Honolulu High-Capacity Transit Corridor Project
Alternatives Analysis

Travel Demand Forecasting Results Report

December 2006

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Acronyms Used in this Document

AA	Alternatives Analysis
CTPP	Census Transportation Planning Package
DTS	Department of Transportation Services
FTA	Federal Transit Administration
HOV	High Occupancy Vehicle
IVT	In-vehicle Time
LRT	Light Rail Transit
NEPA	National Environmental Policy Act
OMPO	O‘ahu Metropolitan Planning Organization
PUC	Primary Urban Center
TAA	Transportation Analysis Area
TAZ	Transportation Analysis Zone
TSM	Transportation System Management
UH	University of Hawai‘i
V/C	Volume-to-Capacity Ratio

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Summary

This report presents the technical results of the travel forecasting analysis conducted for the Honolulu High-Capacity Transit Corridor Project. The travel forecasting was conducted using the O'ahu Metropolitan Planning Organization's (OMPO) base model for the island of O'ahu. The model was reviewed, enhanced, and recalibrated for this project. A fixed distribution of person trips and highway travel time matrices were used for all alternatives in this analysis, with the projected transit mode share being the resulting distinctive output from the model. Sixteen alternative options were evaluated for this project. The eight alternative options that were presented in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis (AA) Report (DTS, 2006)* are in the body of this document and background analysis is included in Appendix A for eight additional alternative options not included in the main body.

Four primary alternatives were considered. The No Build Alternative includes programming highway and transit improvements through the year 2030. The Transportation System Management (TSM) Alternative includes a restructuring of the bus network, additional bus service, and relatively low-cost improvements to transit service. The Managed Lane Alternative includes a new two-lane viaduct from the Waiawa Interchange to Iwilei for use by transit vehicles, high-occupancy vehicles (HOVs) and toll-paying single-occupant vehicles. The Managed Lane Alternative has two operating options: a Two-direction Option and a Reversible Option. The Fixed Guideway Alternative includes a new exclusive right-of-way fixed guideway system from Kapolei to the University of Hawai'i at Mānoa (UH Mānoa). The Fixed Guideway Alternative options that are presented in this report include the three Full-corridor Alignment options and the 20-mile Alignment option that were presented in the AA and the five Full-corridor Alignment options and four shorter alignment options that were evaluated but not presented in the AA.

The model review, enhancement, and recalibration focused on several specific features. The transit network, the transit travel time function, and the path building parameters were updated and the highway component was enhanced by improving the travel speed representation and revising the volume-delay functions in the model. The Home-Based Work Person Trip matrix was validated against the 2000 Census Transportation Planning Package to improve the accuracy of the matrix. The mode choice model was also updated and recalibrated to improve accuracy of the model coefficients and relationships and to calibrate the alternative specific constants. A toll/managed lane component was also implemented in the model to provide forecast results for the Managed Lane Alternative options that were evaluated.

The results of the analysis illustrate that the greatest improvements to the transit system result from the Fixed Guideway Alternative options. In regards to serving existing and future transit markets, the Fixed Guideway Alternative does the best job in accommodating both longer corridor transit trips and the increase in work commute trips to West O'ahu, which is expected to become much more pronounced

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in the future. In comparison to the No Build Alternative, daily transit trips are projected to increase by 21 to 27 percent for the Fixed Guideway Alternative options, while the projected increase for the TSM Alternative is less than five percent, and for the two Managed Lane options between six and seven percent. The results also indicate that in comparison to all other alternatives, the Fixed Guideway Alternative attracts substantially more transit riders from households that have one or more private automobiles.

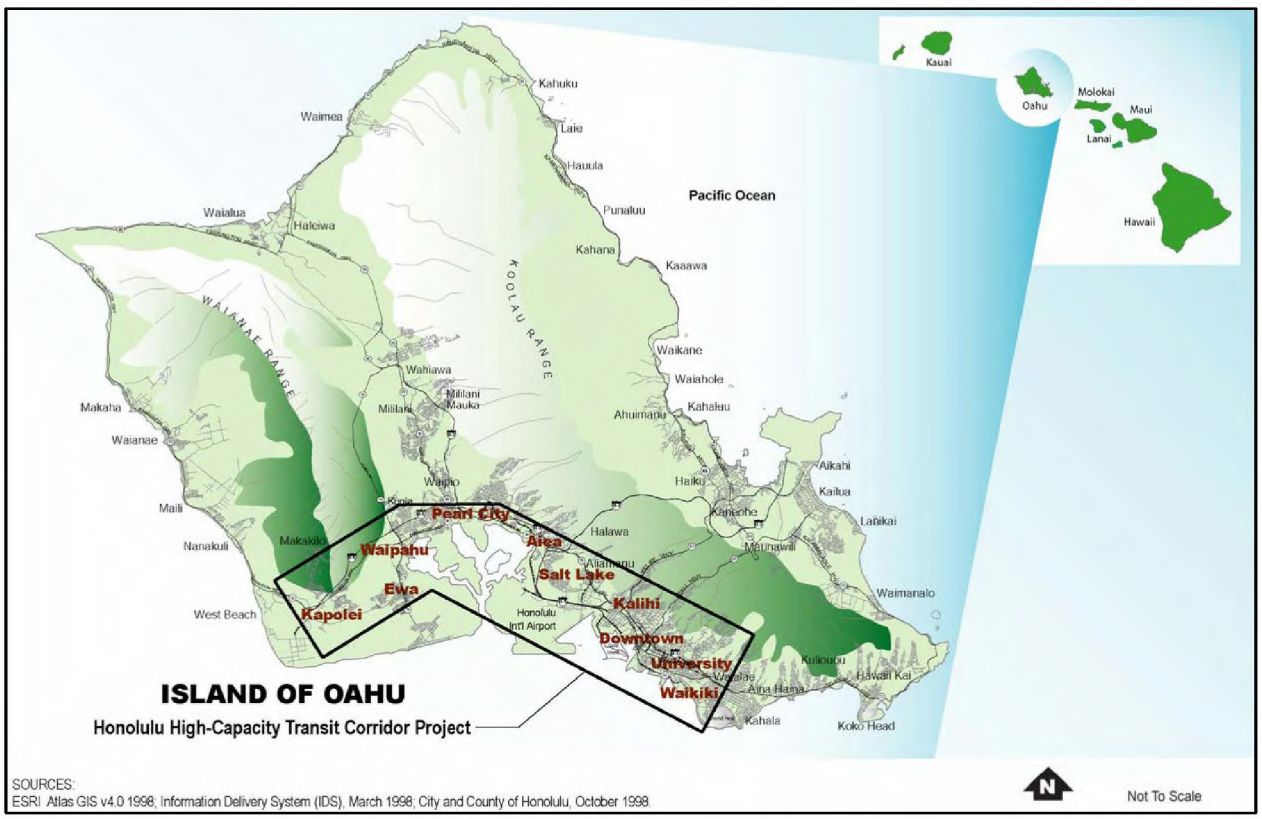
In addition, the Fixed Guideway Alternative most consistently results in improved transit travel times between key corridor origins and destinations. In many cases these travel times are equivalent to, or faster than, the same trip time made by private vehicle under No Build conditions, especially when considering the use of park-and-ride trips. The Managed Lane Alternative would provide some travel time improvements between selected origins and destinations that are well served by the facility, but in many cases the travel time savings experienced is offset by the increased congestion experienced before entering and upon exiting the facility.

Chapter 1 Introduction

Project Description

The City and County of Honolulu Department of Transportation Services (DTS), in coordination with the U.S. Department of Transportation Federal Transit Administration (FTA) is preparing and Alternatives Analysis (AA) to evaluate alternatives that would provide high-capacity transit service on O‘ahu. The primary project study area is the travel corridor between Kapolei and UH Mānoa (Figure 1). This corridor includes the majority of housing and employment on O‘ahu. The east-west length of the corridor is approximately 23 miles. The north-south width of the corridor is at most four miles, as much of the corridor is bounded by the Ko‘olau and Wai‘anae Mountain Ranges to the north and the Pacific Ocean to the south.

Figure 1: Project Area



Purpose of and Need for Transportation Improvements

The purpose of the Honolulu High-Capacity Transit Corridor Project is to provide improved mobility for persons traveling in the highly congested east–west transportation corridor between Kapolei and UH Mānoa. System planning for the

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corridor was completed in the *2030 O'ahu Regional Transportation Plan* (OMPO, 2006).

The existing transportation infrastructure in this corridor is overburdened handling current levels of travel demand. Motorists experience substantial traffic congestion and delay at most times of the day during both the weekdays and weekends. Currently, transit is caught in the same congestion. As roadways become more congested, they become more susceptible to substantial delays caused by incidents such as traffic accidents or heavy rain. Current travel times are not reliable for either transit or automobile trips.

The highest population growth rates for the island, consistent with the General Plan for the City and County of Honolulu, are projected in the ''Ewa Development Plan area. Many lower-income and minority workers live in the corridor outside of the urban core and commute to work in the Primary Urban Center Development Plan area. Many lower-income workers also rely on transit because of its affordability.

Corridor Overview and Conceptual Definition of Alternatives Evaluated

This section describes the physical characteristics of the study corridor and provides a description of the alternatives analyzed in this report.

Corridor Overview

The study corridor extends from Kapolei in the west (Wai'anae or ''Ewa direction) to UH Mānoa in the east (Koko Head direction), and is confined by the Wai'anae and Ko'olau Mountain Ranges to the north (mauka direction) and the Pacific Ocean to the south (makai direction).

The corridor is constrained geographically to a narrow band between the mountains and ocean. In the Pearl City, Waimalu, and ''Aiea area, the corridor's width is less than one mile between the Pacific Ocean and the base of the Ko'olau Mountains.

The General Plan for the City and County of Honolulu directs future population and employment growth to the ''Ewa and Primary Urban Center Development Plan areas and the Central O'ahu Sustainable Communities Plan area. The highest rate of growth is planned for the ''Ewa area. The largest increases in population and employment are projected in the ''Ewa, Waipahu, Downtown, and Kaka'ako districts, which are all located in the corridor (Figure 1).

Currently, 63 percent of the population and 81 percent of the employment on O'ahu are located within the study corridor. By 2030 this distribution will increase to 69 percent of the population and 84 percent of the employment as development is continuing to be concentrated into the Primary Urban Center (PUC) and ''Ewa Development Plan areas.

Kapolei is the center of the ''Ewa Development Plan area. It is located in a plain of former sugar cane fields and is rapidly developing. To date, residential development has outpaced commercial development, placing additional commuter pressure on the constrained roadway system serving the area. Kapolei has been designated O'ahu's "second city," and City and State government offices have opened there. The Kalaeloa Community Development District (formerly known as Barbers Point Naval Air Station) covers 3,700 acres adjacent to Kapolei. Several alternatives exist for the redevelopment of this area, including the possibility of developing some of the area for the onshore support of an aircraft carrier with a homeport at Pearl Harbor. The University of Hawai'i is developing a master plan for a new West O'ahu campus in Kapolei. The Department of Hawaiian Home Lands is also a major landowner in the area and has plans for residential and retail development. In addition, developers have several proposals to continue the construction of residential subdivisions.

Continuing Koko Head, the corridor follows Farrington and Kamehameha Highways through a mixture of low-density commercial and residential development. This part of the corridor passes through the makai portion of the Central O'ahu Sustainable Communities Plan area, which lies at the bottom of the valley between the Wai'anae and Ko'olau Mountain Ranges. Farrington Highway and Interstate Route H-1 (H-1 Freeway) are the principal ''Ewa–Koko Head routes through this part of the corridor.

Moving farther Koko Head, the corridor enters the Primary Urban Center Development Plan area. Commercial and residential densities begin to increase in the vicinity of Aloha Stadium. The H-1 Freeway, Kamehameha Highway, Salt Lake Boulevard, and Moanalua Freeway are the principal ''Ewa–Koko Head roadways in the western portion of the Primary Urban Center Development Plan area. The Pearl Harbor Naval Reserve, Hickam Air Force Base, and Honolulu International Airport border the corridor on the makai side. Military and civilian housing are the dominant land uses mauka of the H-1 Freeway, with a concentration of high-density housing along Salt Lake Boulevard.

As the corridor continues Koko Head across Moanalua Stream, the land use becomes increasingly dense. There are four principal transportation links through this portion of the corridor: Nimitz Highway, Dillingham Boulevard, North King Street, and the H-1 Freeway. Industrial and port land uses dominate along the harbor, shifting to primarily commercial uses along Dillingham Boulevard, changing to a mixture of residential and commercial uses along North King Street, with primarily residential use mauka of the H-1 Freeway.

Alternatives Evaluated

Four alternatives were evaluated for the AA. They were developed through a screening process that considered alternatives identified through previous transit studies, a field review of the study corridor, an analysis of current housing and employment data for the corridor, a literature review of technology modes, work completed by OMPO for its *2030 O'ahu Regional Transportation Plan (OMPO, 2006),* and public and agency comments received during a formal project scoping

process held in accordance with requirements of the National Environmental Policy Act (NEPA) and the Hawai'i Environmental Impact Statement (EIS) Law (Chapter 343). The alternatives screening process is documented in the *Honolulu High-Capacity Transit Corridor Project Screening Memo, (DTS, 2006b).* The four alternatives are described in detail in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a).* The alternatives evaluated are as follows:

- No Build Alternative
- Transportation System Management Alternative
- Managed Lane Alternative
- Fixed Guideway Alternative.

Alternative 1: No Build

The No Build Alternative includes existing transit and highway facilities and committed transportation projects anticipated to be operational by 2030. Committed transportation projects are those programmed in the *2030 O'ahu Regional Transportation Plan* OMPO (2006). The committed highway elements of the No Build Alternative are also included in the build alternatives.

The No Build Alternative's transit component would include an increase in fleet size of 89 vehicles, from 525 to 614, to accommodate the anticipated growth in population, while allowing service frequencies to remain the same as today. Bus fleet requirements are listed in Table 1. Details of the bus operating plan can be found in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a)*

Table 1. Transit Vehicle Requirements

Alternative	Bus		Fixed Guideway	
	Peak	Fleet	Peak	Fleet
Alternative 1: No Build				
2030 No Build Alternative	511	614	0	0
Alternative 2: Transportation System Management				
2030 TSM Alternative	638	765	0	0
Alternative 3: Managed Lane				
2030 Two-Direction Option	705	846	0	0
2030 Reversible Option	755	906	0	0
Alternative 4: Fixed Guideway				
2030 Kalaeloa – Salt Lake – North King – Hotel	435	522	72	90
2030 Kamokila – Airport – Dillingham – King with a Waikīkī Branch	451	540	68	92
2030 Kalaeloa – Airport – Dillingham – Halekauwila	495	594	74	90
2030 20-mile Alignment East Kapolei to Ala Moana Center	441	529	52	63

Alternative 2: Transportation System Management

The Transportation System Management (TSM) Alternative would provide an enhanced bus system based on a hub-and-spoke route network, conversion of the present morning peak-hour-only zipper-lane to both a morning and afternoon peak-hour zipper-lane operation, and relatively low-cost capital improvements on selected roadway facilities to give priority to buses. Bus fleet requirements are listed in Table 1. Details of the bus operating plan can be found in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a)*. The TSM Alternative would include the same committed highway projects as assumed for the No Build Alternative.

Alternative 3: Managed Lane

The Managed Lane Alternative would include construction of a two-lane, grade-separated facility between Waipahu and Downtown Honolulu for use by buses, paratransit vehicles, and vanpools. The Managed Lane facility would integrate with the Hawai'i Department of Transportation's proposed Nimitz Flyover project that is included in the *2030 O'ahu Regional Transportation Plan (OMPO, 2006)*. HOV and toll-paying, single-occupant vehicles also would be allowed to use the facility provided that sufficient capacity would be available to maintain free-flow speeds for buses and the above-noted paratransit and vanpool vehicles. Variable pricing strategies for single-occupant vehicles would be implemented to maintain free-flow speeds. Two design and operational variations of the Managed Lane Alternative were evaluated: a Two-direction Option (one lane in each direction) and a two-lane Reversible Option. Both options would require modification to the Nimitz Flyover project's design.

An intermediate bus access point would be provided in the vicinity of Aloha Stadium. Bus service using the managed lane facility would be restructured and enhanced, providing additional service between Kapolei and other points ‘‘Ewa of the Primary Urban Center, as well as Downtown Honolulu and UH Mānoa.

Operating Characteristics of the Managed Lane Alternative

The Two-direction Option would serve express buses operating in both directions during the entire day. The Reversible Option would serve peak-direction bus service, while reverse-direction service would use the H-1 Freeway. Twenty-nine bus routes would use the managed lane facility during peak hours. One limited-stop route and one local route would continually operate in the managed lane. A total of 27 peak-period express routes would operate in the peak direction using the managed lane facility. Of these, three would be new express routes serving developing areas and nine would be new routes developed for exclusive use of the managed lane. The nine new managed lane express bus system routes originate from Kalaeloa, Kapolei, or Central O‘ahu and terminate at the Alapa’i Transit Center, Waikīkī, or UH Mānoa. Other peak-period, local, and limited-stop routes follow a route similar to the current structure but would use the managed lane for the line-haul portion of the route. Details of the bus operating plan can be found in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a)*

A toll structure has been developed that ensures that the managed lane facility would operate at free-flow speeds for buses. For the Two-direction Option, there would be sufficient volumes of buses and HOVs using the facility in 2030 such that no excess capacity would be available for use by toll-paying single-occupant vehicles. In order to maintain free-flow speeds, it may be necessary to charge tolls to manage the number of two-person HOVs using the facility. For the Reversible Option, three-person HOVs would be allowed to use the facility for free, while single-occupant and two-person HOVs would pay a toll.

Alternative 4: Fixed Guideway Alternative

The Fixed Guideway Alternative would include the construction and operation of a fixed-guideway transit system between Kapolei and UH Mānoa. The system could use any of a range of fixed-guideway transit technologies that meet performance requirements, and could be either automated or employ drivers.

Throughout other reports, the study corridor for the Fixed Guideway Alternative is evaluated in five sections to simplify the analysis and impact evaluation. Detailed alignment drawings are available in the *Honolulu High-Capacity Transit Corridor Project Alignment Plans and Profiles* (DTS, 2006c). For the purposes of travel forecasting for the AA it was necessary to create Full-corridor Alignments.

Each alignment has distinctive characteristics and environmental impacts and provides different service options. Therefore, each alignment was evaluated

individually and compared to the other alignments. There were multiple iterations of the Full-corridor Alignment evaluation, which resulted in three Full-corridor Alignments and one shorter 20-mile Alignment being included in the final AA.

Operating Characteristics of the Fixed Guideway Alternative

The fixed guideway system is planned to operate between 4 a.m. and midnight, with a train arriving in each direction at each station every three to six minutes (Table 2). The system is planned to operate with a unified fare structure with TheBus, with transfers and passes usable on both systems. A possible fare-collection system would include one that operates on an honor basis. No gates or fare inspection points would be used in the stations. Fare machines would be available at all stations and standard fare boxes would be used on buses. Fare inspectors would ride the system and check that passengers have valid tickets or transfers.

Table 2. Fixed Guideway Alternative Operating Assumptions

Time of Day[1]	System Headway[2]
4 a.m. to 6 a.m.	6 minutes
6 a.m. to 9 a.m.	3 minutes
9 a.m. to 3 p.m.	6 minutes
3 p.m. to 6 p.m.	3 minutes
6 p.m. to 8 p.m.	6 minutes
8 p.m. to 12 a.m.	10 minutes

[1]System is closed from 12 a.m. to 4 a.m.
[2]Branch-line headway would be twice that of the main line.

A vehicle loading standard of one standee per 2.7 square feet of floor space has been used. The system is planned to operate with multicar or articulated trains approximately 175 to 200 feet in length, with each train able to carry a minimum of 300 passengers. This would provide a peak capacity of at least 6,000 passengers per hour per direction. Depending on the technology ultimately selected, the capacity may range from 6,000 to 10,000 passengers per hour per direction. The number of vehicles required to provide this service is listed in Table 1, assuming two vehicles per train. With the exception of the Hotel Street alignment, the system would be expandable to longer trains of up to 300 feet in length in the future to increase capacity by 50 percent. Also, the system could be operated with shorter headways to increase peak capacity.

Full-corridor Fixed Guideway Alignments

Each of the alignments listed below provide slightly different service to specific areas within the corridor and each performed differently with respect to the evaluation measures considered in the analysis. This section details the specific alternatives considered in the AA.

Initially, Full-corridor Alignments were combined to highlight performance differences and identify specific areas that generated the best transit performance. The alignments analyzed through travel forecasting, but not included in the final AA, are as follows:

- Saratoga Avenue / Geiger Road / Fort Weaver Road / Kamehameha Highway / Makai of the Airport Viaduct / North King Street / Nimitz Highway and Halekauwila Street, including a Waikīkī Branch

- Kapolei Parkway / North-South Road / Kamehameha Highway / Mauka of the Airport Viaduct / Dillingham Boulevard / South Beretania / South King Street

- Kamokila Boulevard / Farrington Highway / Kamehameha Highway / Nimitz Highway / Aolele Street / Dillingham Boulevard / Hotel Street / Waimanu Street / Kona Street / Kapiʻolani Boulevard / University Avenue with Waikīkī Branch

- Kapolei Parkway / North-South Road / Farrington Highway / Kamehameha Highway / Makai of the Airport Viaduct / Dillingham Boulevard / Nimitz Highway / Halekauwila Street / Kapiʻolani Boulevard / University Avenue.

These alignments were designed with all supporting elements included: bus routing to support the alignment, stations, park-and-ride lots, and highway details necessary to run the travel forecasting model. These specific details will not be included here, but Table 3 and Table 4 below list the general characteristics associated with each alignment as originally designed by section.

Table 3. Fixed Guideway Alternative Analysis Sections and Alignments

Section	Alignments Being Considered	Number of Stations
I. Kapolei to Fort Weaver Road	Kamokila Boulevard/Farrington Highway	5
	Kapolei Parkway/North-South Road	6
	Saratoga Avenue/North-South Road	8
	Geiger Road/Fort Weaver Road	7
II. Fort Weaver Road to Aloha Stadium	Farrington Highway/Kamehameha Highway	5
III. Aloha Stadium to Middle Street	Salt Lake Boulevard	2
	Mauka of the Airport Viaduct	3
	Makai of the Airport Viaduct	4
	Aolele Street	4
IV. Middle Street to Iwilei	North King Street	2
	Dillingham Boulevard	3
V. Iwilei to UH Mānoa	Beretania Street/South King Street	8
	Hotel Street/Kawaiahaʻo Street/Kapiʻolani Boulevard	12
	King Street/Waimanu Street/Kapiʻolani Boulevard	8
	Nimitz Highway/Queen Street/Kapiʻolani Boulevard	10
	Nimitz Highway/Halekauwila Street/Kapiʻolani Boulevard	10
	Waikīkī Branch	3

Table 4. Potential Fixed Guideway Park-and-Ride Locations

Potential Park-and-Ride Locations for Fixed Guideway Alignments	
Hanua Street	1,200 stalls
Saratoga Avenue / Renton Road / North-South Road	1,650 stalls
UH West O'ahu at North-South Road, south of Farrington Highway	1,700 or 2,100 stalls
UH West O'ahu at Farrington Highway and Kapolei Golf Course Road	1,700 stalls
Fort Weaver and Renton Road	1,800 stalls
Ka Uka Boulevard and H-2 Freeway	1,000 stalls
Pearl Highlands	1,500 stalls
Aloha Stadium	1,300 or 1,500 stalls
Kahuapaʻani Street	1,300 stalls

As the analysis developed, revised alignments were defined to capitalize on the high performance interactions within and between sections of the corridor. Based on the interim reviews of the performance criteria, three Full-corridor Alignments and one shorter 20-mile Alignment were defined to be carried through the Alternatives Analysis Report. Intermediate travel forecasting results for the alignments not included in the Alternatives Analysis Report are included as appendices to this report. The three Full-corridor Alignments and one 20-mile Alignment are described in the following text.

Combination 1: Saratoga Avenue / North-South Road / Farrington Highway / Kamehameha Highway / Salt Lake Boulevard / North King Street / Hotel Street / Kawaiaha‘o Street / Kona Street / Kapi‘olani Boulevard / University Avenue

Overview

This Full-corridor Alignment would provide direct fixed guideway service to the developing Kalaeloa area, the UH West O‘ahu, Leeward Community College, Pearlridge Center, residential neighborhoods in the Salt Lake area, Chinatown, the Central Business District, Kaka‘ako, Ala Moana Center, Mo’ili’ili, and the UH Mānoa. This alignment is the shortest of the final combinations and is the only one that provides direct access to the Salt Lake neighborhoods.

Operation

The fixed guideway would operate on the same schedule planned for all fixed guideway alignments. Based on the projected ridership for this alignment, the maximum peak hour operating fleet would be 72 vehicles. Ninety fixed guideway vehicles would be required in total, allowing overhead for maintenance and break-down reserves.

Supporting Facilities

The stations for this alignment combination would be located as follows:

- Hanua Street and Kapolei Parkway (terminal)
- Kapolei Parkway and Wākea Street (integrated with the Kapolei Transit Center)
- Saratoga Avenue and Wākea Street
- Saratoga Avenue and Fort Barrette Road
- Saratoga Avenue and Renton Road, makai of North-South Road
- UH West O‘ahu at North-South Road between Kapolei Parkway and Farrington Highway
- North-South Road and makai of Farrington Highway
- Farrington Highway between North-South Road and Fort Weaver Road
- Farrington Highway and Leokū Street
- Farrington Highway and Mokuola Street (integrated with the Waipahu Transit Center)

- Leeward Community College
- Kamehameha Highway and Kuala Street
- Kamehameha Highway and Kaonohi Street
- Salt Lake Boulevard and Kahuapa‘ani Street
- Salt Lake Boulevard across from Ala Nīoi Place
- North King Street and Owen Street
- North King Street and Waiakamilo Road
- North King Street and Dillingham Boulevard/Liliha Street
- Hotel Street and Kekaulike Street
- Hotel Street and Nu‘uanu Avenue
- Hotel Street and Fort Street Mall
- Underground at Punchbowl Street and Hotel Street (Honolulu Hale)
- Kawaiaha‘o Street and Cooke Street
- Kawaiaha‘o Street and Kamake‘e Street
- Kona Street and Ke‘eaumoku Street
- Kapi‘olani Boulevard and McCully Street
- University Avenue and Date Street
- University Avenue and South King Street
- UH Lower Campus

This combination offers park-and-ride lot locations as follows:

Park-and-Ride Location	Kalaeloa – Salt Lake – North King – Hotel
Hanua Street / Kapolei Parkway	1,200 stalls
Saratoga Avenue / Renton Road / North-South Road	1,650 stalls
UH West O'ahu at North-South Road, south of Farrington Highway	1,700 stalls
Ka Uka Boulevard and H-2 Freeway	1,000 stalls
Pearl Highlands (Kamehameha Highway / Kuala Street)	1,500 stalls
Salt Lake Boulevard / Kahuapa'ani Street	1,300 stalls

Bus Service

Detailed descriptions of the bus service for this specific alignment combination can be found in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a).*

Combination 2: Kamokila Boulevard / Farrington Highway / Kamehameha Highway / Aolele Street / Dillingham Boulevard / King Street / Waimanu Street / Kapiʻolani Boulevard with a Waikīkī Branch

Overview

This Full-corridor Alignment would provide direct fixed guideway service to the UH West Oʻahu, Leeward Community College, Pearlridge Center, Honolulu International Airport, Chinatown, the Central Business District, Kakaʻako, Ala Moana Center, Mo'ili'ili, and UH Mānoa. This is the only alignment that serves Waikīkī directly with the fixed guideway alignment.

