

Appendix C

Powerpoint Presentation

Project –Wide Station Design Workshop for Consulting Parties

Additional Support For Section 106 Programmatic Agreement Stipulation IV

January 10, 2013

Agenda

- **Aloha and Introductions**
 - **Project Update**
 - **Station Standard Components & Function**
 - **Value Engineering** – *Using Pearlridge Station As An Example*
-
- **Design Language Pattern Book**
 - **Interpretive Signage**
 - **Station Art Program, Signage & Aesthetic Treatment**
 - **Station Naming Process**
 - **Reinterment Sites Considerations** – *Design Compendium Chapter 11*
-
- **Unique Stations** – *Event and Multi-modal Transportation Connection*
 - **Stations With Historic Considerations**
 - **Q & A**

Meeting Purpose

Update and Inform Consulting Parties on the Status of General Station Design Concepts and Processes to Better Prepare for Participation in the Forthcoming Station Group Design Workshops

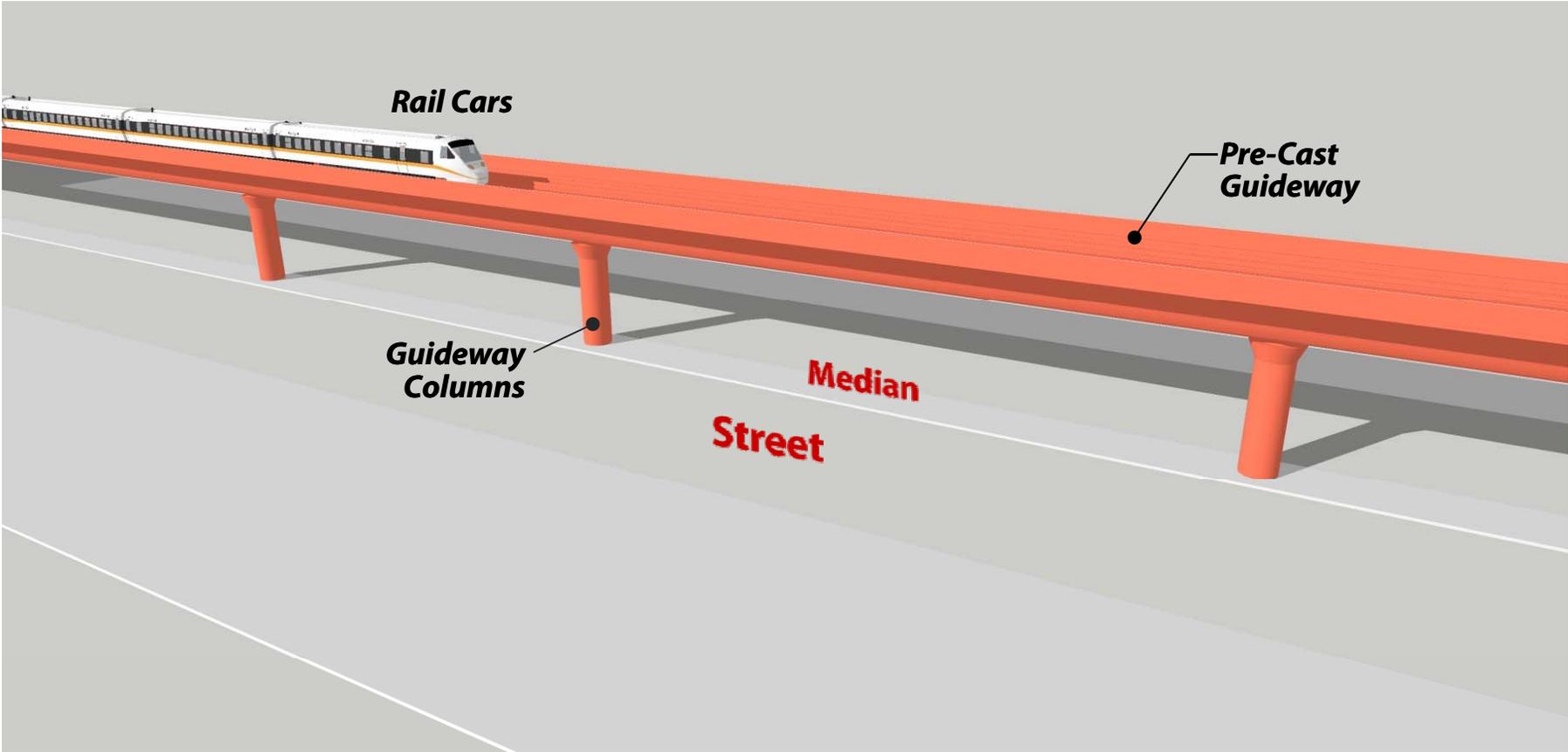
Project Update



Station Specific Workshop Schedule

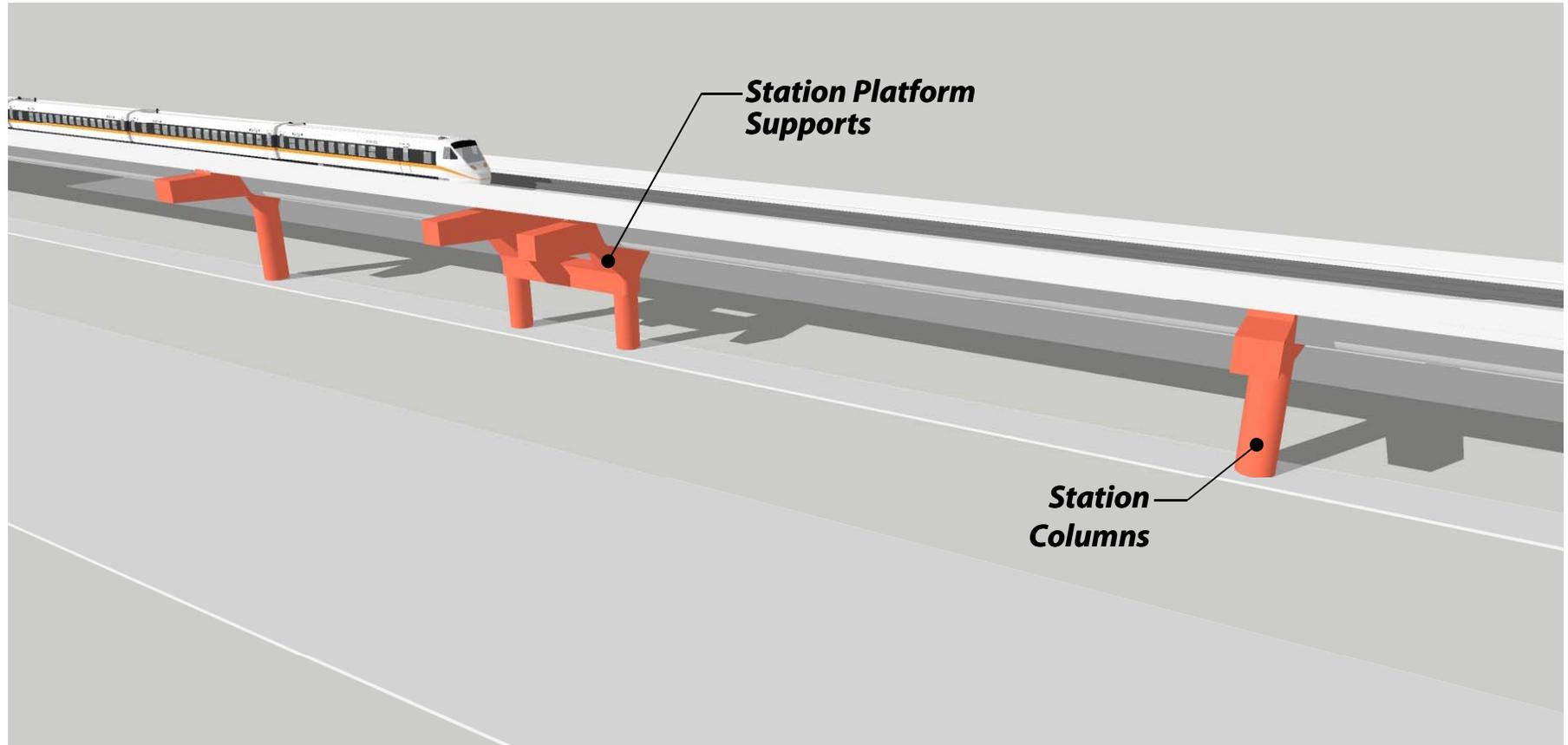
<u>Station Group</u>	<u>Workshop #1</u>	<u>Workshop #2</u>
Farrington Highway Station Group	March 2011	February 2013
West O`ahu Station Group	June 2011	June 2013
Kamehameha Highway Station Group	March 2013	August 2013
Airport Station Group	April 2013	October 2013
Dillingham Station Group	January 2014	August 2014
City Center Station Group	January 2014	August 2014

