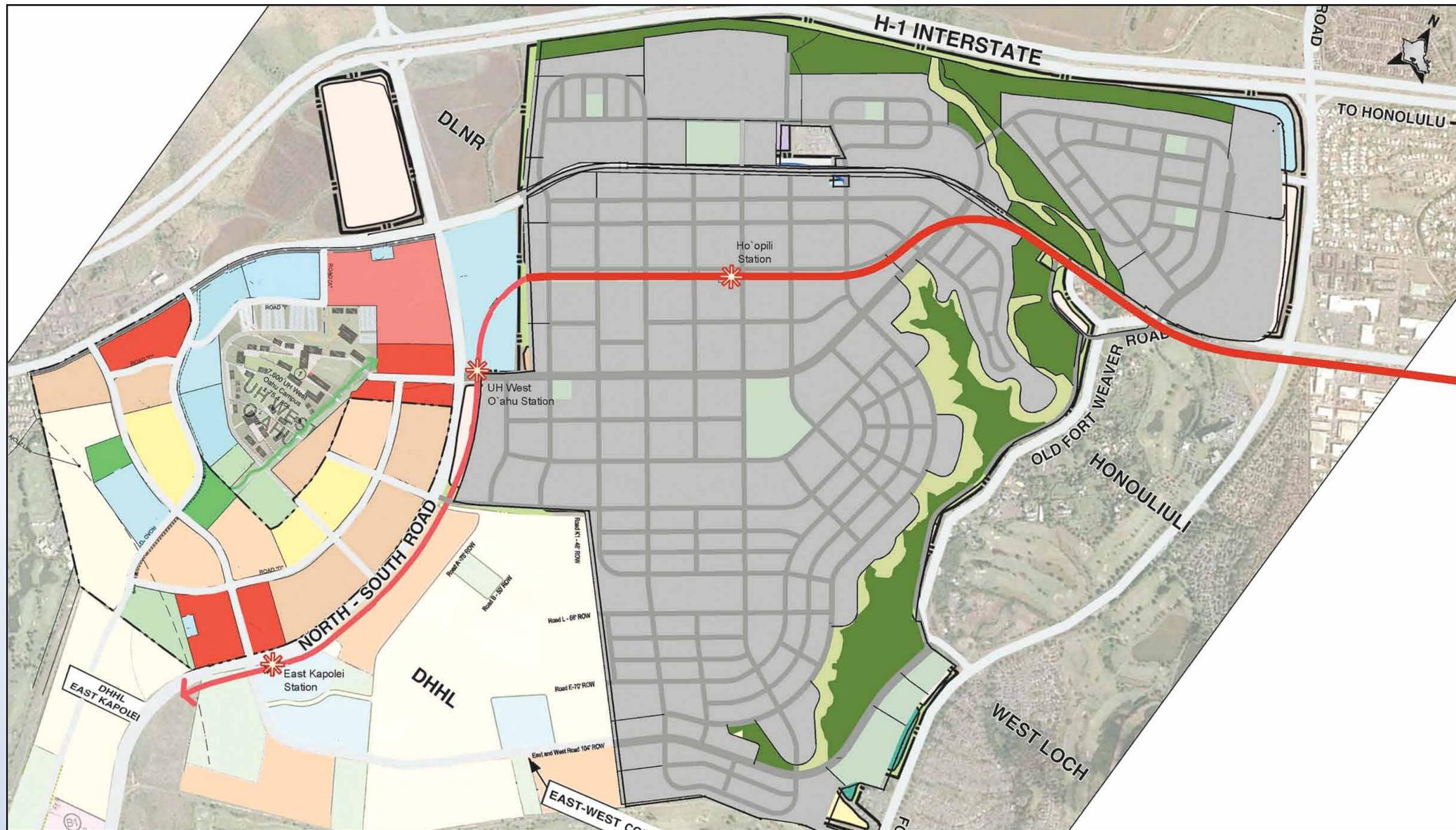
ART OPPORTUNITY CATEGORIES

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



HONOLULU AUTHORITY for RAPID TRANSPORTATION

DR HORTON MASTER PLAN-HO`OPILI PROJECT



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HART

HONOLULU AUTHORITY for RAPID TRANSPORTATION

EAST KAPOLEI STATION



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HONOLULU AUTHORITY for RAPID TRANSPORTATION