Operation

The fixed guideway would operate on the same schedule planned for all fixed guideway alignments. Based on the projected ridership for this alignment, the maximum peak-hour operating fleet would be 68 vehicles. Ninety-two fixed guideway vehicles would be required in total, allowing overhead for maintenance and break-down reserves.

Supporting Facilities

The stations for this alignment combination would be as follows:

- Hanua Street and Kapolei Parkway (terminal)
- Kamokila Boulevard and Wākea Street (integrated with the Kapolei Transit Center)
- Farrington Highway and ʻKoko Head of Kapolei Golf Course Road
- Farrington Highway at UH West Oʻahu
- Farrington Highway between North-South Road and Fort Weaver Road
- Farrington Highway and Leokū Street
- Farrington Highway and Mokuola Street (integrated with the Waipahu Transit Center)
- Leeward Community College
- Kamehameha Highway and Kuala Street
- Kamehameha Highway and Kaonohi Street
- Kamehameha Highway and Salt Lake Boulevard
- Kamehameha Highway and Radford Drive
- Honolulu International Airport
- Aolele Street and Lagoon Drive
- Middle Street at the Middle Street Transit Center
- Dillingham Boulevard and Mokauea Street
- Dillingham Boulevard and Kōkea Street
- Underground at Ka'aahi Street and Iwilei Road
- Underground at Fort Street Mall with access from Bethel Street and Fort Street

- Underground at Punchbowl Street and Hotel Street (Honolulu Hale)
- Waimanu Street and Cummins Street
- Kona Street and Ke‘eaumoku Street
- Kapi‘olani Boulevard and McCully Street
- University Avenue and Date Street
- University Avenue and South King Street
- UH Lower Campus.

This combination offers park-and-ride lot locations as follows:

Park-and-Ride Location	**Kamokila - Airport - Dillingham - King with a Waikīkī Branch**
Hanua Street and Kapolei Parkway	1,200 stalls
UH West O'ahu at Farrington Highway and Kapolei Golf Course Road	1,700 stalls
Ka Uka Boulevard and H-2 Freeway	1,000 stalls
Pearl Highlands	1,500 stalls
Aloha Stadium	1,300 stalls

Bus Service

Detailed descriptions of the bus service for this specific alignment combination can be found in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a).*

Combination 3: Saratoga Avenue / North-South Road / Farrington Highway / Kamehameha Highway / Aolele Street / Dillingham Boulevard / Nimitz Highway / Halekauwila Street / Kapi‘olani Boulevard / University Avenue

Overview

This Full-corridor Alignment would provide direct fixed guideway service to the developing Kalaeloa area, UH West O‘ahu, Leeward Community College, Pearlridge Center, Aloha Stadium, Honolulu International Airport, the Central Business District, Kaka‘ako, Ala Moana Center, Mo'ili'ili, and UH Mānoa This alignment does not contain a tunnel and is the most makai alignment through the Central Business District and Kaka‘ako.

Operation

The fixed guideway would operate on the same schedule planned for all fixed guideway alignments. Based on the projected ridership for this alignment, the

maximum peak hour operating fleet would be 74 vehicles. Ninety fixed guideway vehicles would be required in total, allowing overhead for maintenance and break-down reserves.

Supporting Facilities

The stations for this alignment combination would be as follows:

- Hanua Street and Kapolei Parkway (terminal)
- Kapolei Parkway and Wākea Street (integrated with the Kapolei Transit Center)
- Saratoga Avenue and Wākea Street
- Saratoga Avenue and Fort Barrette Road
- Saratoga Avenue and Renton Road, makai of North-South Road
- UH West O‘ahu at North-South Road between Kapolei Parkway and Farrington Highway
- North-South Road and makai of Farrington Highway
- Farrington Highway between North-South Road and Fort Weaver Road
- Farrington Highway and Leokū Street
- Farrington Highway and Mokuola Street (integrated with the Waipahu Transit Center)
- Leeward Community College
- Kamehameha Highway and Kuala Street
- Kamehameha Highway and Kaonohi Street
- Kamehameha Highway and Salt Lake Boulevard
- Kamehameha Highway and Radford Drive
- Honolulu International Airport
- Aolele Street and Lagoon Drive
- Middle Street at the Middle Street Transit Center
- Dillingham Boulevard and Mokauea Street
- Dillingham Boulevard and Kōkea Street
- Dillingham Boulevard and Ka‘aahi Street
- Nimitz Highway and Kekaulike Street
- Nimitz Highway and Fort Street Mall
- Halekauwila Street and South Street
- Halekauwila Street and Ward Avenue
- Kona Street and Ke‘eaumoku Street
- Kapi‘olani Boulevard and McCully Street
- University Avenue and Date Street
- University Avenue and South King Street
- UH Lower Campus.

This combination offers park-and-ride lot locations as follows:

Park-and-Ride Location	Kalaeloa - Airport - Dillingham - Halekauwila
Hanua Street and Kapolei Parkway	1,200 stalls
Saratoga Avenue / Renton Road / North-South Road	1,650 stalls
UH West O'ahu at North-South Road, south of Farrington Highway	2,100 stalls
Ka Uka Boulevard and H-2 Freeway	1,000 stalls
Pearl Highlands	1,500 stalls
Aloha Stadium	1,500 stalls

Bus Service

Detailed descriptions of the bus service for this specific alignment combination can be found in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a).*

<u>20-mile Alignment: UH West O'ahu / Farrington Highway / Kamehameha Highway / Aolele Street / Dillingham Boulevard / Halekauwila Street / Ala Moana Center</u>

Overview

A series of short alignments were also considered to provide another viable alternative that would not require the same level of capital investment as the Full-corridor Alignments. The selected 20-mile Alignment offered the best overall service of the short alignments considered and is presented as a fiscally prudent alternative to the Full-corridor Alignments.

The 20-mile Alignment would provide direct fixed guideway service to UH West O'ahu, Leeward Community College, Pearlridge Center, Aloha Stadium, Honolulu International Airport, the Central Business District, Kaka'ako, and Ala Moana Center. This alignment is approximately 20 miles long, does not contain a tunnel, and is the most makai alignment through the Central Business District and Kaka'ako.

Operation

The fixed guideway would operate on the same schedule planned for all fixed guideway alignments. Based on the projected ridership for this alignment, the maximum peak hour operating fleet would be 52 vehicles. Sixty-three fixed guideway vehicles would be required in total, allowing overhead for maintenance and break-down reserves.

Supporting Facilities

The stations for this alignment combination would be as follows:

- UH West O‘ahu Campus Wai‘anae of North-South Road between Kapolei Parkway and Farrington Highway
- North-South Road and makai of Farrington Highway
- Between North-South Road and Fort Weaver Road
- Farrington Highway and Leokū Street
- Farrington Highway and Mokuola Street (integrated with the Waipahu Transit Center)
- Leeward Community College
- Kamehameha Highway and Kuala Street
- Kamehameha Highway and Kaonohi Street
- Kamehameha Highway and Salt Lake Boulevard
- Kamehameha Highway and Radford Drive
- Honolulu International Airport
- Aolele Street and Lagoon Drive
- Middle Street at the Middle Street Transit Center
- Dillingham Boulevard and Mokauea Street
- Dillingham Boulevard and Kōkea Street
- Dillingham Boulevard and Ka‘aahi Street
- Nimitz Highway and Kekaulike Street
- Nimitz Highway and Fort Street Mall
- Halekauwila Street and South Street
- Halekauwila Street and Ward Avenue
- Kona Street and Ke‘eaumoku Street

This combination offers park-and-ride lot locations as follows:

Park-and-Ride Location	20-mile Alignment
UH West O'ahu at North-South Road, south of Farrington Highway	1,700 stalls
Ka Uka Boulevard and H-2 Freeway	1,000 stalls
Pearl Highlands	1,500 stalls
Aloha Stadium	1,500 stalls

Bus Service

Detailed descriptions of the bus service for this specific alignment combination can be found in the *Honolulu High-Capacity Transit Corridor Project Alternatives Analysis Definition of Alternatives Report (DTS, 2006a).*

Overview of the OMPO Travel Demand Model System

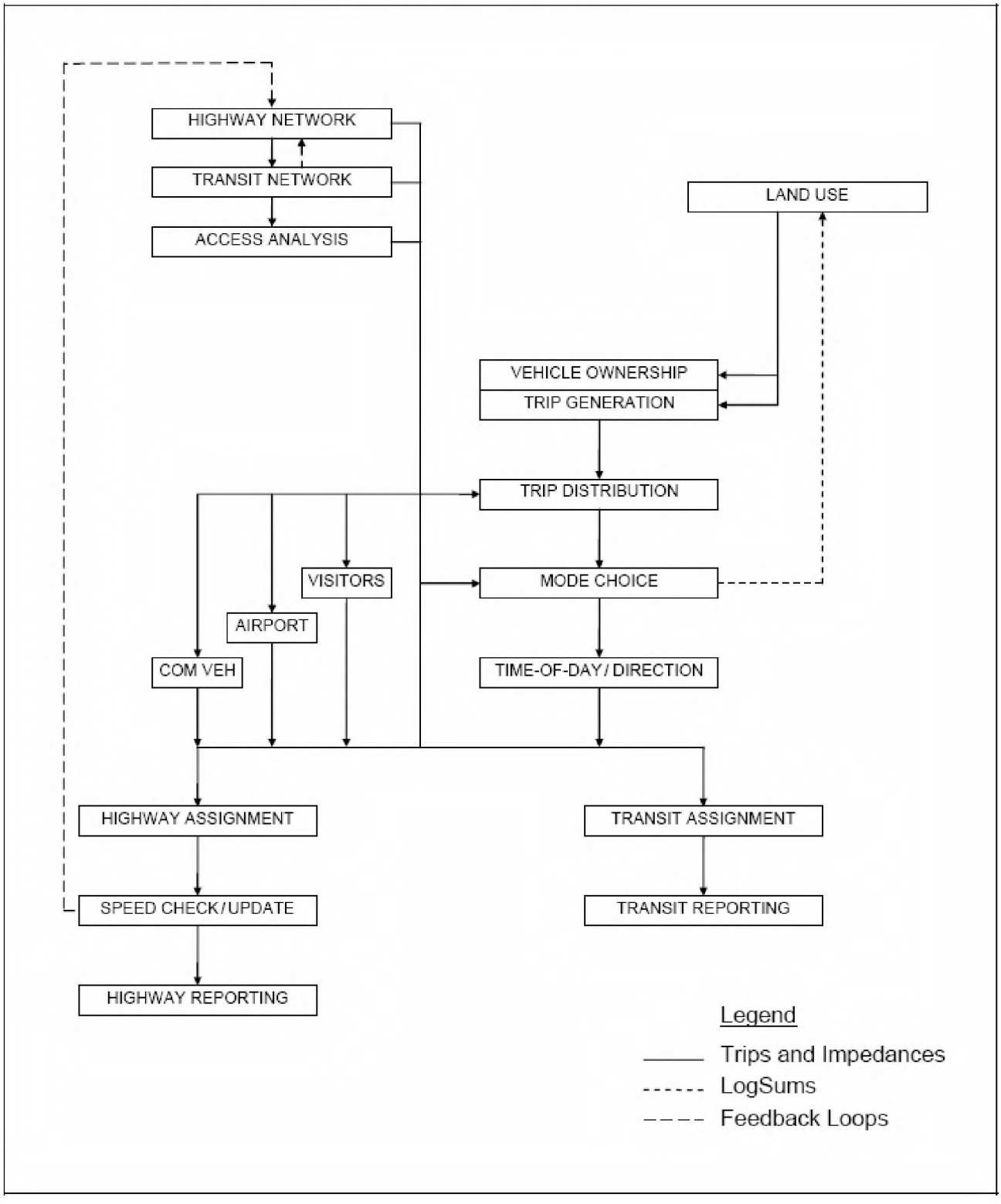
The OMPO's "best-practice" models have adopted the general structure that has been used for several decades for urban travel models in the United States. A vast majority of model sets that have been developed recently in several urban areas have continued to use this "sequential" approach to travel forecasting in which travel patterns are assumed to be the product of a sequence of individual decisions:

- The number of trips that a household will make – "trip generation"
- The destinations of these trips – "trip distribution"
- The modes that will be used for travel – "mode choice"
- The paths on the network that the trips will take – "network assignment."

The various travel models used by OMPO are described in the *Guide to Model Form*, included within the *Final Documentation* for the Travel Forecasting Model Development Project of the O'ahu Metropolitan Planning Organization, December 17, 2002.

Figure 2 shows the sequence of model procedures in flow chart form of the current OMPO models.

Figure 2: OMPO General Model Procedures Flow Diagram



Travel Model Background and Refinements

Changes to the Existing OMPO Model

The following activities were undertaken as part of the review, enhancement, and recalibration of the existing models.

1. Implementation and Testing of a Toll Choice Component for the Mode Choice Model
2. 1992 On-Board Survey Assignment Analysis
3. Tests of Alternative Highway Volume–Delay Functions
4. Examination of Variations in Speed Table/Free Flow Speed Assumptions
5. Review of Transit Travel Time Functions
6. Year 2000 CTTP Person Trip Matrix Comparisons
7. Evaluation of Parking Cost Representation and Forecasting
8. Preparation of Revised Calibration Target Values
9. Re-Calibrate Mode Choice Model, including refinement of Model Structure
10. Prepare Transit and Highway Validation Comparisons and Model Adjustments (as needed)
11. Prepare Model Re-calibration and Validation Report.

Reports describing work on tasks 1 through 9 are included in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).* A short discussion of each is described in the following sections.

Transit Network

Analysis of On-Board Rider Surveys

Results from two different on-board transit rider surveys conducted in 1992 and 2005-2006 were used in the calibration of the mode choice component of this model. In 2005–2006, an on-board survey was conducted as part of this project to re-calibrate the model prior to developing final forecasts. The 1992 on-board survey provided the primary mode choice calibration target values for each of the transit modes. The observed transit trip tables by time period, mode, and mode of access were assigned to the transit networks and comparisons of estimated versus reported boardings by period, mode, and mode of access were used to validate transit networks. The 2005-2006 survey was specifically used for a system-wide calibration to match current observed total boardings and linked trips. It was also used to update some of the transit ridership time-of-day factors.

Transit Travel Time Function Review

The transit travel-time functions were estimated based on the base year 1996 transit network schedule times between time points. The estimated times were gathered from the calculated transit link times (from the base year 1996 model) and converted to the equivalent transit segments defined by the time points from the observed data. Segments were classified by facility type, although in many cases a segment included more than one facility type. This analysis was conducted in December 2002. The transit travel-time functions used in the OMPO model are a set of factors that are applied to the congested highway travel times to represent transit times. For freeways, expressways, and ramps, these factors are set to "1" since no stops are generally made along these facilities. Additional details regarding Transit Travel Time Functions can be found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

Verification of Path Building Parameters

In order to verify the accuracy of the path building parameters, the 1992 on-board survey was used as a basis against which the path building parameters were verified. The results were found to be comparable to the results of the 2005-2006 on-board survey. Therefore, the path building parameters were confirmed. Additional details regarding the specifics of the parameters can be found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

Highway Network

Travel Speed Representation

To validate and update the model's Travel Speed representation for signalized arterial corridors in the Primary Urban Center, a "floating car" survey was conducted. Observations were conducted using the floating car method with observers driving pre-defined routes and recording travel times between checkpoints. The travel times were used with distances between checkpoints to calculate average vehicle speeds. These average speeds include time spent waiting at traffic signals.

Two arterial roadway corridors were sampled between Downtown Honolulu and the western edge of Kaimukī.

- South King Street/Beretania Street
- Kapi'olani Boulevard.

The results of the survey resulted in the modification of the free-flow speeds in the Central Business District, Core Commercial and Core Residential areas along arterial and collector roadways to 25 mph. This adjustment brought the speeds on these facilities in line with the observed average travel speeds.

Volume Delay Function Refinements

Akçelik volume delay functions are used in the current OMPO Travel Demand Model. These functions were found to be too sensitive to volume to capacity (V/C) ratios above 1.0 and not sensitive enough to represent an accurate decrease in travel speed as V/C ratios approach 1.0. To improve this relationship, a conical function was found to provide the most accurate representation of realistic travel speeds as V/C ratios approach 1.0 and exceed 1.0. Therefore, a conical function was used for the volume delay function. Additional details regarding the study for the most accurate volume delay function and details of the conical function are found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

Evaluation of Home-Based Work Person Trip Matrix

Census Journey-to-Work Comparisons

Comparisons were made between the year 2000 Census Transportation Planning Package (CTPP) and year 2000 Model run data. These comparisons revealed that the model is doing a relatively good job at producing and attracting the correct proportion of person trips regionwide. Moreover, the model's distribution of trips by mode is also good. For example, the 2000 CTPP Journey-to-Work trips were compared with the 2000 Year Model Run Journey-to-Work trips to determine how well the district-to-district movements match. There was a 95 percent correlation coefficient between the two, which shows that the predicted (model) district-to-district movements follow the observed district-to-district movements (CTPP data) quite well. All other areas of comparison also illustrated a close match between the model predictions and the Census data. Details regarding the discovery and findings of the comparison can be found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

Key Model Input Verification

Destination End Parking Cost

Parking costs for this model are based on the OMPO 1995 Home Interview Survey results with an assumption that parking costs will keep pace with inflation over time, remaining constant in real dollars. The socioeconomic file in the model contains non-zero parking costs for the Central Business District and other core areas, as defined by area types 1, 2, and 3 (Central Business District, Core Commercial, and Core Residential). Elsewhere, parking costs are set to "0." Only three unique non-zero values for parking costs are used for peak, and three for off-peak conditions. The off-peak parking cost is one-quarter of the daily parking cost. This is representative of an average two-hour off-peak parking duration versus an eight-hour parking duration for work trips that occur in the peak time period. Additional details regarding the specifics of the parking costs can be found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

Transit Fare

The transit fare was held constant throughout all model runs at the current transit rate schedule for TheBus. The current fare structure is listed in Table 5.

Table 5. TheBus Current Fare Structure (as of 2006)

Category	Ticket Type	Fare
Adult	One-way	$2 (+ 1 transfer)
	Monthly Pass	$40
	Annual Pass	$440
Senior / Disability	One-way	$1 (+ 1 transfer)
	One-time Senior / Disability Card purchase	$10
	Monthly Pass	$5
	Annual Pass	$30
Youth	One-way	$1 (+ 1 transfer)
	Monthly Pass	$20
	Annual Pass	$220
U.S. Medicare Card	One-way	$1 (+ 1 transfer)
U-Pass (valid for students of participating universities)	Academic Year Pass	$100
Visitor Adult	4 – Day Pass	$20
Football Express	One-way	$3
	Round-trip	$6

Travel Model Background and Refinements

Changes to the travel model included adjustments to the Mode Choice Model. These changes are summarized below.

Evaluation of Model Coefficients and Relationships

Several changes were made to the mode choice model to reflect recent best practices. These are listed and discussed below:

- The requirement for non-zero attraction end parking cost for park-and-ride lots was removed
- Maximum drive time ratio threshold for park-and-ride access was removed
- Non-motorized travel is now allowed for intra-zonal interchanges
- Geographical stratification of alternative specific constants was eliminated
- Two summary reports were added to the model report file
- The self-calibration module was modified.

Several changes were made to rationalize the coefficients, in light of current best practices as they relate to the following values:

- The in-vehicle time for the JTW purposes
- Transit time penalties
- Wait time
- Nesting coefficient values.

Details regarding the changes made to these coefficients, model updates, and calibration can be found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

Calibration of Alternative Specific Constants

The alternative specific constants for transit were adjusted to match the 2005 on-board survey results for boardings and linked trips. The transit ridership within the corridor experienced a decline compared to 1992 totals (potential causes of this include a month-long transit driver strike in 2003 and a series of fare increases over the past several years).

It is possible that ridership will increase at a rate higher than projected to more closely match land use growth within the corridor. Anecdotal reports from TheBus indicate that ridership has recently started to increase at a rate more in line with current land use and development throughout the corridor. However, the model forecasts accurately reflect what was found in the 2005 on-board survey.

Toll/Managed Lane Nest Implementation

A strategic model of toll choice behavior was implemented in the model since it offers the advantage of a logit-based decision model and can incorporate behavioral differences, such as value of time, and in socioeconomic and trip purpose variations.

Based on past experience, several variables influence toll facility use. The following were used in the OMPO model implementation:

- Toll cost: The monetary cost (in cents) of using a "toll-preferred" path.
- Distance on Toll Facility: The distance (in miles) of toll lanes used along the "toll-preferred" path. This variable allows a greater benefit for longer toll-facility trips, which presumably saves more time. It also discourages paths that might jump on and off toll barrier-free toll facilities for short distances.
- Time Savings: The time (in minutes) that is saved by the "toll-preferred" path over the non-toll path. Toll facilities are built to provide a time savings over parallel congested paths, so this time savings from toll lane use is an important variable.
- Additional Distance: With the same weight as the toll distance, this variable is the additional distance (if any) used by the toll-preferred path over the non-toll path and discourages unreasonable toll paths. This also serves to counterbalance

the toll lane distance variable, so that only the net distance saved/expended becomes important.

Detailed toll nest development, implementation, and variable generation can be found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

Model Calibration and Validation

Both the 1995 and 2005 models were calibrated and validated. Calibration Target Values were assigned and applied to the model. Details regarding the calibration and validation process, including the specific Calibration Target Values, can be found in the *Honolulu High-Capacity Transit Corridor Project Travel Forecasting Methodology Report (DTS, 2006d).*

New Starts Methodology Considerations

Fixed Person Trip and Highway Travel Time Matrices

In compliance with FTA guidance, land use, person trip, and highway travel time matrices were fixed throughout the analysis of all alternatives. The land use data, person trip distribution, and roadway travel times remain the same between alternatives. Changes to the transit service representative of each specific alternative caused changes in transit travel times which resulted in varied results in the mode choice model, thus providing mode share differences for each alternative.

TSM versus Baseline

The TSM Alternative used in this analysis was not intended to serve as the official FTA Baseline. The baseline alternative must be defined within the context of the Locally Preferred Alternative (LPA) which is the focus of this Alternatives Analysis Study. The build alternatives, including the TSM Alternative, were compared against the No Build Alternative for purposes of the Alternatives Analysis study. In some cases, the build alternatives were also compared against the TSM Alternative as it is defined here.

Chapter 2 Transit Service Level Impacts of the Alternatives

Each alternative has a specific impact to the performance of the transit system. Two particular measures used to assess the improvement of transit service are the Mode Share and Transit Travel Time. Both measures provide indications of how well an alternative improves transit service.

The mode share measure presents the numbers and relative percentages of people who choose a specific mode of transportation for all trips made throughout the day (Table 6) and for home-based trips to work (Table 7). If the number of transit trips made (or if the transit mode share) increases, that is an indication that the transit system is providing a high enough level of service to entice people to use transit rather than other modes, such as private autos, walking, or bicycle riding. Therefore, an increase in transit mode share is an indication that the transit system is performing better as compared to the No Build Alternative.

Transit travel time is another measure related to transit performance. Table 8 shows the future estimated a.m. peak-period transit travel times between 10 selected study corridor location pairs, as well as for the existing year 2005. For added context, estimated single-occupant auto travel times for the existing year 2005, as well as the year 2030 No Build Alternative, are also presented. The locations of the origins and destinations comprising the travel routes for which times are estimated are shown in Figure 3.

Transit travel time measures the amount of time required to complete a journey from origin to destination, assuming that the journey was made on the transit system. The same zone pairs and peak period used in the non-transit analysis were also used for this transit analysis. For this analysis, the transit travel time is expressed in two modes: walk-to-transit and drive-to-transit. While both modes represent the transit trip, the distinction between the two is the mode of access to transit. Walk-to-transit is applicable to all zone pairs across each alternative and includes the walking time to the transit access point as well as the walk time from where the rider leaves the transit vehicle to their final destination. The drive-to-transit access mode is only applicable for trips where a park-and-ride facility is available and using it provides a travel-time savings over the walk-to-transit mode, not necessarily for each zone pair or alternative; included is the drive time to the transit access point.

The travel times were obtained from the travel demand forecasting model. Existing travel times estimated by the model were compared to observed travel times and adjustments were made to the model estimates to bring them in line with observed values. In places where bottlenecks are known to exist in the system, the congested speeds calculated by the model were extended to match the length of known traffic queues. Additionally, speeds on the managed lanes were adjusted so as to maintain a minimum speed of 50 mph through the facility (excluding the access and egress points).

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Alternative 1: No Build

Mode Share

As compared to year 2005, total systemwide daily person trips are projected to increase by about 27 percent for the No Build Alternative in 2030, keeping pace with the projected growth in population between 2005 and 2030. Transit mode share for total daily trips as well as home-based work trips (Table 7) is expected to increase slightly over the current mode share. The enhancement of the HOV and zipper-lane systems provides some additional benefits, and hence, attractiveness, to the transit mode.

Transit Travel Times

As shown in Table 8, auto travel times for the No Build Alternative are either the same or longer than existing conditions between all origins and destinations selected, despite the fact that the "No Build" Alternative includes $3 billion of roadway improvements that are included in the O'ahu Regional Transportation Plan. However, the No Build Alternative also results in longer travel times for transit trips for many of the selected pairs. Some transit travel times, such as from Wai'anae to Downtown and from Mililani Mauka to Downtown, are projected to improve in the 2030 No Build Alternative. This is because these trips are able to take advantage of the extended HOV lanes on the H-1 Freeway; the improved operations of the zipper lane, which is assumed to be limited to three or more occupant vehicles by the year 2030; and/or the proposed Nimitz Flyover facility, which will give priority to HOVs and transit vehicles. Additionally, the transit travel time from Mililani Mauka to Downtown improves because it is assumed that bus service will be extended farther into the neighborhood, hence shortening walk access time.

Alternative 2: Transportation System Management

Mode Share

As shown in Table 6 and Table 7, the TSM Alternative, as a result of its enhanced bus service, results in a slightly higher transit mode share, at 6.4 percent (daily trips) and 12.1 percent (home-based work trips), than the No Build Alternative. Private vehicle trips and non-motorized trips are projected to decrease slightly in comparison to the No Build Alternative as more people are attracted to transit.