Station Standard Components & Function



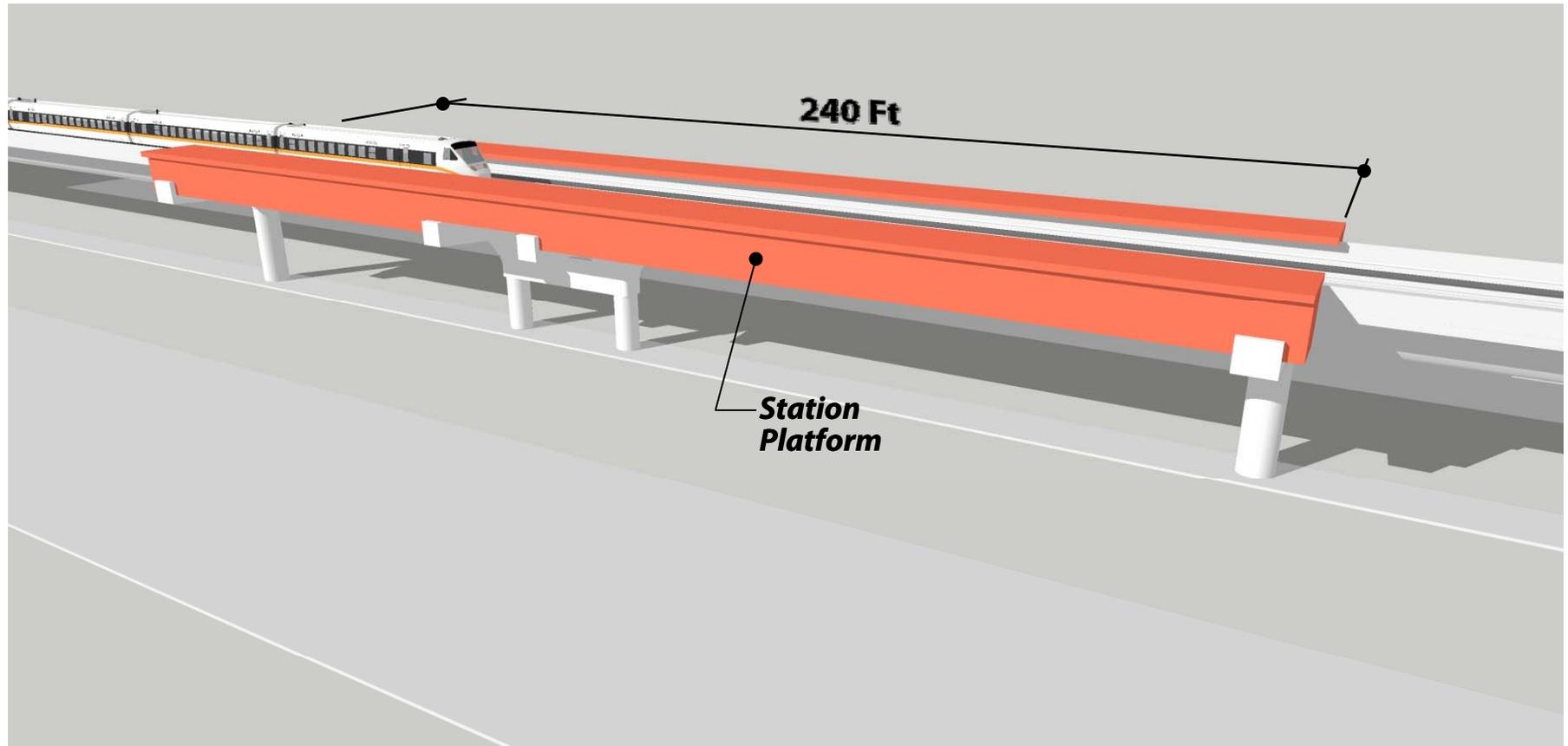
Guideway and Columns

Station Standard Components & Function



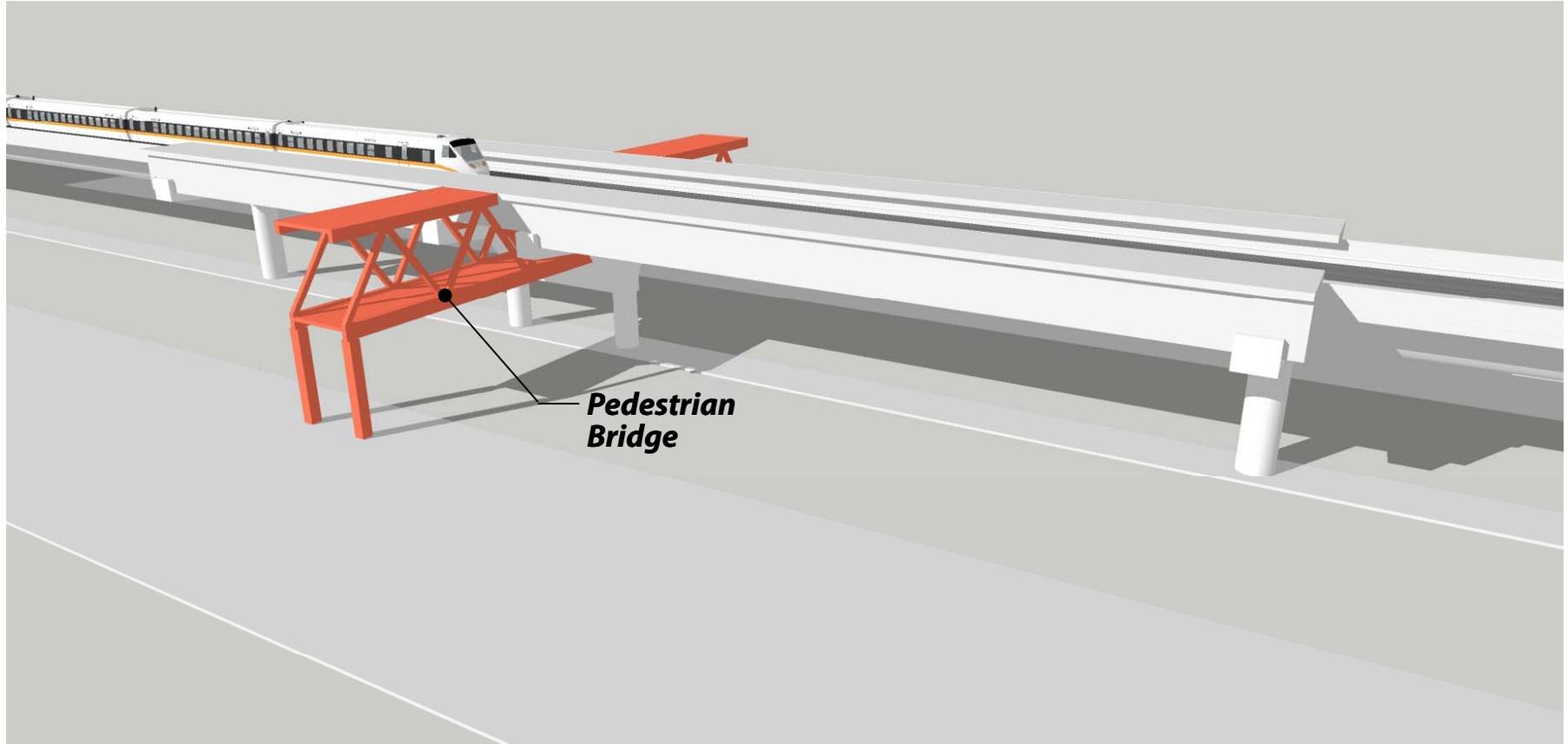
Station Columns & Outrigger Supports

Station Standard Components & Function



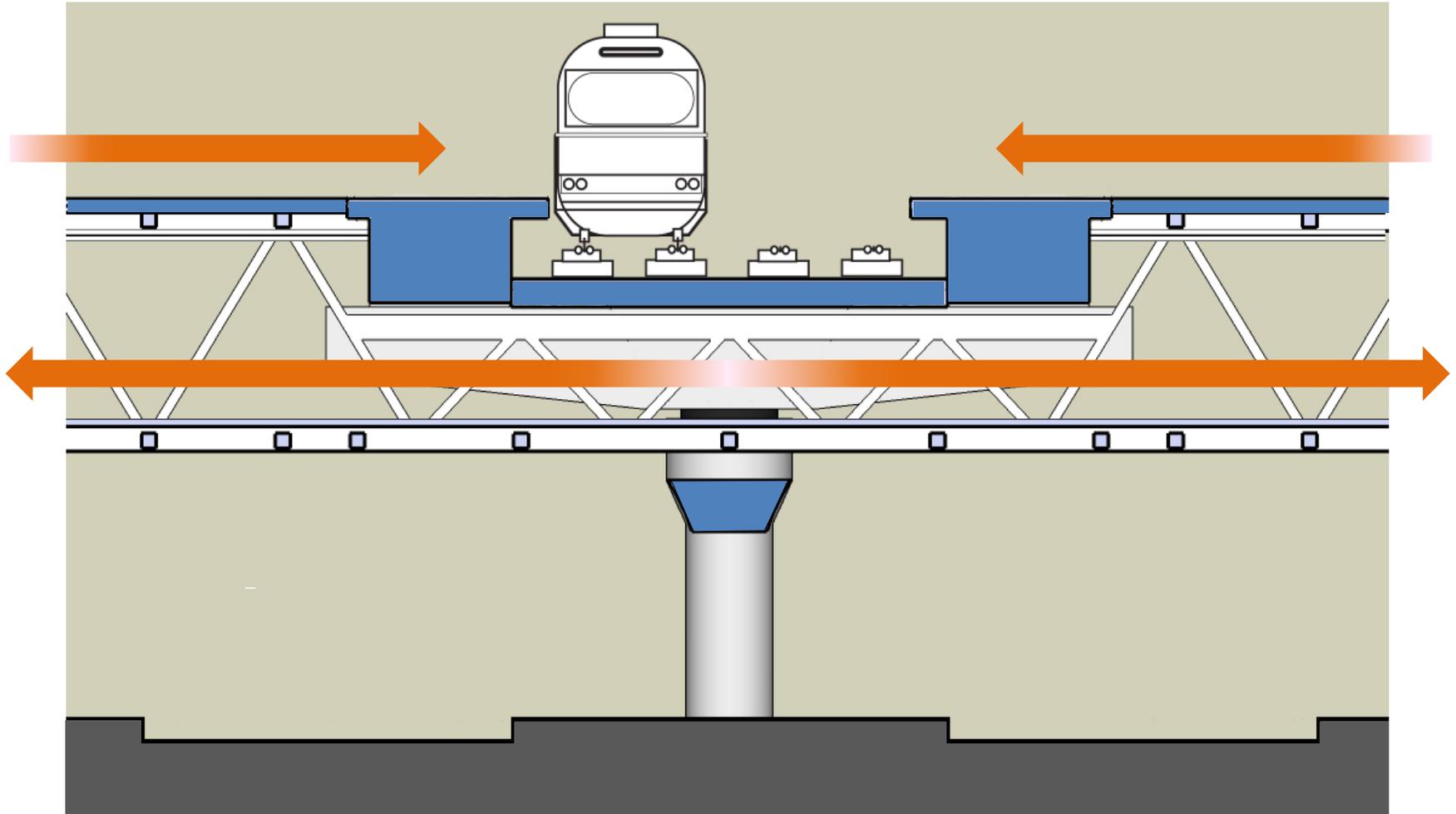
Platforms

Station Standard Components & Function



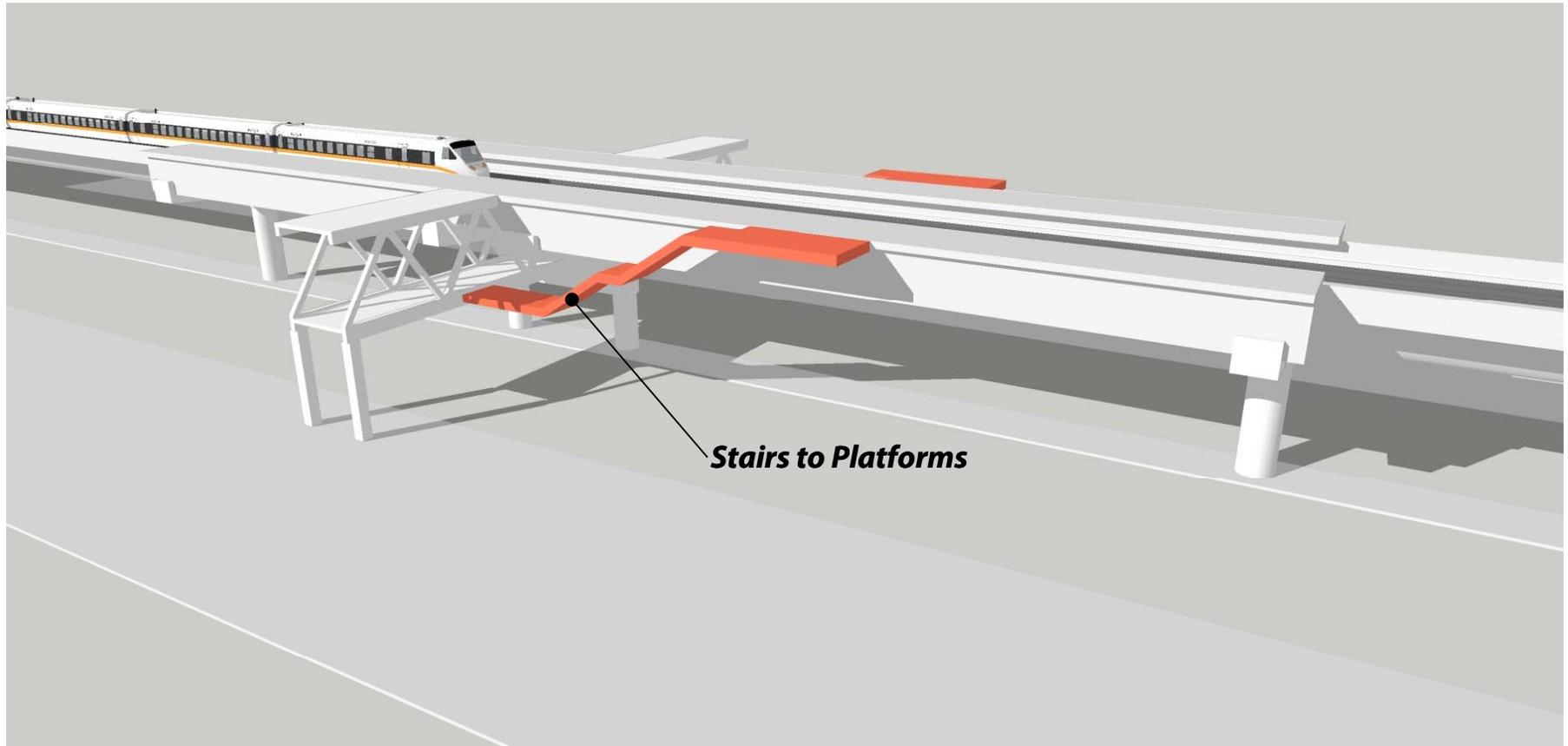
Concourse & Pedestrian Bridges

Station Standard Components & Function



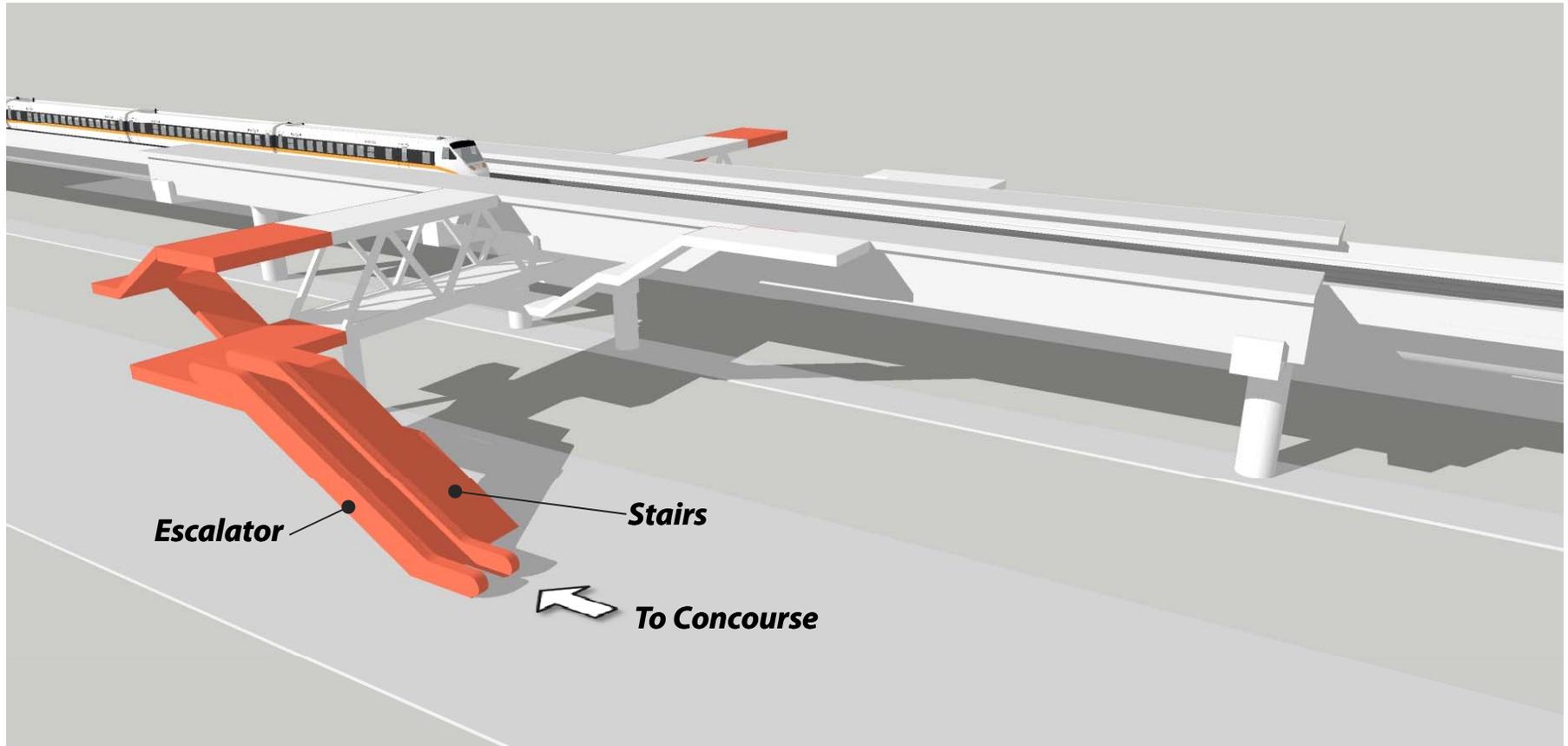
Section Thru Pedestrian Bridge and Platform

