

FFGA Financial Plan Update: Master Project Schedule

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Project Controls**

FFGA (Full Funding Grant Agreement with the Federal Transit Administration)

Master Project Schedule

- **Update provides information in response to HART Board request and FTA/PMOC refresh**

- **Phase 1 (West Segments)**
 - **West Oahu / Farrington Highway Guideway (WOFH)**
 - **Kamehameha Highway Guideway (KHG)**
 - **East Kapolei to Aloha Stadium (9 Stations)**
 - **Rail Operations Center**
 - **9 Milestone Dates (“A” & “B”)**

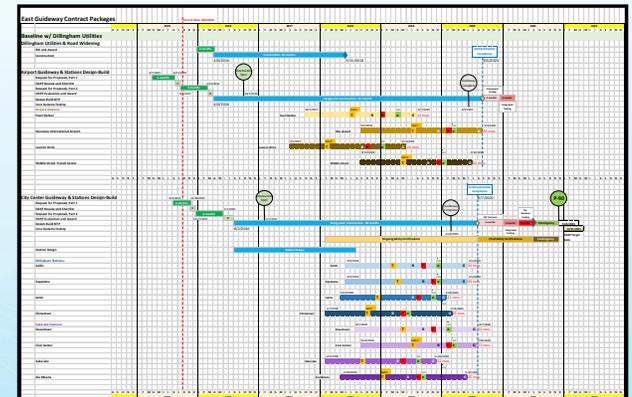
- **Phase 2 (East Segments)**
 - **Airport Guideway (AGS)**
 - **City Center Guideway (CCGS)**
 - **Pearl Harbor to Ala Moana Center (12 Stations)**
 - **6 Milestone Dates (“A” & “B”)**

Subject to review and discussion with the FTA

Master Project Schedule Definitions

Milestone Dates

- **“A” Dates**
 - Substantial Completion of fixed facilities (guideway, stations, etc.)
 - Civil and roadway work complete
 - Major Maintenance of Traffic (MOT) measures are removed
 - Limited impacts on vehicular and pedestrian traffic
 - Establishes the new “normal conditions” along the corridor
- **“B” Dates**
 - Facilities are open for intended use
 - Passenger service
- **Activities between “A” and “B” Dates**
 - Vehicle delivery and systems installation
 - Completion of systems installation
 - Systems and vehicle testing
 - Completion of fire and life safety approval
 - System Certification



Phase 1 (West Segments)



Phase 1 Milestone Dates*

Facilities; guideway; systems (“A” Dates)