Transit Travel Times

Transit travel times for the year 2030 TSM Alternative are expected to generally improve over the No Build Alternative (Table 8). In most cases, the savings are due to the higher frequency of service and the shorter wait times for riders. Some locations experience larger travel-time benefits as a result of new express routes added for this alternative. The TSM Alternative also has a number of additional park-and-ride lots, and travel times would improve for those riders using these lots.

In general, travel-time benefits are moderate at best for the TSM Alternative as compared to the No Build. Table 8 shows that even by optimizing the bus system, only a marginal benefit in travel time would be gained because more buses on the road would not improve travel times in a majority of cases.

Alternative 3: Managed Lane

Mode Share

Both Managed Lane Alternative options, as shown in Table 6 and Table 7, are expected to result in a slightly higher transit mode share for daily trips (6.4 to 6.5 percent) as well as for home-based work trips (12.3 to 12.6 percent) than either the No Build or TSM Alternatives. The projected slight increase in daily transit trips and slight decrease in daily private vehicle trips is similar to that of the TSM Alternative.

Transit Travel Times

Table 8 shows that the Managed Lane Alternative options provide some transit travel-time benefit for selected trips in comparison with the No Build and TSM Alternatives; however, the majority of travel times either stays the same or gets worse. The Managed Lane Alternative options are projected to improve transit travel times for some origins and destination pairs that are particularly well served by the managed lane (e.g., Waipahu Transit Center to Downtown and Mililani to Downtown). In general however, the two Managed Lane options would increase traffic on the overall roadway system during the peak period and create more delay for buses. While bus speeds on the managed lanes are projected to be relatively high, the H-1 Freeway leading up to the managed lanes is projected to become more congested when compared to the other alternatives because cars accessing the managed lanes would increase traffic volumes in those areas. Additionally, significant congestion is anticipated to occur where the managed lanes connect to Nimitz Highway at Pacific Street near Downtown. Nimitz Highway is already projected to be over-capacity at this point, and the addition of high volumes of traffic exiting and entering the managed lanes would create increased congestion and high levels of delay for all vehicles using the facility, including buses. Hence, much of the time saved on the managed lane itself would be negated by the time spent in congestion leading up to the managed lane as well as exiting the lanes at their Downtown terminus. These impacts are more pronounced with the Reversible Option as compared to the Two-direction Option because it accommodates a higher volume of traffic in the peak direction and thus experiences greater congestion. Additionally, areas that are not directly served by the managed lane, such as from the Airport to Waikīkī, would not experience much change from the No Build or TSM Alternative projections. Hence, although the Managed Lane Alternative would provide some travel-time improvement for certain areas, it has significant limitations with regard to improving travel times or transit service for a broader customer base.

Alternative 4: Fixed Guideway

Mode Share

All of the Fixed Guideway Alternative options are expected to experience significantly higher systemwide daily transit ridership and mode share in comparison with all of the other alternatives, as shown in Table 6. The three Full-corridor Alignment options are expected to result in transit mode shares of 7.6 to 7.7 percent for daily trips and up to 16.2 percent for home-based work trips (Table 7). The Fixed Guideway options also see an increase in total daily transit trips over the No Build Alternative by 55,700 to 62,000 trips. The vast majority of these trips are drawn from the highway mode as automobile travel is expected to decrease by 53,400 to 60,000 trips. Of the three Full-corridor Alignment options, the Kalaeloa - Airport - Dillingham - Halekauwila combination is projected to experience the highest transit ridership with 294,100 trips. The 20-mile Alignment is expected to result in a transit mode share of 7.4 percent and an increase over the No Build Alternative of more than 46,000 transit trips. The transit mode share for home-based work trips for the 20-mile Alignment, 15.2 percent, is comparable with those of the Full-corridor Alignments. Similar to the Full-corridor Alignments, the bulk of these trips are expected to be drawn from the highway mode as automobile travel is projected to decrease by 44,600 trips in comparison to the No Build Alternative, by 33,000 as compared to the TSM Alternative, and by 28,000 to 29,000 trips as compared to the Managed Lane Alternative options.

Transit Travel Times

In general, the four Fixed Guideway options provide the fastest transit travel times of all the alternatives and are often either as fast as, or faster than, projected auto travel time for the No Build Alternative (Table 8). In particular, "drive-to-transit" trips (i.e., park-and-ride transit trips) provide significant savings from several locations (e.g., Wai'anae, ''Ewa, and Mililani).

Among the Fixed Guideway Alternative options, the Kalaeloa - Salt Lake - North King - Hotel combination would result in slightly faster travel times from the Leeward side to Downtown because of a shorter alignment through the Salt Lake community - as opposed to traveling past the Airport - as well as a more central location Downtown (i.e., Hotel Street rather than Halekauwila Street). However, trips from the Airport would be significantly longer for this option as compared to the others.

The Kamokila - Airport - Dillingham - King with a Waikīkī Branch combination, in general, shows similar benefits for transit as the Kalaeloa - Salt Lake - North King - Hotel combination, although it is a few minutes slower for many trips because of the longer alignment that serves the Airport. However, since this alignment provides direct service to Waikīkī, transit travel times to and from Waikīkī are expected to be much faster than for all other alternatives and options.

The Kalaeloa - Airport - Dillingham - Halekauwila combination also has similar patterns as the other combination options. However, because of the longer alignment makai into Kalaeloa along Saratoga Avenue, as well as the location of stations on the edge of Downtown (e.g., Nimitz Highway/Fort Street and South Street/Halekauwila Street) rather than in the center of Downtown, walk-to-transit travel times from Wai'anae would be longer than transit travel times for the No Build Alternative; however, drive-to-transit travel times are shorter.

Other than the Kapolei to Downtown walk-to-transit travel time, which is 10 to 14 minutes longer, the 20-mile Alignment generally shows the same pattern as the other Fixed Guideway alternative combinations. Even with a shorter overall service length and some longer travel times as compared to the Full-corridor Alignments, the 20-mile Alignment provides transit travel times that compare favorably to the other alternatives and are competitive with the 2030 auto travel times in most cases.

Table 6. Total Daily Person Trips by Mode

Alternative	Transit Trips	Vehicle Trips	Bicycle/Walk Trips	Total Trips[1]
2005 Existing Conditions				
Existing Conditions	178,400	2,370,000	450,100	2,998,500
% Mode Share	*5.9%*	*79.0%*	*15.0%*	*100%*
Alternative 1: 2030 No Build				
No Build Alternative	232,100	3,022,100	547,300	3,801,500
% Mode Share	*6.1%*	*79.5%*	*14.4%*	*100%*
Alternative 2: 2030 Transportation System Management				
TSM Alternative	243,100	3,011,900	546,600	3,801,600
% Mode Share	*6.4%*	*79.2%*	*14.4%*	*100%*
Alternative 3: 2030 Managed Lane				
Two-direction Option	247,000	3,008,200	546,500	3,801,700
% Mode Share	*6.5%*	*79.1%*	*14.4%*	*100%*
Reversible Option	247,400	3,007,600	546,700	3,801,700
% Mode Share	*6.5%*	*79.1%*	*14.4%*	*100%*
Alternative 4: 2030 Fixed Guideway				
Kalaeloa - Salt Lake - North King - Hotel	293,600	2,962,100	546,300	3,802,000
% Mode Share	*7.7%*	*77.9%*	*14.4%*	*100%*
Kamokila - Airport - Dillingham - King with a Waikīkī Branch	287,800	2,968,700	546,500	3,803,000
% Mode Share	*7.6%*	*78.1%*	*14.4%*	*100%*
Kalaeloa - Airport - Dillingham - Halekauwila	294,100	2,962,500	546,000	3,802,600
% Mode Share	*7.7%*	*77.9%*	*14.4%*	*100%*
20-mile Alignment East Kapolei to Ala Moana Center	281,900	2,974,100	546,200	3,802,200
% Mode Share	*7.4%*	*78.2%*	*14.4%*	*100%*

[1]Includes resident transit trips, visitor transit, resident vehicle, and non-motorized trips.

Table 7. Transit Mode Share for Home-based Work Trips by Alternative

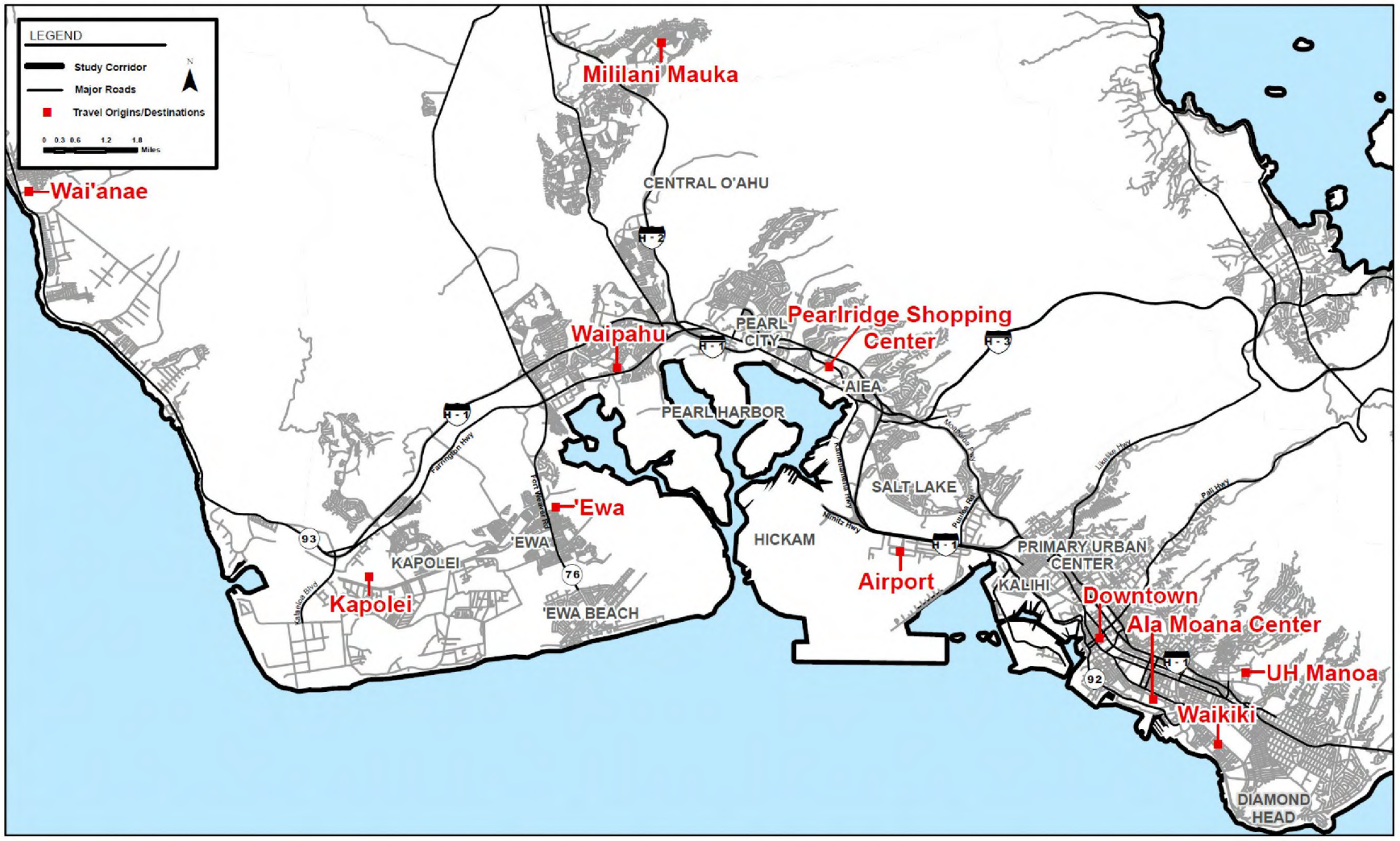
Alternative	% Transit Mode Share
2005 Existing Conditions	
Existing Conditions	10.9%
Alternative 1: 2030 No Build	
No Build Alternative	11.2%
Alternative 2: 2030 Transportation System Management	
TSM Alternative	12.1%
Alternative 3: 2030 Managed Lane	
Two-direction Option	12.6%
Reversible Option	12.6%
Alternative 4: 2030 Fixed Guideway	
Kalaeloa - Salt Lake - North King - Hotel	16.2%
Kamokila - Airport - Dillingham - King with a Waikīkī Branch	15.7%
Kalaeloa - Airport - Dillingham - Halekauwila	16.2%
20-mile Alignment East Kapolei to Ala Moana Center	15.2%

Table 8. A.M. Peak-Period Transit Travel Times by Alternative (in minutes)

Alternative	Travel origin and destination									
	From Wai'anae To Downtown	From Kapolei To Downtown	From "Ewa To Downtown	From Waipahu To Downtown	From Mililani Mauka To Downtown	From Pearlridge Center To Downtown	From Downtown To Ala Moana Center	From Downtown To Waikīkī	From Downtown To UH Mānoa	From Airport To Waikīkī
2005 Existing Conditions										
Walk to Transit	87	65	68	53	90	46	18	32	31	70
Drive to Transit*	N/A	N/A	N/A	N/A	67	N/A	N/A	N/A	N/A	N/A
Auto Travel Time	81	58	60	45	60	33	17	23	21	36
Alternative 1: 2030 No Build										
Walk to Transit	79	68	67	69	78	51	18	34	41	72
Drive to Transit	N/A	N/A	N/A	N/A	67	N/A	N/A	N/A	N/A	N/A
Auto Travel Time	83	62	70	53	60	35	17	24	22	38
Alternative 2: 2030 Transportation System Management										
Walk to Transit	79	67	67	57	61	46	15	33	31	72
Drive to Transit	68	57	59	N/A	57	41	N/A	N/A	N/A	N/A
Alternative 3: 2030 Managed Lane										
Two-direction Option										
Walk to Transit	87	70	70	52	61	40	19	33	35	68
Drive to Transit	74	63	65	N/A	53	N/A	N/A	N/A	N/A	N/A
Reversible Option										
Walk to Transit	89	72	72	56	66	41	20	33	35	69
Drive to Transit	75	65	67	N/A	58	N/A	N/A	N/A	N/A	N/A
Alternative 4: 2030 Fixed Guideway										
Kalaeloa - Salt Lake - North King - Hotel										
Walk to Transit	79	51	59	34	55	29	13	28	24	63
Drive to Transit	63	43	45	32	38	29	N/A	N/A	N/A	N/A
Kamokila - Airport - Dillingham - King with a Waikīkī Branch										
Walk to Transit	79	54	72	39	59	33	15	21	28	31
Drive to Transit	63	47	49	36	43	31	N/A	N/A	N/A	N/A
Kalaeloa - Airport - Dillingham - Halekauwila										
Walk to Transit	85	55	66	41	61	35	17	40	28	42
Drive to Transit	70	49	51	39	45	33	N/A	N/A	N/A	N/A
20-mile Alignment East Kapolei to Ala Moana Center										
Walk to Transit	85	65	63	41	61	35	17	33	31	42
Drive to Transit	66	49	50	39	45	33	N/A	N/A	N/A	N/A

* A drive to transit trip indicates a trip where the transit user drove to a park-and-ride lot to access transit.

Figure 3: Locations of Origins and Destinations for Selected Travel Time Routes



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Chapter 3 Ridership Impacts of the Alternative

This section describes the transit ridership impacts associated with each of the alternatives. To assist in the analysis of the impacts, the ridership figures are summarized for each of the alternatives in many cases at both the system-wide level and for the 25 Transportation Analysis Areas as shown in Figure 4.

Transit Trips by Time of Day

Table 9 presents transit trips by time of day and indicates that in the Year 2030, the No Build Alternative is expected to carry 232,100 daily transit trips, while the TSM and Managed Lanes Alternatives carry an average of 245,000 daily transit trips. The Fixed Guideway Alternatives carry between 281,900 and 294,200 daily transit trips, a 21 to 27 percent increase over the No Build Alternative.

Overall, the TSM Alternative carries 11,000 additional transit trips over the No Build Alternative. Of this increase, 7,700 are during the peak period and 3,300 are during the off-peak. The larger increase in peak-period trips results from the large increase in peak-period service for the TSM Alternative relative to the No Build Alternative.

The Managed Lane Alternative options are projected to carry only between 3,900 and 4,300 more daily transit trips than the TSM Alternative. Most of this minimal increase is expected to occur in peak-period trips rather than off-peak trips.

The Fixed Guideway Alternative options generate between 39,000 and 51,000 additional transit trips over the TSM Alternative. Of this total increase, between 27,000 and 36,000 trips are during the peak period, and between 12,000 and 16,000 are during the off-peak. The a.m. peak-period experiences the largest percentage increase over the No Build Alternative (27 to 33 percent) indicating that the Fixed Guideway Alternative attracts the highest number of transit riders during the critical peaks when the roadways are most congested.

Transit Trips by Trip Purpose

Table 10 summarizes daily transit trips by purpose for each of the alternatives. Compared to the No Build Alternative, all trip purposes except visitor trips fare better with the TSM Alternative, with increases ranging from 3.4 percent to 7.9 percent more transit trips.

Excluding visitor trips, the Managed Lane Alternative options carry anywhere from 4.2 to 12 percent more transit trips in comparison to the No Build Alternative across the selected trip purposes. This is slightly more than for the TSM Alternative.

Figure 4: Transportation Analysis Area (TAA) Locations

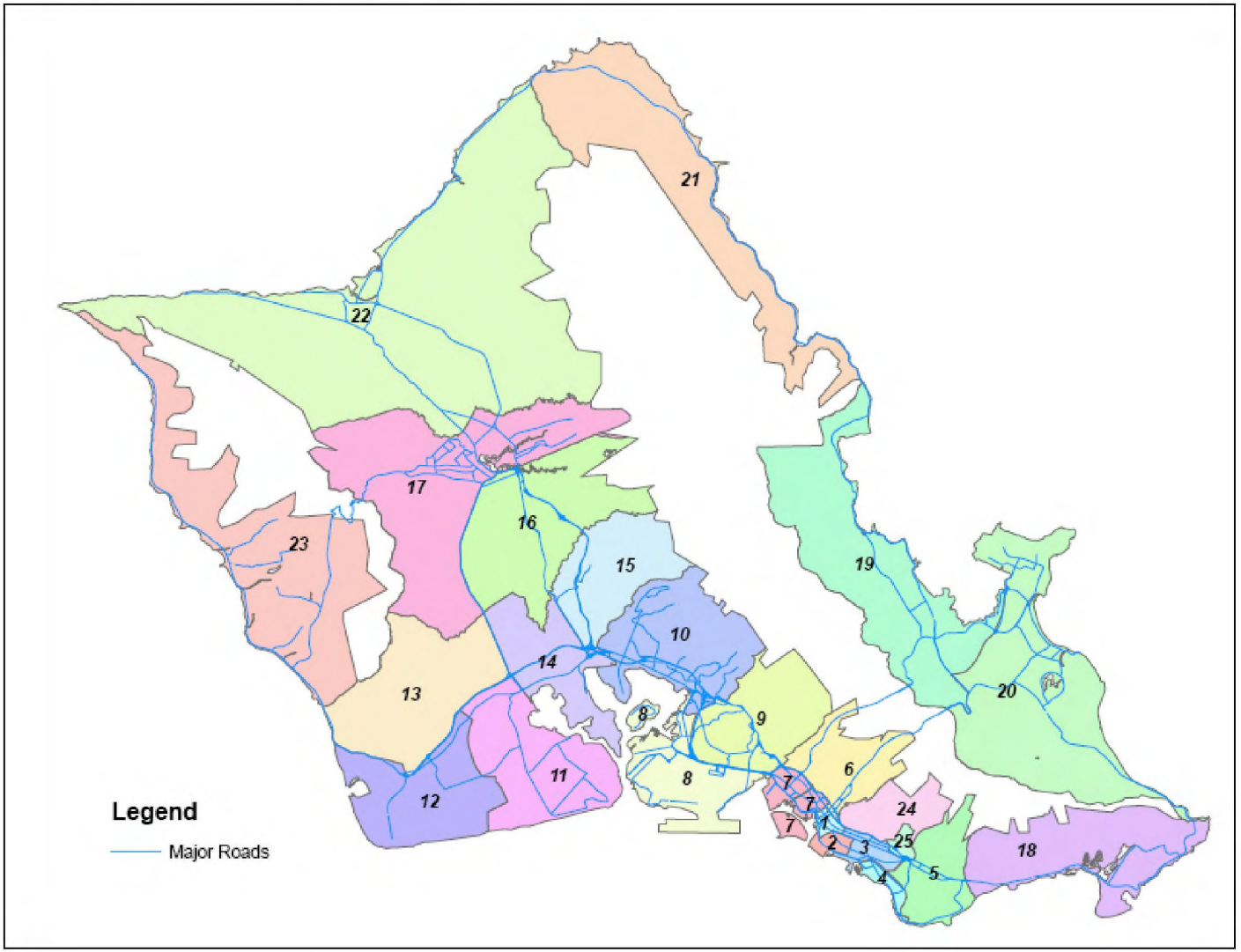

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Table 9. Transit Trips by Time of Day

Alternative	A.M. 2-Hour Peak	Peak Period	Off-Peak Period	Total Trips[1]
Alternative 1: 2030 No Build				
No Build Alternative	38,000	146,800	85,300	232,100
Alternative 2: 2030 Transportation System Management				
TSM Alternative	40,200	154,500	88,600	243,100
% Change from No Build	*5.8%*	*5.2%*	*3.9%*	*4.7%*
Alternative 3: 2030 Managed Lane				
Two-direction Option	41,200	157,700	89,300	247,000
% Change from No Build	*8.4%*	*7.4%*	*4.7%*	*6.4%*
Reversible Option	41,300	158,000	89,400	247,400
% Change from No Build	*8.7%*	*7.6%*	*4.8%*	*6.6%*
Alternative 4: 2030 Fixed Guideway				
Kalaeloa - Salt Lake - North King - Hotel	50,700	190,000	103,600	293,600
% Change from No Build	*33%*	*29%*	*21%*	*27%*
Kamokila - Airport - Dillingham - King with a Waikīkī Branch	49,300	185,400	102,500	287,800
% Change from No Build	*30%*	*26%*	*20%*	*24%*
Kalaeloa - Airport - Dillingham - Halekauwila	50,600	190,000	104,200	294,100
% Change from No Build	*33%*	*29%*	*22%*	*27%*
20-mile Alignment East Kapolei to Ala Moana Center	48,100	181,400	100,500	281,900
% Change from No Build	*27%*	*24%*	*18%*	*21%*

[1] Trips added up across time-of-day periods may not equal the total due to rounding differences.

Table 10. Transit Trips by Trip Purpose

Alternative	Home-Based Work	Home-Based Other	Non-Home Based	Visitor	Total Trips[1]
Alternative 1: 2030 No Build					
No Build Alternative	71,000	103,100	35,600	22,400	232,100
Alternative 2: 2030 Transportation System Management					
TSM Alternative	76,600	107,400	36,800	22,300	243,100
% Change from No Build	*7.9%*	*4.2%*	*3.4%*	*-0.4%*	*4.7%*
Alternative 3: 2030 Managed Lane					
Two-direction Option	79,600	108,000	37,100	22,300	247,000
% Change from No Build	*12%*	*4.8%*	*4.2%*	*-0.4%*	*6.4%*
Reversible Option	79,800	108,200	37,100	22,300	247,400
% Change from No Build	*12%*	*4.9%*	*4.2%*	*-0.4%*	*6.6%*
Alternative 4: 2030 Fixed Guideway					
Kalaeloa - Salt Lake - North King - Hotel	102,300	125,600	43,100	22,700	293,600
% Change from No Build	*44%*	*22%*	*21%*	*1.3%*	*27%*
Kamokila - Airport - Dillingham - King with a Waikīkī Branch	99,000	121,900	42,700	24,200	287,800
% Change from No Build	*39%*	*18%*	*20%*	*8.0%*	*24%*
Kalaeloa - Airport - Dillingham - Halekauwila	102,300	124,600	43,600	23,700	294,100
% Change from No Build	*44%*	*21%*	*22%*	*5.8%*	*27%*
20-mile Alignment East Kapolei to Ala Moana Center	96,300	120,300	42,000	23,300	281,900
% Change from No Build	*36%*	*17%*	*18%*	*4.0%*	*21%*

[1]Trips added up across all trip purposes may not equal the total due to rounding differences.

The Fixed Guideway Alternative options, however, carry a significantly larger number of transit trips in comparison to both the No Build and TSM Alternatives, with the largest increase (36 to 44 percent) being in home-based work trips. As the majority of work trips occur in the peak periods, the increase in home-based work trips for the Fixed Guideway Alternative reflects the improved travel times and service during the peak period between residential areas throughout O‘ahu and the employment areas in Downtown Honolulu, Ala Moana, Waikīkī , and UH Mānoa .

Transit Trips by Auto Ownership Level

Table 11 summarizes the daily transit trips by auto ownership level for the alternatives being studied. This table does not include visitor trips, because the auto ownership levels of visitors have little effect on their choice of mode while on O‘ahu. Non-home based trips are also excluded because the generation of these trips is not dependent on auto ownership.

There is little variation among all of the alternatives in transit trips from the zero-auto households. This is because these households are more transit-dependent and have fewer options for travel regardless of the level of transit service provided.

The TSM Alternative shows a minimal increase over the No Build Alternative, with the slight increase being in transit trips made from households with one or more private automobiles.

The Managed Lane Alternative options show a small increase in transit trips over the TSM Alternative for one-car and two-or-more-car auto ownership households.

Table 11 shows that the total number of transit trips increases across all auto ownership categories for the Fixed Guideway Alternative options. Transit trips for zero-car households show a small increase over the No Build Alternative (6.3 to 6.6 percent), but relatively large increases are seen for both one-auto households (26 to 32 percent) and households with two or more autos (42 to 54 percent). This increase in ridership at higher levels of auto ownership indicates that the Fixed Guideway Alternative options are more attractive to those who have multiple options for travel.

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Table 11. Daily Transit Trips by Auto Ownership Levels

Alternative	Zero Autos Per Household	One Auto Per Household	Two or More Autos Per Household	Total
Alternative 1: 2030 No Build				
No Build Alternative	57,200	61,700	55,700	174,600
Alternative 2: 2030 Transportation System Management				
TSM Alternative	58,800	65,400	60,200	184,400
% Change from No Build	*2.8%*	*6.0%*	*8.1%*	*5.6%*
Alternative 3: 2030 Managed Lane				
Two-direction Option	59,100	66,800	62,200	188,100
% Change from No Build	*3.3%*	*8.3%*	*12%*	*7.7%*
Reversible Option	58,900	66,800	62,700	188,400
% Change from No Build	*3.0%*	*8.3%*	*12.6%*	*7.9%*
Alternative 4: 2030 Fixed Guideway				
Kalaeloa - Salt Lake - North King - Hotel	61,000	81,400	85,900	228,300
% Change from No Build	*6.6%*	*32%*	*54%*	*31%*
Kamokila - Airport - Dillingham - King with a Waikīkī Branch	60,800	79,100	81,400	221,300
% Change from No Build	*6.3%*	*28%*	*46%*	*27%*
Kalaeloa - Airport - Dillingham - Halekauwila	61,100	80,900	85,200	227,300
% Change from No Build	*6.8%*	*31%*	*53%*	*30%*
20-mile Alignment: East Kapolei to Ala Moana Center	60,800	77,500	78,900	217,100
% Change from No Build	*6.3%*	*26%*	*42%*	*24%*

Transit Trip Differences: No-Build versus TSM Alternative

The patronage results for the No Build Alternative for daily, peak-period, and off-peak-period trips are summarized in Table 12 through Table 14, respectively. The daily trip tables are further summarized by trip purpose in Table 15 through Table 18, showing home-based work, home-based other, non-home based, and visitor trips, respectively. The results for the TSM Alternative for daily, peak, and off-peak trips are summarized in Table 19 through Table 21, respectively. The TSM Alternative daily trip table is summarized by trip purpose (work, non-work, non-home based, and visitor) in Table 22 through Table 25, respectively. The differences in ridership generated between the two alternatives are summarized in Table 26 through Table 28 for daily, peak, and off-peak periods, respectively. The difference in daily ridership by purpose is shown in Table 29 through Table 32 for work, non-work, non-home based, and visitor trips, respectively.