Station Standard Components & Function



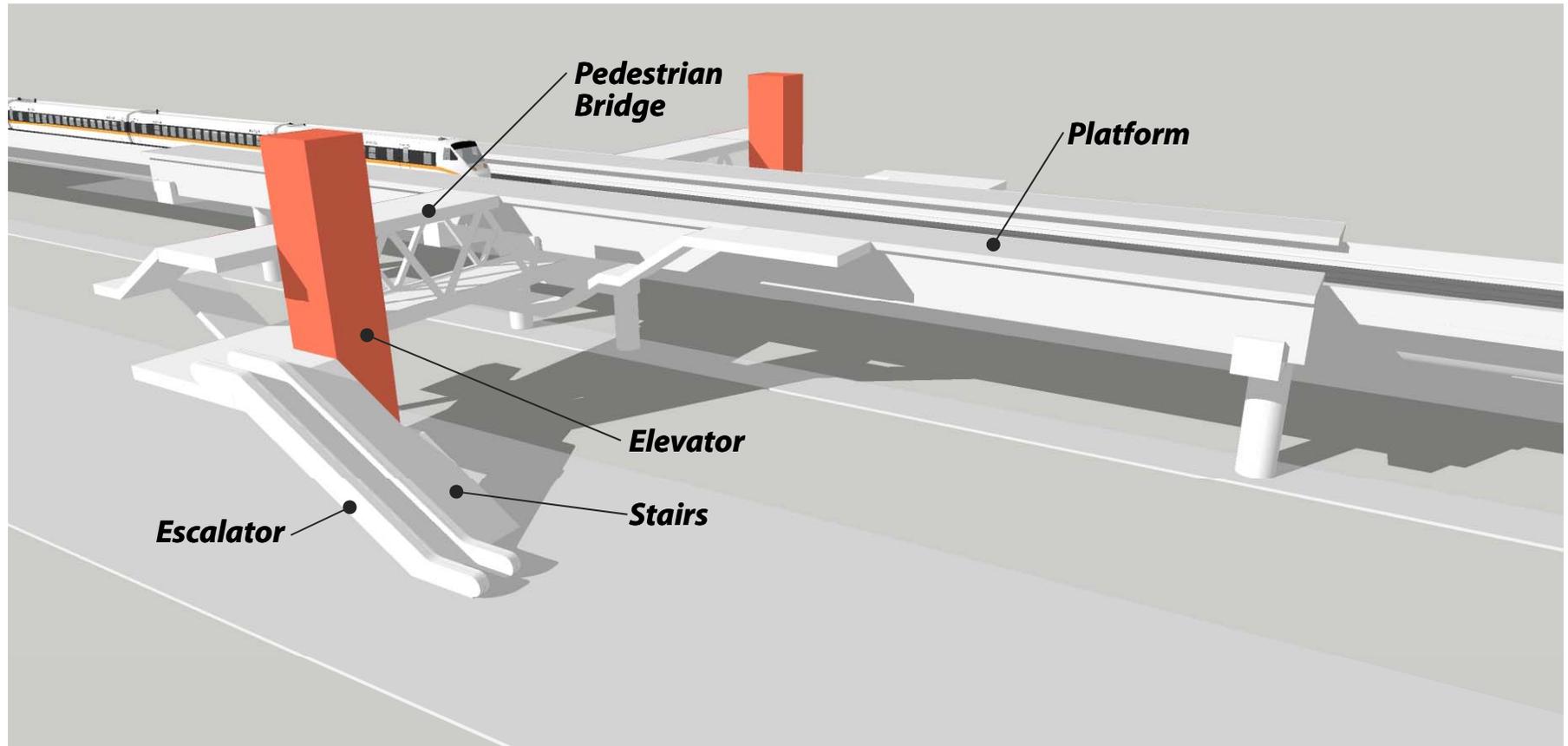
Stairs to Platforms

Station Standard Components & Function



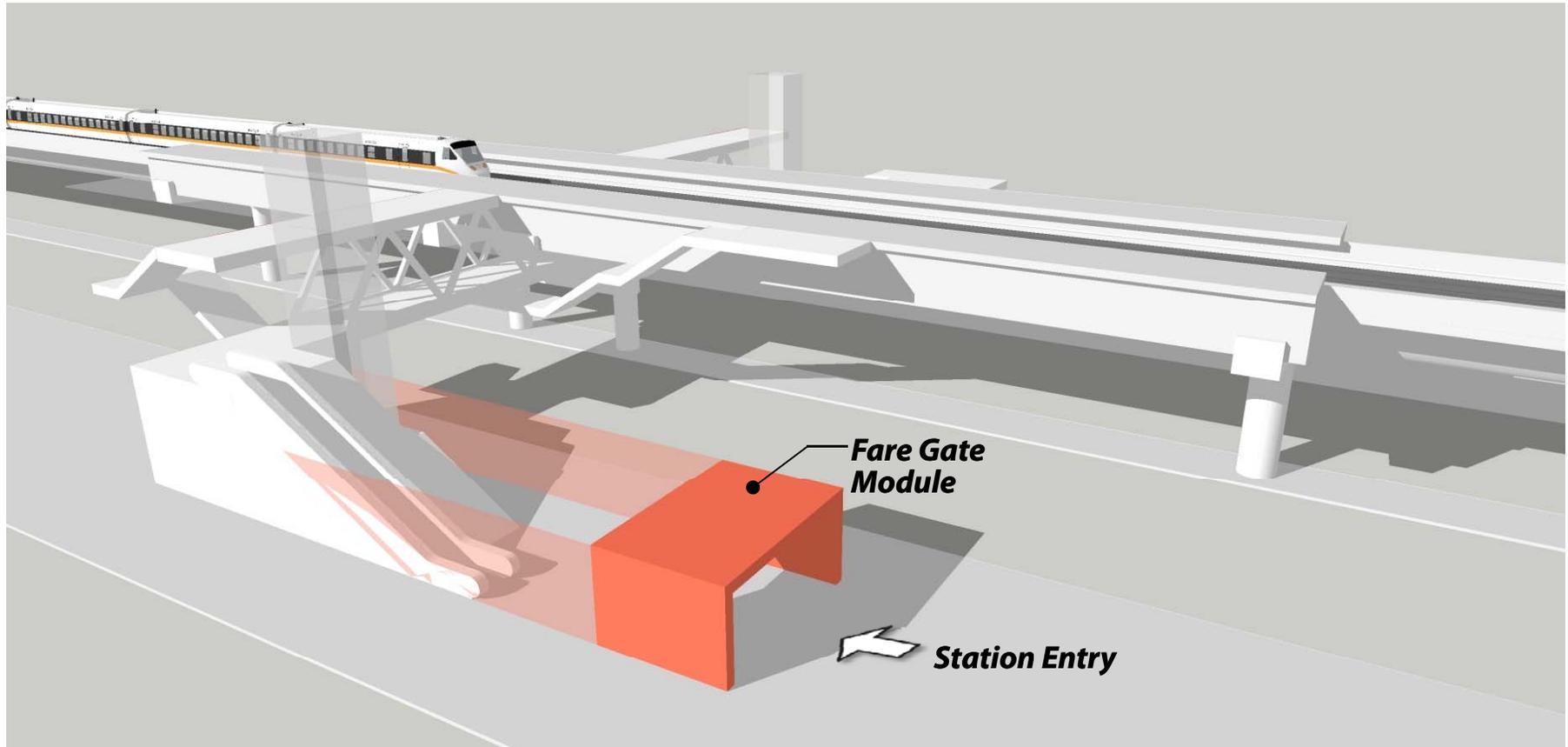
Stairs & Escalators to Concourse

Station Standard Components & Function



Elevators

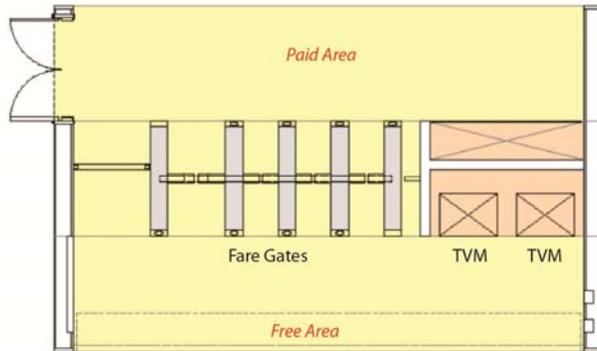
Station Standard Components & Function



Fare Gate Entrances

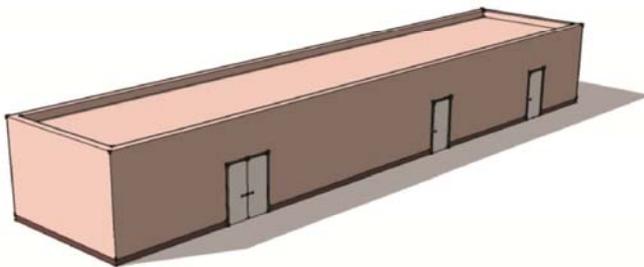
Station Standard Components & Function

1. FARE GATE MODULE

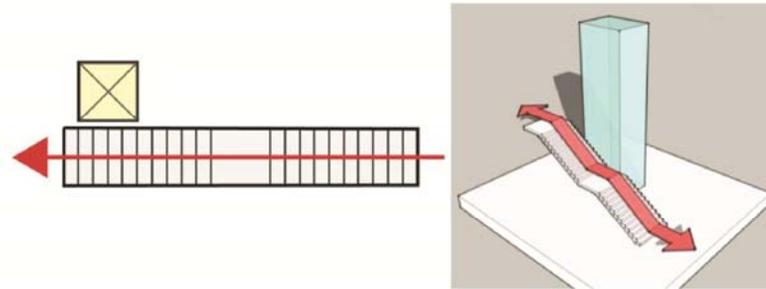


Station Entry

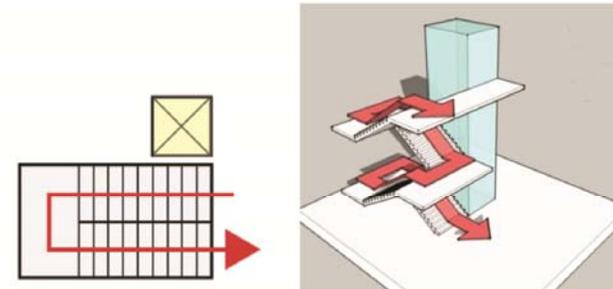
3. ANCILLARY STRUCTURE



2. ENTRY STAIRS



(Type A) Straight Run



(Type B) Switch Back

Module Concept

Station Standard Components & Function

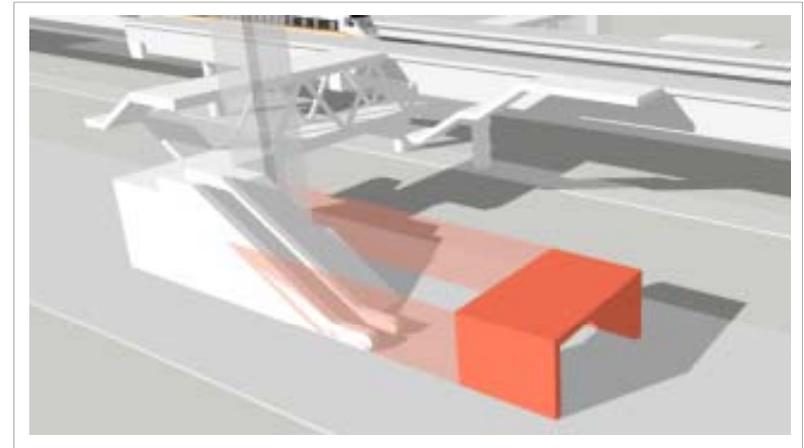
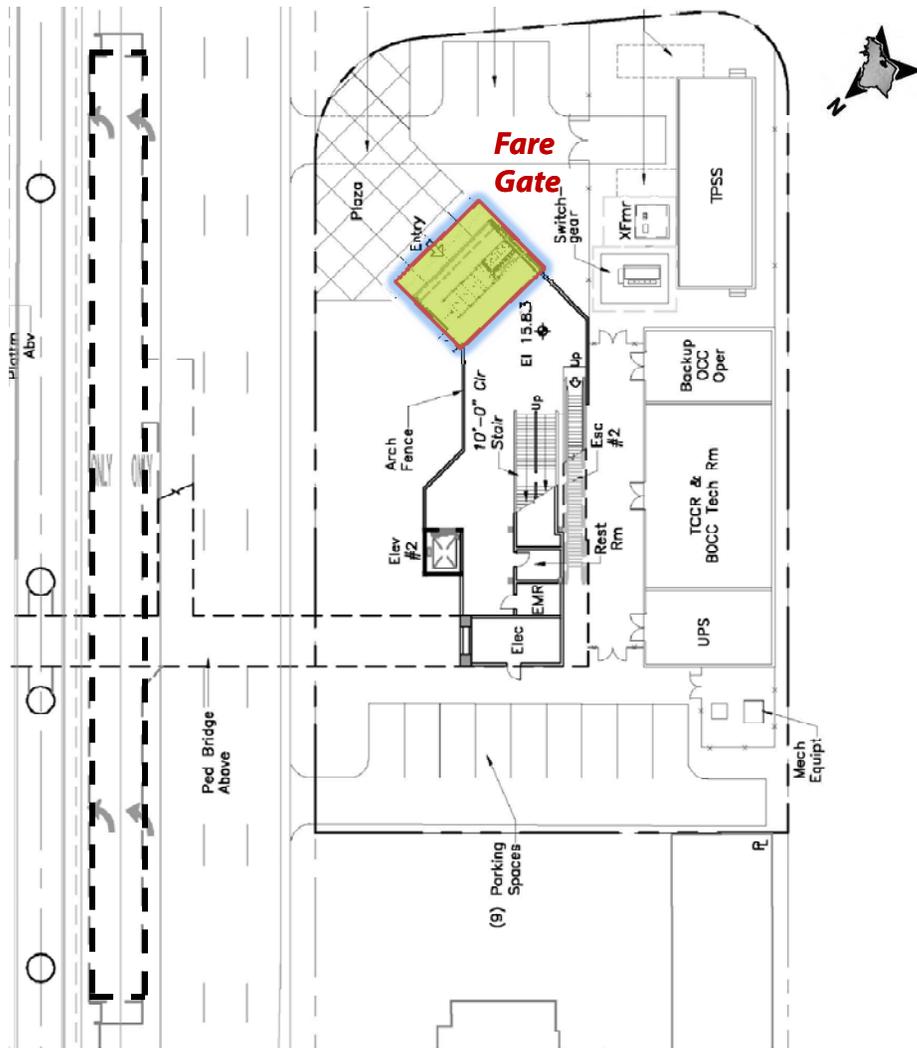
Pearlridge Station



Site Plan

Station Standard Components & Function

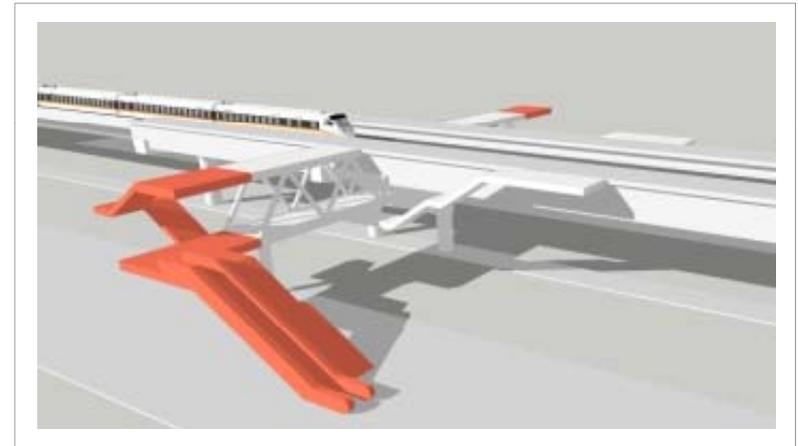
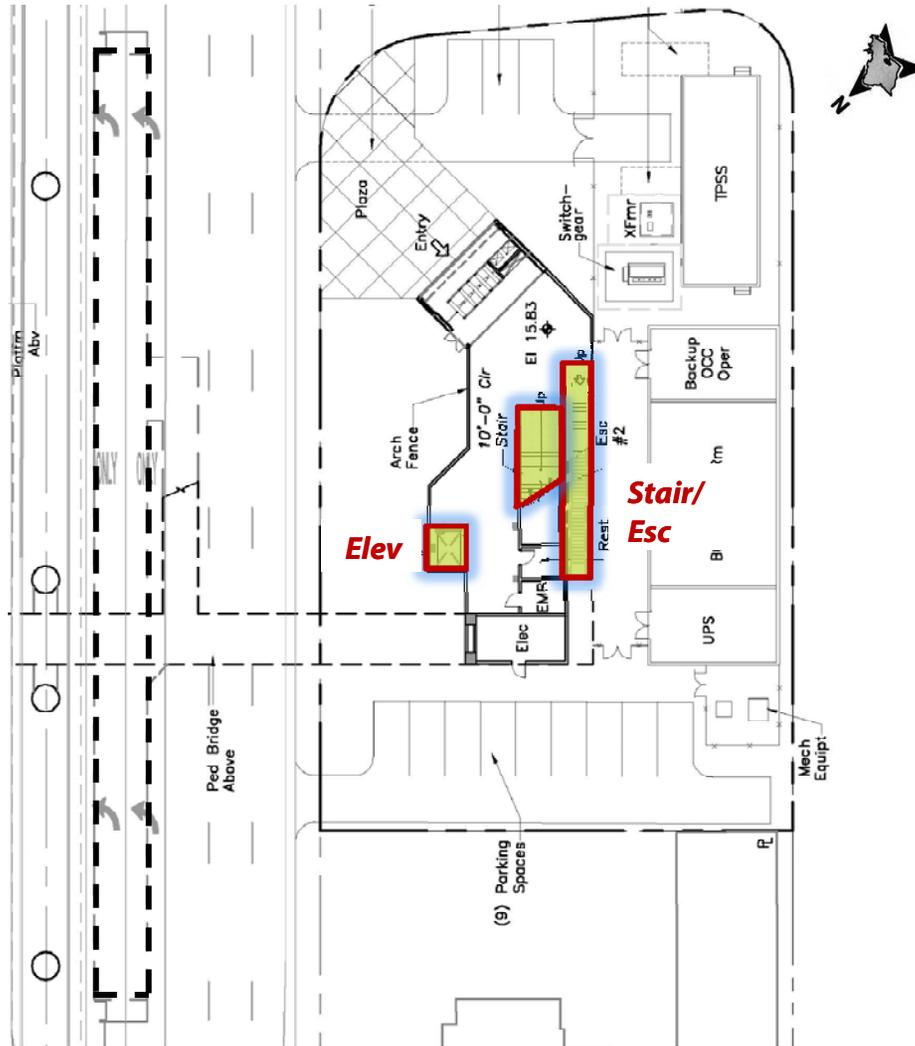
Pearlridge Station



Ground Level Plan

Station Standard Components & Function

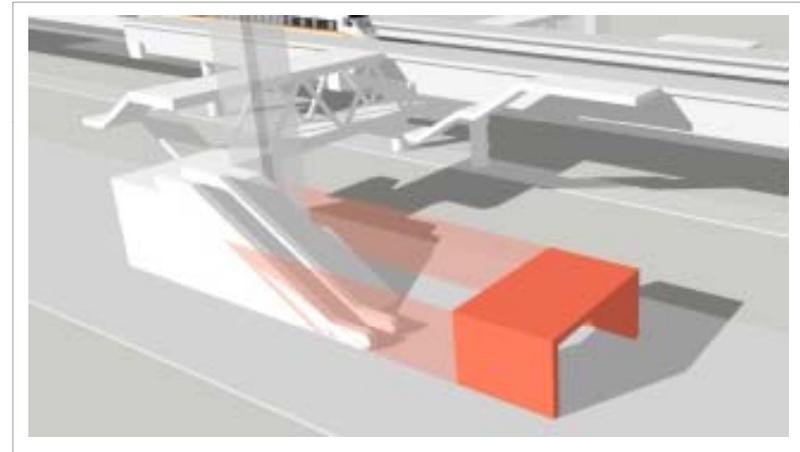
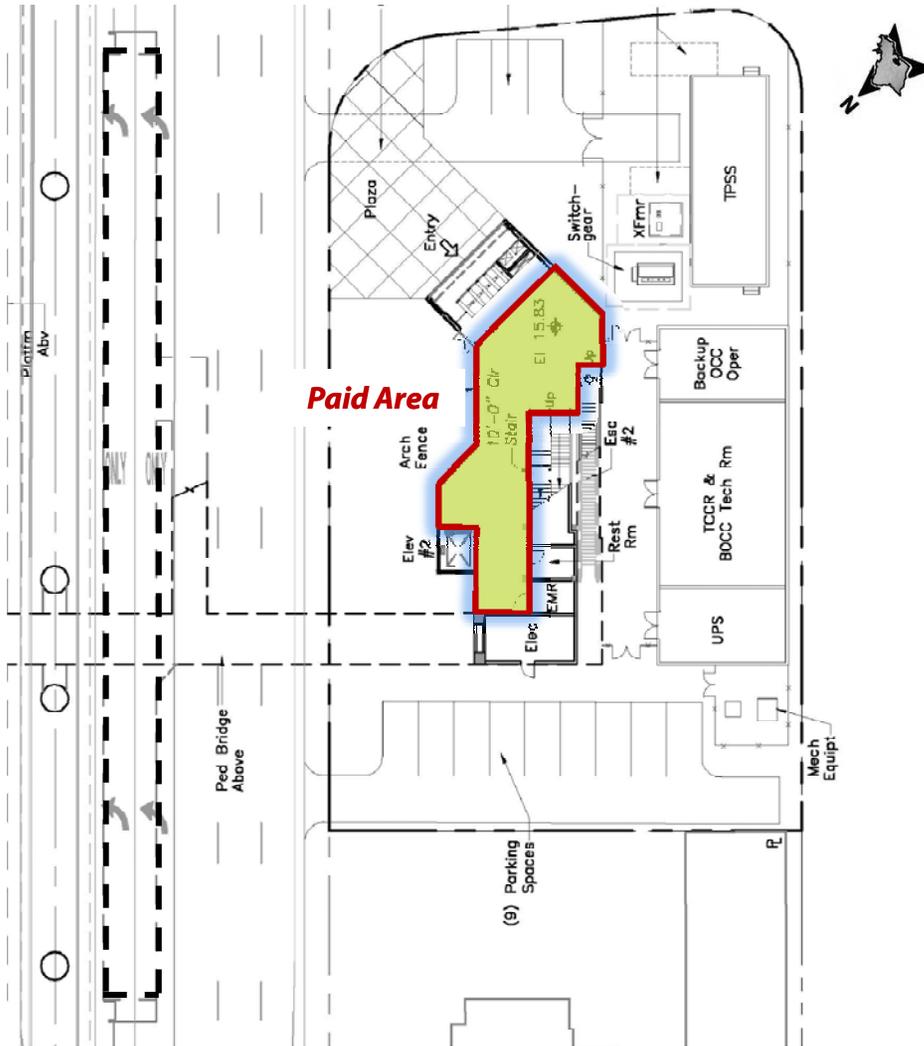
Pearlridge Station



Ground Level Plan

Station Standard Components & Function

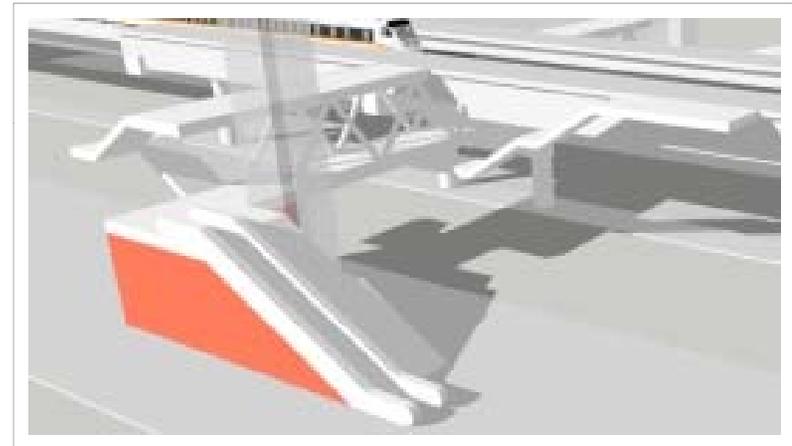
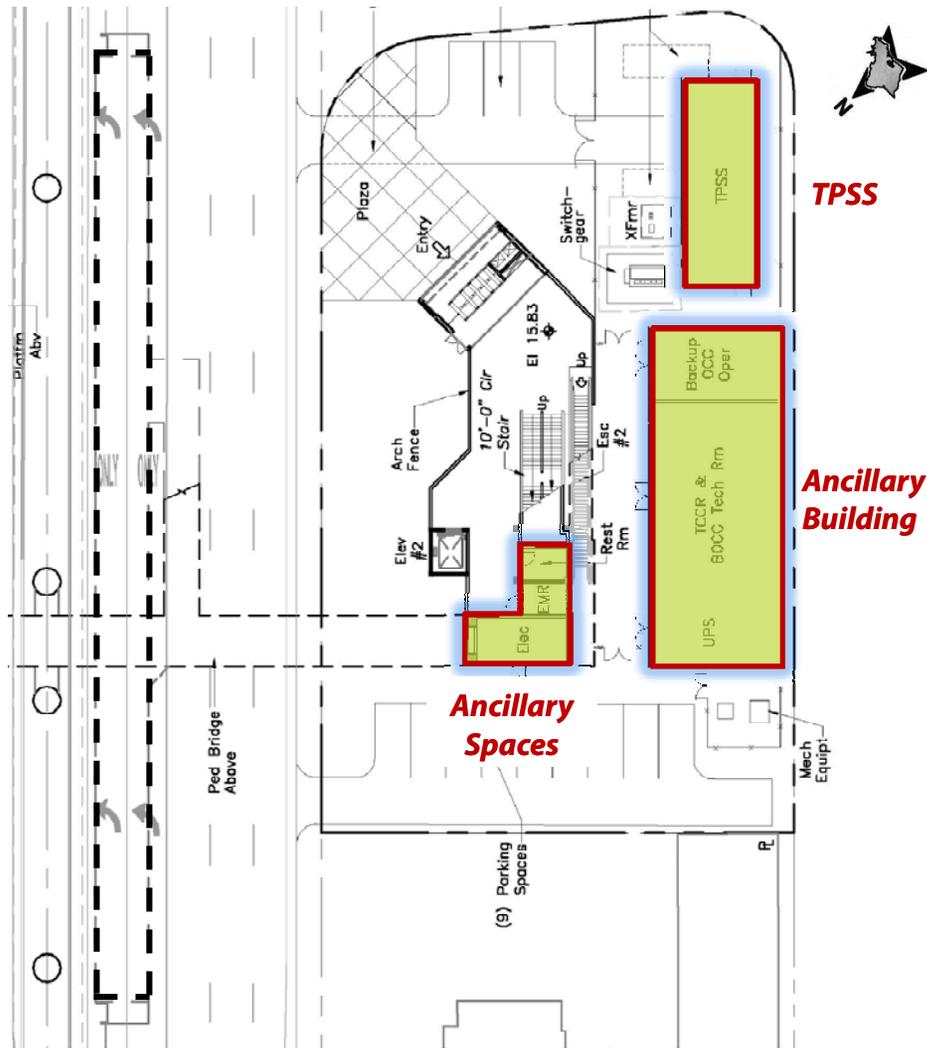
Pearlridge Station