UNIVERSITY OF HAWAI'I WEST O'AHU STATION ENTRANCE



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HO`OPILI STATION-AERIAL VIEW



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CULTURAL AND ARCHEOLOGICAL RESEARCH THEME EXAMPLES

Excerpts from HART Archeological Inventory Surveys by Cultural Surveys Hawai'i, Inc. & HART Traditional Cultural Properties Reports by Kumu Pono Associates LLC

STATION	AHUPUA`A (Traditional Land Divisions)	WAHI PANA (Sacred Stories/Legendary Places)	HISTORICAL LAND USE
<p>East Kapolei Honouliuli ahupua`a (Hawaiian name)</p>	<p>Honouliuli ahupua`a means "dark water", "dark bay", or blue harbor, and was named for the waters of Pearl Harbor, which marks the eastern boundary of the ahupua`a.</p>	<p>The pipi (pearl oyster), was sometimes called "the silent fish", since the collectors were supposed to stay quiet while harvesting the shells. Pipi was also described as the fish of `Ewa that silences the voice, or the pearl oyster which had to be gathered in silence. When the people of `Ewa gathered the pipi (pear oyster), they did so in silence, for if they spoke, a Moa`e (strong trade wind) breeze would suddenly blow across the water, rippling the water's surface, and the oysters would disappear.</p>	<p>Honouliuli ahupua`a was once widely inhabited by pre-contact populations, including the Hawaiian ali`i (chiefly class). This would be attributable to the plentiful marine and estuarine resources available at the coast, along which several sites interpreted as permanent habitations and fishing shrines have been located. Other attractive subsistence-related features of Honouliuli included irrigated lowlands suitable for wetland taro cultivation, and the lower forest area of the mountain slopes for the procurement of forest resources.</p>
<p>UH West O`ahu Honouliuli ahupua`a (Hawaiian name)</p>	<p>Another explanation for the name Honouliuli comes from the "Legend of Lepeamo", the chicken-girl of Pālama. In this legend, Honouliuli is the name of the husband of the chiefess Kapālama, grandparents of Lepeamo.</p>	<p>Pu`uokapolei is the name of a hill in Honouliuli ahupua`a. Pu`u means hill and Kapolei means beloved Kapo, the sister of the Hawaiian volcano goddess, Pele. Ancient Hawaiians used Pu`uokapolei as an astronomical marker to designate the seasons. The season named Kau (summer) was used to describe the setting of the sun from Pu`uokapolei, to the opening of Mahinaona (i ke kawaha o Mahinaona).</p>	<p>In 1891 the new `Ewa Plantation Mill at Honouliuli, was up and running, and major changes were under way in land use, population makeup, and loss of cultural landscape.</p>
<p>Ho`opili Honouliuli ahupua`a (Hawaiian name)</p>	<p>Numerous claims were cited in the Māhele, though the awarded claims were generally in the "taro lands" section of Honouliuli—a watered area toward the shore of the ahupua`a.</p>	<p>Kaihuopala`ai fell in love with a man named Kapapapūhi who was living at Honouliuli, `Ewa. She was changed into a fishpond in which mullet were kept and fattened... Kaihuopala`ai means the nose of Pala`ai and is also the name Hawaiians used for the west loch of Pearl Harbor, adjacent to the area now known as Ho`opili.</p>	<p>The soil of Honouliuli was used for planting sugar cane, truck crops, orchards and pasture.</p>

H O N O L U L U R A I L T R A N S I T P R O J E C T

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SYSTEM DESIGN AND OPERATIONAL FEATURES