The TSM Alternative is projected to carry 11,000 more daily transit trips than the No Build Alternative, with 7,700 in the peak period and 3,300 in the off-peak. The majority of these additional trips are short trips within areas outside of the PUC. The TSM Alternative is also expected to result in 5,600 more transit home-based work

trips than the No Build Alternative. Many of these trips will be within Central O'ahu and 'Ewa, where more local bus routes would attract additional local transit trips. The TSM Alternative would also attract 4,300 more home-based other trips than the No Build Alternative. Again, most of these added trips would be outside of the PUC.

The 1,100 non-home-based trips that the TSM Alternative adds to the No Build Alternative would be distributed throughout the island. There is a minimal difference in visitor transit trips between these two alternatives.

Transit Trip Differences: No-Build versus Managed Lane Alternative Two-Direction Option

The patronage results for the Managed Lane Alternative Two-direction Option for daily, peak period, and off-peak-period trips are summarized in Table 33 through Table 35, respectively. The breakdown of daily transit trips by trip purpose is seen in Table 36 through Table 39 for home-based work, home-based other, non-home based, and visitor trips, respectively. The differences in ridership between the Two-direction Option and the No Build Alternative are summarized in Table 40 through Table 42 for daily, peak, and off-peak periods, respectively. The difference between the Two-direction Option and the No Build Alternative for work, non-work, non-home based, and visitor trips is shown in Table 43 through Table 46, respectively.

The Two-direction Option is projected to attract only slightly more daily transit riders than the TSM Alternative, providing only 14,900 more daily transit riders as compared to the No Build Alternative. Of these daily riders, the Two-direction Option has 8,600 more home-based work trips, 4,900 more home-based other trips, and 1,500 more non-home-based trips compared to the No Build Alternative.

About 73 percent of the Two-direction Option's additional transit trips over the No Build Alternative are in the peak period. And 27 percent of the additional trips are in the off-peak period.

There was no noticeable difference in visitor trips between the Two-direction Option and the No Build Alternative.

Transit Trip Differences: No-Build versus Managed Lane Alternative Reversible Option

The patronage results for the Managed Lane Alternative Reversible Option for daily, peak period, and off-peak-period trips are summarized in Table 47 through Table 49, respectively. The breakdown of daily transit trips by trip purpose is seen in Table 50 through Table 53 for home-based work, home-based other, non-home based, and visitor trips, respectively. The differences in ridership between the Reversible Option and the No Build Alternative are summarized in Table 54 through Table 56 for daily, peak, and off-peak periods, respectively. The differences between the Reversible

Option and the No Build Alternative for work, non-work, non-home-based, and visitor trips are shown in Table 57 through Table 60, respectively.

The Reversible Option provides only 15,300 more daily transit riders compared to the No Build Alternative. Of these daily riders, the Reversible Option has 8,800 more home-based work trips, 5,100 more home-based other trips, and 1,500 more non-home-based trips compared to the No Build Alternative.

About 73 percent of the Reversible Option's additional transit trips over the No Build Alternative are in the peak period. And 27 percent of the additional trips are in the off-peak period.

There was no noticeable difference in visitor trips between the Reversible Option and the No Build Alternative.

Transit Trip Differences: No-Build versus Fixed Guideway Alternative Full-Corridor Alignment Combination 1

The patronage results for the Fixed Guideway Combination 1 Option, the Kalaeloa – Salt Lake – North King – Hotel alignment, for daily, peak period, and off-peak-period trips are summarized in Table 61 through Table 63, respectively. The breakdown of daily transit trips by trip purpose is seen in Table 64 through Table 67 for home-based work, home-based other, non-home based, and visitor trips, respectively. The differences in ridership between Combination 1 and the No Build Alternative are summarized in Table 68 through Table 70 for daily, peak, and off-peak periods, respectively. The difference between Combination 1 and the No Build Alternative for work, non-work, non-home based, and visitor trips is shown in Table 71 through Table 74, respectively.

One of the primary benefits provided by the Combination 1 Option is the travel-time savings for trips from ''Ewa and Central O'ahu to employment sites in the Downtown, Kapolei, and Pearl City/'Aiea areas during peak periods. This time savings results in the Combination 1 option carrying 31,200 more home-based work transit riders than the No Build Alternative.

The Combination 1 Option also results in an additional 22,500 home-based other transit trips as compared to the No Build Alternative. About 18 percent of these trips have UH Mānoa as the attraction, which is the eastern terminus for this fixed guideway option.

Additionally, the 7,500 more non-home-based transit trips projected for Combination 1 as compared to the No Build Alternative occur primarily to, from, and within the Salt Lake, Pearl City/'Aiea, and Kapolei areas.

There is relatively little difference in transit visitor trips between any of the Fixed Guideway Alternative combination options and the No Build Alternative.

Transit Trip Differences: No-Build versus Fixed Guideway Alternative Full-Corridor Alignment Combination 2

The patronage results for the Fixed Guideway Combination 2 Option, the Kamokila – Airport – Dillingham – King with a Waikīkī Branch alignment, for daily, peak period, and off-peak-period trips are summarized in Table 75 through Table 77, respectively. The breakdown of daily transit trips by trip purpose is seen in Table 78 through Table 81 for home-based work, home-based other, non-home based, and visitor trips, respectively. The differences in ridership between Combination 2 and the No Build Alternative are summarized in Table 82 through Table 84 for daily, peak, and off-peak periods, respectively. The differences between Combination 2 and the No Build Alternative for work, non-work, non-home based, and visitor trips are shown in Table 85 through Table 88, respectively.

One of the most significant benefits provided by the Combination 2 Option is the travel-time savings for trips from ‘‘Ewa and Central O‘ahu to employment sites in the Downtown, Kapolei, and Pearl City/‘Aiea areas during peak travel periods. As a result, the Combination 2 Option is projected to carry 28,000 more home-based work transit riders than the No Build Alternative.

The Combination 2 Option also results in an additional 18,800 home-based other transit trips as compared to the No Build Alternative. About 16 percent of these trips have UH Mānoa as the attraction, which is the eastern terminus for this fixed guideway option.

Additionally, the 7,100 more non-home-based transit trips projected for Combination 2 as compared to the No Build Alternative occur primarily to, from, and within the Salt Lake/Airport, Pearl City/‘Aiea, and Kapolei areas.

There is relatively little difference in transit visitor trips between any of the Fixed Guideway Alternative combination options and the No Build Alternative.

Transit Trip Differences: No-Build versus Fixed Guideway Alternative Full-Corridor Alignment Combination 3

The patronage results for the Fixed Guideway Combination 3 Option, the Kalaeloa – Airport – Dillingham – Halekauwila alignment, for daily, peak period, and off-peak-period trips are summarized in Table 89 through Table 91, respectively. The breakdown of daily transit trips by trip purpose is seen in Table 92 through Table 95 for home-based work, home-based other, non-home based, and visitor trips, respectively. The differences in ridership between Combination 3 and the No Build Alternative are summarized in Table 96 through Table 98 for daily, peak, and off-peak periods, respectively. The differences between Combination 3 and the No Build Alternative for work, non-work, non-home based, and visitor trips are shown in Table 99 through Table 102, respectively.

One of the most significant benefits provided by the Combination 3 Option is the travel-time savings for trips from ‘‘Ewa and Central O‘ahu to employment sites in the Downtown, Kapolei, and Pearl City/‘Aiea areas during peak travel periods. As a result, this option carries 31,200 more home-based work transit riders than the No Build Alternative.

The Combination 3 Option also results in an additional 21,500 home-based other transit trips as compared to the No Build Alternative. About 17 percent of these have UH Mānoa as the attraction, which is the eastern terminus for this fixed guideway option.

Additionally, the 8,000 more non-home-based transit trips projected for Combination 3 as compared to the No Build Alternative occur primarily to, from, and within the Salt Lake/Airport, Pearl City/‘Aiea, and Kapolei areas.

There is relatively little difference in transit visitor trips between any of the Fixed Guideway Alternative combination options and the No Build Alternative.

Transit Trip Differences: No-Build versus Fixed Guideway Alternative 20-Mile Alignment

The patronage results for the Fixed Guideway 20-mile Alignment Option, the East Kapolei to Ala Moana Center alignment, for daily, peak period, and off-peak-period trips are summarized in Table 103 through Table 105, respectively. The breakdown of daily transit trips by trip purpose is seen in Table 106 through Table 109 for home-based work, home-based other, non-home based, and visitor trips, respectively. The differences in ridership between the 20-mile Alignment and the No Build Alternative is summarized in Table 110 through Table 112 for daily, peak, and off-peak periods, respectively. The difference between the 20-mile Alignment and the No Build Alternative for work, non-work, non-home based, and visitor trips is shown in Table 113 through Table 116, respectively.

One of the most significant benefits provided by the 20-mile Alignment Option is the travel-time savings for trips from ‘‘Ewa and Central O‘ahu to employment sites in the Downtown, Kapolei, and Pearl City/‘Aiea areas along the rail alignment. This time savings is the primary reason the 20-mile Alignment Option carries 25,300 more home-based work transit riders than the No Build Alternative.

The 20-mile Alignment Option also results in an additional 17,200 home-based other transit trips as compared to the No Build Alternative. About 12 percent of these have UH Mānoa as the attraction, which is the eastern terminus for this fixed guideway option.

Additionally, the 6,300 more non-home-based transit trips projected for Combination 3 as compared to the No Build Alternative occur primarily to, from, and within the Salt Lake/Airport, Pearl City/‘Aiea, and Kapolei areas.

There is relatively little difference in transit visitor trips between any of the Fixed Guideway Alternative combination options and the No Build Alternative.

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Table 12. 2030 Daily Total Transit Trips No Build Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 NOBUILD E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1951	1246	1166	588	460	868	1203	399	452	160	8	37	1	47	17	11	18	61	74	117	13	6	11	236	307	9457
2 Kaka'ako	1934	1482	1828	1116	596	664	949	279	295	104	8	31	3	38	18	13	11	96	48	61	11	2	13	369	377	10346
3 Makiki	4155	2038	2831	2137	2054	642	1076	381	384	160	16	38	2	49	25	29	42	266	47	171	52	10	21	808	1132	18566
4 Waikīkī	5794	1622	3435	3271	2077	483	892	848	302	211	7	28	1	71	13	11	9	351	94	148	25	127	14	487	785	21106
5 Kaimukī Wa	1911	746	1726	1670	2659	328	521	156	201	79	6	37	3	35	14	13	15	466	54	37	8	5	10	480	793	11973
6 Kalihi Nuu	2807	973	792	553	402	1688	2662	643	829	271	12	55	1	92	23	19	17	43	149	136	19	6	10	249	336	12787
7 Iwilei	1516	678	534	255	251	799	1698	604	599	242	11	41	2	55	24	17	14	25	58	36	7	11	10	142	214	7843
8 Airport PH	433	88	132	218	43	117	396	714	510	158	13	23	4	81	33	17	9	11	16	82	11	2	9	18	56	3194
9 SaltLake H	1176	332	359	218	192	381	1013	1465	2445	687	34	83	3	189	70	32	43	40	65	89	15	11	22	69	308	9341
10 PC 'Aiea	929	268	292	196	174	256	725	1250	1538	3495	106	283	21	826	351	218	147	36	90	73	34	15	43	79	372	11817
11 'Ewa	871	351	434	968	292	277	462	567	519	814	3049	3163	143	1267	149	174	151	92	94	147	110	30	264	204	762	15354
12 Kapolei	656	248	317	662	247	236	382	382	386	570	956	4678	298	634	107	132	95	78	79	117	106	29	659	143	719	12916
13 Makakilo	320	131	158	300	119	139	181	184	214	265	167	1179	148	193	27	40	37	43	35	70	50	7	308	89	273	4677
14 Waipahu	569	177	306	667	151	168	323	398	404	1182	541	648	46	2253	459	402	204	35	55	83	41	22	73	112	331	9650
15 Waiawa	432	124	264	448	113	97	258	294	293	1111	103	235	15	877	900	742	393	27	37	55	27	23	41	56	310	7275
16 Mililani	731	221	225	222	136	128	322	367	286	533	75	228	20	519	602	2685	1668	37	44	116	46	77	26	70	432	9816
17 Wahiawā Sc	441	139	168	135	87	74	166	157	128	181	29	99	6	172	174	900	1775	27	22	47	34	86	19	36	350	5452
18 E Honolulu	1215	381	766	710	1533	215	319	155	167	87	13	29	2	22	14	12	25	1641	46	165	23	7	21	232	576	8376
19 Kāne'ohe	1092	284	253	233	156	316	471	261	291	155	13	61	3	54	23	24	14	23	2415	643	174	22	10	59	312	7362
20 Kailua	1679	399	330	290	237	301	412	248	265	159	23	72	9	88	23	25	29	82	671	3254	55	8	26	70	413	9168
21 Ko'olauloa	218	78	89	104	61	42	76	86	69	38	10	21	2	48	18	19	19	44	78	57	1182	59	5	24	94	2541
22 North Shor	262	92	118	129	50	55	130	112	99	110	13	29	4	51	49	145	331	20	38	28	229	1049	15	33	224	3415
23 Wai'anae	742	286	341	397	192	143	346	439	316	193	87	864	67	194	50	60	65	61	54	97	24	11	2542	83	564	8218
24 Mānoa	2178	1026	1477	882	785	514	689	206	214	93	2	42	2	29	19	12	11	98	41	109	11	2	4	645	639	9730
25 UHManoa	405	112	307	205	218	56	86	26	33	15	2	5	1	7	5	0	3	26	7	20	1	1	1	116	49	1707
Totals	34417	13522	18648	16574	13285	8987	15758	10621	11239	11073	5304	12009	807	7891	3207	5752	5145	3729	4411	5958	2308	1628	4177	4909	10728	232087

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Table 13. 2030 Peak Period Transit Trips No Build Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 NOBUILD E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1070	718	706	371	287	584	717	270	296	120	6	24	1	19	10	7	12	40	54	65	8	3	3	154	209	5754
2 Kaka'ako	1245	762	1052	742	403	491	629	198	204	70	6	20	2	28	12	10	3	71	36	44	5	2	4	281	261	6581
3 Makiki	2669	1206	1503	1276	1277	443	707	244	264	103	10	20	1	30	17	19	18	183	36	97	29	4	10	520	705	11391
4 Waikīkī	3097	934	1799	1670	1123	273	508	421	170	109	2	17	0	40	7	8	5	192	46	76	13	57	7	294	461	11329
5 Kaimukī Wa	1272	482	1128	1103	1530	219	333	114	127	53	3	19	0	25	7	7	11	311	35	20	6	4	2	317	490	7618
6 Kalihi Nuu	1842	577	491	343	238	1062	1602	420	523	176	8	38	0	50	19	12	14	21	101	80	13	4	3	158	229	8024
7 Iwilei	933	405	327	169	155	534	856	386	392	147	7	22	0	26	17	12	7	17	42	19	5	6	5	82	139	4710
8 Airport PH	245	53	69	104	25	68	221	402	283	82	7	15	1	56	20	10	4	4	10	39	3	1	3	13	37	1775
9 SaltLake H	767	199	207	129	125	242	613	871	1494	412	20	50	1	112	37	19	25	23	43	52	8	8	11	37	206	5711
10 PC 'Aiea	650	168	185	134	122	178	483	858	1032	2097	66	183	14	525	213	149	93	21	67	48	29	9	32	39	269	7664
11 'Ewa	635	244	293	703	201	214	308	372	344	559	2009	1965	98	760	85	121	119	67	65	94	87	19	222	146	580	10310
12 Kapolei	452	172	216	448	172	190	260	252	267	417	638	2650	179	410	66	89	65	60	54	72	86	18	561	109	543	8446
13 Makakilo	230	94	114	222	84	117	127	129	168	201	115	730	85	130	17	27	31	37	27	55	41	3	271	69	217	3341
14 Waipahu	412	112	233	492	109	127	206	264	245	719	349	402	28	1337	275	312	154	25	35	59	30	17	57	81	265	6345
15 Waiawa	314	88	181	338	79	64	163	181	184	709	75	153	11	564	498	560	301	19	28	35	20	14	34	36	214	4863
16 Mililani	512	160	163	148	93	93	206	254	190	337	46	142	13	337	362	1777	1158	24	28	66	32	55	19	49	308	6572
17 Wahiawā Sc	286	93	105	90	55	50	108	102	78	120	17	53	5	111	99	588	1051	13	10	27	21	63	8	20	247	3420
18 E Honolulu	856	261	508	481	952	149	219	104	113	55	5	20	2	13	10	9	11	1038	37	123	14	4	13	157	384	5538
19 Kāne'ohe	801	203	176	156	107	215	319	184	190	104	6	42	2	39	18	19	7	12	1479	422	124	8	3	43	216	4895
20 Kailua	1145	267	229	198	144	209	293	189	185	95	16	43	2	55	13	20	15	59	455	2040	37	5	10	42	269	6035
21 Ko'olauloa	154	54	53	63	36	28	46	50	36	22	5	13	0	22	8	10	12	23	42	31	827	40	3	10	63	1651
22 North Shor	199	61	83	82	32	34	86	74	63	63	7	19	3	32	31	91	227	10	24	12	160	674	6	21	164	2258
23 Wai'anae	529	199	227	275	117	96	232	277	189	104	60	549	37	124	27	42	39	33	26	51	14	4	1779	52	423	5505
24 Mānoa	1434	612	881	592	484	325	441	138	142	57	2	32	2	16	14	9	6	69	26	60	6	2	1	372	387	6110
25 UHManoa	236	71	172	113	125	35	57	18	18	8	2	3	1	1	2	0	1	16	5	10	0	0	1	55	28	978
Totals	21985	8195	11101	10442	8075	6040	9740	6772	7197	6939	3487	7224	488	4862	1884	3927	3389	2388	2811	3697	1618	1024	3068	3157	7314	146824

Table 14. 2030 Off-Peak Period Transit Trips No Build Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 NOBUILD E-MODEL
Off-Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	871	535	461	218	174	278	493	134	158	42	2	12	0	14	6	4	6	20	20	52	4	3	8	67	121	3703
2 Kaka'ako	677	688	785	388	198	173	318	82	89	34	3	11	1	10	7	3	8	25	12	16	6	0	9	94	128	3765
3 Makiki	1469	833	1240	873	795	197	371	139	119	59	6	18	1	19	6	9	23	86	10	74	23	6	11	299	489	7175
4 Waikīkī	2687	687	1655	1591	943	209	384	426	134	100	5	12	1	32	5	3	4	159	48	71	12	70	7	193	337	9775
5 Kaimukī Wa	620	266	611	590	1095	109	190	44	77	22	3	18	3	10	6	6	4	159	19	17	2	1	8	160	317	4357
6 Kalihi Nuu	989	394	304	211	165	574	1077	229	307	100	4	14	1	30	5	7	2	22	47	54	6	2	7	84	128	4763
7 Iwilei	593	271	209	86	95	274	812	239	201	94	4	18	2	15	7	5	7	8	16	16	2	5	5	59	90	3133
8 Airport PH	189	34	63	111	19	49	175	318	226	75	6	8	3	21	13	7	5	6	6	43	8	1	6	5	22	1419
9 SaltLake H	408	133	152	89	67	141	400	596	963	260	14	33	2	57	33	14	18	17	23	40	7	3	11	32	118	3631
10 PC 'Aiea	279	100	109	62	53	79	243	393	548	1367	39	99	7	279	136	66	53	15	23	25	5	6	11	40	118	4155
11 'Ewa	236	107	141	266	92	61	153	196	176	254	1008	1197	47	516	64	52	36	25	29	52	21	11	36	59	212	5047
12 Kapolei	203	72	103	214	73	47	122	130	119	149	317	2033	108	227	40	43	30	17	21	44	18	8	95	34	204	4471
13 Makakilo	90	36	45	77	34	22	54	54	46	64	50	472	50	63	10	13	6	6	8	14	6	2	25	20	69	1336
14 Waipahu	158	65	73	183	42	41	118	134	157	483	187	227	18	904	175	91	51	10	19	22	10	4	17	31	85	3305
15 Waiawa	119	36	82	113	34	33	94	110	113	410	29	71	4	328	390	174	91	8	8	20	7	9	7	20	103	2413
16 Mililani	220	61	62	74	43	35	115	115	96	196	27	61	8	191	237	867	553	13	15	50	14	22	6	21	142	3244
17 Wahiawā Sc	154	45	62	45	32	24	58	54	49	63	8	27	1	59	77	317	731	15	12	20	8	22	10	16	124	2033
18 E Honolulu	366	119	261	233	579	66	99	50	55	32	8	10	0	9	4	3	14	578	8	44	9	4	8	76	204	2839
19 Kāne'ohe	305	82	77	77	49	101	152	79	101	52	7	18	1	16	6	6	7	11	912	219	52	14	7	15	104	2470
20 Kailua	543	132	102	92	91	93	118	58	80	62	7	30	7	33	10	5	15	21	217	1210	18	3	16	26	144	3133
21 Ko'olauloa	64	24	35	40	24	14	30	37	32	16	5	9	2	26	10	8	7	21	28	26	366	19	2	14	32	891
22 North Shor	63	31	33	47	18	22	43	39	34	47	6	9	1	19	17	55	114	10	14	15	52	372	9	12	76	1158
23 Wai'anae	213	87	114	122	73	47	112	157	125	93	26	322	31	67	24	18	27	26	20	31	6	6	768	31	167	2713
24 Mānoa	751	419	610	301	289	172	240	70	70	35	0	10	0	13	7	3	3	29	13	49	5	0	3	250	278	3620
25 UHManoa	169	41	132	92	95	21	30	8	15	8	0	2	0	6	2	0	2	8	2	11	1	1	0	58	25	729
Totals	12436	5298	7521	6195	5172	2882	6001	3891	4090	4117	1771	4741	299	2964	1297	1779	1817	1315	1550	2235	668	594	1092	1716	3837	85278

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Table 15. 2030 Journey to Work Home Based Work Transit Trips No Build Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 NOBUILD E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	451	293	380	270	96	145	322	206	184	73	4	14	1	8	13	7	11	13	25	39	3	0	1	35	41	2635
2 Kaka'ako	909	242	459	596	167	174	410	184	159	60	6	12	2	14	10	8	4	27	26	34	1	2	2	69	70	3647
3 Makiki	1964	733	732	730	444	234	499	215	215	84	9	10	1	17	15	16	6	59	21	40	6	1	1	146	133	6331
4 Waikīkī	1115	543	594	426	280	107	234	100	91	34	2	7	0	15	7	3	6	35	11	19	1	1	2	87	88	3808
5 Kaimukī Wa	1053	382	675	838	348	98	211	92	101	38	2	10	0	14	7	3	12	62	16	14	0	1	0	80	111	4168
6 Kalihi Nuu	1379	362	308	218	72	216	668	298	273	114	6	22	0	26	16	9	8	10	43	50	3	4	3	32	35	4175
7 Iwilei	494	203	183	121	40	116	224	221	182	70	6	9	0	16	14	6	6	7	21	13	1	1	1	21	16	1992
8 Airport PH	65	17	12	12	5	13	45	117	51	30	1	2	0	35	17	5	2	0	4	3	0	0	0	3	3	442
9 SaltLake H	495	125	113	79	31	94	245	415	530	167	8	24	0	48	38	13	12	4	19	20	1	1	2	9	18	2511
10 PC 'Aiea	475	115	125	94	39	65	262	479	417	539	47	112	4	190	144	64	78	3	30	13	2	5	6	5	45	3358
11 'Ewa	559	190	199	750	55	59	169	223	130	162	522	1158	56	220	51	58	69	8	15	25	3	7	94	24	133	4939
12 Kapolei	360	117	139	431	42	52	135	153	101	113	199	1113	70	124	35	40	40	8	11	14	7	5	118	18	109	3554
13 Makakilo	216	63	76	246	19	24	69	72	50	43	60	391	28	46	8	11	13	9	5	12	3	0	38	10	54	1566
14 Waipahu	354	77	192	565	24	32	100	140	83	208	130	233	15	351	139	74	77	3	12	13	2	9	11	9	46	2899
15 Waiawa	290	62	161	386	24	24	83	125	88	248	45	110	3	191	267	118	119	3	9	13	2	8	6	9	44	2438
16 Mililani	430	130	132	142	39	59	156	216	126	236	46	119	10	125	197	442	519	7	18	22	5	38	7	19	90	3330
17 Wahiawā Sc	177	64	50	67	15	25	66	82	57	81	14	49	3	46	69	196	440	2	7	14	5	33	4	7	55	1628
18 E Honolulu	698	234	365	409	279	89	160	103	82	38	1	12	1	6	6	4	5	191	20	57	3	0	3	46	95	2907
19 Kāne'ohe	720	174	154	128	43	113	217	158	152	71	4	22	3	18	18	8	3	8	295	147	34	2	1	18	46	2557
20 Kailua	868	229	190	167	80	124	217	171	148	86	13	22	1	31	12	9	9	27	158	552	12	0	3	21	41	3191
21 Ko'olauloa	133	40	39	48	16	15	31	30	19	8	1	3	0	0	6	3	8	1	32	8	265	25	0	3	27	761
22 North Shor	185	48	63	72	10	16	60	41	37	30	5	10	1	16	29	50	132	5	10	3	65	167	2	4	49	1110
23 Wai'anae	503	161	194	227	51	58	166	255	122	70	45	394	22	82	24	22	29	11	14	23	1	0	310	23	148	2955
24 Mānoa	1089	422	500	498	179	146	289	129	125	44	1	18	2	8	11	8	9	22	20	25	1	1	0	75	80	3702
25 UHManoa	114	43	67	64	31	14	33	14	13	4	1	1	0	0	2	0	0	5	3	2	0	0	0	13	2	426
Totals	15096	5069	6102	7584	2429	2112	5071	4239	3536	2651	1178	3877	223	1647	1155	1177	1617	530	845	1175	426	311	615	786	1579	71030