Ground Level Plan

Station Standard Components & Function

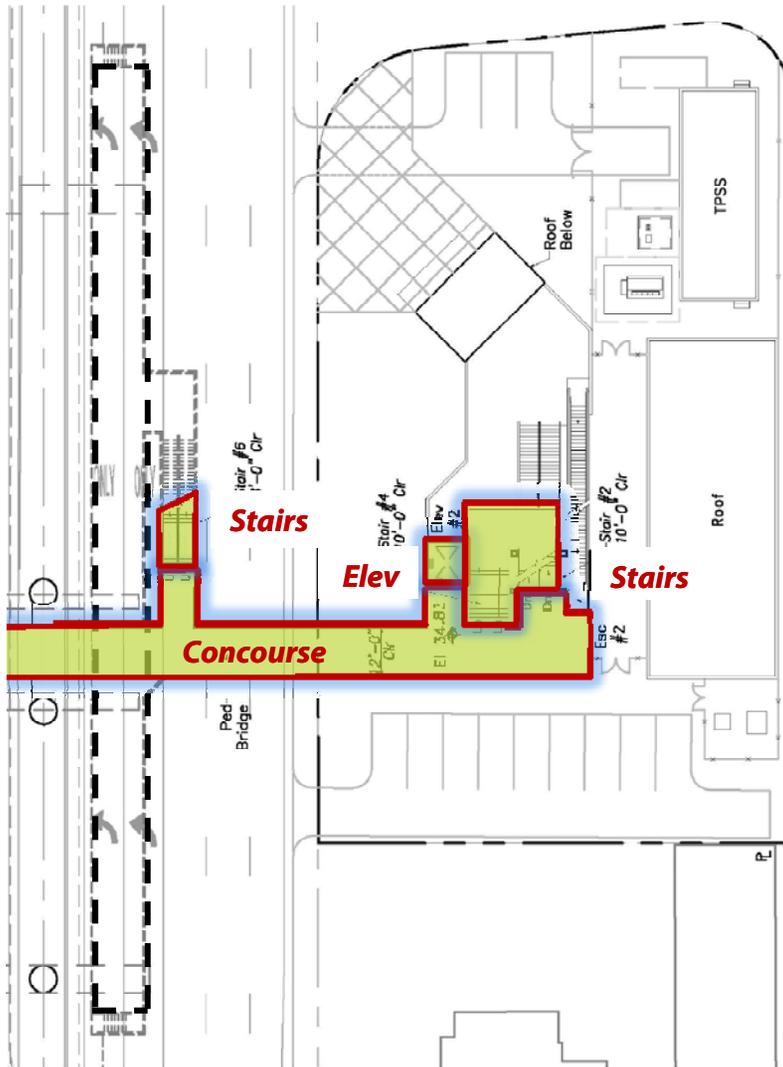
Pearlridge Station



Ground Level Plan

Station Standard Components & Function

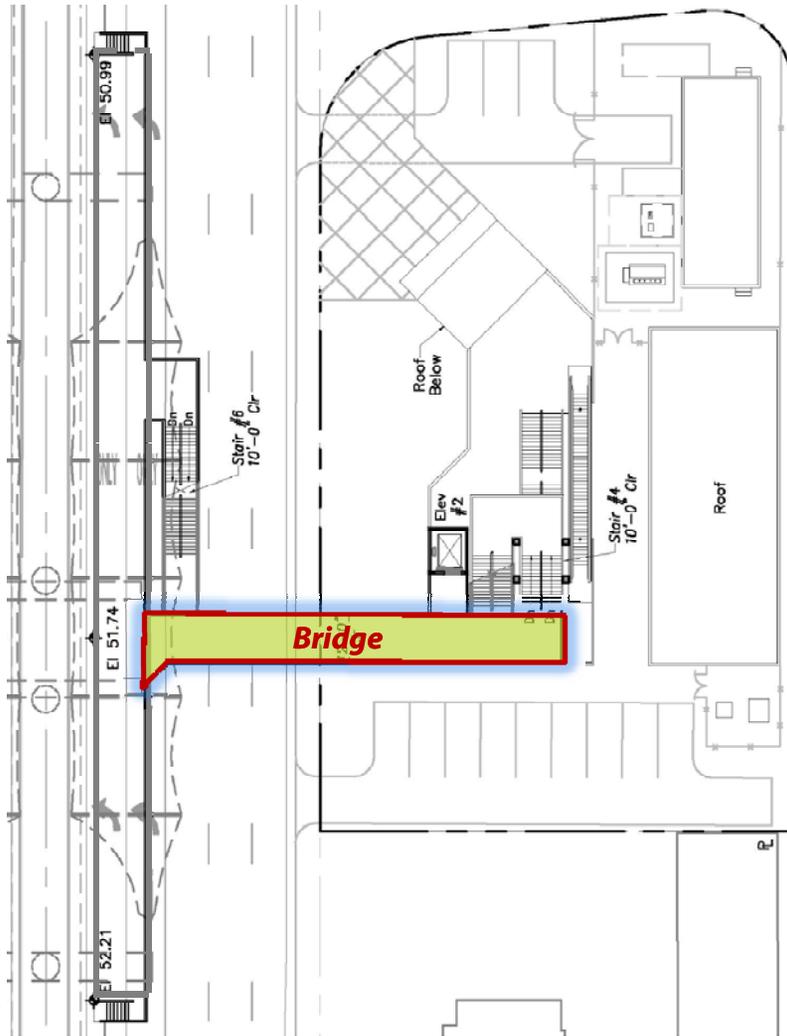
Pearlridge Station



Concourse Level Plan

Station Standard Components & Function

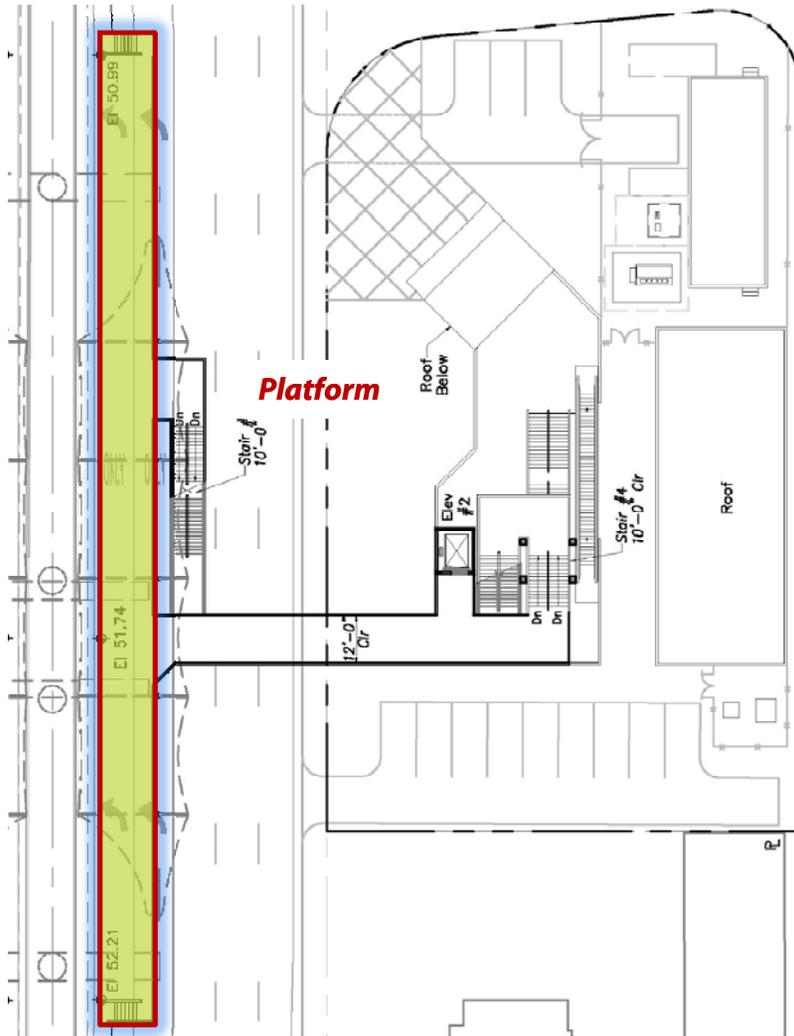
Pearlridge Station



Platform Level Plan

Station Standard Components & Function

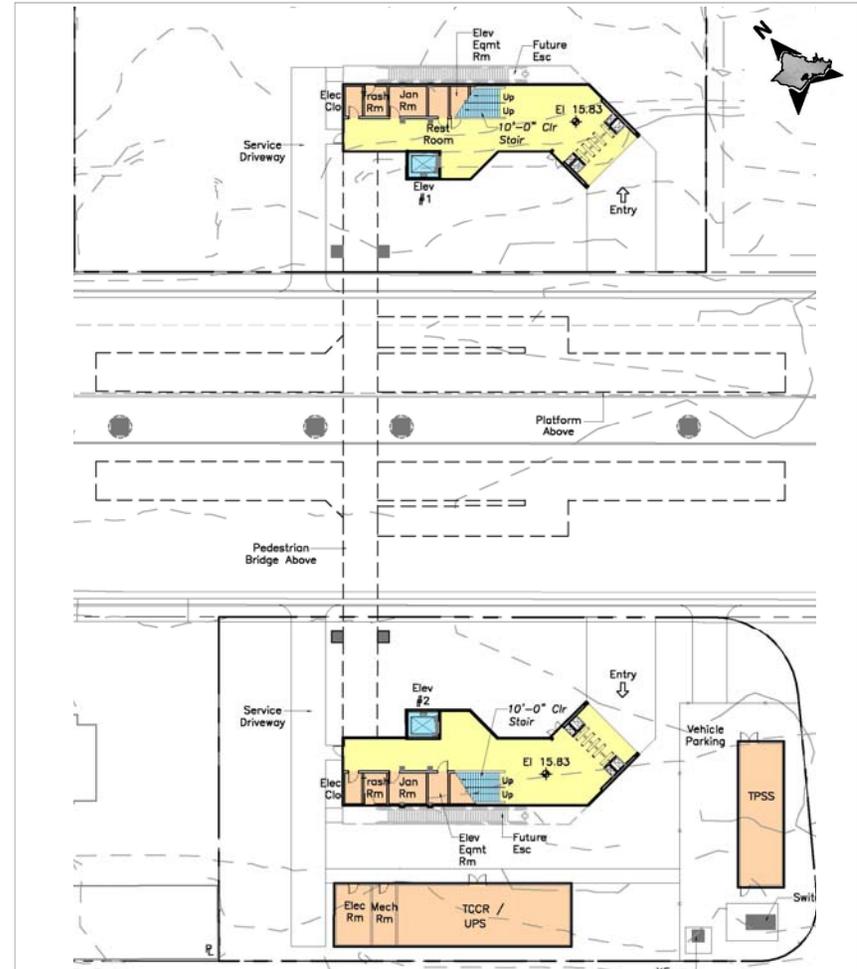
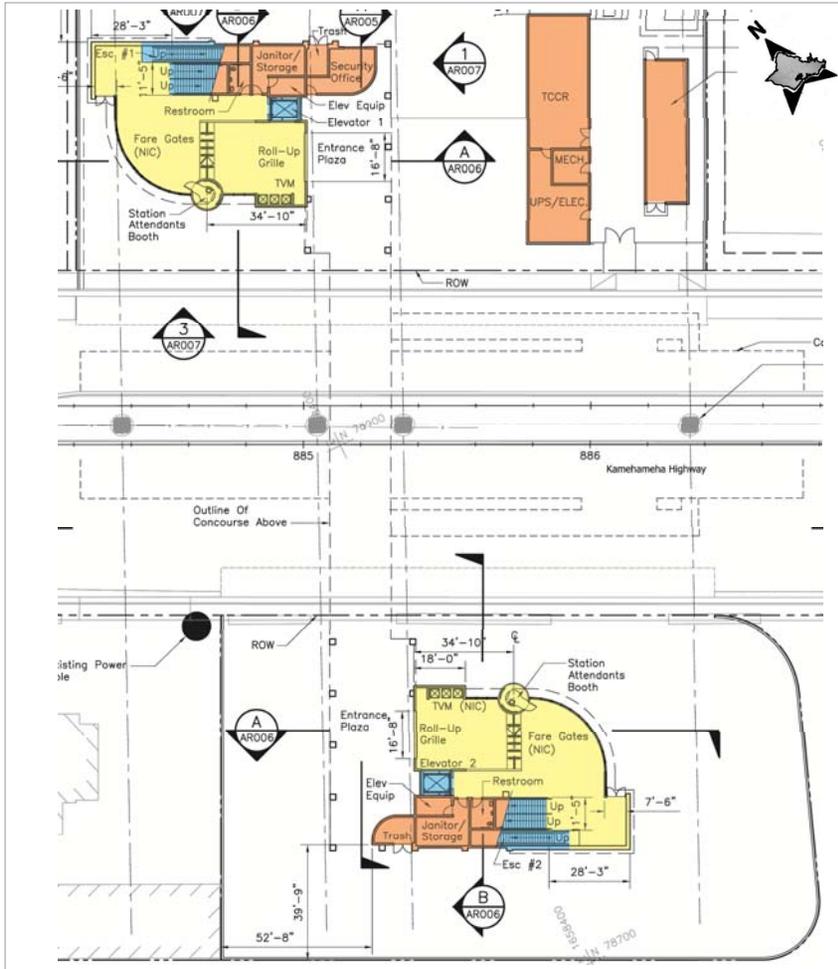
Pearlridge Station



Platform Level Plan

Value Engineering

Pearlridge Station



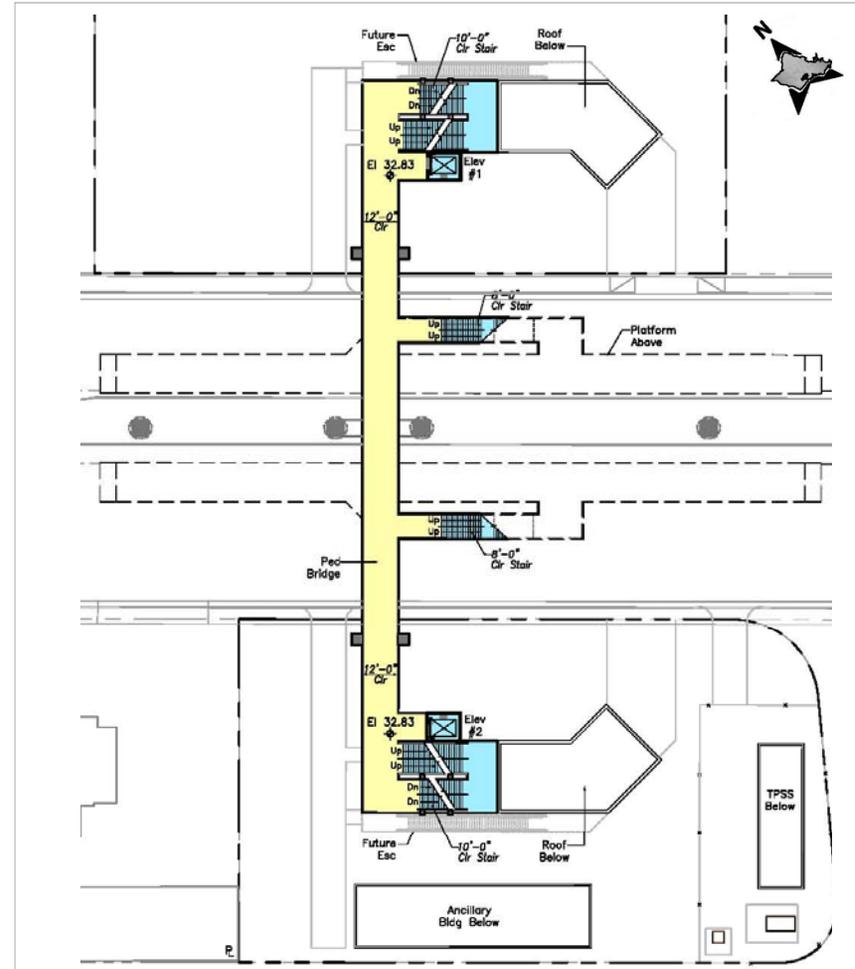
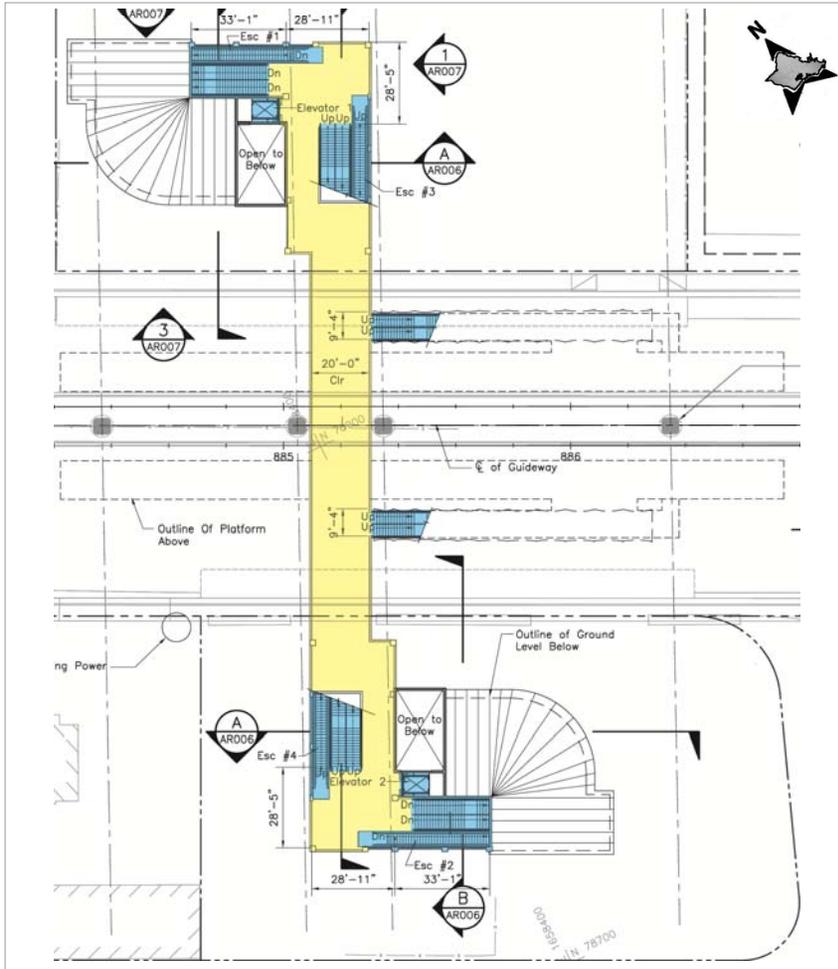
Preliminary Engineering