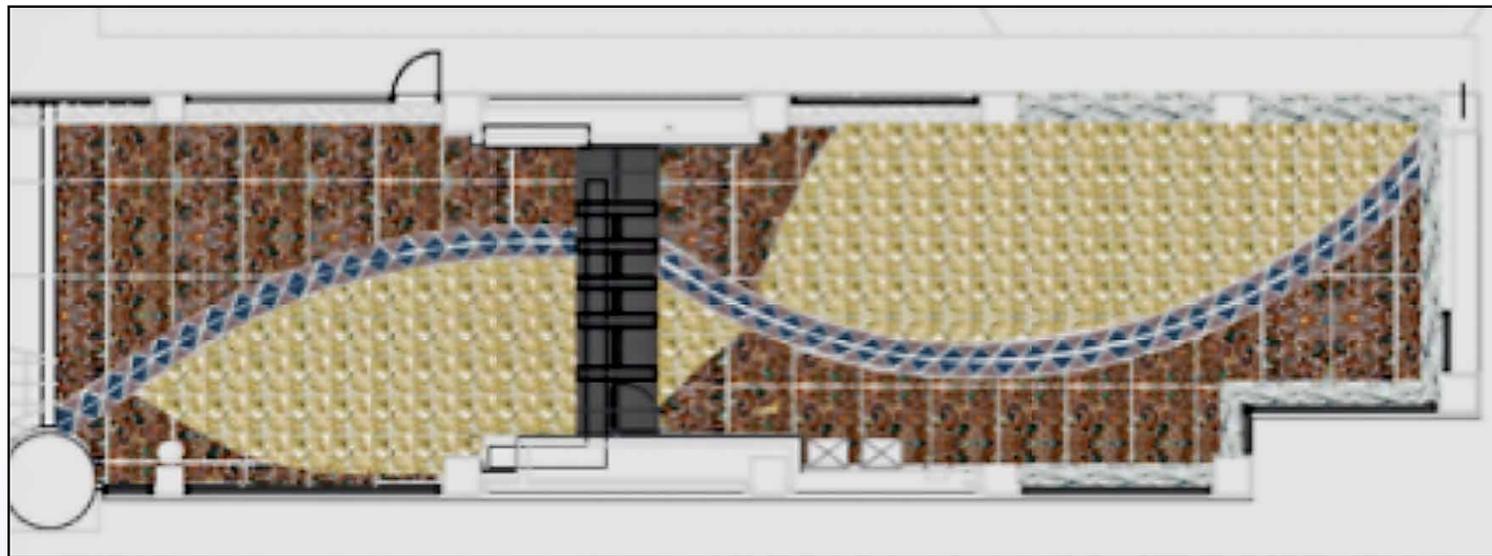
- **240 ft. LONG PLATFORMS:** platform screen gates, seating, wind screens, canopies
- **ADA COMPLIANCE:** level boarding, elevators to all levels, public address, directional and digital signage
- **6 ft x 8 ft ELEVATORS:** for emergency stretchers, EMTs, bicycles, motorized wheel chairs, luggage, strollers, etc.
- **ACCOMMODATED INSIDE RAIL VEHICLES:** wheelchairs, bicycles, strollers, surfboards, coolers, luggage
- **MULTI-MODAL CONNECTIONS:** bike racks (CCTV coverage), connect to bicycles paths, pedestrian paths and trails, bus stops near stations
- **PARK-&-RIDE LOTS:** 4100 spaces:
 - East Kapolei (900 spaces)
 - UH West O`ahu (1000 spaces)
 - Pearl Highlands (1600 spaces)
 - Aloha Stadium (600)
 - Other locations under review
- **PATRON DROP-OFF:** HandiVan drop-off and Kiss-&-Ride drop off, bus stops

SYSTEM DESIGN AND OPERATIONAL FEATURES

- **SINGLE FARE, SYSTEM WIDE PASS**
- **BUS-RAIL COORDINATION:** Buses rerouted to provide more frequent service from neighborhoods to rail transit centers and stations
- **SEVEN BUS TRANSIT CENTERS AT STATIONS:** UH West O`ahu, West Loch, Waipahu Transit Center, Pearl Highlands Stations, Aloha Stadium Station, Middle Street Transit Center, Ala Moana Center
- **SYSTEM-WIDE SECURITY:** CCTV in stations and rail vehicle, emergency and information phones in stations and rail vehicles
- **EMERGENCY RESPONSE:** Operations Center has immediate communications with HPD, HFD and EMTs, routine training of HART and first responders
- **POWER OUTAGE:** Emergency generators available during power outages
- **RAIN PROTECTION:** Cover over circulation from entry to platform and windscreens at boarding platforms provide shade and rain protection