Table 16. 2030 Home-Based Other Transit Trips No Build Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 NOBUILD E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	391	410	342	111	244	468	547	113	179	44	0	15	0	28	0	2	3	31	26	22	8	2	2	137	225	3350
2 Kaka'ako	487	616	593	271	346	380	421	68	97	26	0	9	0	14	5	1	3	51	16	19	5	0	3	240	260	3931
3 Makiki	1033	779	1101	552	1253	291	472	71	112	32	4	17	0	30	1	5	2	134	17	19	13	3	4	468	697	7110
4 Waikīkī	543	494	947	374	941	91	176	40	41	12	2	12	0	14	3	4	1	51	11	9	5	3	0	182	346	4302
5 Kaimukī Wa	414	242	715	512	1429	139	215	43	78	23	1	15	0	11	3	3	1	253	9	15	6	1	4	321	509	4962
6 Kalihi Nuu	929	357	331	142	244	1128	1379	274	445	126	1	29	1	54	4	5	5	22	65	48	11	1	2	149	269	6021
7 Iwilei	349	165	132	47	120	422	473	185	243	50	0	17	0	23	0	4	4	11	20	8	4	1	1	48	148	2475
8 Airport PH	54	11	10	9	18	27	97	172	128	40	1	9	0	18	0	0	1	3	5	3	3	1	0	4	46	660
9 SaltLake H	323	76	97	55	110	201	517	689	1245	279	2	28	0	79	9	7	13	16	30	24	8	4	9	38	239	4098
10 PC 'Aiea	271	78	94	64	116	155	354	526	797	1732	22	106	6	411	95	94	34	19	44	46	29	5	20	50	315	5483
11 'Ewa	267	145	192	159	226	206	278	330	368	608	2175	1750	79	886	85	107	71	72	69	115	103	20	162	147	624	9244
12 Kapolei	192	100	122	112	187	165	216	200	261	395	516	2122	135	392	45	69	39	62	55	92	92	17	499	117	599	6801
13 Makakilo	96	58	81	50	98	115	110	107	157	214	96	697	102	136	17	28	23	33	28	54	45	7	266	78	219	2915
14 Waipahu	157	74	100	80	115	119	159	220	270	697	253	278	21	1286	211	264	103	26	38	59	34	10	46	81	280	4981
15 Waiawa	122	53	64	53	79	66	123	156	159	750	43	99	7	566	521	539	243	22	24	34	23	12	28	45	263	4094
16 Mililani	212	59	82	59	93	61	146	124	134	215	15	84	6	320	307	1857	902	24	18	33	39	29	11	45	305	5180
17 Wahiawā Sc	105	41	47	46	60	39	78	59	61	72	6	38	2	102	71	544	906	11	12	26	27	36	13	22	290	2714
18 E Honolulu	294	122	329	218	1073	106	144	45	69	35	4	16	1	14	5	6	11	1133	21	101	18	6	9	165	432	4377
19 Kāne'ohe	266	67	79	56	98	172	217	77	112	64	3	24	0	25	2	11	7	11	1544	401	99	7	5	34	251	3632
20 Kailua	477	91	90	63	135	133	164	49	94	48	4	32	3	42	4	7	11	45	360	2000	36	2	6	36	350	4282
21 Ko'olauloa	53	29	42	41	36	22	38	40	42	23	5	12	1	8	8	11	7	13	30	26	756	14	2	20	63	1342
22 North Shor	60	37	50	47	38	33	58	64	52	28	4	15	1	30	14	84	161	12	22	22	155	691	10	26	168	1882
23 Wai'anae	159	103	120	115	130	73	155	138	143	100	33	403	37	95	22	30	30	39	32	68	22	7	1935	57	403	4449
24 Mānoa	668	469	730	264	494	257	364	66	70	31	0	18	0	17	5	2	1	56	14	16	9	0	2	438	412	4403
25 UHManoa	63	27	67	35	74	19	32	4	9	3	0	0	0	4	0	0	0	8	1	2	0	0	0	40	5	393
Totals	7985	4703	6557	3535	7757	4888	6933	3860	5366	5647	3190	5845	402	4605	1437	3684	2582	2158	2511	3262	1550	879	3039	2988	7718	103081

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Table 17. 2030 Non-Home Based Transit Trips No Build Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 NOBUILD E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1020	499	326	115	78	212	330	43	77	39	4	8	0	11	4	2	4	17	15	24	2	4	8	64	31	2937
2 Kaka'ako	538	624	642	189	81	95	118	23	35	16	2	10	1	10	3	4	4	11	6	8	5	0	8	58	45	2536
3 Makiki	427	495	891	422	234	98	93	20	37	19	3	11	1	2	9	8	3	30	9	11	9	6	4	167	127	3136
4 Waikīkī	140	174	316	709	178	19	21	10	15	4	3	9	1	5	3	4	2	14	4	13	2	4	2	42	41	1735
5 Kaimukī Wa	166	116	258	272	632	47	55	21	22	18	3	12	3	8	4	7	2	102	13	8	2	3	6	69	121	1970
6 Kalihi Nuu	350	118	92	45	35	257	317	59	94	30	5	4	0	12	3	5	4	11	21	20	5	1	5	24	9	1526
7 Iwilei	529	178	103	47	46	228	878	198	174	115	5	15	2	16	10	7	4	7	17	11	2	2	8	21	15	2638
8 Airport PH	111	40	31	20	17	47	229	375	291	82	7	12	4	28	16	12	6	6	7	58	8	1	9	10	6	1433
9 SaltLake H	138	51	45	24	33	77	198	353	567	232	13	23	3	53	23	12	10	12	16	44	6	6	11	17	7	1974
10 PC 'Aiea	89	37	30	25	19	36	85	151	294	1209	37	65	11	225	112	60	30	14	16	14	3	5	17	7	12	2603
11 'Ewa	39	13	10	20	10	12	12	10	13	41	352	255	8	161	13	9	11	3	10	7	4	3	8	2	5	1031
12 Kapolei	53	27	21	28	14	13	23	22	24	58	241	1443	93	118	27	23	16	7	13	11	7	7	42	6	11	2348
13 Makakilo	5	10	1	4	2	0	2	5	7	8	11	91	18	11	2	1	1	1	2	4	2	0	4	1	0	193
14 Waipahu	46	22	14	22	12	17	24	38	51	249	158	137	10	576	109	64	24	6	5	11	5	3	16	1	5	1625
15 Waiawa	20	9	9	9	10	7	12	13	26	113	15	26	5	120	112	85	31	2	4	8	2	3	7	2	3	653
16 Mililani	40	20	11	21	4	4	20	27	26	54	14	25	4	74	98	386	190	6	8	5	2	10	8	6	9	1072
17 Wahiawā Sc	29	14	10	12	6	6	9	14	10	23	9	12	1	22	34	160	288	2	3	4	2	17	2	7	5	701
18 E Honolulu	80	25	48	35	115	18	15	7	16	14	8	1	0	2	3	2	9	273	5	7	2	1	9	14	16	725
19 Kāne'ohe	67	24	20	13	15	25	37	22	27	20	6	15	0	11	3	5	4	4	547	77	14	4	4	7	3	974
20 Kailua	148	35	28	24	18	30	22	24	23	23	6	18	5	15	7	9	9	10	111	606	7	6	17	9	9	1219
21 Ko'olauloa	20	9	7	9	9	5	7	7	8	7	4	6	1	3	4	5	4	2	7	9	101	7	3	1	4	249
22 North Shor	9	7	5	9	2	6	8	7	10	6	4	4	2	5	6	11	18	3	6	3	7	102	3	3	5	251
23 Wai'anae	42	22	26	25	11	12	20	16	16	14	9	67	8	17	4	8	6	11	8	6	1	4	297	3	13	666
24 Mānoa	131	109	201	69	55	51	36	11	13	10	1	6	0	4	3	2	1	10	7	6	1	1	2	93	66	889
25 UHManoa	57	40	107	44	105	15	21	4	11	6	1	4	1	3	3	0	3	13	3	2	1	1	1	63	25	534
Totals	4294	2718	3252	2212	1741	1337	2592	1480	1887	2410	921	2279	182	1512	615	891	684	577	863	977	202	201	501	697	593	35618

Table 18. 2030 Visitor Transit Trips No Build Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 NOBUILD E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	118	92	42	43	4	37	12	4	0	0	0	0	0	0	0	0	8	32	0	0	0	0	10	535
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	731	31	107	433	123	19	12	75	20	25	0	0	0	0	0	0	31	43	0	101	24	0	12	27	175	1989
4 Waikīkī	3996	411	1578	1762	678	266	461	698	155	161	0	0	0	37	0	0	0	251	68	107	17	119	10	176	310	11261
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	116	40	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	35	738
8 Airport PH	203	20	79	177	3	30	25	50	40	6	4	0	0	0	0	0	0	2	0	18	0	0	0	1	1	659
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	94	38	43	13	0	0	24	94	30	15	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	373
11 'Ewa	6	3	33	39	1	0	3	4	8	3	0	0	0	0	0	0	0	9	0	0	0	0	0	31	0	140
12 Kapolei	51	4	35	91	4	6	8	7	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	213
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	130	20	61	10	6	4	13	2	0	5	0	0	0	2	0	0	141	12	0	3	0	0	0	0	0	409
18 E Honolulu	143	0	24	48	66	2	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	7	33	367
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	22	36	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	476
21 Ko'olauloa	12	0	1	6	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	60	13	0	0	0	189
22 North Shor	8	0	0	1	0	0	4	0	0	46	0	0	0	0	0	0	20	0	0	0	2	89	0	0	2	172
23 Wai'anae	38	0	1	30	0	0	5	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
24 Mānoa	290	26	46	51	57	60	0	0	6	8	0	0	0	0	0	0	0	10	0	62	0	0	0	39	81	736
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7042	1032	2737	3243	1358	650	1162	1042	450	365	15	8	0	127	0	0	262	464	192	544	130	237	22	438	838	22358

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Table 19. 2030 Daily Transit Trips TSM Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 TSM E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1968	1276	1184	582	466	885	1198	394	447	159	12	42	1	45	22	13	16	61	74	156	17	6	8	283	313	9628
2 Kaka'ako	1928	1536	1867	1116	598	651	955	280	267	114	12	30	1	38	15	12	12	100	55	94	11	4	9	440	362	10507
3 Makiki	4226	2078	3011	2142	2113	643	1109	385	333	178	18	45	1	54	21	29	43	271	56	216	48	17	24	828	1174	19063
4 Waikīkī	5785	1622	3384	3195	2079	492	909	851	278	236	12	28	1	73	11	14	11	362	102	162	34	123	17	517	803	21101
5 Kaimukī Wa	1970	762	1764	1673	2750	325	532	173	160	92	10	35	0	34	12	15	17	481	48	73	13	11	12	557	803	12322
6 Kalihi Nuu	2867	997	819	557	407	1716	2688	667	782	293	14	59	3	89	37	22	21	38	189	163	20	6	10	297	335	13096
7 Iwilei	1528	675	557	258	254	799	1723	597	584	258	11	50	1	58	23	17	15	20	55	61	8	16	8	154	227	7957
8 Airport PH	446	85	140	220	44	118	410	581	530	191	17	31	4	83	41	11	10	9	17	96	7	4	6	18	69	3188
9 SaltLake H	1152	336	352	220	200	388	996	1569	2570	697	35	93	8	186	73	30	41	35	83	119	22	6	20	68	301	9600
10 PC 'Aiea	1013	287	308	217	189	268	788	1308	1485	3932	109	304	22	902	386	230	155	32	122	134	57	27	46	104	430	12855
11 'Ewa	954	392	482	1090	313	306	515	582	533	882	3221	3612	165	1355	162	188	159	93	109	239	137	33	293	236	875	16926
12 Kapolei	725	271	352	755	260	252	412	431	389	634	1052	5386	350	693	125	134	116	79	102	194	115	31	734	162	832	14586
13 Makakilo	309	137	174	344	145	147	182	199	205	280	184	1277	163	202	40	55	43	44	50	104	70	14	314	103	316	5101
14 Waipahu	619	180	340	760	166	165	350	376	395	1248	555	683	53	2384	483	433	210	41	67	122	75	25	92	134	362	10318
15 Waiawa	511	140	311	588	125	117	298	322	307	1201	113	280	15	1050	1023	946	477	27	49	70	48	39	43	58	345	8503
16 Mililani	779	223	242	246	168	125	354	352	287	580	89	256	9	556	684	2761	1738	38	58	160	62	94	30	55	473	10419
17 Wahiawā Sc	451	142	173	132	102	72	171	162	112	183	32	106	5	191	178	912	1802	36	32	65	44	93	18	49	336	5599
18 E Honolulu	1222	372	806	686	1598	189	328	158	137	86	5	40	2	28	26	14	22	1710	64	183	31	8	11	255	579	8560
19 Kāne'ohe	993	281	228	221	132	333	450	275	262	207	23	61	2	74	21	18	23	22	2604	816	161	20	16	48	272	7563
20 Kailua	1665	395	331	299	208	318	434	269	217	167	26	87	7	96	36	28	35	78	661	3561	54	12	24	82	423	9513
21 Ko'olauloa	226	83	87	108	62	47	84	89	57	38	4	27	3	58	16	21	22	42	83	76	1214	62	8	32	103	2652
22 North Shor	268	101	121	128	76	67	146	114	89	122	16	45	4	60	55	138	351	16	34	55	232	1062	11	43	228	3582
23 Wai'anae	740	262	351	385	205	157	335	437	275	200	106	867	68	212	62	59	62	55	62	145	20	12	2570	91	537	8275
24 Mānoa	2308	1088	1551	917	857	544	725	207	202	108	7	36	0	38	15	15	9	102	60	141	11	2	3	709	728	10383
25 UHManoa	423	114	318	209	221	60	85	29	27	23	5	3	1	3	4	2	2	22	7	23	3	0	2	127	56	1769
Totals	35076	13835	19253	17048	13738	9184	16177	10807	10930	12109	5688	13483	889	8562	3571	6117	5412	3814	4843	7228	2514	1727	4329	5450	11282	243066

Table 20. 2030 Peak Period Transit Trips TSM Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 TSM E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1085	738	713	365	295	597	703	262	300	113	4	30	0	21	17	7	12	45	41	100	9	1	4	188	216	5866
2 Kaka'ako	1217	800	1081	748	414	486	637	197	178	80	6	21	1	26	10	11	2	73	41	69	5	2	5	335	237	6682
3 Makiki	2728	1218	1601	1284	1306	444	735	246	207	121	10	29	1	39	12	24	24	184	40	133	24	10	11	547	732	11710
4 Waikīkī	3096	927	1777	1632	1116	282	518	427	150	118	4	16	1	43	4	10	9	199	52	93	19	55	8	306	477	11339
5 Kaimukī Wa	1313	492	1159	1107	1570	217	341	116	105	61	4	23	0	23	9	7	11	330	24	48	11	3	7	369	497	7847
6 Kalihi Nuu	1898	591	495	349	245	1092	1614	433	492	186	10	36	1	56	26	13	15	22	124	113	14	3	4	178	227	8237
7 Iwilei	947	410	330	174	157	528	877	382	386	153	7	28	1	29	14	11	9	14	43	35	5	7	4	89	147	4787
8 Airport PH	259	49	78	107	24	66	228	332	305	99	9	17	0	53	28	3	7	3	8	46	3	2	4	12	48	1790
9 SaltLake H	744	206	205	132	121	247	597	957	1557	424	21	55	7	105	46	14	19	19	50	72	14	1	14	36	202	5865
10 PC 'Aiea	697	174	205	143	135	192	528	875	1006	2364	62	191	17	573	234	152	112	22	86	106	47	17	29	63	308	8338
11 'Ewa	679	282	331	805	220	237	350	382	363	607	2143	2320	117	827	97	126	109	68	67	159	110	24	221	171	670	11485
12 Kapolei	508	190	247	516	180	203	279	285	279	464	719	3133	216	446	76	91	80	57	68	132	90	19	622	134	632	9666
13 Makakilo	226	97	124	257	113	117	128	139	157	209	122	807	100	139	23	42	31	37	38	79	59	10	276	90	246	3666
14 Waipahu	445	119	251	579	120	121	223	248	243	761	359	444	30	1423	300	320	160	30	51	81	59	21	68	99	280	6835
15 Waiawa	370	92	220	448	85	82	186	218	195	753	79	179	11	684	563	718	364	21	36	39	37	27	34	45	245	5731
16 Mililani	550	159	170	174	118	81	241	242	186	362	60	164	6	352	413	1827	1205	20	32	91	46	70	22	45	341	6977
17 Wahiawā Sc	295	92	114	87	56	51	104	101	67	120	18	57	5	121	106	598	1060	16	23	40	31	70	10	34	242	3518
18 E Honolulu	867	260	540	468	985	132	216	112	86	55	1	26	2	16	17	9	13	1086	46	136	24	5	4	174	376	5656
19 Kāne'ohe	729	187	162	152	92	230	303	202	176	131	19	39	1	59	18	14	13	14	1588	554	110	5	9	30	180	5017
20 Kailua	1136	262	231	206	117	216	288	196	161	112	12	55	3	68	27	14	25	49	437	2286	40	9	13	51	280	6294
21 Ko'olauloa	156	58	54	70	35	31	53	55	30	15	1	15	0	30	9	12	17	20	46	40	849	45	4	18	75	1738
22 North Shor	199	75	80	84	47	45	101	83	62	64	10	27	3	38	35	85	233	9	22	29	159	689	9	28	164	2380
23 Wai'anae	524	181	236	266	121	105	225	286	167	105	71	552	40	149	37	29	40	31	31	75	9	5	1804	55	397	5541
24 Mānoa	1517	661	928	617	510	343	464	146	124	72	4	24	0	25	7	10	9	68	43	87	6	0	3	412	458	6538
25 UHManoa	249	67	179	114	124	34	58	20	15	12	2	2	0	1	4	1	0	16	4	11	1	0	1	73	28	1016
Totals	22434	8387	11511	10884	8306	6179	9997	6942	6997	7561	3757	8290	563	5346	2132	4148	3579	2453	3041	4654	1781	1100	3190	3582	7705	154519

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Table 21. 2030 Off-Peak Period Transit Trips TSM Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 TSM E-MODEL
Off-Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	871	545	477	217	171	283	495	135	150	50	8	11	1	9	4	6	4	17	32	57	7	5	4	81	121	3761
2 Kaka'ako	699	702	798	385	182	166	317	85	86	35	7	9	0	12	5	1	10	27	13	25	6	2	4	112	137	3825
3 Makiki	1487	861	1331	867	828	203	375	140	125	58	8	16	0	15	8	4	19	87	17	83	24	7	13	289	489	7354
4 Waikīkī	2680	694	1625	1554	952	209	390	423	129	118	8	11	0	30	7	3	2	166	51	69	15	68	9	213	337	9763
5 Kaimukī Wa	641	271	615	592	1139	109	191	55	59	29	6	12	0	11	3	8	6	153	24	25	2	8	5	189	324	4477
6 Kalihi Nuu	998	405	327	209	162	571	1089	240	292	110	4	20	2	22	11	9	6	15	62	50	6	3	6	111	129	4859
7 Iwilei	592	265	226	85	97	279	817	235	193	104	4	21	0	15	9	6	6	6	12	26	2	9	4	66	92	3171
8 Airport PH	189	36	62	111	19	52	183	252	225	90	8	14	4	26	13	8	3	5	9	50	4	2	2	6	25	1398
9 SaltLake H	408	130	146	88	79	141	400	625	1018	257	15	37	1	64	27	15	22	16	32	48	8	5	6	31	116	3735
10 PC 'Aiea	319	112	104	74	54	77	261	432	507	1551	46	113	5	304	153	74	43	10	34	27	11	10	16	40	142	4519
11 'Ewa	274	110	153	288	91	69	166	198	165	280	1046	1300	49	538	63	63	49	25	42	79	24	9	55	64	241	5441
12 Kapolei	216	82	105	237	80	49	133	148	108	169	332	2251	120	250	48	44	35	22	27	60	21	11	102	28	243	4921
13 Makakilo	84	40	50	87	31	29	54	60	48	70	61	491	49	64	17	13	12	7	7	25	9	2	25	13	88	1436
14 Waipahu	174	61	89	192	46	44	127	129	150	505	192	218	22	954	175	115	48	11	15	41	13	4	24	35	100	3484
15 Waiawa	142	48	91	145	39	35	111	106	111	456	33	89	3	386	444	221	111	6	13	31	9	12	8	13	109	2772
16 Mililani	228	64	72	72	49	44	113	110	100	215	29	66	3	214	268	888	582	18	26	69	13	25	8	10	156	3442
17 Wahiawā Sc	156	49	59	44	45	22	66	62	44	63	9	32	0	71	72	322	743	20	8	25	9	22	7	15	117	2082
18 E Honolulu	364	112	268	219	612	57	113	44	51	33	4	14	0	12	10	5	8	602	18	49	7	3	7	80	213	2905
19 Kāne'ohe	276	94	65	69	40	103	147	77	88	75	5	22	1	15	3	4	10	8	984	273	52	14	7	18	96	2546
20 Kailua	539	132	100	93	86	102	146	71	57	52	14	32	4	28	9	14	10	25	224	1281	14	3	11	30	142	3219
21 Ko'olauloa	69	25	33	37	26	17	32	34	26	23	3	13	3	28	6	9	5	22	27	35	374	18	4	14	31	914
22 North Shor	70	26	40	44	29	21	45	31	25	59	6	17	1	21	21	54	123	7	11	21	60	375	2	15	78	1202
23 Wai'anae	216	81	115	119	81	51	109	150	106	97	35	321	29	64	24	30	22	23	22	56	6	6	771	36	164	2734
24 Mānoa	795	434	636	311	331	191	254	61	79	37	2	13	0	14	7	5	0	33	16	54	5	2	0	267	298	3845
25 UHManoa	175	44	137	96	100	26	28	9	11	11	3	1	1	2	0	1	2	5	3	12	2	0	1	54	29	753
Totals	12662	5423	7724	6235	5369	2950	6162	3912	3953	4547	1888	5144	298	3169	1407	1922	1881	1336	1729	2571	703	625	1101	1830	4017	88558

Table 22. 2030 Journey to Work Home Based Work Transit Trips TSM Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 TSM E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	455	306	383	271	93	157	316	202	176	77	6	17	0	11	17	5	12	16	27	63	0	0	2	43	46	2701
2 Kaka'ako	901	257	463	595	170	172	410	183	137	65	3	14	1	17	10	8	6	29	25	58	1	2	4	81	72	3684
3 Makiki	2010	759	763	724	460	241	510	216	177	99	9	16	1	20	14	19	8	63	24	80	3	5	2	158	154	6535
4 Waikīkī	1113	536	590	416	285	110	239	100	74	37	2	11	0	16	7	4	8	37	14	36	3	1	0	93	93	3825
5 Kaimukī Wa	1096	391	693	839	352	105	212	107	76	48	2	13	0	13	7	8	10	62	10	41	4	1	1	98	127	4316
6 Kalihi Nuu	1411	380	321	223	74	228	675	305	247	126	8	19	0	32	22	11	11	10	57	82	6	2	1	46	33	4330
7 Iwilei	509	204	194	118	45	113	223	222	166	82	5	11	0	15	18	8	4	7	20	29	1	3	0	23	21	2041
8 Airport PH	73	15	15	13	4	15	48	129	59	39	1	4	1	38	24	2	4	1	2	6	0	0	1	0	6	500
9 SaltLake H	478	120	112	77	35	99	234	464	562	171	8	23	5	52	37	9	20	6	21	37	2	0	2	13	19	2606
10 PC 'Aiea	512	136	136	109	34	77	291	503	395	628	46	129	9	225	149	75	77	9	43	57	7	7	6	17	51	3728
11 'Ewa	612	218	241	875	68	79	209	244	138	188	610	1500	75	257	62	66	76	6	19	78	11	4	117	36	157	5914
12 Kapolei	424	134	159	516	49	57	163	176	100	132	254	1500	90	151	46	41	55	13	25	55	5	3	150	23	143	4464
13 Makakilo	202	73	85	293	28	30	72	85	50	47	77	465	35	48	15	15	17	8	11	27	4	1	42	14	68	1812
14 Waipahu	387	86	216	661	32	34	107	140	88	231	138	263	18	397	154	81	83	3	20	29	8	3	17	10	51	3257
15 Waiawa	355	68	200	523	30	35	104	148	90	276	53	135	6	250	308	165	168	3	15	23	5	15	10	9	55	3049
16 Mililani	452	144	146	164	50	58	177	212	123	242	55	140	4	147	235	484	560	6	22	55	12	45	10	14	102	3659
17 Wahiawā Sc	184	63	57	69	22	25	65	84	48	85	16	51	5	50	71	205	453	3	11	21	8	36	2	8	50	1692
18 E Honolulu	709	227	401	385	297	75	162	95	67	39	1	14	2	9	11	5	11	200	29	65	9	3	1	64	100	2981
19 Kāne'ohe	641	167	138	130	28	125	212	179	125	108	10	23	1	26	16	9	12	7	312	272	30	3	4	15	42	2635
20 Kailua	875	217	202	173	63	127	218	177	122	100	8	29	2	29	22	13	16	27	173	681	7	2	1	22	47	3353
21 Ko'olauloa	140	43	41	50	19	15	37	33	16	11	0	8	0	5	5	5	9	1	35	19	283	26	0	6	33	840
22 North Shor	181	63	62	73	21	27	66	53	29	33	8	18	1	19	32	54	143	5	9	21	65	180	1	13	51	1228
23 Wai'anae	498	153	189	212	62	69	157	258	96	71	49	410	23	94	30	20	27	12	14	54	0	1	323	20	140	2982
24 Mānoa	1158	462	522	522	201	154	319	136	106	56	4	13	0	14	12	8	8	27	23	50	3	0	0	91	95	3984
25 UHManoa	121	46	70	64	33	14	35	14	12	9	1	1	0	0	3	0	0	4	2	4	0	0	0	14	3	450
Totals	15497	5268	6399	8095	2555	2241	5261	4465	3279	3000	1374	4795	279	1935	1327	1320	1798	565	963	1943	477	343	697	931	1759	76566