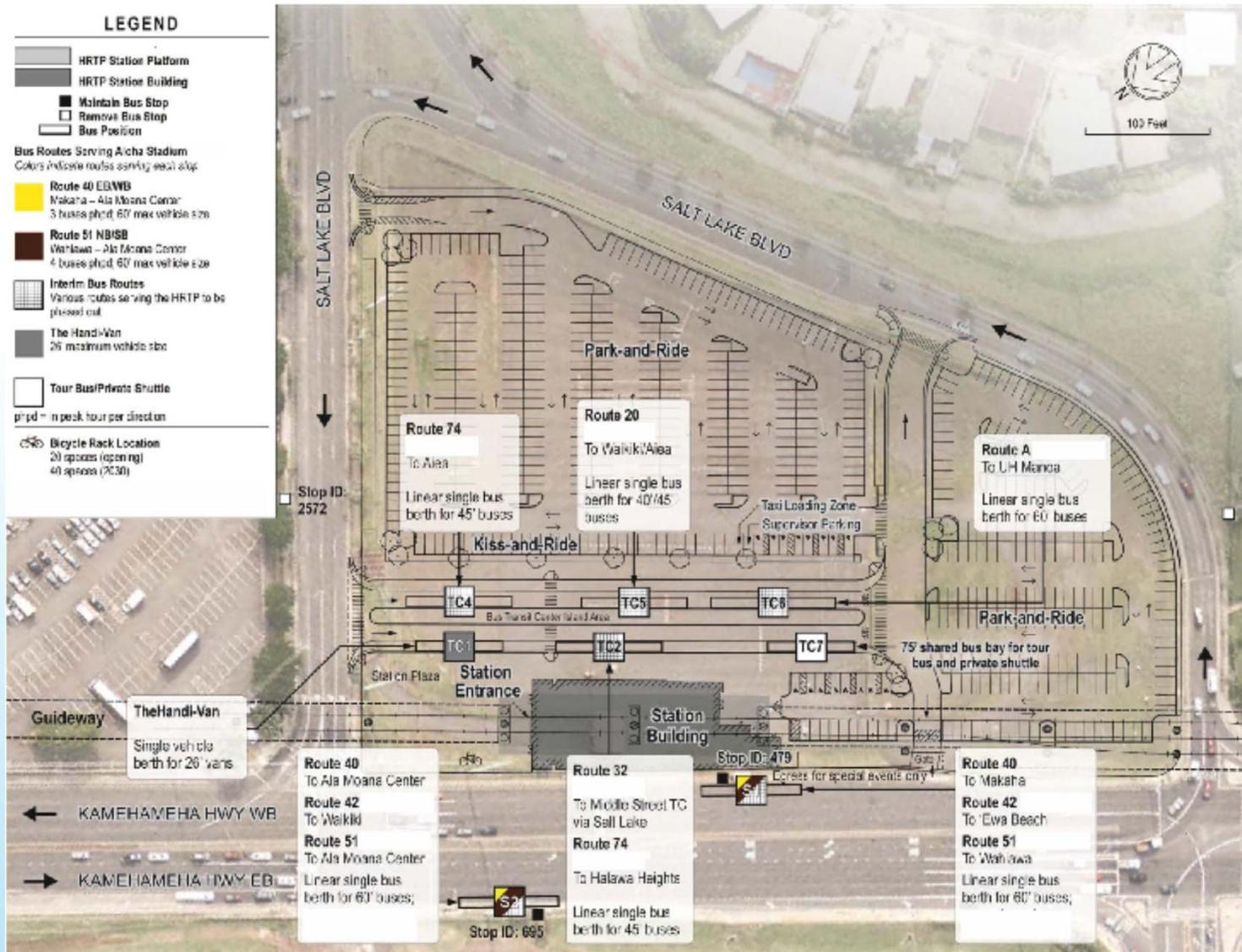
- 1st Vehicles Arrive: **1st Quarter 2016**
- Rail Operations Center: **2nd Quarter 2016**
- West Oahu/Farrington Guideway (6.8 miles): **3rd Quarter 2016**
- Kamehameha Highway Guideway (3.9 miles): **2nd Quarter 2017**
- West Oahu Stations: **4th Quarter 2017**
 - East Kapolei; University of Hawaii/West Oahu; Ho’opili
- Farrington Highway Stations: **1st Quarter 2018**
 - West Loch; Waipahu Transit Center; Leeward Community College
- Kamehameha Highway Stations: **3rd Quarter 2018**
 - Pearl Highlands; Pearlridge; Aloha Stadium
- Systems Certification & Testing: **3rd Quarter 2018**

Phase 1 Milestone (“B” Date)

- Ready for Revenue Service to Aloha Stadium: **3rd Quarter 2018**

*Dates are consistent with Monthly Report dates

Aloha Stadium Station



Phase 1 Milestone Dates

East Kapolei Station to Aloha Stadium Station

- Ready for Revenue Service : **3rd Quarter 2018**

Other Options:

1. Delayed or Deferred Interim Opening

System Operations is beneficial for adding Phase 2 segments

2. East Kapolei to Pearl Harbor

1 additional mile to Pearl Harbor and the Pearl Harbor Station is not in the current scope and would need to be added as a new requirement in the current Airport Segment solicitation

3. East Kapolei to Middle Street (adds Airport Segment)

According to the current contracting plan, this segment will be complete about the same time as the City Center Segment
(3rd Quarter 2020)

Phase 2 (East Segments)



Phase 2 Milestones

Facilities; guideway; systems (“A” Dates)

- Airport Utilities: **3rd Quarter 2016**
- Dillingham Boulevard Advance Utilities: **3rd Quarter 2018**
- Airport Guideway (5.2 miles) & Stations: **3rd Quarter 2020**
 - Pearl Harbor; Honolulu International Airport
 - Lagoon Drive; Middle Street Transit Center
- City Center Guideway (4.2 miles) & Stations: **3rd Quarter 2020**
 - Kalihi; Kapalama; Iwilei; Chinatown
 - Downtown; Civic Center; Kaka’ako; Ala Moana

Phase 2 Milestone (“B” Dates)

- Systems Certification & Testing: **3rd Quarter 2021**
- Ready for Revenue Service: **4th Quarter 2021**

Subject to review and approval by the FTA

Opportunities for Earlier Opening

- **HART Master Project Schedule is based on:**
 - **Current information**
 - **Historical events**
 - **Lessons from ongoing construction operations**
- **Design/Build contractors may have different approaches to the work, such as:**
 - **More resources**
 - **More work zones (headings)**
 - **More efficient way of performing the work**
- **Potential limiting factors:**
 - **Systems installation capability to do concurrent work**
 - **Impact on businesses and traffic**
 - **Third Party access and utility relocations**

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