Ground Level Plan

Module Concept
26% Reduction
In Area

Value Engineering

Pearlridge Station



Preliminary Engineering

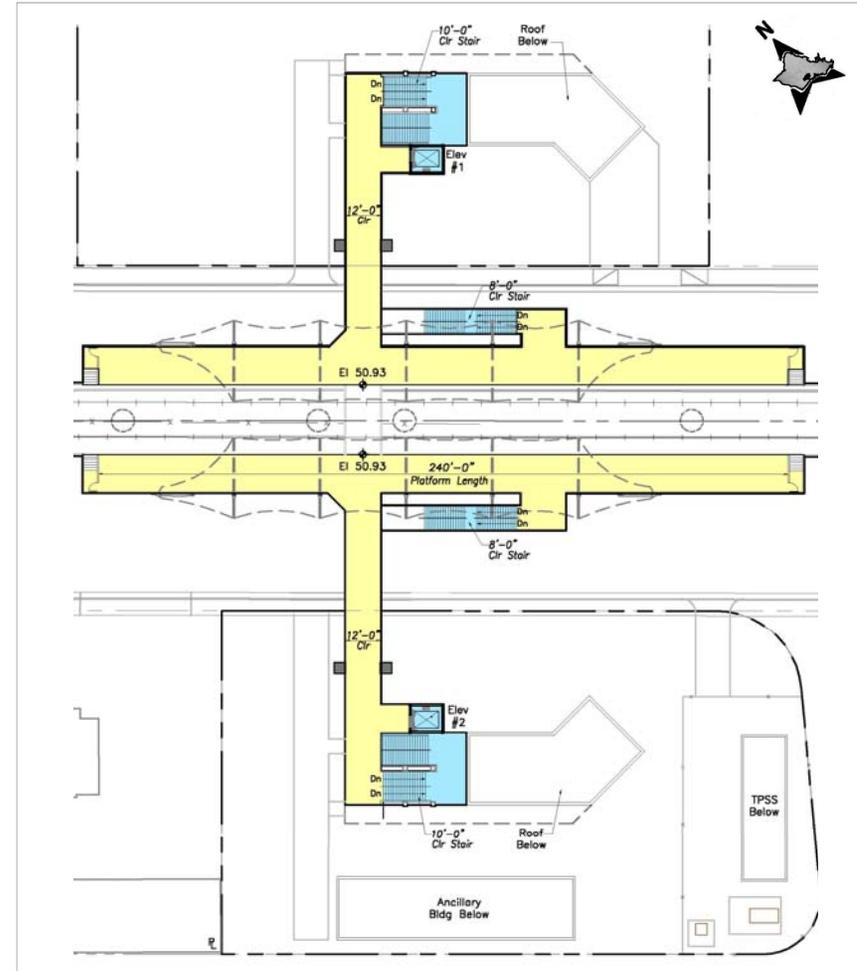
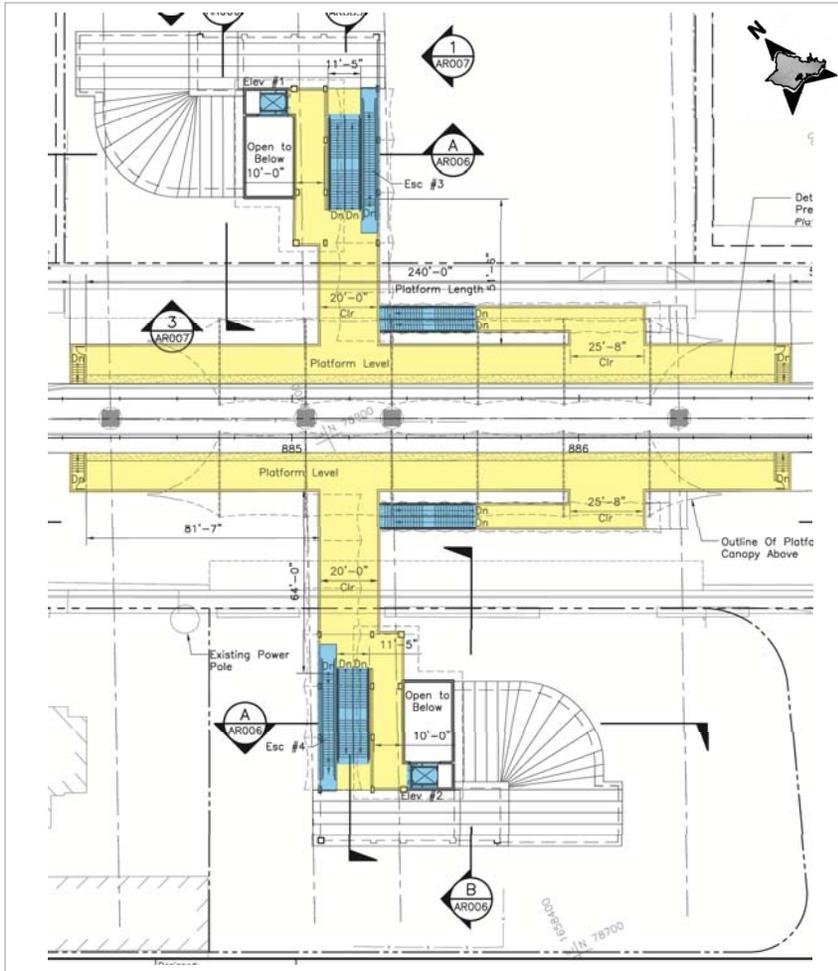
Concourse Level Plan

Module Concept
26% Reduction
In Area

25

Value Engineering

Pearlridge Station

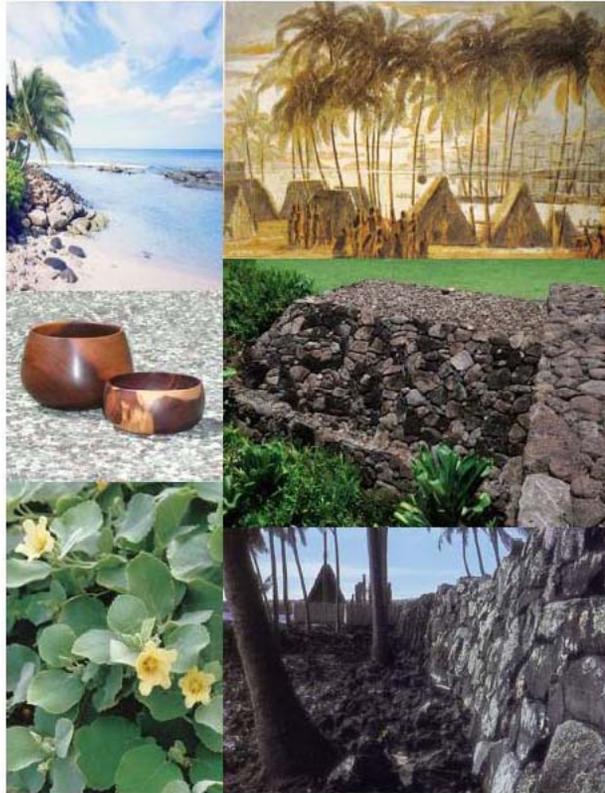


Preliminary Engineering

Module Concept
26% Reduction
In Area

Platform Level Plan

Design Language Pattern Book



DESIGN LANGUAGE PATTERN BOOK

HONOLULU HIGH CAPACITY TRANSIT CORRIDOR PROJECT

HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

1

TASK 16D
FINAL OCTOBER 2015

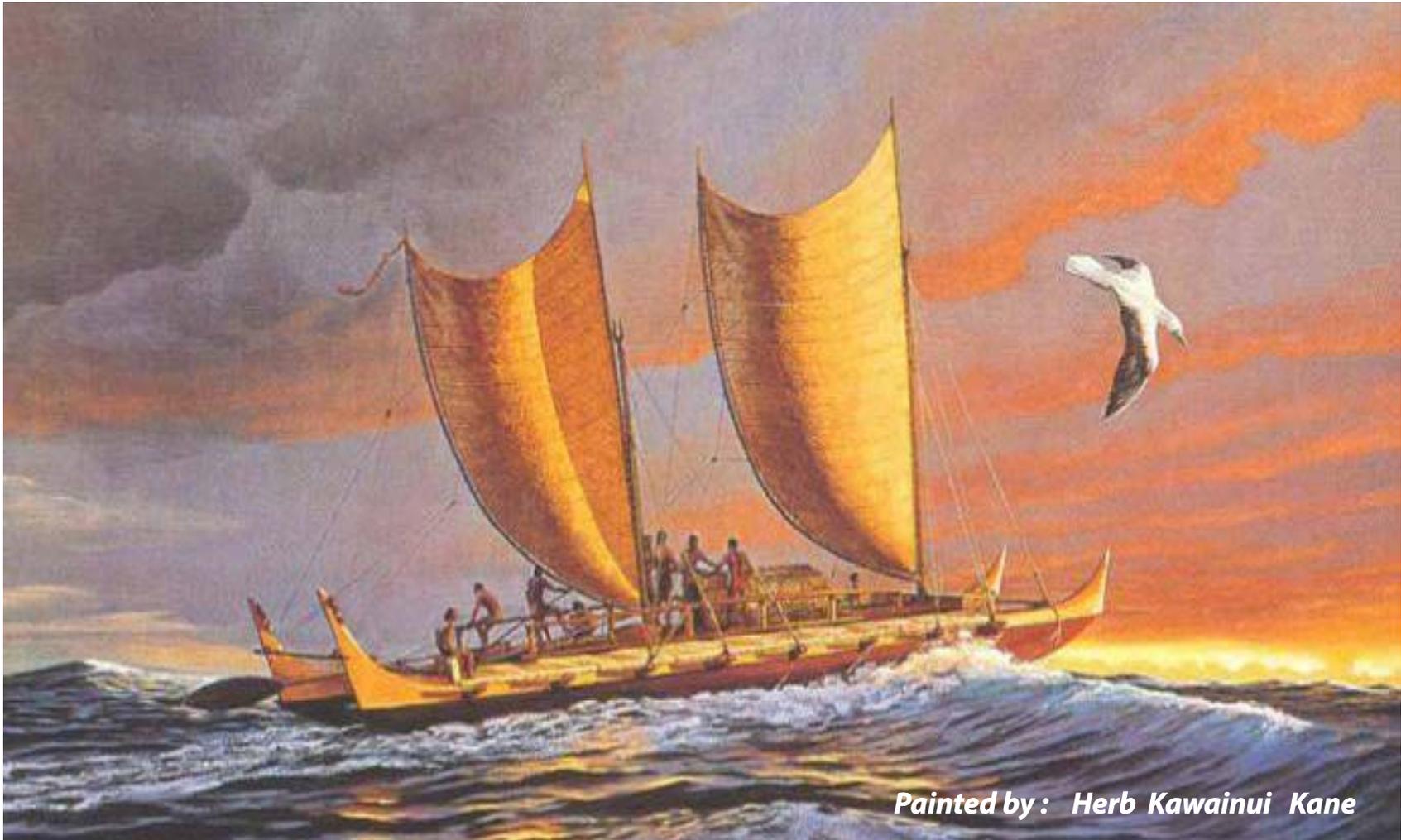
“The ultimate goal of the system’s unified design language will be achievement of the iconic status of Honolulu’s transit system.”

-Design Language Pattern Book

“As in any complex design exercise for public projects; site conditions, site circumstances, technical issues, budgets and numerous other considerations will shape final design.”

-Design Language Pattern Book

Design Language Pattern Book



Painted by: Herb Kawainui Kane

Inspiration for Platform Canopy

Design Language Pattern Book



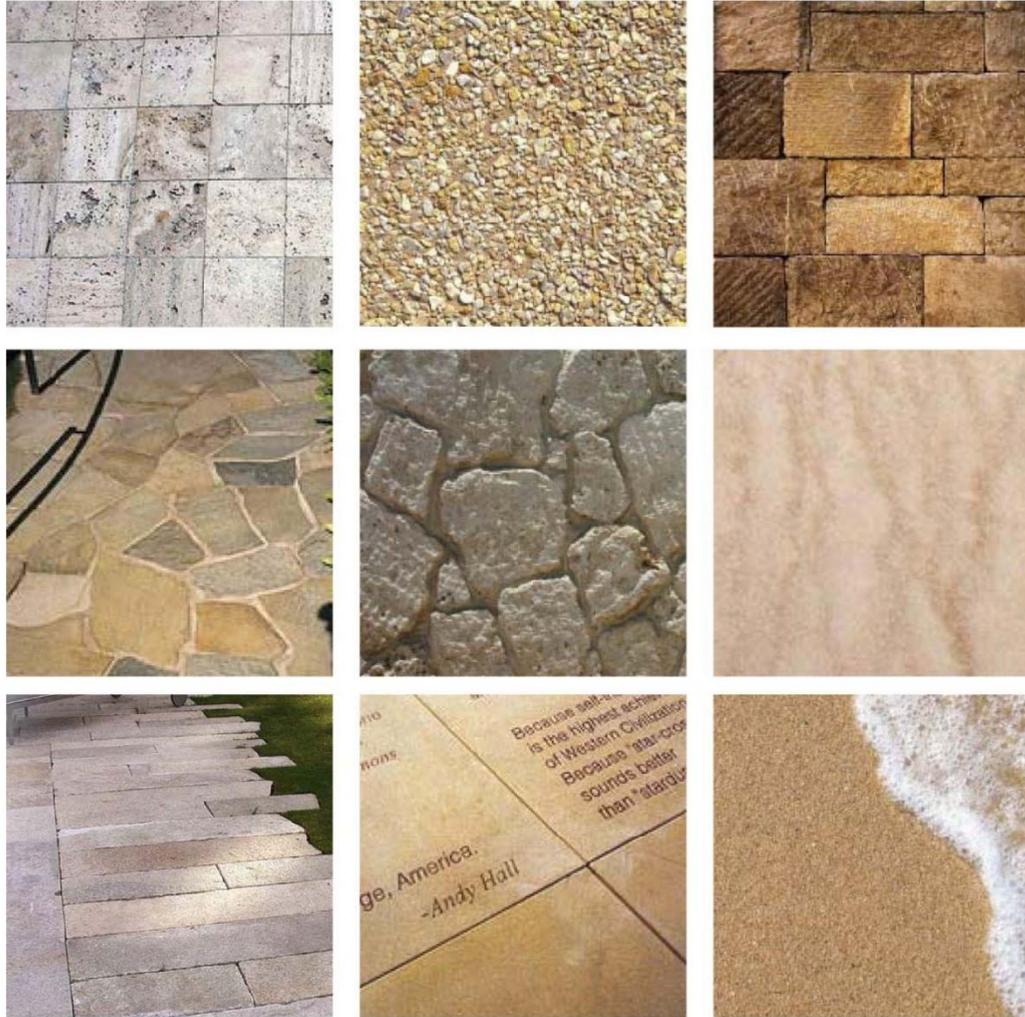
Architectural Rendering of Platform Canopy

Design Language Pattern Book



Architectural Rendering of Platform Canopy

Aesthetic Treatment and Materials



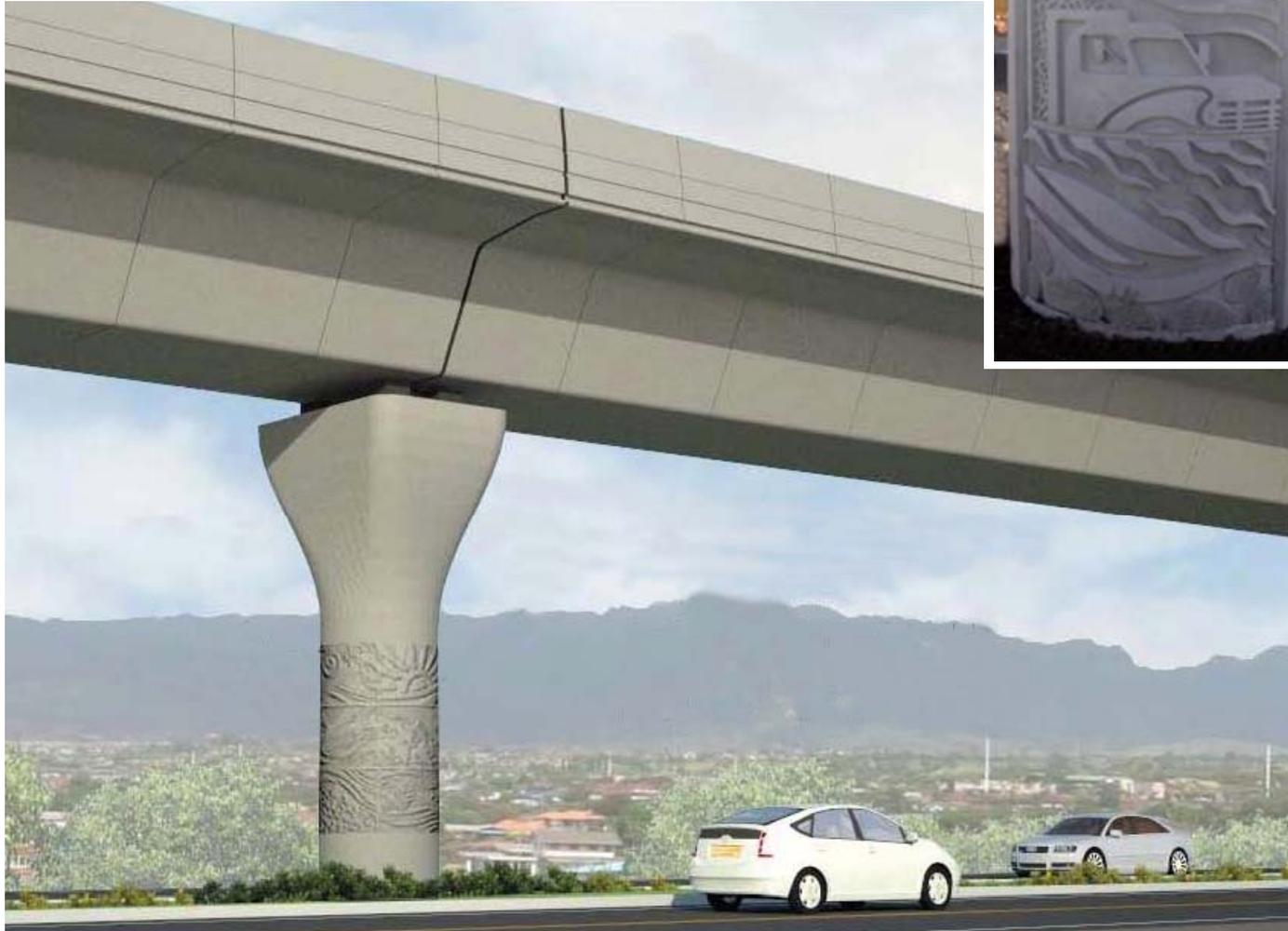
Landscaping

Aesthetic Treatment and Materials



Plaza Paving Materials & Patterns

Aesthetic Treatment and Materials



Aesthetic Treatment and Materials

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...



Interpretive Signage

Hawaiian Quilts: Lei of Love

The boldly 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, entwined, braided, or knotted to form *lei*. An integral part of everyday life, early 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.”



Hula dancers bedecked in lei, pre-1900s



Wearing a variety of flower and seed lei, hula dancers pose in the studio, pre-1900s

In the language of Hawaiian chant, music and dance, many words had hidden meanings (*kaona*). Poetic references to *lei* really spoke of love and lovemaking. “Fragrant ginger, *‘ilima*, *lehua*, *maile* and fern” described the sweethearts themselves. Beloved children, *nā puu* (flowers), also were called *lei*. Romantic love also found expression in the mists, rains, and the coolness of the upland forests. Many of the old Hawaiian quilt pattern names were likewise “shrouded in the mists of metaphor.” Where more fitting than on their *kapa*—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 *‘ohana* (family) lest some harm befall the maker. Quilts

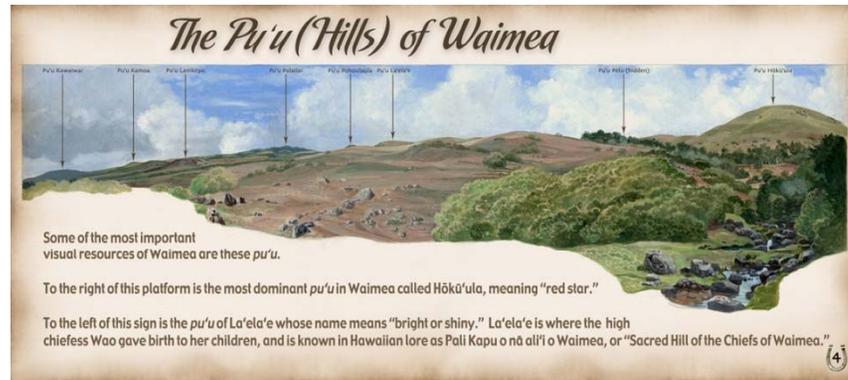
might be burned on the death of the quilt maker, or the quilter might be buried with her quilts in much the same way that *lei* might be dismantled or burned.

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.