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Table 23. 2030 Home-Based Other Transit Trips TSM Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 TSM E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	383	416	347	109	254	464	555	109	183	37	0	17	0	28	1	2	4	28	24	33	10	1	1	167	227	3400
2 Kaka'ako	486	627	607	272	348	376	426	64	94	24	2	11	0	17	3	0	2	53	22	22	5	0	2	280	256	3999
3 Makiki	1039	799	1180	558	1294	290	480	73	97	34	3	20	0	27	3	6	3	134	25	22	15	3	5	467	716	7293
4 Waikīkī	541	498	943	373	942	88	177	38	38	13	3	10	0	17	3	5	1	52	16	9	8	1	1	193	350	4320
5 Kaimukī Wa	424	247	718	508	1474	137	220	47	62	26	0	12	0	13	2	2	4	267	13	17	6	3	3	363	512	5080
6 Kalihi Nuu	943	364	342	143	245	1149	1397	290	425	133	0	32	1	47	9	7	7	20	89	49	13	1	2	174	268	6150
7 Iwilei	354	159	141	47	124	415	481	178	251	52	0	19	0	25	1	4	3	6	23	13	7	1	1	53	155	2513
8 Airport PH	59	10	16	8	18	24	99	171	129	57	2	11	0	15	1	3	0	1	5	6	3	0	0	6	55	699
9 SaltLake H	318	79	92	60	117	200	516	739	1306	284	1	34	0	76	8	7	8	15	43	26	13	3	6	36	228	4215
10 PC 'Aiea	303	79	97	67	132	159	377	550	787	1972	21	116	1	437	113	98	48	15	63	62	43	8	21	59	368	5996
11 'Ewa	291	157	194	155	235	220	294	320	371	647	2247	1875	81	931	86	102	77	76	80	153	122	26	164	164	711	9779
12 Kapolei	197	103	137	114	196	178	218	217	262	433	541	2385	169	418	46	71	53	55	62	125	105	19	540	130	675	7449
13 Makakilo	97	57	87	46	116	117	107	110	151	225	97	717	111	140	21	35	25	35	37	72	64	13	268	88	247	3083
14 Waipahu	166	70	100	78	123	124	176	205	264	719	249	286	20	1346	214	284	108	27	41	79	64	16	59	95	305	5218
15 Waiawa	134	57	70	53	87	71	136	155	174	791	40	115	8	646	572	655	268	22	32	38	39	19	26	45	286	4539
16 Mililani	229	57	79	60	107	60	154	116	147	248	18	91	3	328	334	1880	927	27	28	40	44	33	15	35	334	5394
17 Wahiawā Sc	108	46	46	42	68	34	83	64	54	73	9	41	0	113	70	546	913	15	17	33	35	41	11	34	282	2778
18 E Honolulu	283	118	333	219	1106	102	145	55	59	35	2	17	0	14	11	7	8	1185	29	105	19	3	6	173	434	4468
19 Kāne'ohe	243	69	66	45	96	175	200	68	110	71	7	28	0	42	1	6	5	11	1619	439	94	3	3	30	216	3647
20 Kailua	465	102	80	66	123	148	177	65	73	47	6	36	3	47	6	7	14	41	351	2165	40	6	8	46	354	4476
21 Ko'olauloa	54	31	39	43	37	26	39	40	35	21	1	13	2	11	8	11	8	11	30	34	771	13	6	20	65	1369
22 North Shor	66	32	52	49	48	35	67	51	55	33	5	20	2	31	17	77	173	11	22	27	158	694	8	28	169	1930
23 Wai'anae	162	89	135	116	133	77	153	131	131	104	38	390	38	104	26	34	31	32	40	85	19	7	1947	63	384	4469
24 Mānoa	701	496	761	275	535	277	370	64	75	33	0	16	0	19	3	5	1	56	27	22	7	1	2	475	484	4705
25 UHManoa	71	26	68	34	78	22	29	2	7	4	0	0	1	2	0	0	0	10	3	2	0	0	0	39	11	409
Totals	8117	4788	6730	3540	8036	4968	7076	3922	5340	6116	3292	6312	440	4894	1559	3854	2691	2205	2741	3678	1704	915	3105	3263	8092	107378

Table 24. 2030 Non-Home-Based Transit Trips TSM Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 TSM E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1041	510	334	113	75	221	323	46	76	41	6	8	1	6	4	6	0	17	15	28	7	5	5	73	30	2991
2 Kaka'ako	541	652	663	189	78	88	119	29	32	23	7	5	0	4	2	4	4	11	8	14	5	2	3	77	32	2592
3 Makiki	443	489	961	427	239	94	104	19	39	23	6	9	0	7	4	4	1	28	7	13	5	9	5	174	129	3239
4 Waikīkī	139	173	319	702	181	24	23	12	11	7	7	7	1	3	1	5	2	12	4	10	1	3	6	39	45	1737
5 Kaimukī Wa	172	118	275	278	674	39	60	19	22	18	8	10	0	6	3	5	3	103	9	15	3	7	8	86	112	2053
6 Kalihi Nuu	364	117	95	43	37	252	318	60	93	33	6	8	2	10	6	4	3	8	23	14	1	3	7	33	11	1551
7 Iwilei	521	180	106	53	40	238	896	197	167	117	6	20	1	18	4	5	8	7	12	15	0	5	7	26	16	2665
8 Airport PH	111	42	30	19	18	48	238	233	302	85	10	16	3	30	16	6	6	6	10	66	4	4	5	12	6	1326
9 SaltLake H	136	57	44	23	30	80	193	358	599	233	15	28	3	49	28	14	5	6	19	55	7	3	12	14	10	2021
10 PC 'Aiea	104	34	32	28	23	32	96	161	273	1317	42	59	12	240	124	57	25	8	16	15	7	12	19	11	11	2758
11 'Ewa	43	15	15	21	9	7	9	14	16	44	364	269	9	167	14	20	6	2	10	8	4	3	12	5	7	1093
12 Kapolei	54	29	21	34	11	11	24	26	27	66	257	1501	91	124	33	22	8	10	15	14	5	9	44	7	14	2457
13 Makakilo	7	7	2	5	1	0	3	4	4	8	10	95	17	14	4	5	1	1	2	5	2	0	4	1	1	203
14 Waipahu	54	20	24	21	11	7	27	31	43	270	168	134	15	601	115	68	19	11	6	14	3	6	16	8	6	1698
15 Waiawa	22	15	11	12	8	11	18	19	23	134	20	30	1	154	143	126	41	2	2	9	4	5	7	4	4	825
16 Mililani	49	10	17	22	11	3	23	24	17	62	16	25	2	81	115	397	194	5	8	9	6	16	5	6	9	1132
17 Wahiawā Sc	29	13	9	11	6	9	10	12	10	20	7	14	0	26	37	161	295	6	4	8	1	16	5	7	4	720
18 E Honolulu	86	27	46	38	126	10	21	8	11	12	2	9	0	5	4	2	3	282	6	13	3	2	4	11	12	743
19 Kāne'ohe	70	26	24	10	8	27	38	24	27	28	6	10	1	6	4	3	6	4	644	87	10	5	9	3	2	1082
20 Kailua	139	32	29	24	18	29	30	23	22	18	12	22	2	20	8	8	5	10	95	619	7	4	15	10	9	1210
21 Ko'olauloa	20	9	6	9	6	6	8	7	6	6	3	6	1	5	3	5	5	2	9	9	100	10	2	6	5	254
22 North Shor	13	6	7	5	7	5	9	10	5	10	3	7	1	10	6	7	15	0	3	7	7	99	2	2	6	252
23 Wai'anae	42	20	26	27	10	11	20	18	13	16	19	67	7	14	6	5	4	11	8	6	1	4	300	8	13	676
24 Mānoa	159	104	220	70	64	53	36	7	15	11	3	7	0	5	0	2	0	9	10	7	1	1	1	104	68	957
25 UHManoa	60	40	114	49	102	16	21	9	8	8	4	2	0	1	1	2	2	8	2	3	3	0	2	74	25	556
Totals	4419	2745	3430	2233	1793	1321	2667	1370	1861	2610	1007	2368	170	1606	685	943	661	569	947	1063	197	233	505	801	587	36791

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Table 25. 2030 Visitor Transit Trips TSM Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 TSM E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	120	89	44	43	4	37	12	4	0	0	0	0	0	0	0	0	8	32	0	0	0	0	10	536
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	734	31	107	433	120	18	15	77	20	22	0	0	0	0	0	0	31	46	0	101	25	0	12	29	175	1996
4 Waikīkī	3992	415	1532	1704	671	270	470	701	155	179	0	0	0	37	0	0	0	261	68	107	22	118	10	192	315	11219
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	116	40	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	35	738
8 Airport PH	203	18	79	180	4	31	25	48	40	10	4	0	0	0	0	0	0	1	0	18	0	0	0	0	2	663
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	94	38	43	13	0	0	24	94	30	15	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	373
11 'Ewa	8	2	32	39	1	0	3	4	8	3	0	0	0	0	0	0	0	9	0	0	0	0	0	31	0	140
12 Kapolei	50	5	35	91	4	6	7	12	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	216
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	130	20	61	10	6	4	13	2	0	5	0	0	0	2	0	0	141	12	0	3	0	0	0	0	0	409
18 E Honolulu	144	0	26	44	69	2	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	7	33	368
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	20	36	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	474
21 Ko'olauloa	12	0	1	6	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	60	13	0	0	0	189
22 North Shor	8	0	0	1	0	0	4	0	0	46	0	0	0	0	0	0	20	0	0	0	2	89	0	0	2	172
23 Wai'anae	38	0	1	30	0	0	5	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
24 Mānoa	290	26	48	50	57	60	0	0	6	8	0	0	0	0	0	0	0	10	0	62	0	0	0	39	81	737
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7043	1034	2694	3180	1354	654	1173	1050	450	383	15	8	0	127	0	0	262	475	192	544	136	236	22	455	844	22331

Table 26. 2030 Difference in Daily Transit Trips: TSM Alternative vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Transit Person P-A Trip Table
TSM Alternative - No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	17	30	18	-6	6	17	-5	-5	-5	-1	4	5	0	-2	5	2	-2	0	0	39	4	0	-3	47	6	171
2 Kaka'ako	-6	54	39	0	2	-13	6	1	-28	10	4	-1	-2	0	-3	-1	1	4	7	33	0	2	-4	71	-15	161
3 Makiki	71	40	180	5	59	1	33	4	-51	18	2	7	-1	5	-4	0	1	5	9	45	-4	7	3	20	42	497
4 Waikīkī	-9	0	-51	-76	2	9	17	3	-24	25	5	0	0	2	-2	3	2	11	8	14	9	-4	3	30	18	-5
5 Kaimukī Wa	59	16	38	3	91	-3	11	17	-41	13	4	-2	-3	-1	-2	2	2	15	-6	36	5	6	2	77	10	349
6 Kalihi Nuu	60	24	27	4	5	28	26	24	-47	22	2	4	2	-3	14	3	4	-5	40	27	1	0	0	48	-1	309
7 Iwilei	12	-3	23	3	3	0	25	-7	-15	16	0	9	-1	3	-1	0	1	-5	-3	25	1	5	-2	12	13	114
8 Airport PH	13	-3	8	2	1	1	14	-133	20	33	4	8	0	2	8	-6	1	-2	1	14	-4	2	-3	0	13	-6
9 SaltLake H	-24	4	-7	2	8	7	-17	104	125	10	1	10	5	-3	3	-2	-2	-5	18	30	7	-5	-2	-1	-7	259
10 PC 'Aiea	84	19	16	21	15	12	63	58	-53	437	3	21	1	76	35	12	8	-4	32	61	23	12	3	25	58	1038
11 'Ewa	83	41	48	122	21	29	53	15	14	68	172	449	22	88	13	14	8	1	15	92	27	3	29	32	113	1572
12 Kapolei	69	23	35	93	13	16	30	49	3	64	96	708	52	59	18	2	21	1	23	77	9	2	75	19	113	1670
13 Makakilo	-11	6	16	44	26	8	1	15	-9	15	17	98	15	9	13	15	6	1	15	34	20	7	6	14	43	424
14 Waipahu	50	3	34	93	15	-3	27	-22	-9	66	14	35	7	131	24	31	6	6	12	39	34	3	19	22	31	668
15 Waiawa	79	16	47	140	12	20	40	28	14	90	10	45	0	173	123	204	84	0	12	15	21	16	2	2	35	1228
16 Mililani	48	2	17	24	32	-3	32	-15	1	47	14	28	-11	37	82	76	70	1	14	44	16	17	4	-15	41	603
17 Wahiawā Sc	10	3	5	-3	15	-2	5	5	-16	2	3	7	-1	19	4	12	27	9	10	18	10	7	-1	13	-14	147
18 E Honolulu	7	-9	40	-24	65	-26	9	3	-30	-1	-8	11	0	6	12	2	-3	69	18	18	8	1	-10	23	3	184
19 Kāne'ohe	-99	-3	-25	-12	-24	17	-21	14	-29	52	10	0	-1	20	-2	-6	9	-1	189	173	-13	-2	6	-11	-40	201
20 Kailua	-14	-4	1	9	-29	17	22	21	-48	8	3	15	-2	8	13	3	6	-4	-10	307	-1	4	-2	12	10	345
21 Ko'olauloa	8	5	-2	4	1	5	8	3	-12	0	-6	6	1	10	-2	2	3	-2	5	19	32	3	3	8	9	111
22 North Shor	6	9	3	-1	26	12	16	2	-10	12	3	16	0	9	6	-7	20	-4	-4	27	3	13	-4	10	4	167
23 Wai'anae	-2	-24	10	-12	13	14	-11	-2	-41	7	19	3	1	18	12	-1	-3	-6	8	48	-4	1	28	8	-27	57
24 Mānoa	130	62	74	35	72	30	36	1	-12	15	5	-6	-2	9	-4	3	-2	4	19	32	0	0	-1	64	89	653
25 UHManoa	18	2	11	4	3	4	-1	3	-6	8	3	-2	0	-4	-1	2	-1	-4	0	3	2	-1	1	11	7	62
Totals	659	313	605	474	453	197	419	186	-309	1036	384	1474	82	671	364	365	267	85	432	1270	206	99	152	541	554	10979

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Table 27. 2030 Difference in Peak Period Transit Trips: TSM Alternative vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Peak Transit Person P-A Trip Table
TSM Alternative vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	15	20	7	-6	8	13	-14	-8	4	-7	-2	6	-1	2	7	0	0	5	-13	35	1	-2	1	34	7	112
2 Kaka'ako	-28	38	29	6	11	-5	8	-1	-26	10	0	1	-1	-2	-2	1	-1	2	5	25	0	0	1	54	-24	101
3 Makiki	59	12	98	8	29	1	28	2	-57	18	0	9	0	9	-5	5	6	1	4	36	-5	6	1	27	27	319
4 Waikīkī	-1	-7	-22	-38	-7	9	10	6	-20	9	2	-1	1	3	-3	2	4	7	6	17	6	-2	1	12	16	10
5 Kaimukī Wa	41	10	31	4	40	-2	8	2	-22	8	1	4	0	-2	2	0	0	19	-11	28	5	-1	5	52	7	229
6 Kalihi Nuu	56	14	4	6	7	30	12	13	-31	10	2	-2	1	6	7	1	1	1	23	33	1	-1	1	20	-2	213
7 Iwilei	14	5	3	5	2	-6	21	-4	-6	6	0	6	1	3	-3	-1	2	-3	1	16	0	1	-1	7	8	77
8 Airport PH	14	-4	9	3	-1	-2	7	-70	22	17	2	2	-1	-3	8	-7	3	-1	-2	7	0	1	1	-1	11	15
9 SaltLake H	-23	7	-2	3	-4	5	-16	86	63	12	1	5	6	-7	9	-5	-6	-4	7	20	6	-7	3	-1	-4	154
10 PC 'Aiea	47	6	20	9	13	14	45	17	-26	267	-4	8	3	48	21	3	19	1	19	58	18	8	-3	24	39	674
11 'Ewa	44	38	38	102	19	23	42	10	19	48	134	355	19	67	12	5	-10	1	2	65	23	5	-1	25	90	1175
12 Kapolei	56	18	31	68	8	13	19	33	12	47	81	483	37	36	10	2	15	-3	14	60	4	1	61	25	89	1220
13 Makakilo	-4	3	10	35	29	0	1	10	-11	8	7	77	15	9	6	15	0	0	11	24	18	7	5	21	29	325
14 Waipahu	33	7	18	87	11	-6	17	-16	-2	42	10	42	2	86	25	8	6	5	16	22	29	4	11	18	15	490
15 Waiawa	56	4	39	110	6	18	23	37	11	44	4	26	0	120	65	158	63	2	8	4	17	13	0	9	31	868
16 Mililani	38	-1	7	26	25	-12	35	-12	-4	25	14	22	-7	15	51	50	47	-4	4	25	14	15	3	-4	33	405
17 Wahiawā Sc	9	-1	9	-3	1	1	-4	-1	-11	0	1	4	0	10	7	10	9	3	13	13	10	7	2	14	-5	98
18 E Honolulu	11	-1	32	-13	33	-17	-3	8	-27	0	-4	6	0	3	7	0	2	48	9	13	10	1	-9	17	-8	118
19 Kāne'ohe	-72	-16	-14	-4	-15	15	-16	18	-14	27	13	-3	-1	20	0	-5	6	2	109	132	-14	-3	6	-13	-36	122
20 Kailua	-9	-5	2	8	-27	7	-5	7	-24	17	-4	12	1	13	14	-6	10	-10	-18	246	3	4	3	9	11	259
21 Ko'olauloa	2	4	1	7	-1	3	7	5	-6	-7	-4	2	0	8	1	2	5	-3	4	9	22	5	1	8	12	87
22 North Shor	0	14	-3	2	15	11	15	9	-1	1	3	8	0	6	4	-6	6	-1	-2	17	-1	15	3	7	0	122
23 Wai'anae	-5	-18	9	-9	4	9	-7	9	-22	1	11	3	3	25	10	-13	1	-2	5	24	-5	1	25	3	-26	36
24 Mānoa	83	49	47	25	26	18	23	8	-18	15	2	-8	-2	9	-7	1	3	-1	17	27	0	-2	2	40	71	428
25 UHManoa	13	-4	7	1	-1	-1	1	2	-3	4	0	-1	-1	0	2	1	-1	0	-1	1	1	0	0	18	0	38
Totals	449	192	410	442	231	139	257	170	-200	622	270	1066	75	484	248	221	190	65	230	957	163	76	122	425	391	7695

Table 28. 2030 Difference in Off-Peak Period Transit Trips: TSM Alternative vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Off-Peak Transit Person P-A Trip Table
TSM Alternative vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	10	16	-1	-3	5	2	1	-8	8	6	-1	1	-5	-2	2	-2	-3	12	5	3	2	-4	14	0	58
2 Kaka'ako	22	14	13	-3	-16	-7	-1	3	-3	1	4	-2	-1	2	-2	-2	2	2	1	9	0	2	-5	18	9	60
3 Makiki	18	28	91	-6	33	6	4	1	6	-1	2	-2	-1	-4	2	-5	-4	1	7	9	1	1	2	-10	0	179
4 Waikīkī	-7	7	-30	-37	9	0	6	-3	-5	18	3	-1	-1	-2	2	0	-2	7	3	-2	3	-2	2	20	0	-12
5 Kaimukī Wa	21	5	4	2	44	0	1	11	-18	7	3	-6	-3	1	-3	2	2	-6	5	8	0	7	-3	29	7	120
6 Kalihi Nuu	9	11	23	-2	-3	-3	12	11	-15	10	0	6	1	-8	6	2	4	-7	15	-4	0	1	-1	27	1	96
7 Iwilei	-1	-6	17	-1	2	5	5	-4	-8	10	0	3	-2	0	2	1	-1	-2	-4	10	0	4	-1	7	2	38
8 Airport PH	0	2	-1	0	0	3	8	-66	-1	15	2	6	1	5	0	1	-2	-1	3	7	-4	1	-4	1	3	-21
9 SaltLake H	0	-3	-6	-1	12	0	0	29	55	-3	1	4	-1	7	-6	1	4	-1	9	8	1	2	-5	-1	-2	104
10 PC 'Aiea	40	12	-5	12	1	-2	18	39	-41	184	7	14	-2	25	17	8	-10	-5	11	2	6	4	5	0	24	364
11 'Ewa	38	3	12	22	-1	8	13	2	-11	26	38	103	2	22	-1	11	13	0	13	27	3	-2	19	5	29	394
12 Kapolei	13	10	2	23	7	2	11	18	-11	20	15	218	12	23	8	1	5	5	6	16	3	3	7	-6	39	450
13 Makakilo	-6	4	5	10	-3	7	0	6	2	6	11	19	-1	1	7	0	6	1	-1	11	3	0	0	-7	19	100
14 Waipahu	16	-4	16	9	4	3	9	-5	-7	22	5	-9	4	50	0	24	-3	1	-4	19	3	0	7	4	15	179
15 Waiawa	23	12	9	32	5	2	17	-4	-2	46	4	18	-1	58	54	47	20	-2	5	11	2	3	1	-7	6	359
16 Mililani	8	3	10	-2	6	9	-2	-5	4	19	2	5	-5	23	31	21	29	5	11	19	-1	3	2	-11	14	198
17 Wahiawā Sc	2	4	-3	-1	13	-2	8	8	-5	0	1	5	-1	12	-5	5	12	5	-4	5	1	0	-3	-1	-7	49
18 E Honolulu	-2	-7	7	-14	33	-9	14	-6	-4	1	-4	4	0	3	6	2	-6	24	10	5	-2	-1	-1	4	9	66
19 Kāne'ohe	-29	12	-12	-8	-9	2	-5	-2	-13	23	-2	4	0	-1	-3	-2	3	-3	72	54	0	0	0	3	-8	76
20 Kailua	-4	0	-2	1	-5	9	28	13	-23	-10	7	2	-3	-5	-1	9	-5	4	7	71	-4	0	-5	4	-2	86
21 Ko'olauloa	5	1	-2	-3	2	3	2	-3	-6	7	-2	4	1	2	-4	1	-2	1	-1	9	8	-1	2	0	-1	23
22 North Shor	7	-5	7	-3	11	-1	2	-8	-9	12	0	8	0	2	4	-1	9	-3	-3	6	8	3	-7	3	2	44
23 Wai'anae	3	-6	1	-3	8	4	-3	-7	-19	4	9	-1	-2	-3	0	12	-5	-3	2	25	0	0	3	5	-3	21
24 Mānoa	44	15	26	10	42	19	14	-9	9	2	2	3	0	1	0	2	-3	4	3	5	0	2	-3	17	20	225
25 UHManoa	6	3	5	4	5	5	-2	1	-4	3	3	-1	1	-4	-2	1	0	-3	1	1	1	-1	1	-4	4	24
Totals	226	125	203	40	197	68	161	21	-137	430	117	403	-1	205	110	143	64	21	179	336	35	31	9	114	180	3280

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Table 29. 2030 Difference in Home Based Work Transit Trips: TSM Alternative vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table
TSM Alternative vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	4	13	3	1	-3	12	-6	-4	-8	4	2	3	-1	3	4	-2	1	3	2	24	-3	0	1	8	5	66
2 Kaka'ako	-8	15	4	-1	3	-2	0	-1	-22	5	-3	2	-1	3	0	0	2	2	-1	24	0	0	2	12	2	37
3 Makiki	46	26	31	-6	16	7	11	1	-38	15	0	6	0	3	-1	3	2	4	3	40	-3	4	1	12	21	204
4 Waikīkī	-2	-7	-4	-10	5	3	5	0	-17	3	0	4	0	1	0	1	2	2	3	17	2	0	-2	6	5	17
5 Kaimukī Wa	43	9	18	1	4	7	1	15	-25	10	0	3	0	-1	0	5	-2	0	-6	27	4	0	1	18	16	148
6 Kalihi Nuu	32	18	13	5	2	12	7	7	-26	12	2	-3	0	6	6	2	3	0	14	32	3	-2	-2	14	-2	155
7 Iwilei	15	1	11	-3	5	-3	-1	1	-16	12	-1	2	0	-1	4	2	-2	0	-1	16	0	2	-1	2	5	49
8 Airport PH	8	-2	3	1	-1	2	3	12	8	9	0	2	1	3	7	-3	2	1	-2	3	0	0	1	-3	3	58
9 SaltLake H	-17	-5	-1	-2	4	5	-11	49	32	4	0	-1	5	4	-1	-4	8	2	2	17	1	-1	0	4	1	95
10 PC 'Aiea	37	21	11	15	-5	12	29	24	-22	89	-1	17	5	35	5	11	-1	6	13	44	5	2	0	12	6	370
11 'Ewa	53	28	42	125	13	20	40	21	8	26	88	310	19	37	11	8	7	-2	4	53	8	-3	23	12	24	975
12 Kapolei	64	17	20	85	7	5	28	23	-1	19	55	387	20	27	11	1	15	5	14	41	-2	-2	32	5	34	910
13 Makakilo	-14	10	9	47	9	6	3	13	0	4	17	74	7	2	7	4	4	-1	6	15	1	1	4	4	14	246
14 Waipahu	33	9	24	96	8	2	7	0	5	23	8	30	3	46	15	7	6	0	8	16	6	-6	6	1	5	358
15 Waiawa	65	6	39	137	6	11	21	23	2	28	8	25	3	59	41	47	49	0	6	10	3	7	4	0	11	611
16 Mililani	22	14	14	22	11	-1	21	-4	-3	6	9	21	-6	22	38	42	41	-1	4	33	7	7	3	-5	12	329
17 Wahiawā Sc	7	-1	7	2	7	0	-1	2	-9	4	2	2	2	4	2	9	13	1	4	7	3	3	-2	1	-5	64
18 E Honolulu	11	-7	36	-24	18	-14	2	-8	-15	1	0	2	1	3	5	1	6	9	9	8	6	3	-2	18	5	74
19 Kāne'ohe	-79	-7	-16	2	-15	12	-5	21	-27	37	6	1	-2	8	-2	1	9	-1	17	125	-4	1	3	-3	-4	78
20 Kailua	7	-12	12	6	-17	3	1	6	-26	14	-5	7	1	-2	10	4	7	0	15	129	-5	2	-2	1	6	162
21 Ko'olauloa	7	3	2	2	3	0	6	3	-3	3	-1	5	0	5	-1	2	1	0	3	11	18	1	0	3	6	79
22 North Shor	-4	15	-1	1	11	11	6	12	-8	3	3	8	0	3	3	4	11	0	-1	18	0	13	-1	9	2	118
23 Wai'anae	-5	-8	-5	-15	11	11	-9	3	-26	1	4	16	1	12	6	-2	-2	1	0	31	-1	1	13	-3	-8	27
24 Mānoa	69	40	22	24	22	8	30	7	-19	12	3	-5	-2	6	1	0	-1	5	3	25	2	-1	0	16	15	282
25 UHManoa	7	3	3	0	2	0	2	0	-1	5	0	0	0	0	1	0	0	-1	-1	2	0	0	0	1	1	24
Totals	401	199	297	511	126	129	190	226	-257	349	196	918	56	288	172	143	181	35	118	768	51	32	82	145	180	5536