STATION PLAZA PAVING PROGRAM

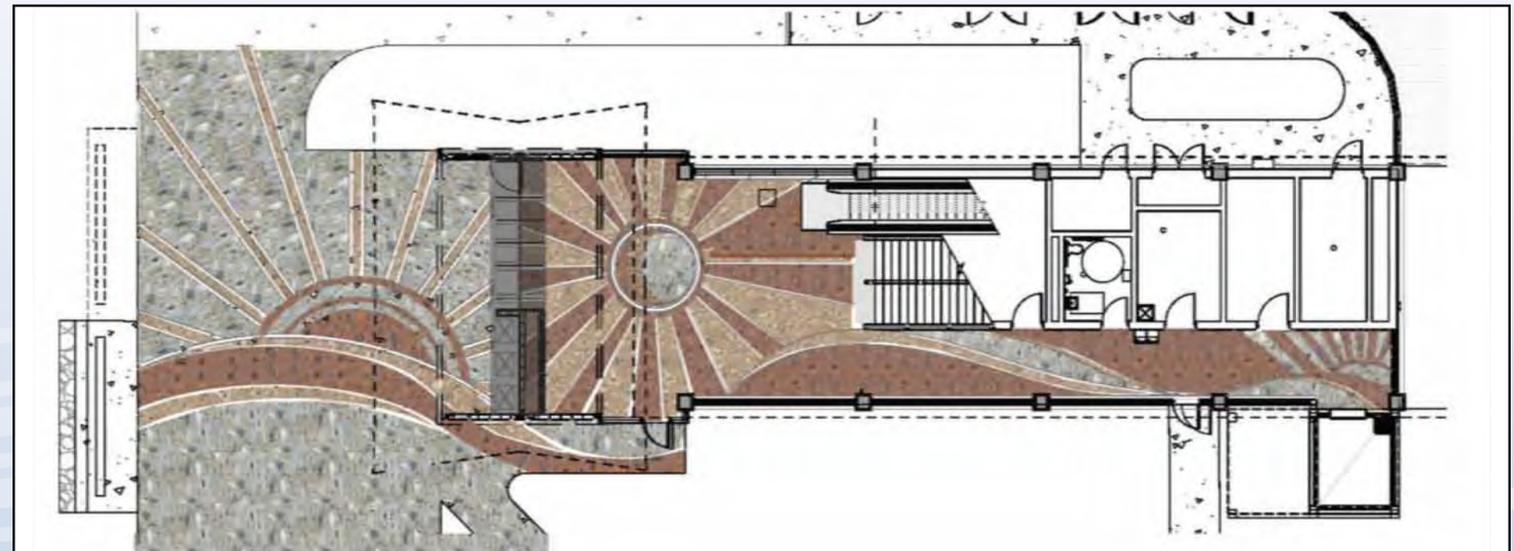
EAST KAPOLEI STATION ENTRANCE



Lei Hala—Makaloa Mat Pattern—

Celebrates the Ka makani (winds) that sweeps down from the mountains through the site to the ocean

UNIVERSITY OF HAWAI'I WEST O'AHU STATION ENTRANCE



Seasons of Growth—Coming Into the Light—Enlightenment

Ka makani (wind) and seasonal elements represented by the specific times of the day

CURRENT CONSTRUCTION SCHEDULE

FACILITY/GUIDEWAY & STATION

PROJECTED COMPLETION

Rail Operations Center

Mid-year 2016

West O`ahu/Farrington Highway Guideway & Stations

Fall 2017

Kamehameha Highway Guideway & Stations

Fall 2018

Airport Guideway & Stations

Mid-year 2019

City Center Guideway & Stations

Fall 2019