Hula Dancers at Iolani Palace, Kalia's birthday, 1886

Mission Houses Museum, Honolulu



Some of the most important visual resources of Waimea are these pu'u.

To the right of this platform is the most dominant pu'u in Waimea called Hōkū'ula, meaning “red star.”

To the left of this sign is the pu'u of La'e'le'a whose name means “bright or shiny.” La'e'le'a is where the high chiefess Wao gave birth to her children, and is known in Hawaiian lore as Pali Kapu o nā alii o Waimea, or “Sacred Hill of the Chiefs of Waimea.”

Anna Ranch Heritage Center Trail, Kohala

Canal Plants and Wildlife

AGRICULTURAL USE ALONG THE CANAL

The Puna species, including *Kapa*, *Wipuwai*, and *Waihu*, would have been a part of the Waipuna system and the transportation network of the Puna system. The Puna species were used for various purposes, such as *Ohia* and *Bau*, which were common in lowland conditions but in modern times are more abundant at higher elevations. The forest of Puna also included *Leucaena*, which provided habitat for many species of birds native to Kauai, such as the *Maui* and the *Noddy*, as well as *Leucaena* itself. The forest of Puna also included *Leucaena*, which provided habitat for many species of birds native to Kauai, such as the *Maui* and the *Noddy*, as well as *Leucaena* itself. The forest of Puna also included *Leucaena*, which provided habitat for many species of birds native to Kauai, such as the *Maui* and the *Noddy*, as well as *Leucaena* itself.

HAWAIIAN MONK SEAL

Hawaiian monk seals may be seen swimming and basking in the canal or resting along its banks. Among the world's most critically endangered marine mammals, only about 1,200 Hawaiian monk seals remain in the wild.

Most Hawaiian monk seals live in the Northwestern Hawaiian Islands, with a small population around Kure and the other main Hawaiian Islands. Monk seals eat a variety of fish species, as well as squid, octopus, jellyfish, and seaweed. They also eat marine mammals, such as porpoises, dolphins, and whales. Monk seals are born on the beach, and the mother stays with her pup for about five to seven weeks. Nursing mother seals fast during this period and lose about one-third of their body weight, while the pups gain about 25 pounds or almost 100 pounds. Threats to monk seals in the main Hawaiian Islands include human disturbance, subsistence hunting, habitat loss, and fishery overfishing.

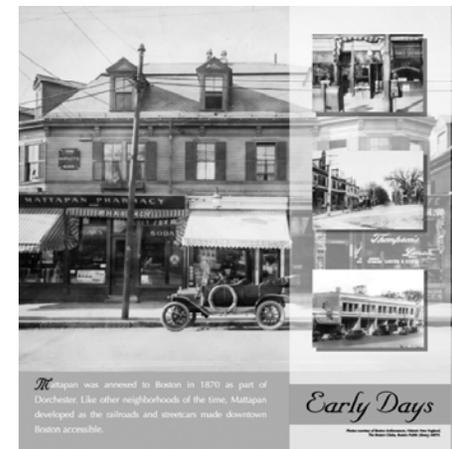
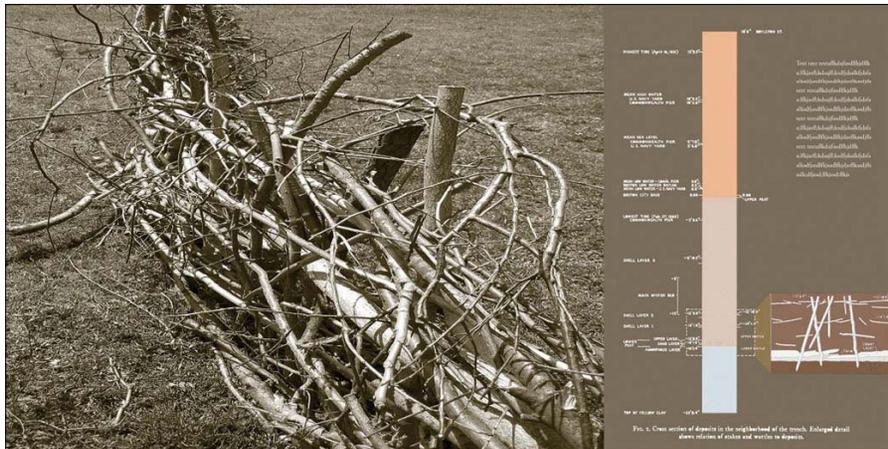
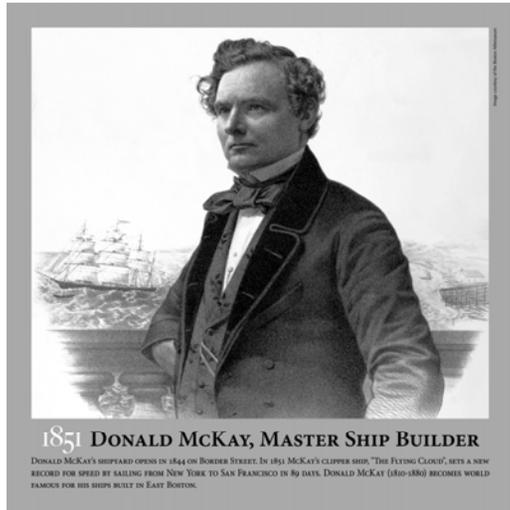
YOU CAN HELP PROTECT HAWAII'S NATIVE MONK SEALS

- Never attempt to feed or approach any seal.
- Observe seals carefully to avoid any disturbance or injury.
- Do not touch, harass, or feed seals. Feeding seals can cause them to become dependent on humans and lose their natural hunting skills.
- Do not approach seals and their pups.
- Please report sightings and injuries to wildlife at 808-933-3333.

Ke Ala Hele o Makalae (East Kaua'i Coastal Shared Path)

Examples of Interpretive Signage in Hawai'i

Interpretive Signage

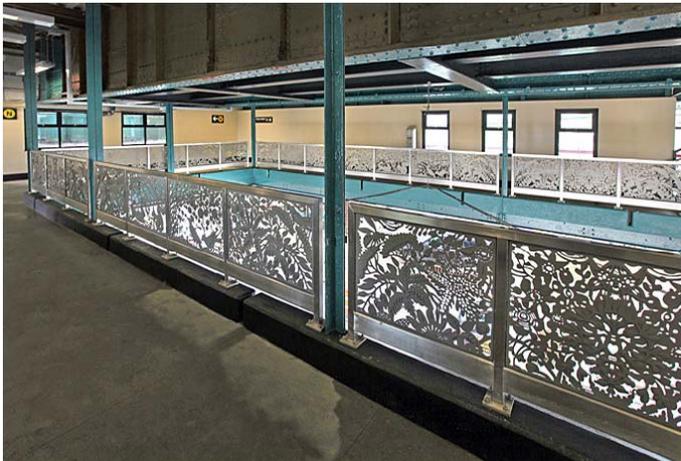


Transit Example: Boston MBTA "T"

Station Art Program



Ben Snead, MTA, New York City Transit



Andrea Dezzo, MTA, New York City Transit



Robert Wilson, MTA, New York City Transit



Doug & Mike Starn, MTA, New York City Transit

Examples of Station Art

Station Art Program



Julie Chang, Transbay Joint Powers Authority, San Francisco



Doug & Mike Starn, MTA, New York City Transit

"...art can be incorporated into facility design, landscaping, and historic preservation, for example through the use of floor or wall tiles that contain artistic design or patterns, use of color, use of materials, lighting, and the overall design of a facility."



Ellen Driscoll, MTA, New York City Transit



Chusien Chang, Metro, Los Angeles

Examples of Station Art

Station Art Program



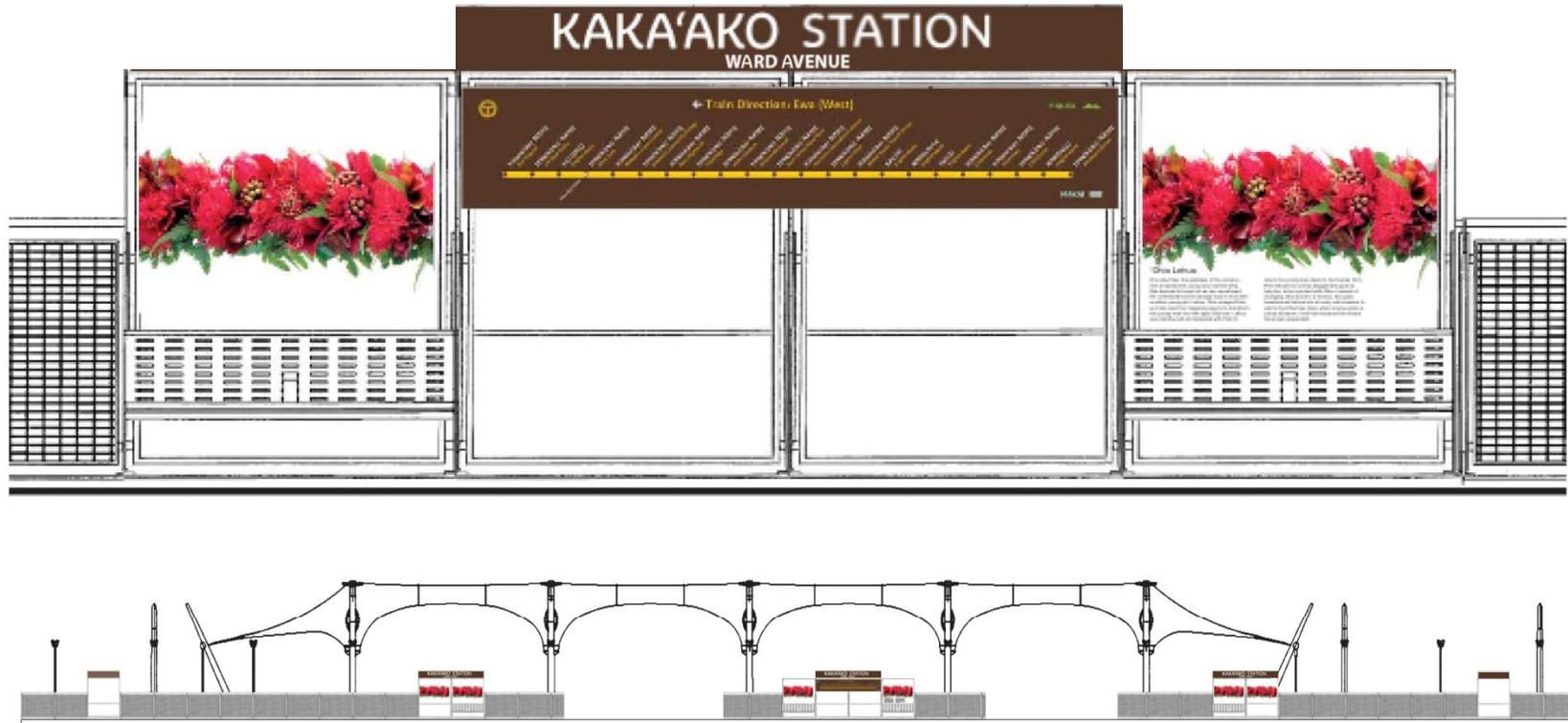
Windscreens will be provided at station platforms to shelter patrons from wind driven rain.

The screens provide an opportunity for art, support for station identification, a system map and shelter for benches.



Windscreens

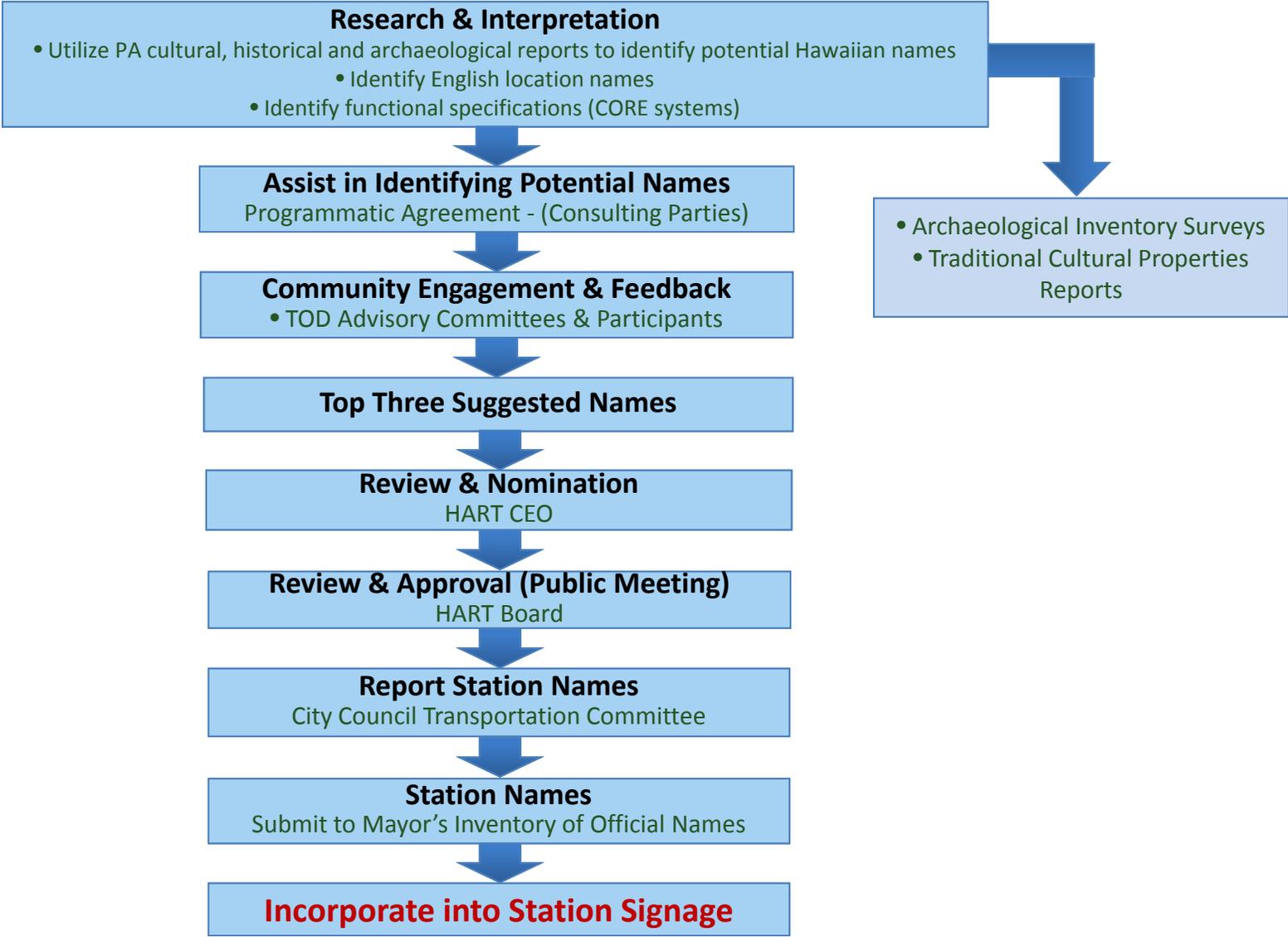
Station Art Program



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.

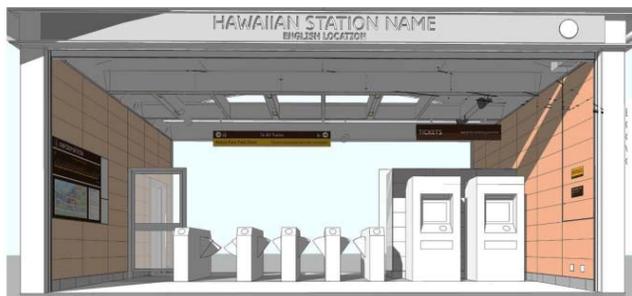
Windscreen Design

Draft Station Naming Process



Station Naming Process

HAWAIIAN STATION NAME STATION LOCATION



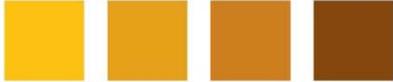
“ Provide a functional identity for the system as a whole through the use of standard elements that will enhance wayfinding and ease-of-use for patrons, while also improving cost-effectiveness.”

-Compendium of Design Criteria

Fare Gate Module

Station Signage Program

Proposed System Manual Colors



CULTURAL SIGNIFICANCE

- Royal colors of Oahu
- Familiarity of color family, recognition as “transit” based on “TheBus” system

FUNCTIONALITY

- Simple two-color hierarchy used for arriving vs. departing information
- Meets contrast requirements
- Very visible within blue and green natural landscape

Proposed System Manual Colors



Brown: Arrival information; Yellow: Exit information



Usage in patterns

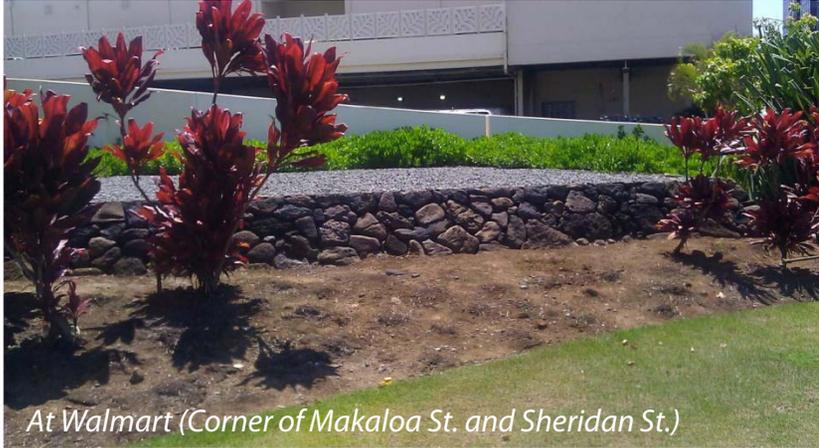


Yellow: Regulatory alerts



Station Signage and Colors

Reinterment Sites Considerations



At Walmart (Corner of Makaloa St. and Sheridan St.)



At Pier T (Queen St. and Kamakee St.)