Table 30. 2030 Difference in Home Based Other Transit Trips: TSM Alternative vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table
TSM Alternative vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-8	6	5	-2	10	-4	8	-4	4	-7	0	2	0	0	1	0	1	-3	-2	11	2	-1	-1	30	2	50
2 Kaka'ako	-1	11	14	1	2	-4	5	-4	-3	-2	2	2	0	3	-2	-1	-1	2	6	3	0	0	-1	40	-4	68
3 Makiki	6	20	79	6	41	-1	8	2	-15	2	-1	3	0	-3	2	1	1	0	8	3	2	0	1	-1	19	183
4 Waikīkī	-2	4	-4	-1	1	-3	1	-2	-3	1	1	-2	0	3	0	1	0	1	5	0	3	-2	1	11	4	18
5 Kaimukī Wa	10	5	3	-4	45	-2	5	4	-16	3	-1	-3	0	2	-1	-1	3	14	4	2	0	2	-1	42	3	118
6 Kalihi Nuu	14	7	11	1	1	21	18	16	-20	7	-1	3	0	-7	5	2	2	-2	24	1	2	0	0	25	-1	129
7 Iwilei	5	-6	9	0	4	-7	8	-7	8	2	0	2	0	2	1	0	-1	-5	3	5	3	0	0	5	7	38
8 Airport PH	5	-1	6	-1	0	-3	2	-1	1	17	1	2	0	-3	1	3	-1	-2	0	3	0	-1	0	2	9	39
9 SaltLake H	-5	3	-5	5	7	-1	-1	50	61	5	-1	6	0	-3	-1	0	-5	-1	13	2	5	-1	-3	-2	-11	117
10 PC 'Aiea	32	1	3	3	16	4	23	24	-10	240	-1	10	-5	26	18	4	14	-4	19	16	14	3	1	9	53	513
11 'Ewa	24	12	2	-4	9	14	16	-10	3	39	72	125	2	45	1	-5	6	4	11	38	19	6	2	17	87	535
12 Kapolei	5	3	15	2	9	13	2	17	1	38	25	263	34	26	1	2	14	-7	7	33	13	2	41	13	76	648
13 Makakilo	1	-1	6	-4	18	2	-3	3	-6	11	1	20	9	4	4	7	2	2	9	18	19	6	2	10	28	168
14 Waipahu	9	-4	0	-2	8	5	17	-15	-6	22	-4	8	-1	60	3	20	5	1	3	20	30	6	13	14	25	237
15 Waiawa	12	4	6	0	8	5	13	-1	15	41	-3	16	1	80	51	116	25	0	8	4	16	7	-2	0	23	445
16 Mililani	17	-2	-3	1	14	-1	8	-8	13	33	3	7	-3	8	27	23	25	3	10	7	5	4	4	-10	29	214
17 Wahiawā Sc	3	5	-1	-4	8	-5	5	5	-7	1	3	3	-2	11	-1	2	7	4	5	7	8	5	-2	12	-8	64
18 E Honolulu	-11	-4	4	1	33	-4	1	10	-10	0	-2	1	-1	0	6	1	-3	52	8	4	1	-3	-3	8	2	91
19 Kāne'ohe	-23	2	-13	-11	-2	3	-17	-9	-2	7	4	4	0	17	-1	-5	-2	0	75	38	-5	-4	-2	-4	-35	15
20 Kailua	-12	11	-10	3	-12	15	13	16	-21	-1	2	4	0	5	2	0	3	-4	-9	165	4	4	2	10	4	194
21 Ko'olauloa	1	2	-3	2	1	4	1	0	-7	-2	-4	1	1	3	0	0	1	-2	0	8	15	-1	4	0	2	27
22 North Shor	6	-5	2	2	10	2	9	-13	3	5	1	5	1	1	3	-7	12	-1	0	5	3	3	-2	2	1	48
23 Wai'anae	3	-14	15	1	3	4	-2	-7	-12	4	5	-13	1	9	4	4	1	-7	8	17	-3	0	12	6	-19	20
24 Mānoa	33	27	31	11	41	20	6	-2	5	2	0	-2	0	2	-2	3	0	0	13	6	-2	1	0	37	72	302
25 UHManoa	8	-1	1	-1	4	3	-3	-2	-2	1	0	0	1	-2	0	0	0	2	2	0	0	0	0	-1	6	16
Totals	132	85	173	5	279	80	143	62	-26	469	102	467	38	289	122	170	109	47	230	416	154	36	66	275	374	4297

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Table 31. 2030 Difference in Non-Home Based Transit Trips: TSM Alternative vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table
TSM Alternative vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	21	11	8	-2	-3	9	-7	3	-1	2	2	0	1	-5	0	4	-4	0	0	4	5	1	-3	9	-1	54
2 Kaka'ako	3	28	21	0	-3	-7	1	6	-3	7	5	-5	-1	-6	-1	0	0	0	2	6	0	2	-5	19	-13	56
3 Makiki	16	-6	70	5	5	-4	11	-1	2	4	3	-2	-1	5	-5	-4	-2	-2	-2	2	-4	3	1	7	2	103
4 Waikīkī	-1	-1	3	-7	3	5	2	2	-4	3	4	-2	0	-2	-2	1	0	-2	0	-3	-1	-1	4	-3	4	2
5 Kaimukī Wa	6	2	17	6	42	-8	5	-2	0	0	5	-2	-3	-2	-1	-2	1	1	-4	7	1	4	2	17	-9	83
6 Kalihi Nuu	14	-1	3	-2	2	-5	1	1	-1	3	1	4	2	-2	3	-1	-1	-3	2	-6	-4	2	2	9	2	25
7 Iwilei	-8	2	3	6	-6	10	18	-1	-7	2	1	5	-1	2	-6	-2	4	0	-5	4	-2	3	-1	5	1	27
8 Airport PH	0	2	-1	-1	1	1	9	-142	11	3	3	4	-1	2	0	-6	0	0	3	8	-4	3	-4	2	0	-107
9 SaltLake H	-2	6	-1	-1	-3	3	-5	5	32	1	2	5	0	-4	5	2	-5	-6	3	11	1	-3	1	-3	3	47
10 PC 'Aiea	15	-3	2	3	4	-4	11	10	-21	108	5	-6	1	15	12	-3	-5	-6	0	1	4	7	2	4	-1	155
11 'Ewa	4	2	5	1	-1	-5	-3	4	3	3	12	14	1	6	1	11	-5	-1	0	1	0	0	4	3	2	62
12 Kapolei	1	2	0	6	-3	-2	1	4	3	8	16	58	-2	6	6	-1	-8	3	2	3	-2	2	2	1	3	109
13 Makakilo	2	-3	1	1	-1	0	1	-1	-3	0	-1	4	-1	3	2	4	0	0	0	1	0	0	0	0	1	10
14 Waipahu	8	-2	10	-1	-1	-10	3	-7	-8	21	10	-3	5	25	6	4	-5	5	1	3	-2	3	0	7	1	73
15 Waiawa	2	6	2	3	-2	4	6	6	-3	21	5	4	-4	34	31	41	10	0	-2	1	2	2	0	2	1	172
16 Mililani	9	-10	6	1	7	-1	3	-3	-9	8	2	0	-2	7	17	11	4	-1	0	4	4	6	-3	0	0	60
17 Wahiawā Sc	0	-1	-1	-1	0	3	1	-2	0	-3	-2	2	-1	4	3	1	7	4	1	4	-1	-1	3	0	-1	19
18 E Honolulu	6	2	-2	3	11	-8	6	1	-5	-2	-6	8	0	3	1	0	-6	9	1	6	1	1	-5	-3	-4	18
19 Kāne'ohe	3	2	4	-3	-7	2	1	2	0	8	0	-5	1	-5	1	-2	2	0	97	10	-4	1	5	-4	-1	108
20 Kailua	-9	-3	1	0	0	-1	8	-1	-1	-5	6	4	-3	5	1	-1	-4	0	-16	13	0	-2	-2	1	0	-9
21 Ko'olauloa	0	0	-1	0	-3	1	1	0	-2	-1	-1	0	0	2	-1	0	1	0	2	0	-1	3	-1	5	1	5
22 North Shor	4	-1	2	-4	5	-1	1	3	-5	4	-1	3	-1	5	0	-4	-3	-3	-3	4	0	-3	-1	-1	1	1
23 Wai'anae	0	-2	0	2	-1	-1	0	2	-3	2	10	0	-1	-3	2	-3	-2	0	0	0	0	0	3	5	0	10
24 Mānoa	28	-5	19	1	9	2	0	-4	2	1	2	1	0	1	-3	0	-1	-1	3	1	0	0	-1	11	2	68
25 UHManoa	3	0	7	5	-3	1	0	5	-3	2	3	-2	-1	-2	-2	2	-1	-5	-1	1	2	-1	1	11	0	22
Totals	125	27	178	21	52	-16	75	-110	-26	200	86	89	-12	94	70	52	-23	-8	84	86	-5	32	4	104	-6	1173

Table 32. 2030 Difference in Visitor Transit Trips: TSM Alternative vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Visitor Transit Person P-A Trip Table
TSM Alternative vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	0	2	-3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2 Kaka'ako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Makiki	3	0	0	0	-3	-1	3	2	0	-3	0	0	0	0	0	0	0	3	0	0	1	0	0	2	0	7
4 Waikīkī	-4	4	-46	-58	-7	4	9	3	0	18	0	0	0	0	0	0	0	10	0	0	5	-1	0	16	5	-42
5 Kaimukī Wa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Kalihi Nuu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Iwilei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Airport PH	0	-2	0	3	1	1	0	-2	0	4	0	0	0	0	0	0	0	-1	0	0	0	0	0	-1	1	4
9 SaltLake H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PC 'Aiea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 'Ewa	2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Kapolei	-1	1	0	0	0	0	-1	5	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
13 Makakilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Waipahu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Waiawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Mililani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Wahiawā Sc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 E Honolulu	1	0	2	-4	3	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	1
19 Kāne'ohe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Kailua	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2
21 Ko'olauloa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 North Shor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Wai'anae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Mānoa	0	0	2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25 UHManoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	1	2	-43	-63	-4	4	11	8	0	18	0	0	0	0	0	0	0	11	0	0	6	-1	0	17	6	-27

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Table 33. 2030 Daily Total Transit Trips Managed Lane Alternative Two-direction Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lanes Two-Direction Option E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1985	1271	1184	579	475	882	1218	400	405	164	10	41	2	54	27	13	12	75	75	145	12	5	6	285	291	9616
2 Kaka'ako	1956	1555	1878	1150	597	656	964	279	276	111	12	27	5	34	19	11	11	103	64	86	13	5	8	434	378	10632
3 Makiki	4249	2102	3079	2169	2101	651	1107	390	357	175	16	35	2	69	19	27	50	285	55	215	48	6	25	828	1161	19221
4 Waikīkī	5813	1624	3369	3200	2083	482	909	861	279	236	10	31	2	70	12	15	9	363	102	162	33	125	12	511	792	21105
5 Kaimukī Wa	1995	795	1824	1709	2723	330	544	182	174	85	8	44	1	41	20	13	14	485	52	62	17	7	7	551	852	12535
6 Kalihi Nuu	2901	1013	811	553	417	1702	2701	677	783	306	14	53	3	85	39	24	19	38	177	174	23	5	13	292	341	13164
7 Iwilei	1541	690	553	275	250	806	1721	609	597	250	10	41	2	69	23	19	11	22	61	57	12	15	6	153	218	8011
8 Airport PH	456	95	136	224	49	119	415	607	595	183	13	29	4	92	43	16	6	12	19	87	9	2	7	15	64	3297
9 SaltLake H	1143	331	348	217	197	392	1004	1597	2616	702	33	84	6	184	71	41	40	34	91	107	18	11	17	66	314	9664
10 PC 'Aiea	1044	309	323	227	196	270	811	1378	1540	3925	112	306	21	908	373	241	148	35	139	141	52	28	40	91	491	13149
11 'Ewa	1015	409	488	1237	351	295	536	635	560	950	3208	3665	171	1375	167	177	166	109	116	246	148	30	292	243	959	17548
12 Kapolei	787	290	361	842	289	251	419	451	430	645	1059	5595	350	747	120	135	120	77	93	201	135	27	756	172	813	15165
13 Makakilo	325	136	177	394	130	144	174	207	203	288	191	1270	169	209	40	54	42	42	52	107	70	17	312	108	302	5163
14 Waipahu	670	195	369	831	167	174	362	444	429	1270	563	673	61	2390	486	437	209	49	70	127	72	35	79	123	439	10724
15 Waiawa	640	167	364	829	136	123	333	368	360	1327	123	275	19	1024	1093	938	504	37	55	97	49	35	35	65	379	9375
16 Mililani	738	241	231	230	162	115	341	409	318	603	96	255	11	583	698	2763	1725	31	62	162	63	90	27	63	463	10480
17 Wahiawā Sc	448	133	174	136	89	65	172	196	133	184	32	107	5	198	196	909	1796	39	32	55	45	94	18	43	330	5629
18 E Honolulu	1235	384	814	699	1603	187	317	159	159	84	7	42	7	29	29	15	19	1713	53	182	23	9	12	257	572	8610
19 Kāne'ohe	1014	281	232	232	147	327	453	279	287	216	22	57	5	69	31	23	19	18	2622	811	152	18	11	55	281	7662
20 Kailua	1688	394	333	303	214	317	419	277	229	168	22	86	11	92	44	28	33	81	660	3539	59	11	22	87	427	9544
21 Ko'olauloa	238	91	98	122	51	47	84	98	63	39	6	25	2	57	19	21	21	42	82	78	1217	58	11	33	108	2711
22 North Shor	278	97	124	129	64	57	139	128	97	121	19	41	3	67	58	139	350	13	35	57	234	1070	11	38	227	3596
23 Wai'anae	719	279	327	393	202	153	325	466	306	199	99	885	55	213	65	60	74	51	61	144	20	12	2575	88	518	8289
24 Mānoa	2294	1078	1532	907	858	541	718	214	215	104	7	27	2	32	22	13	11	101	60	135	13	4	6	712	718	10324
25 UHManoa	432	119	327	206	223	62	88	32	29	19	3	6	2	6	4	3	0	22	9	24	0	2	1	124	55	1798
Totals	35604	14079	19456	17793	13774	9148	16274	11343	11440	12354	5695	13700	921	8697	3718	6135	5409	3877	4897	7201	2537	1721	4309	5437	11493	247012

Table 34. 2030 Peak Period Transit Trips Managed Lane Alternative Two-direction Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lanes Two-Direction Option E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1095	732	723	374	293	594	724	273	273	112	6	27	1	28	19	9	7	48	46	93	8	0	2	185	191	5863
2 Kaka'ako	1256	792	1091	768	417	479	644	201	187	81	6	17	1	27	13	7	4	71	47	58	8	2	5	338	253	6773
3 Makiki	2758	1240	1647	1301	1292	449	731	255	240	115	13	24	1	41	15	18	27	192	40	117	24	4	11	554	732	11841
4 Waikīkī	3107	939	1760	1637	1120	282	511	441	149	122	4	15	2	38	5	8	7	204	53	87	20	56	5	305	470	11347
5 Kaimukī Wa	1336	507	1205	1133	1576	222	345	120	120	57	4	28	0	28	11	6	8	323	26	42	10	3	5	378	527	8020
6 Kalihi Nuu	1908	613	493	350	240	1090	1629	442	499	191	10	29	1	58	27	12	14	26	115	118	16	2	9	173	234	8299
7 Iwilei	959	415	326	184	153	536	874	396	392	145	5	27	1	37	16	11	7	17	43	34	6	8	2	90	148	4832
8 Airport PH	263	57	74	107	29	67	230	360	344	99	5	21	1	62	27	5	4	6	10	41	4	1	4	10	45	1876
9 SaltLake H	737	201	196	128	114	262	601	986	1595	425	20	48	4	103	47	23	22	22	54	68	12	6	12	35	214	5935
10 PC 'Aiea	720	198	214	156	134	181	557	926	1056	2356	72	197	9	583	232	161	102	22	95	110	43	18	30	52	359	8583
11 'Ewa	745	289	344	909	250	231	366	420	384	655	2128	2339	124	837	102	129	122	74	81	180	117	22	225	182	740	11995
12 Kapolei	551	202	247	606	202	192	292	298	301	482	710	3257	212	489	69	99	91	55	62	143	107	17	644	132	609	10069
13 Makakilo	239	95	130	296	101	117	120	145	157	222	125	808	103	143	24	41	28	34	39	84	57	12	273	84	245	3722
14 Waipahu	490	131	278	633	112	133	240	302	267	767	367	432	33	1431	302	324	161	40	51	91	59	27	62	88	342	7163
15 Waiawa	466	112	254	630	95	90	211	250	228	852	89	179	10	672	608	712	374	29	39	68	35	28	26	48	272	6377
16 Mililani	513	164	173	164	100	83	234	287	207	383	65	164	8	369	420	1835	1190	21	36	98	44	64	20	44	352	7038
17 Wahiawā Sc	285	89	113	90	56	40	114	125	82	121	18	59	4	124	117	597	1057	16	21	36	32	71	10	29	237	3543
18 E Honolulu	875	271	548	476	990	127	206	111	111	46	3	28	0	19	17	10	11	1093	39	136	17	5	9	176	379	5703
19 Kāne'ohe	736	190	164	154	107	225	310	206	199	137	16	37	2	45	24	17	12	12	1605	553	105	7	5	39	182	5089
20 Kailua	1153	260	233	213	128	219	282	199	166	119	11	52	4	63	27	19	22	50	441	2271	39	7	13	51	284	6326
21 Ko'olauloa	167	61	62	79	28	32	49	62	35	20	3	15	1	28	10	11	15	21	45	43	853	39	5	20	79	1783
22 North Shor	210	71	82	84	38	34	91	92	66	70	13	24	1	39	36	87	235	9	21	32	161	692	9	27	161	2385
23 Wai'anae	507	191	216	269	134	105	219	304	186	107	68	560	31	140	45	31	49	28	32	73	8	5	1812	53	382	5555
24 Mānoa	1505	660	912	611	511	339	465	153	138	68	6	16	1	20	12	12	9	62	36	87	7	2	4	423	457	6516
25 UHManoa	258	73	181	114	127	36	59	18	17	9	0	5	0	1	3	3	0	15	6	12	0	1	0	67	31	1036
Totals	22839	8553	11666	11466	8347	6165	10104	7372	7399	7761	3767	8408	555	5425	2228	4187	3578	2490	3083	4675	1792	1099	3202	3583	7925	157669

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Table 35. 2030 Off-Peak Period Transit Trips Managed Lane Alternative Two-direction Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lanes Two-Direction Option E-MODEL
OffPeak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	877	549	464	206	180	285	493	138	132	54	4	13	1	11	7	4	5	27	29	52	3	5	4	86	124	3753
2 Kaka'ako	690	724	801	400	180	175	317	82	85	30	5	10	4	8	7	4	6	31	17	28	5	3	3	105	139	3859
3 Makiki	1474	865	1349	876	830	207	376	136	117	59	3	11	1	28	4	9	23	93	16	97	24	2	14	284	482	7380
4 Waikīkī	2696	684	1628	1551	955	203	396	417	131	116	6	16	0	31	7	7	1	159	50	74	13	69	7	204	335	9756
5 Kaimukī Wa	641	290	635	599	1103	108	201	63	51	30	4	16	1	13	7	7	6	166	26	19	7	4	2	173	343	4515
6 Kalihi Nuu	1022	400	318	203	182	562	1084	237	286	118	3	21	2	18	12	12	5	12	61	56	6	3	4	111	127	4865
7 Iwilei	591	277	227	92	97	281	814	233	200	104	4	13	1	18	6	8	4	5	19	22	5	7	4	64	83	3179
8 Airport PH	194	38	62	115	20	52	185	252	249	83	8	8	3	26	16	11	2	5	9	46	5	1	3	5	23	1421
9 SaltLake H	407	128	151	91	83	131	403	625	1027	260	13	35	2	66	22	18	17	12	36	39	6	5	5	30	116	3728
10 PC 'Aiea	326	112	109	71	60	88	253	452	520	1542	40	110	12	298	142	77	46	13	42	30	9	10	9	38	157	4566
11 'Ewa	269	123	144	330	96	63	169	212	174	299	1051	1330	48	552	62	48	44	34	34	66	29	7	51	61	257	5553
12 Kapolei	236	89	114	238	86	58	127	155	129	161	345	2340	124	259	51	35	29	20	27	57	24	8	105	41	241	5099
13 Makakilo	86	41	47	98	29	29	53	61	45	66	65	485	52	67	15	14	13	8	8	23	9	3	24	24	76	1441
14 Waipahu	179	65	92	212	53	41	122	141	162	518	192	213	27	950	175	115	47	9	18	35	12	9	17	36	122	3562
15 Waiawa	172	57	109	210	39	33	123	118	130	488	34	83	9	368	464	217	125	8	15	28	14	7	9	18	119	2997
16 Mililani	225	78	58	67	61	32	104	123	113	214	31	66	4	219	279	881	581	10	24	64	17	26	6	19	139	3441
17 Wahiawā Sc	162	44	61	45	32	25	58	70	51	62	9	31	1	76	77	323	740	23	10	20	9	22	7	14	116	2088
18 E Honolulu	365	113	269	223	613	61	110	48	51	37	4	15	7	10	12	5	8	599	14	46	6	4	3	80	204	2907
19 Kāne'ohe	291	91	66	78	41	102	147	74	88	78	7	20	3	24	7	6	7	6	982	271	46	11	6	16	105	2573
20 Kailua	542	133	102	90	80	100	136	76	61	49	11	34	7	29	17	9	11	27	217	1274	20	4	9	36	144	3218
21 Ko'olauloa	71	30	36	42	22	14	35	37	27	19	3	11	1	29	9	9	6	21	27	33	374	19	6	14	33	928
22 North Shor	68	26	41	45	26	25	46	36	29	52	6	15	2	27	22	54	123	4	12	21	60	378	2	11	80	1211
23 Wai'anae	213	87	111	124	66	47	105	161	117	95	31	331	24	73	19	29	26	22	22	55	7	6	769	35	159	2734
24 Mānoa	798	420	638	305	331	189	244	61	77	38	0	11	1	12	9	1	3	39	22	48	6	2	2	261	290	3808
25 UHManoa	176	43	146	92	98	26	29	14	12	10	3	1	2	5	1	0	0	6	3	12	0	1	1	56	25	762
Totals	12771	5507	7778	6403	5363	2937	6130	4022	4064	4582	1882	5239	339	3217	1449	1903	1878	1359	1740	2516	716	616	1072	1822	4039	89344

Table 36. 2030 Journey to Work Home-Based Work Transit Trips Managed Lane Alternative Two-direction Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lanes Two-Direction Option E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	465	303	388	269	98	152	326	205	160	79	7	15	1	14	19	9	7	14	28	63	1	0	0	45	36	2704
2 Kaka'ako	926	257	476	623	173	174	413	184	146	67	5	11	2	17	14	6	6	27	29	55	1	2	2	83	76	3775
3 Makiki	2035	785	810	751	452	248	512	226	194	93	9	16	0	23	14	15	10	68	23	79	3	1	3	159	150	6679
4 Waikīkī	1124	549	590	419	285	108	236	110	77	38	4	10	0	15	7	4	7	37	18	33	3	0	0	89	94	3857
5 Kaimukī Wa	1114	420	743	865	363	110	225	108	89	44	1	19	0	21	11	4	6	63	18	30	1	1	1	101	135	4493
6 Kalihi Nuu	1432	391	316	226	73	224	687	320	251	137	9	20	1	29	25	9	11	11	53	85	4	1	2	41	42	4400
7 Iwilei	515	211	191	131	36	111	233	236	169	80	3	11	0	19	17	8	5	7	22	27	1	2	0	29	18	2082
8 Airport PH	82	18	14	14	6	12	54	141	87	35	0	6	0	43	23	5	3	0	4	5	0	0	0	1	2	555
9 SaltLake H	479	127	107	74	35	91	245	491	602	180	7	25	4	51	41	11	14	6	24	34	3	0	0	14	26	2691
10 PC 'Aiea	554	146	141	125	41	83	317	559	440	648	49	130	5	225	148	72	78	10	53	64	4	10	5	12	60	3979
11 'Ewa	681	235	247	1032	82	76	212	290	184	217	614	1497	79	268	67	62	80	16	22	81	19	5	114	31	190	6401
12 Kapolei	456	151	164	605	63	58	164	186	126	147	262	1533	91	173	40	46	53	12	17	61	13	3	153	26	140	4743
13 Makakilo	213	72	87	338	25	28	68	82	55	52	78	464	36	55	14	20	16	3	11	30	4	2	42	14	65	1874
14 Waipahu	428	93	244	729	24	40	119	182	114	247	146	256	20	395	157	79	84	8	23	37	5	7	15	15	64	3531
15 Waiawa	449	93	244	752	29	41	131	184	119	337	59	129	7	250	332	170	176	11	19	37	5	15	7	15	63	3674
16 Mililani	425	152	141	151	50	52	169	257	151	267	57	140	8	158	233	480	550	5	28	47	15	45	8	17	97	3703
17 Wahiawā Sc	179	61	53	70	12	24	67	112	60	85	16	51	5	57	79	201	451	6	10	16	9	36	3	6	56	1725
18 E Honolulu	716	238	411	395	300	78	153	107	80	36	3	18	0	8	13	7	8	207	20	68	3	1	5	64	95	3034
19 Kāne'ohe	657	164	148	132	43	119	218	186	152	105	9	18	2	22	25	16	10	3	320	271	32	2	0	20	39	2713
20 Kailua	890	217	198	179	70	133	210	191	137	89	7	30	2	33	27	11	13	28	162	670	11	3	5	25	47	3388
21 Ko'olauloa	152	50	50	60	10	15	38	40	22	9	0	5	0	7	4	7	9	2	35	21	284	28	1	10	33	892
22 North Shor	190	57	64	76	16	18	63	63	37	33	9	14	0	21	35	55	145	2	10	22	66	184	1	9	52	1242
23 Wai'anae	478	163	181	216	63	62	149	280	122	76	45	425	16	93	37	16	32	11	12	56	1	1	325	25	128	3013
24 Mānoa	1148	463	527	522	204	153	323	141	109	61	5	11	0	11	18	8	5	26	21	47	3	2	1	96	89	3994
25 UHManoa	127	49	76	64	34	19	34	16	13	6	0	2	0	0	3	1	0	6	3	3	0	0	0	11	4	471
Totals	15915	5465	6611	8818	2587	2229	5366	4897	3696	3168	1404	4856	279	2008	1403	1322	1779	589	985	1942	491	351	693	958	1801	79613