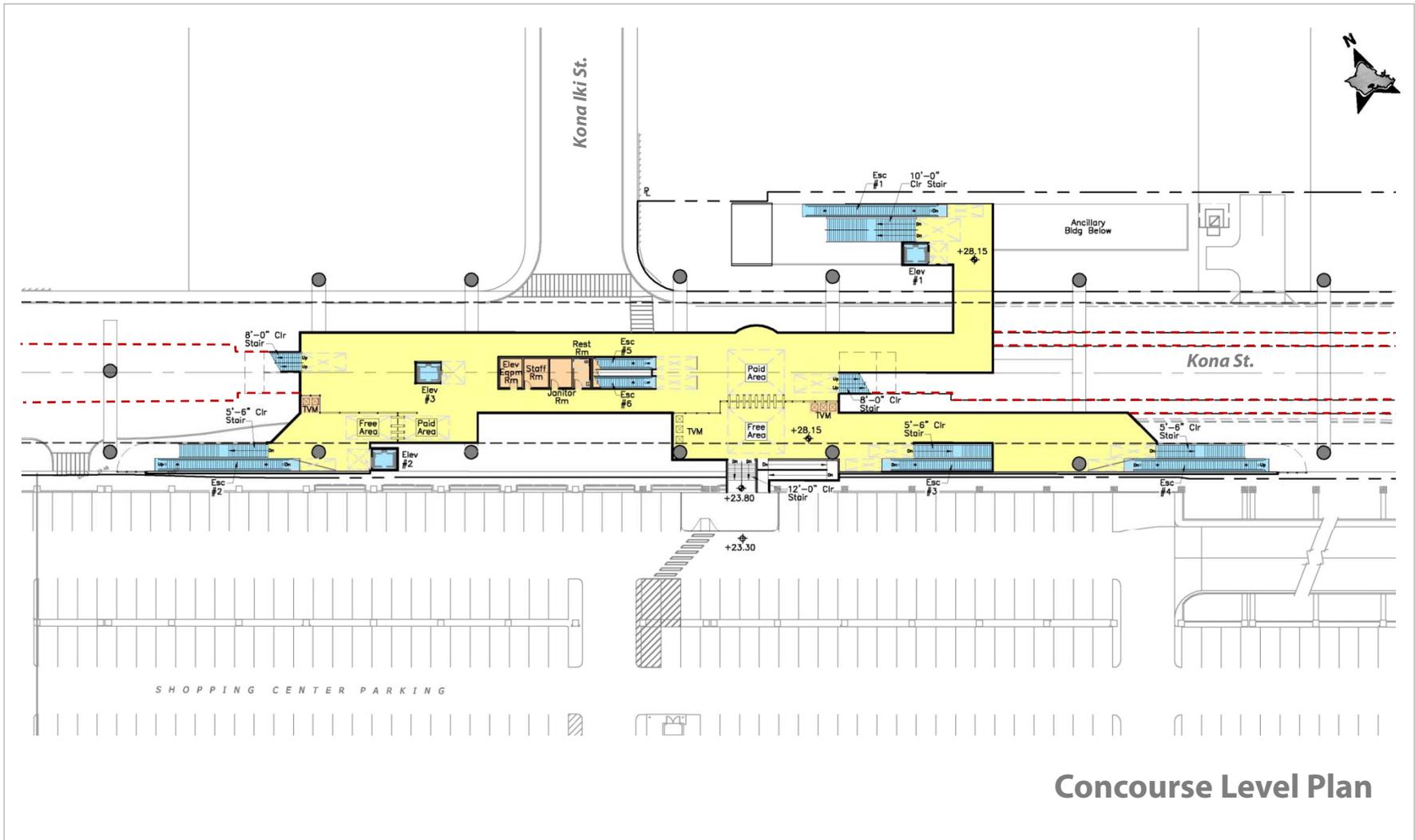
HART Compendium of Design Criteria, Chapter 11 revisions state that select stations will have an area designated for potential reinterment of Iwi Kapuna. Design details to be determined.



At Quinn Lane

Examples of Reinterment Sites

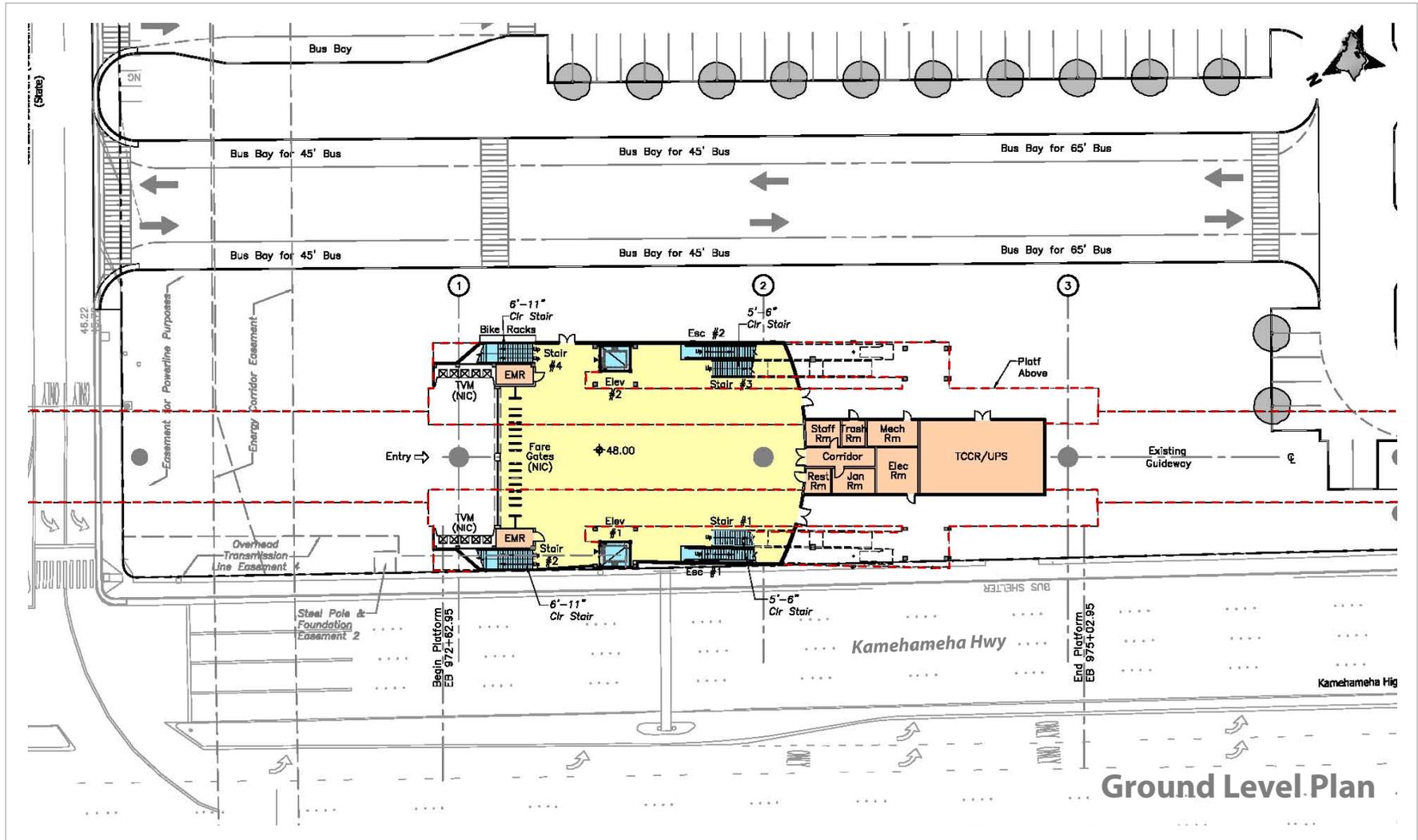
Unique Stations



Concourse Level Plan

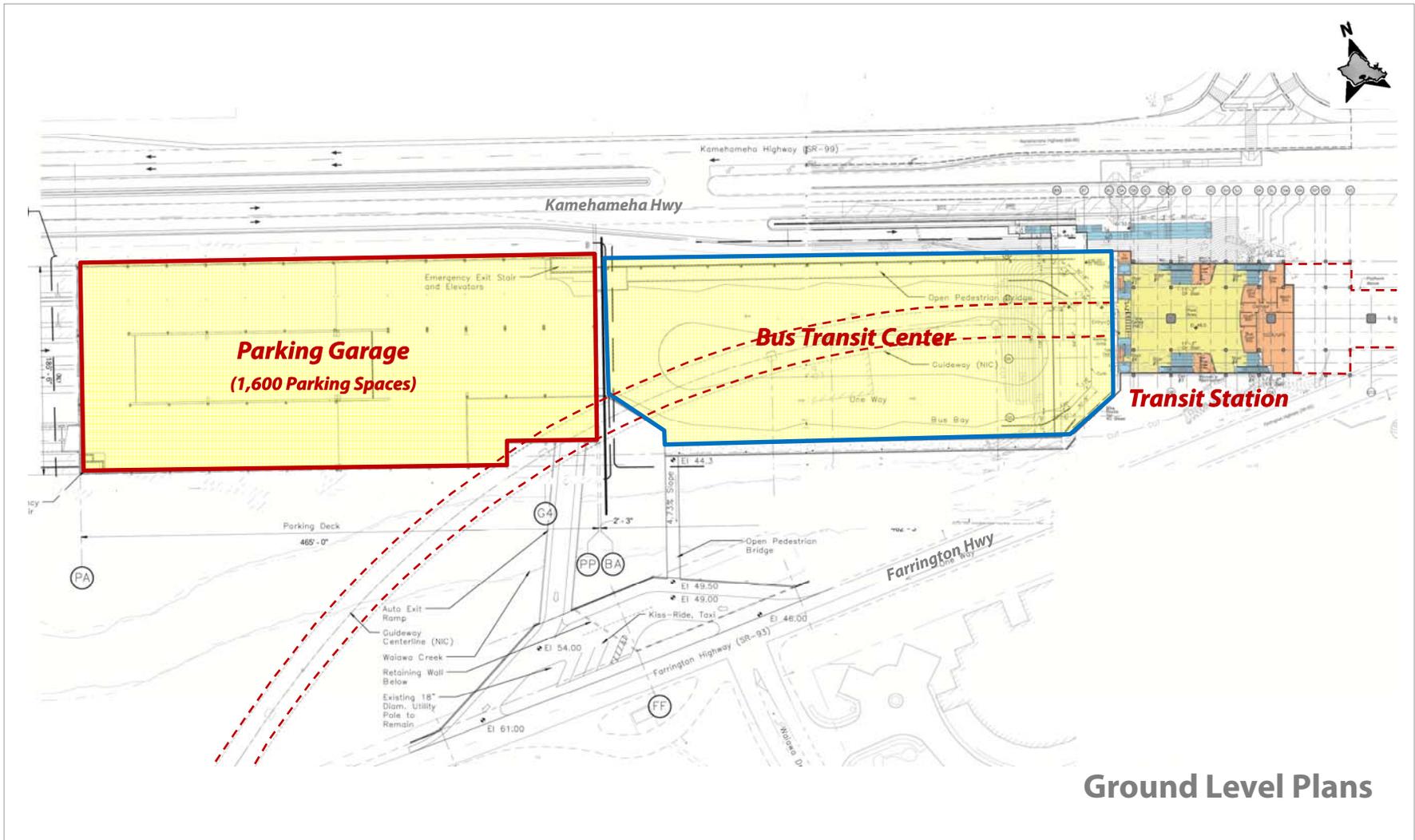
Ala Moana Center Station

Unique Stations



Aloha Stadium Station

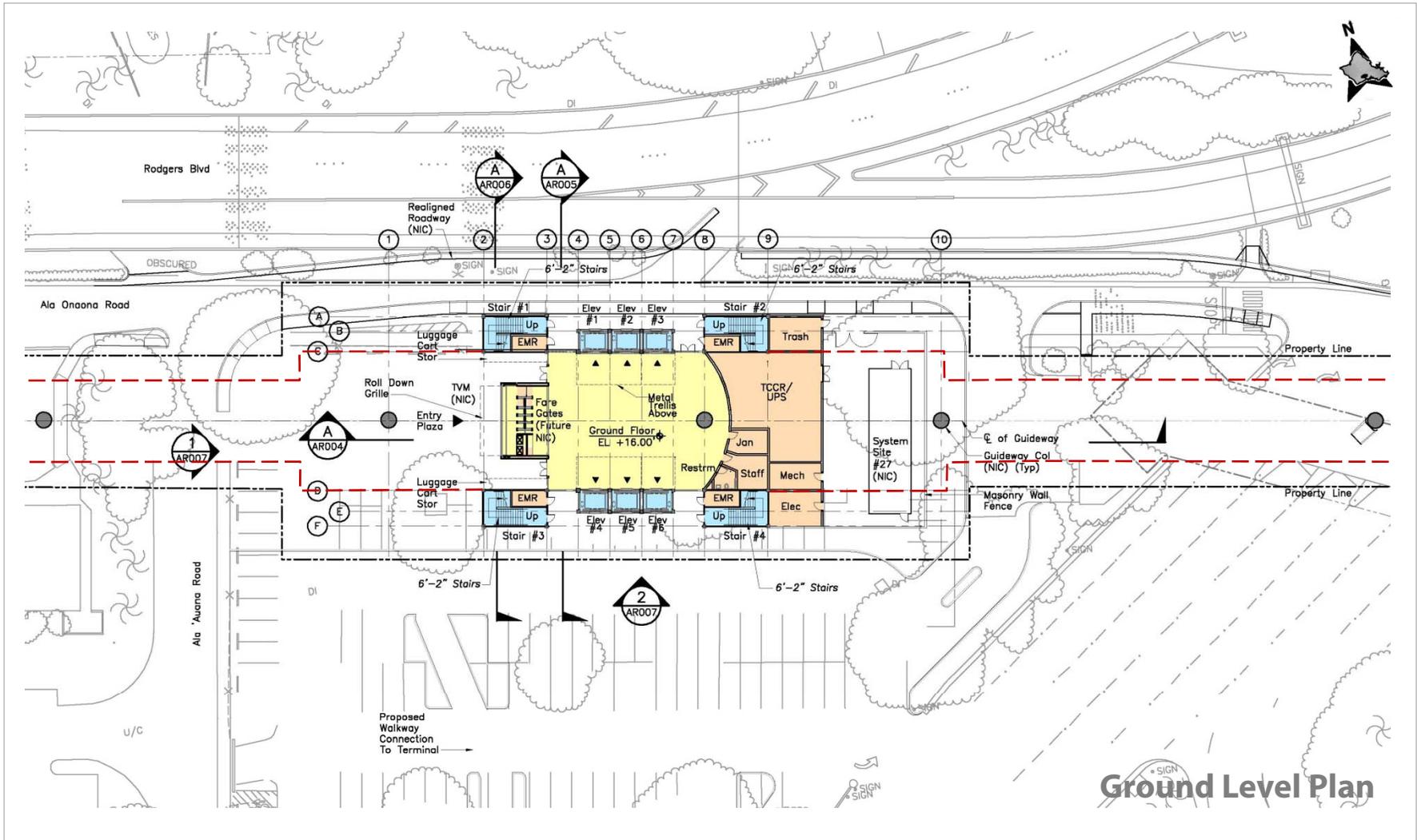
Unique Stations



Ground Level Plans

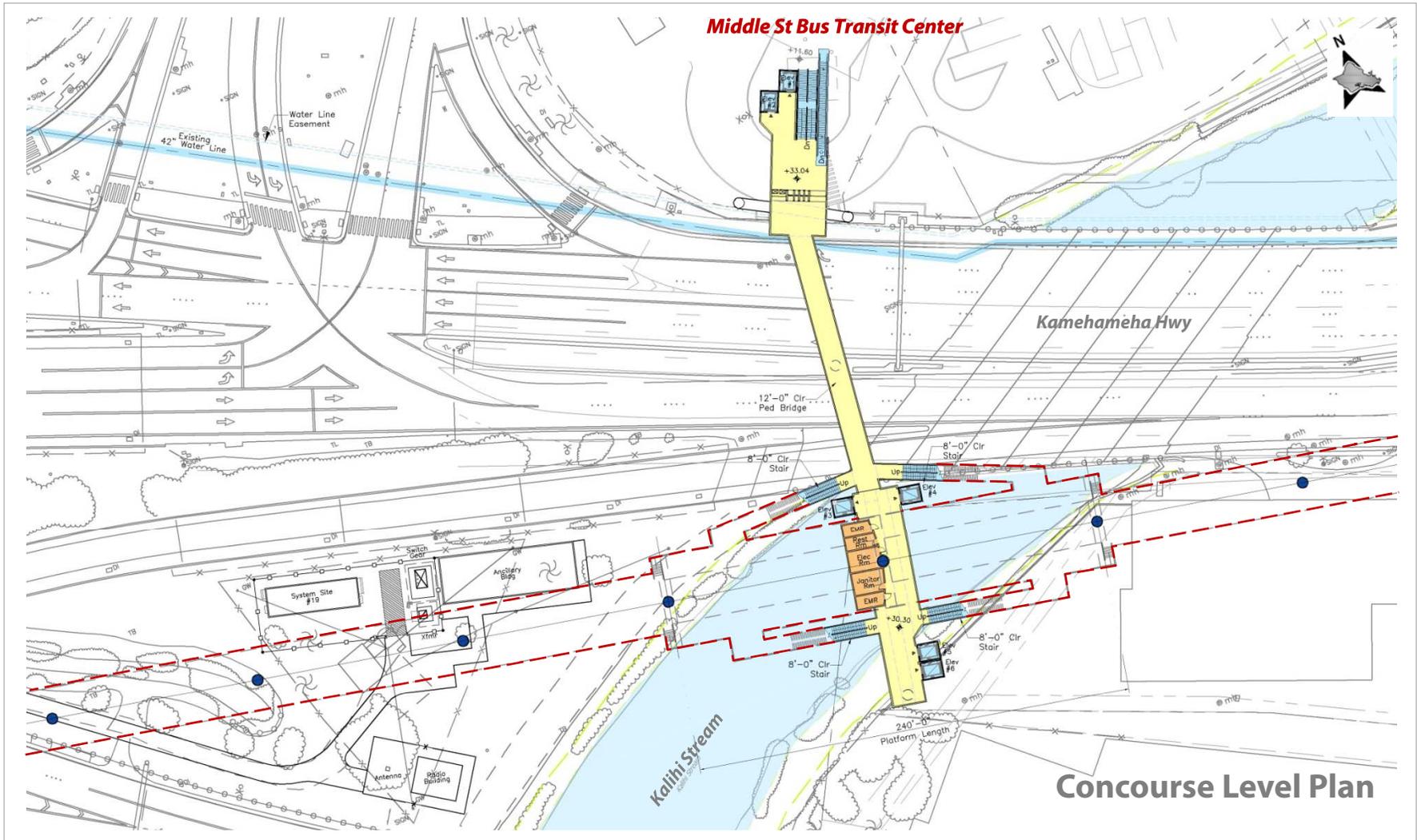
Pearl Highlands Station

Unique Stations



Honolulu International Airport Station

Unique Stations



Middle Street Transit Station

Stations with Historic Considerations

- **Aloha Stadium-** adjacent to Pearl Harbor Naval Base National Historic Landmark (NHL)
- **Pearl Harbor Naval Base Station-** adjacent to Pearl Harbor Naval Base NHL, Proposed Little Makalapa Historic District (HD), Splinterproof Shelter
- **Chinatown Station-** adjacent to and within HD (non-contributing element)
- **Downtown Station-** adjacent to and/or within properties (non-contributing elements) for Dillingham Transportation Building & HECO Downtown Plant/Hicks Building, Irwin Park

FEIS and PA identify adverse effects and mitigation already in progress includes:

- **HHH documentation** - per Stipulation V
- **National Register Nominations** - per Stipulation VI

Stations with Historic Considerations

Secretary of Interior Standards for the Treatment of Historic Properties, 36 CFR part 68

- ***PA Stipulation IV*** ...*For stations within the boundary of or directly adjacent to an eligible or listed historic property, the City shall comply with “The Standards” and will make every reasonable effort to avoid adverse effect on historic properties.*



HECO Plant & Hicks Building



Irwin Memorial Park

Stations with Historic Considerations

The Standards and the H RTP

The Standards are neither technical nor prescriptive, and intended to promote responsible preservation practices

The four treatment approaches are:

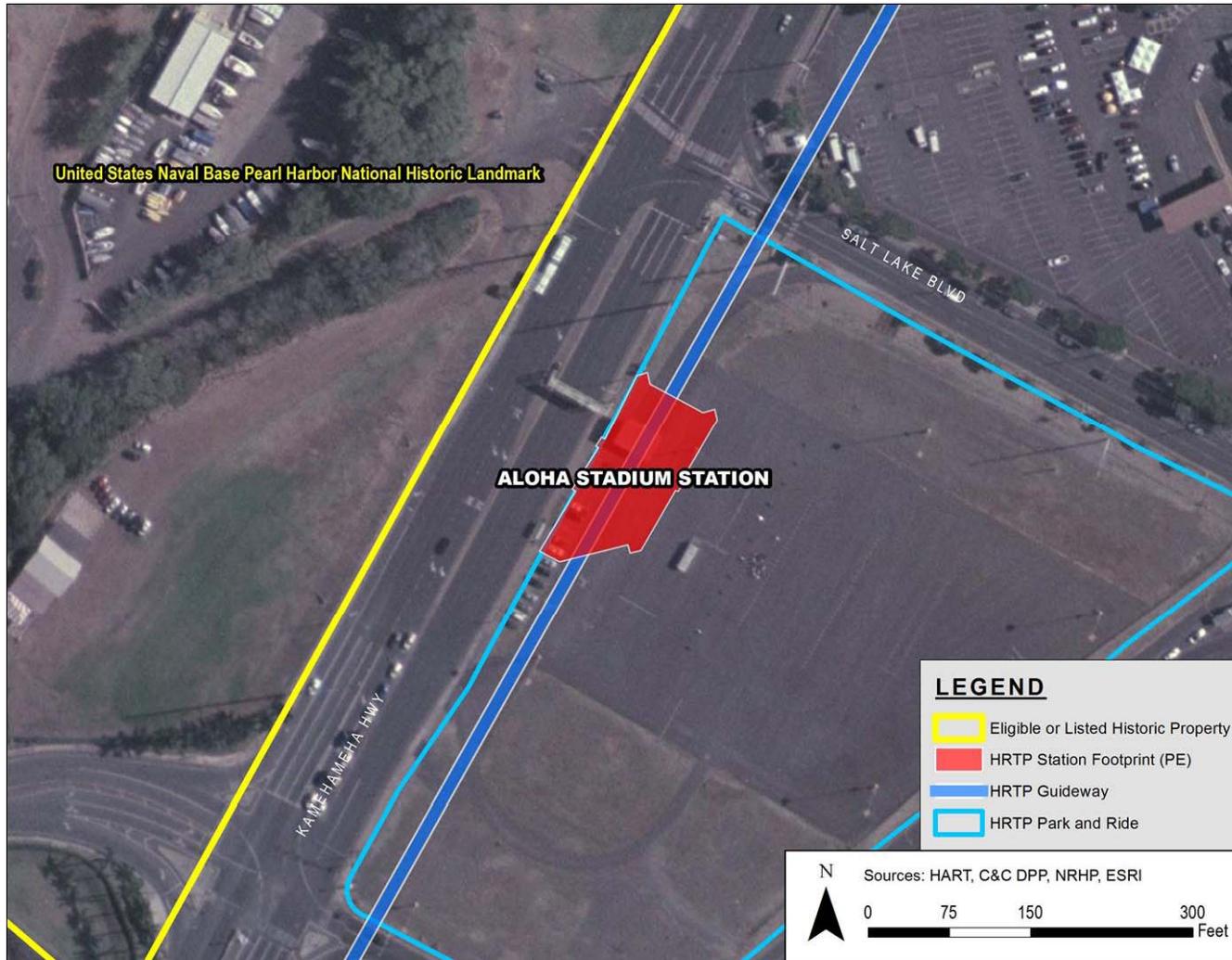
- **Preservation**
- **Rehabilitation**
- **Restoration**
- **Reconstruction**

None of these treatment approaches are explicit regarding the construction of the H RTP adjacent to historic buildings or districts.



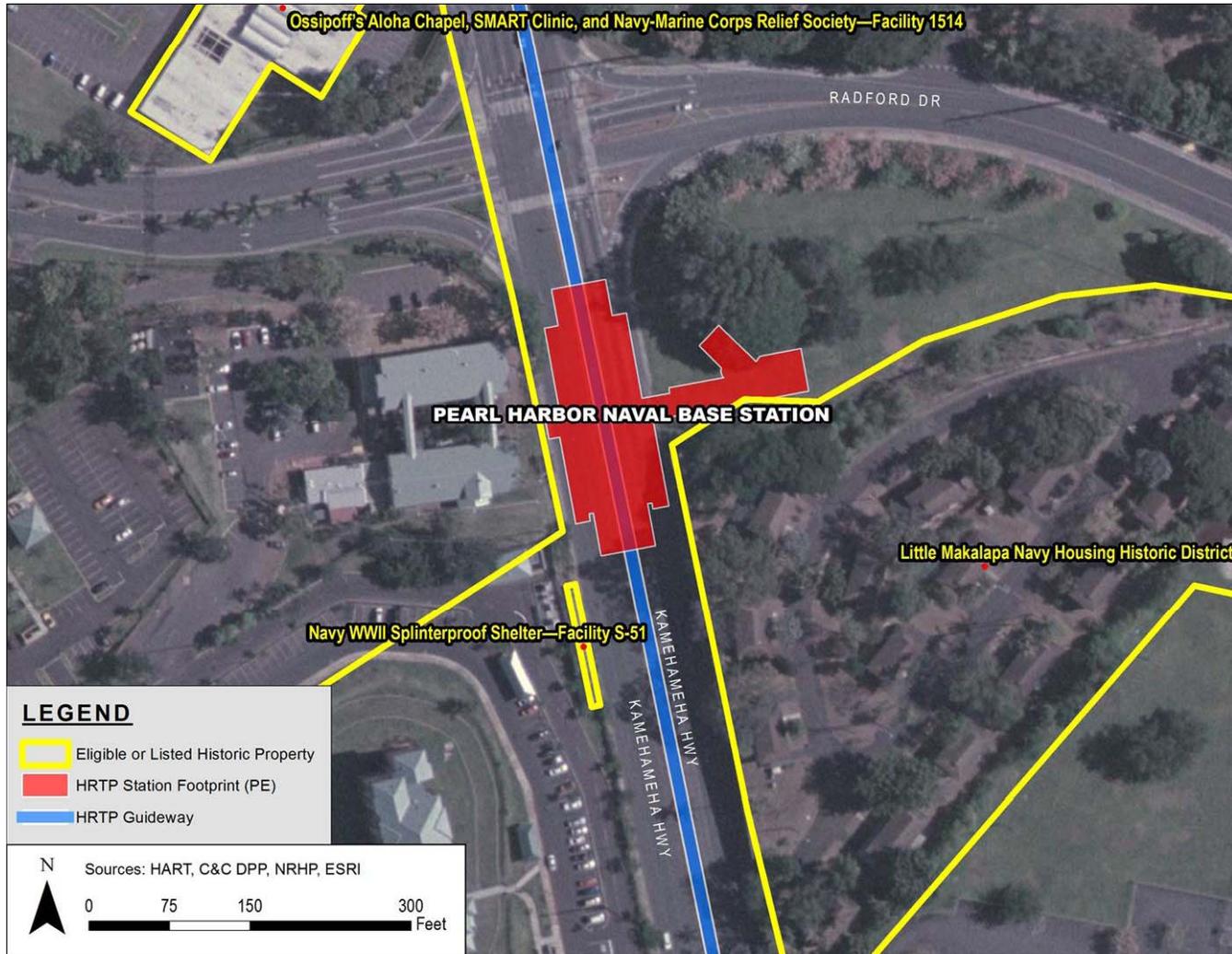
Dillingham Transportation Building

Stations with Historic Considerations



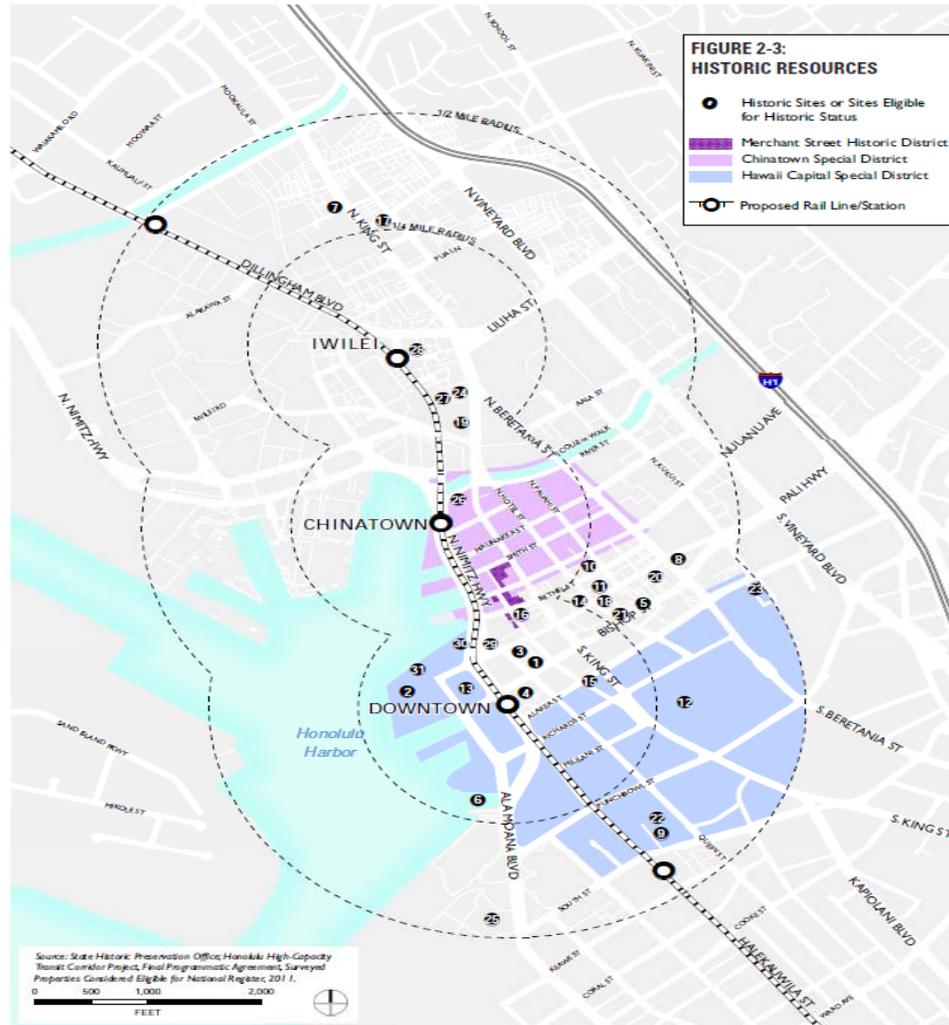
Aloha Stadium Station

Stations with Historic Considerations



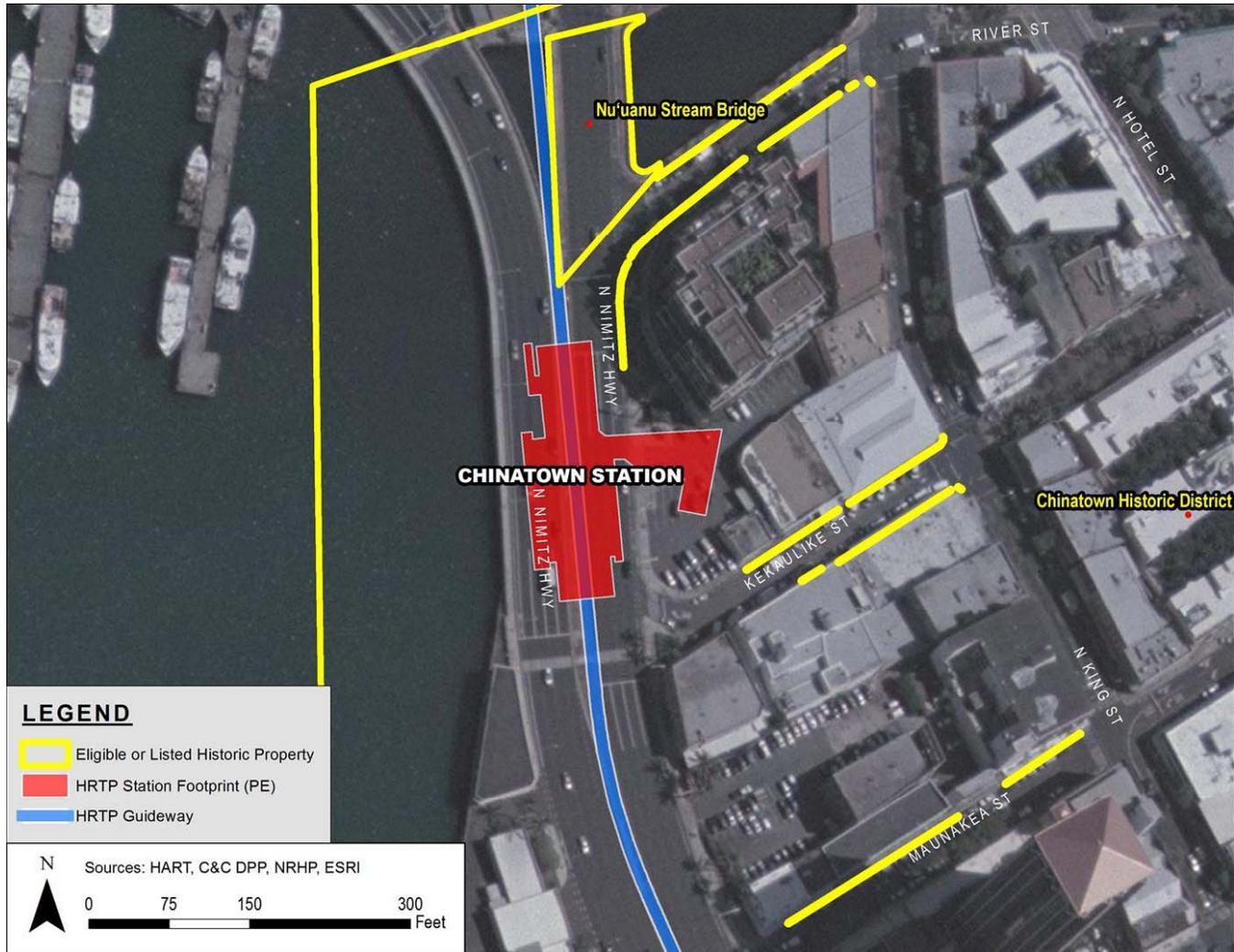
Pearl Harbor Naval Base Station

Stations with Historic Considerations



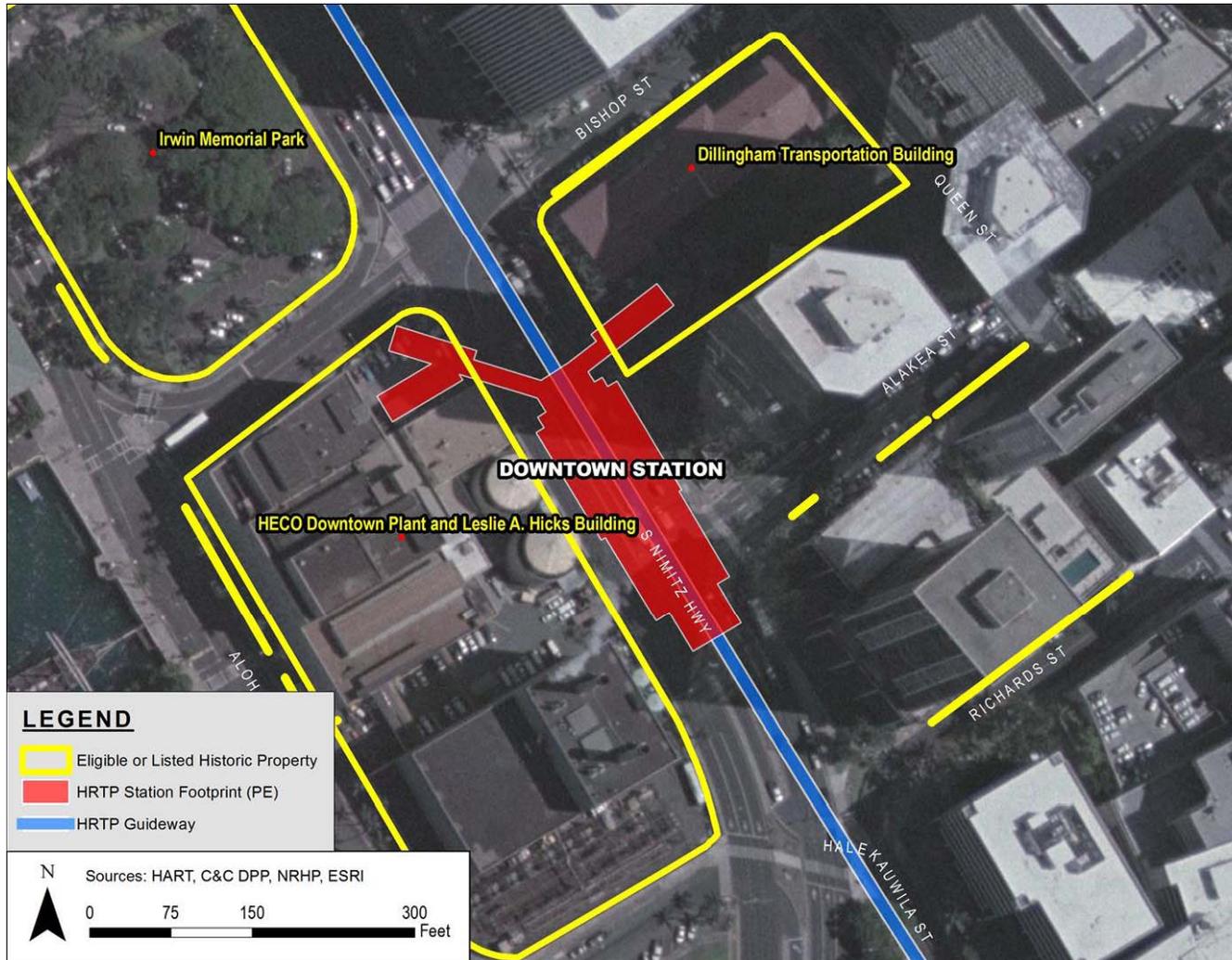
Chinatown & Downtown Stations related to Special Districts

Stations with Historic Considerations



Chinatown Station

Stations with Historic Considerations



Downtown Station

Q & A

Mahalo!