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Table 37. 2030 Home-Based Other Transit Trips Managed Lane Alternative Two-direction Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lanes Two-Direction Option E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	383	423	345	112	247	466	557	109	178	38	0	17	0	29	3	3	2	37	20	28	9	1	1	172	219	3399
2 Kaka'ako	489	635	611	272	348	375	427	68	95	23	0	10	0	13	3	0	3	57	25	18	8	1	2	280	257	4020
3 Makiki	1038	797	1196	558	1291	290	483	68	102	38	4	15	1	34	3	4	4	139	24	23	13	2	3	468	708	7306
4 Waikīkī	549	486	942	376	944	92	173	34	37	20	2	12	0	15	3	5	1	50	14	11	7	2	0	195	345	4315
5 Kaimukī Wa	432	244	732	513	1455	135	219	52	64	24	1	14	0	12	6	3	4	266	13	15	7	3	2	364	537	5117
6 Kalihi Nuu	955	364	340	134	254	1142	1400	284	429	131	1	26	1	50	7	6	6	21	84	51	16	2	3	176	266	6149
7 Iwilei	346	165	135	51	124	424	483	182	249	51	0	17	0	26	3	3	2	9	25	10	8	1	1	50	151	2516
8 Airport PH	58	12	14	9	19	25	102	182	144	51	1	9	0	16	2	2	1	4	5	3	4	0	1	6	55	725
9 SaltLake H	311	75	87	58	115	212	511	738	1323	278	2	28	1	80	5	9	10	13	44	23	11	3	7	37	235	4216
10 PC 'Aiea	299	82	99	63	142	151	377	549	793	1955	23	114	3	445	104	104	40	15	64	61	41	8	22	50	415	6019
11 'Ewa	290	155	199	160	263	211	299	324	356	683	2236	1894	78	947	82	102	76	79	89	152	127	22	166	175	760	9925
12 Kapolei	210	104	141	119	204	174	217	224	272	431	531	2438	164	439	44	73	53	54	65	130	108	18	546	135	657	7551
13 Makakilo	101	58	87	50	104	115	105	120	142	229	99	711	115	141	23	32	24	38	39	72	64	14	267	93	237	3080
14 Waipahu	169	73	105	76	129	127	175	218	276	724	247	287	26	1356	214	289	107	34	41	78	64	19	52	83	368	5337
15 Waiawa	153	58	77	61	101	76	143	164	192	846	47	116	9	625	605	647	277	21	30	47	40	15	22	45	310	4727
16 Mililani	218	63	72	55	105	51	150	125	148	248	22	91	1	340	347	1890	922	22	26	50	42	31	13	40	328	5400
17 Wahiawā Sc	106	45	46	43	65	27	81	61	65	73	8	43	0	117	74	549	909	16	17	29	35	42	10	34	271	2766
18 E Honolulu	284	125	327	222	1107	102	145	44	67	33	2	16	4	17	10	4	8	1183	26	102	17	5	6	171	434	4461
19 Kāne'ohe	249	69	64	49	91	173	198	65	109	79	5	29	1	37	2	4	6	12	1628	437	87	2	3	34	227	3660
20 Kailua	470	98	84	65	127	140	173	65	68	54	4	35	3	46	7	7	14	41	360	2151	37	3	6	46	359	4463
21 Ko'olauloa	54	31	40	44	35	28	36	40	37	22	2	13	2	12	10	8	9	10	29	34	772	9	7	18	70	1372
22 North Shor	67	34	51	48	43	33	63	56	55	32	7	21	1	36	16	77	169	11	22	28	158	698	7	28	165	1926
23 Wai'anae	162	97	123	118	130	78	150	138	135	100	39	392	32	105	25	34	37	30	41	82	18	7	1948	59	378	4458
24 Mānoa	703	479	749	268	529	271	363	65	84	24	0	13	0	18	4	3	3	57	32	17	8	2	2	478	482	4654
25 UHManoa	69	31	69	33	81	21	33	3	7	3	0	1	1	1	0	0	0	9	3	3	0	0	0	40	10	418
Totals	8165	4803	6735	3557	8053	4939	7063	3978	5427	6190	3283	6362	443	4957	1602	3858	2687	2228	2766	3655	1701	910	3097	3277	8244	107980

Table 38. 2030 Non-Home Based Transit Trips Managed Lane Alternative Two-direction Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lanes Two-Direction Option E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1048	501	331	109	86	221	331	49	55	43	3	9	1	11	5	1	3	24	19	22	2	4	5	68	26	2977
2 Kaka'ako	541	663	657	195	74	92	124	23	31	19	7	6	3	4	2	5	2	12	10	13	4	2	4	69	43	2605
3 Makiki	442	489	966	428	238	95	97	19	41	22	3	4	1	12	2	8	5	32	8	12	7	3	7	172	128	3241
4 Waikīkī	145	174	314	697	186	17	28	13	10	5	4	9	2	3	2	6	1	12	2	11	3	3	2	35	44	1728
5 Kaimukī Wa	171	125	271	283	655	41	60	22	21	17	6	11	1	6	3	6	4	107	5	17	9	3	4	76	128	2052
6 Kalihi Nuu	365	122	94	45	39	249	316	61	86	37	4	7	1	6	7	9	2	6	20	20	3	2	8	31	10	1550
7 Iwilei	536	182	111	53	45	238	882	191	179	112	7	13	2	24	3	8	4	6	14	16	3	5	5	22	14	2675
8 Airport PH	113	47	29	21	20	51	234	236	324	87	8	14	4	33	18	9	2	7	10	61	5	2	6	8	5	1354
9 SaltLake H	133	49	50	25	29	80	195	360	588	235	13	23	1	44	25	21	8	7	23	49	4	8	10	10	9	1999
10 PC 'Aiea	97	43	40	26	13	36	93	176	277	1307	40	62	13	238	121	65	25	10	22	16	7	10	13	12	16	2778
11 'Ewa	40	18	14	21	6	8	22	15	12	50	358	274	14	160	18	13	10	5	5	13	2	3	12	6	9	1108
12 Kapolei	70	31	21	28	18	13	30	31	32	63	266	1624	95	135	36	16	14	10	11	10	14	6	57	9	16	2656
13 Makakilo	8	6	3	6	1	1	1	5	6	7	14	95	18	13	3	2	2	1	2	5	2	1	3	1	0	206
14 Waipahu	61	25	20	26	14	7	28	44	39	271	170	130	15	599	115	69	18	7	6	12	3	9	12	4	7	1711
15 Waiawa	38	16	13	16	6	6	19	20	29	144	17	30	3	149	156	121	51	5	6	13	4	5	6	5	6	884
16 Mililani	46	14	18	24	7	8	22	27	19	60	17	24	2	85	118	393	196	4	8	9	6	14	6	6	10	1143
17 Wahiawā Sc	33	7	14	13	6	10	11	21	8	21	8	13	0	22	43	159	295	5	5	7	1	16	5	3	3	729
18 E Honolulu	91	21	50	38	127	5	19	8	12	15	2	8	3	4	6	4	3	280	7	12	3	3	1	15	10	747
19 Kāne'ohe	69	29	20	15	13	29	37	24	26	32	8	10	2	10	4	3	3	3	645	85	6	5	8	1	3	1090
20 Kailua	142	35	31	23	13	30	27	17	24	23	11	21	6	13	10	10	6	12	96	622	11	5	11	12	8	1219
21 Ko'olauloa	20	10	7	12	6	4	10	9	4	8	4	7	0	1	5	6	3	2	9	9	101	8	3	5	5	258
22 North Shor	13	6	9	4	5	6	9	9	5	10	3	6	2	10	7	7	16	0	3	7	8	99	3	1	8	256
23 Wai'anae	41	19	22	29	9	13	21	18	14	14	15	68	7	15	3	10	5	10	8	6	1	4	302	4	12	670
24 Mānoa	153	110	210	66	68	57	32	8	16	11	2	3	2	3	0	2	3	8	7	9	2	0	3	99	66	940
25 UHManoa	65	37	116	47	100	14	21	9	9	8	3	3	1	5	1	2	0	7	3	4	0	2	1	73	24	555
Totals	4481	2779	3431	2250	1784	1331	2669	1415	1867	2621	993	2474	199	1605	713	955	681	582	954	1060	211	222	497	747	610	37131

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Table 39. 2030 Visitor Transit Trips Managed Lane Alternative Two-direction Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lanes Two-Direction Option E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	120	89	44	43	4	37	12	4	0	0	0	0	0	0	0	0	8	32	0	0	0	0	10	536
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	734	31	107	432	120	18	15	77	20	22	0	0	0	0	0	0	31	46	0	101	25	0	12	29	175	1995
4 Waikīkī	3995	415	1523	1708	668	265	472	704	155	173	0	0	0	37	0	0	0	264	68	107	20	120	10	192	309	11205
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	116	40	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	35	738
8 Airport PH	203	18	79	180	4	31	25	48	40	10	4	0	0	0	0	0	0	1	0	18	0	0	0	0	2	663
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	94	38	43	13	0	0	24	94	30	15	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	373
11 'Ewa	4	1	28	24	0	0	3	6	8	0	0	0	0	0	0	0	0	9	0	0	0	0	0	31	0	114
12 Kapolei	51	4	35	90	4	6	8	10	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	215
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	130	20	61	10	6	4	13	2	0	5	0	0	0	2	0	0	141	12	0	3	0	0	0	0	0	409
18 E Honolulu	144	0	26	44	69	2	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	7	33	368
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	20	36	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	474
21 Ko'olauloa	12	0	1	6	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	60	13	0	0	0	189
22 North Shor	8	0	0	1	0	0	4	0	0	46	0	0	0	0	0	0	20	0	0	0	2	89	0	0	2	172
23 Wai'anae	38	0	1	30	0	0	5	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
24 Mānoa	290	26	46	51	57	60	0	0	6	8	0	0	0	0	0	0	0	10	0	62	0	0	0	39	81	736
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7043	1032	2679	3168	1350	649	1176	1053	450	375	15	8	0	127	0	0	262	478	192	544	134	238	22	455	838	22288

Table 40. 2030 Difference in Daily Transit Trips: Managed Lanes Two-Direction Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Transit Person P-A Trip Table
Managed Lanes Two-Direction Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	34	25	18	-9	15	14	15	1	-47	4	2	4	1	7	10	2	-6	14	1	28	-1	-1	-5	49	-16	159
2 Kaka'ako	22	73	50	34	1	-8	15	0	-19	7	4	-4	2	-4	1	-2	0	7	16	25	2	3	-5	65	1	286
3 Makiki	94	64	248	32	47	9	31	9	-27	15	0	-3	0	20	-6	-2	8	19	8	44	-4	-4	4	20	29	655
4 Waikīkī	19	2	-66	-71	6	-1	17	13	-23	25	3	3	1	-1	-1	4	0	12	8	14	8	-2	-2	24	7	-1
5 Kaimukī Wa	84	49	98	39	64	2	23	26	-27	6	2	7	-2	6	6	0	-1	19	-2	25	9	2	-3	71	59	562
6 Kalihi Nuu	94	40	19	0	15	14	39	34	-46	35	2	-2	2	-7	16	5	2	-5	28	38	4	-1	3	43	5	377
7 Iwilei	25	12	19	20	-1	7	23	5	-2	8	-1	0	0	14	-1	2	-3	-3	3	21	5	4	-4	11	4	168
8 Airport PH	23	7	4	6	6	2	19	-107	85	25	0	6	0	11	10	-1	-3	1	3	5	-2	0	-2	-3	8	103
9 SaltLake H	-33	-1	-11	-1	5	11	-9	132	171	15	-1	1	3	-5	1	9	-3	-6	26	18	3	0	-5	-3	6	323
10 PC 'Aiea	115	41	31	31	22	14	86	128	2	430	6	23	0	82	22	23	1	-1	49	68	18	13	-3	12	119	1332
11 'Ewa	144	58	54	269	59	18	74	68	41	136	159	502	28	108	18	3	15	17	22	99	38	0	28	39	197	2194
12 Kapolei	131	42	44	180	42	15	37	69	44	75	103	917	52	113	13	3	25	-1	14	84	29	-2	97	29	94	2249
13 Makakilo	5	5	19	94	11	5	-7	23	-11	23	24	91	21	16	13	14	5	-1	17	37	20	10	4	19	29	486
14 Waipahu	101	18	63	164	16	6	39	46	25	88	22	25	15	137	27	35	5	14	15	44	31	13	6	11	108	1074
15 Waiawa	208	43	100	381	23	26	75	74	67	216	20	40	4	147	193	196	111	10	18	42	22	12	-6	9	69	2100
16 Mililani	7	20	6	8	26	-13	19	42	32	70	21	27	-9	64	96	78	57	-6	18	46	17	13	1	-7	31	664
17 Wahiawā Sc	7	-6	6	1	2	-9	6	39	5	3	3	8	-1	26	22	9	21	12	10	8	11	8	-1	7	-20	177
18 E Honolulu	20	3	48	-11	70	-28	-2	4	-8	-3	-6	13	5	7	15	3	-6	72	7	17	0	2	-9	25	-4	234
19 Kāne'ohe	-78	-3	-21	-1	-9	11	-18	18	-4	61	9	-4	2	15	8	-1	5	-5	207	168	-22	-4	1	-4	-31	300
20 Kailua	9	-5	3	13	-23	16	7	29	-36	9	-1	14	2	4	21	3	4	-1	-11	285	4	3	-4	17	14	376
21 Ko'olauloa	20	13	9	18	-10	5	8	12	-6	1	-4	4	0	9	1	2	2	-2	4	21	35	-1	6	9	14	170
22 North Shor	16	5	6	0	14	2	9	16	-2	11	6	12	-1	16	9	-6	19	-7	-3	29	5	21	-4	5	3	181
23 Wai'anae	-23	-7	-14	-4	10	10	-21	27	-10	6	12	21	-12	19	15	0	9	-10	7	47	-4	1	33	5	-46	71
24 Mānoa	116	52	55	25	73	27	29	8	1	11	5	-15	0	3	3	1	0	3	19	26	2	2	2	67	79	594
25 UHManoa	27	7	20	1	5	6	2	6	-4	4	1	1	1	-1	-1	3	-3	-4	2	4	-1	1	0	8	6	91
Totals	1187	557	808	1219	489	161	516	722	201	1281	391	1691	114	806	511	383	264	148	486	1243	229	93	132	528	765	14925

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Table 41. 2030 Difference in Peak Period Transit Trips: Managed Lanes Two-Direction Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Peak Transit Person P-A Trip Table
Managed Lanes Two-Direction Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	25	14	17	3	6	10	7	3	-23	-8	0	3	0	9	9	2	-5	8	-8	28	0	-3	-1	31	-18	109
2 Kaka'ako	11	30	39	26	14	-12	15	3	-17	11	0	-3	-1	-1	1	-3	1	0	11	14	3	0	1	57	-8	192
3 Makiki	89	34	144	25	15	6	24	11	-24	12	3	4	0	11	-2	-1	9	9	4	20	-5	0	1	34	27	450
4 Waikīkī	10	5	-39	-33	-3	9	3	20	-21	13	2	-2	2	-2	-2	0	2	12	7	11	7	-1	-2	11	9	18
5 Kaimukī Wa	64	25	77	30	46	3	12	6	-7	4	1	9	0	3	4	-1	-3	12	-9	22	4	-1	3	61	37	402
6 Kalihi Nuu	66	36	2	7	2	28	27	22	-24	15	2	-9	1	8	8	0	0	5	14	38	3	-2	6	15	5	275
7 Iwilei	26	10	-1	15	-2	2	18	10	0	-2	-2	5	1	11	-1	-1	0	0	1	15	1	2	-3	8	9	122
8 Airport PH	18	4	5	3	4	-1	9	-42	61	17	-2	6	0	6	7	-5	0	2	0	2	1	0	1	-3	8	101
9 SaltLake H	-30	2	-11	-1	-11	20	-12	115	101	13	0	-2	3	-9	10	4	-3	-1	11	16	4	-2	1	-2	8	224
10 PC 'Aiea	70	30	29	22	12	3	74	68	24	259	6	14	-5	58	19	12	9	1	28	62	14	9	-2	13	90	919
11 'Ewa	110	45	51	206	49	17	58	48	40	96	119	374	26	77	17	8	3	7	16	86	30	3	3	36	160	1685
12 Kapolei	99	30	31	158	30	2	32	46	34	65	72	607	33	79	3	10	26	-5	8	71	21	-1	83	23	66	1623
13 Makakilo	9	1	16	74	17	0	-7	16	-11	21	10	78	18	13	7	14	-3	-3	12	29	16	9	2	15	28	381
14 Waipahu	78	19	45	141	3	6	34	38	22	48	18	30	5	94	27	12	7	15	16	32	29	10	5	7	77	818
15 Waiawa	152	24	73	292	16	26	48	69	44	143	14	26	-1	108	110	152	73	10	11	33	15	14	-8	12	58	1514
16 Mililani	1	4	10	16	7	-10	28	33	17	46	19	22	-5	32	58	58	32	-3	8	32	12	9	1	-5	44	466
17 Wahiawā Sc	-1	-4	8	0	1	-10	6	23	4	1	1	6	-1	13	18	9	6	3	11	9	11	8	2	9	-10	123
18 E Honolulu	19	10	40	-5	38	-22	-13	7	-2	-9	-2	8	-2	6	7	1	0	55	2	13	3	1	-4	19	-5	165
19 Kāne'ohe	-65	-13	-12	-2	0	10	-9	22	9	33	10	-5	0	6	6	-2	5	0	126	131	-19	-1	2	-4	-34	194
20 Kailua	8	-7	4	15	-16	10	-11	10	-19	24	-5	9	2	8	14	-1	7	-9	-14	231	2	2	3	9	15	291
21 Ko'olauloa	13	7	9	16	-8	4	3	12	-1	-2	-2	2	1	6	2	1	3	-2	3	12	26	-1	2	10	16	132
22 North Shor	11	10	-1	2	6	0	5	18	3	7	6	5	-2	7	5	-4	8	-1	-3	20	1	18	3	6	-3	127
23 Wai'anae	-22	-8	-11	-6	17	9	-13	27	-3	3	8	11	-6	16	18	-11	10	-5	6	22	-6	1	33	1	-41	50
24 Mānoa	71	48	31	19	27	14	24	15	-4	11	4	-16	-1	4	-2	3	3	-7	10	27	1	0	3	51	70	406
25 UHManoa	22	2	9	1	2	1	2	0	-1	1	-2	2	-1	0	1	3	-1	-1	1	2	0	1	-1	12	3	58
Totals	854	358	565	1024	272	125	364	600	202	822	280	1184	67	563	344	260	189	102	272	978	174	75	134	426	611	10845

Table 42. 2030 Difference in Off-Peak Transit Trips: Managed Lanes Two-Direction Option vs. No Build Alternative

HHCTP Study
Year 2030 TSM E-MODEL
OffPeak Transit Person P-A Trip Table
Managed Lanes Two-Direction Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	6	14	3	-12	6	7	0	4	-26	12	2	1	1	-3	1	0	-1	7	9	0	-1	2	-4	19	3	50
2 Kaka'ako	13	36	16	12	-18	2	-1	0	-4	-4	2	-1	3	-2	0	1	-2	6	5	12	-1	3	-6	11	11	94
3 Makiki	5	32	109	3	35	10	5	-3	-2	0	-3	-7	0	9	-2	0	0	7	6	23	1	-4	3	-15	-7	205
4 Waikīkī	9	-3	-27	-40	12	-6	12	-9	-3	16	1	4	-1	-1	2	4	-3	0	2	3	1	-1	0	11	-2	-19
5 Kaimukī Wa	21	24	24	9	8	-1	11	19	-26	8	1	-2	-2	3	1	1	2	7	7	2	5	3	-6	13	26	158
6 Kalihi Nuu	33	6	14	-8	17	-12	7	8	-21	18	-1	7	1	-12	7	5	3	-10	14	2	0	1	-3	27	-1	102
7 Iwilei	-2	6	18	6	2	7	2	-6	-1	10	0	-5	-1	3	-1	3	-3	-3	3	6	3	2	-1	5	-7	46
8 Airport PH	5	4	-1	4	1	3	10	-66	23	8	2	0	0	5	3	4	-3	-1	3	3	-3	0	-3	0	1	2
9 SaltLake H	-1	-5	-1	2	16	-10	3	29	64	0	-1	2	0	9	-11	4	-1	-5	13	-1	-1	2	-6	-2	-2	97
10 PC 'Aiea	47	12	0	9	7	9	10	59	-28	175	1	11	5	19	6	11	-7	-2	19	5	4	4	-2	-2	39	411
11 'Ewa	33	16	3	64	4	2	16	16	-2	45	43	133	1	36	-2	-4	8	9	5	14	8	-4	15	2	45	506
12 Kapolei	33	17	11	24	13	11	5	25	10	12	28	307	16	32	11	-8	-1	3	6	13	6	0	10	7	37	628
13 Makakilo	-4	5	2	21	-5	7	-1	7	-1	2	15	13	2	4	5	1	7	2	0	9	3	1	-1	4	7	105
14 Waipahu	21	0	19	29	11	0	4	7	5	35	5	-14	9	46	0	24	-4	-1	-1	13	2	5	0	5	37	257
15 Waiawa	53	21	27	97	5	0	29	8	17	78	5	12	5	40	74	43	34	0	7	8	7	-2	2	-2	16	584
16 Mililani	5	17	-4	-7	18	-3	-11	8	17	18	4	5	-4	28	42	14	28	-3	9	14	3	4	0	-2	-3	197
17 Wahiawā Sc	8	-1	-1	0	0	1	0	16	2	-1	1	4	0	17	0	6	9	8	-2	0	1	0	-3	-2	-8	55
18 E Honolulu	-1	-6	8	-10	34	-5	11	-2	-4	5	-4	5	7	1	8	2	-6	21	6	2	-3	0	-5	4	0	68
19 Kāne'ohe	-14	9	-11	1	-8	1	-5	-5	-13	26	0	2	2	8	1	0	0	-5	70	52	-6	-3	-1	1	1	103
20 Kailua	-1	1	0	-2	-11	7	18	18	-19	-13	4	4	0	-4	7	4	-4	6	0	64	2	1	-7	10	0	85
21 Ko'olauloa	7	6	1	2	-2	0	5	0	-5	3	-2	2	-1	3	-1	1	-1	0	-1	7	8	0	4	0	1	37
22 North Shor	5	-5	8	-2	8	3	3	-3	-5	5	0	6	1	8	5	-1	9	-6	-2	6	8	6	-7	-1	4	53
23 Wai'anae	0	0	-3	2	-7	0	-7	4	-8	2	5	9	-7	6	-5	11	-1	-4	2	24	1	0	1	4	-8	21
24 Mānoa	47	1	28	4	42	17	4	-9	7	3	0	1	1	-1	2	-2	0	10	9	-1	1	2	-1	11	12	188
25 UHManoa	7	2	14	0	3	5	-1	6	-3	2	3	-1	2	-1	-1	0	-2	-2	1	1	-1	0	1	-2	0	33
Totals	335	209	257	208	191	55	129	131	-26	465	111	498	40	253	152	124	61	44	190	281	48	22	-20	106	202	4066

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Table 43. 2030 Difference in Home Based Work Transit Trips: Managed Lanes Two-Direction Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table
Managed Lanes Two-Direction Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	14	10	8	-1	2	7	4	-1	-24	6	3	1	0	6	6	2	-4	1	3	24	-2	0	-1	10	-5	69
2 Kaka'ako	17	15	17	27	6	0	3	0	-13	7	-1	-1	0	3	4	-2	2	0	3	21	0	0	0	14	6	128
3 Makiki	71	52	78	21	8	14	13	11	-21	9	0	6	-1	6	-1	-1	4	9	2	39	-3	0	2	13	17	348
4 Waikīkī	9	6	-4	-7	5	1	2	10	-14	4	2	3	0	0	0	1	1	2	7	14	2	-1	-2	2	6	49
5 Kaimukī Wa	61	38	68	27	15	12	14	16	-12	6	-1	9	0	7	4	1	-6	1	2	16	1	0	1	21	24	325
6 Kalihi Nuu	53	29	8	8	1	8	19	22	-22	23	3	-2	1	3	9	0	3	1	10	35	1	-3	-1	9	7	225
7 Iwilei	21	8	8	10	-4	-5	9	15	-13	10	-3	2	0	3	3	2	-1	0	1	14	0	1	-1	8	2	90
8 Airport PH	17	1	2	2	1	-1	9	24	36	5	-1	4	0	8	6	0	1	0	0	2	0	0	0	-2	-1	113
9 SaltLake H	-16	2	-6	-5	4	-3	0	76	72	13	-1	1	4	3	3	-2	2	2	5	14	2	-1	-2	5	8	180
10 PC 'Aiea	79	31	16	31	2	18	55	80	23	109	2	18	1	35	4	8	0	7	23	51	2	5	-1	7	15	621
11 'Ewa	122	45	48	282	27	17	43	67	54	55	92	339	23	48	16	4	11	8	7	56	16	-2	20	7	57	1462
12 Kapolei	96	34	25	174	21	6	29	33	25	34	63	420	21	49	5	6	13	4	6	47	6	-2	35	8	31	1189
13 Makakilo	-3	9	11	92	6	4	-1	10	5	9	18	73	8	9	6	9	3	-6	6	18	1	2	4	4	11	308
14 Waipahu	74	16	52	164	0	8	19	42	31	39	16	23	5	44	18	5	7	5	11	24	3	-2	4	6	18	632
15 Waiawa	159	31	83	366	5	17	48	59	31	89	14	19	4	59	65	52	57	8	10	24	3	7	1	6	19	1236
16 Mililani	-5	22	9	9	11	-7	13	41	25	31	11	21	-2	33	36	38	31	-2	10	25	10	7	1	-2	7	373
17 Wahiawā Sc	2	-3	3	3	-3	-1	1	30	3	4	2	2	2	11	10	5	11	4	3	2	4	3	-1	-1	1	97
18 E Honolulu	18	4	46	-14	21	-11	-7	4	-2	-2	2	6	-1	2	7	3	3	16	0	11	0	1	2	18	0	127
19 Kāne'ohe	-63	-10	-6	4	0	6	1	28	0	34	5	-4	-1	4	7	8	7	-5	25	124	-2	0	-1	2	-7	156
20 Kailua	22	-12	8	12	-10	9	-7	20	-11	3	-6	8	1	2	15	2	4	1	4	118	-1	3	2	4	6	197
21 Ko'olauloa	19	10	11	12	-6	0	7	10	3	1	-1	2	0	7	-2	4	1	1	3	13	19	3	1	7	6	131
22 North Shor	5	9	1	4	6	2	3	22	0	3	4	4	-1	5	6	5	13	-3	0	19	1	17	-1	5	3	132
23 Wai'anae	-25	2	-13	-11	12	4	-17	25	0	6	0	31	-6	11	13	-6	3	0	-2	33	0	1	15	2	-20	58
24 Mānoa	59	41	27	24	25	7	34	12	-16	17	4	-7	-2	3	7	0	-4	4	1	22	2	1	1	21	9	292
25 UHManoa	13	6	9	0	3	5	1	2	0	2	-1	1	0	0	1	1	0	1	0	1	0	0	0	-2	2	45
Totals	819	396	509	1234	158	117	295	658	160	517	226	979	56	361	248	145	162	59	140	767	65	40	78	172	222	8583

Table 44. 2030 Difference in Home Based Other Transit Trips: Managed Lanes Two-Direction Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table
Managed Lanes Two-Direction Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-8	13	3	1	3	-2	10	-4	-1	-6	0	2	0	1	3	1	-1	6	-6	6	1	-1	-1	35	-6	49
2 Kaka'ako	2	19	18	1	2	-5	6	0	-2	-3	0	1	0	-1	-2	-1	0	6	9	-1	3	1	-1	40	-3	89
3 Makiki	5	18	95	6	38	-1	11	-3	-10	6	0	-2	1	4	2	-1	2	5	7	4	0	-1	-1	0	11	196
4 Waikīkī	6	-8	-5	2	3	1	-3	-6	-4	8	0	0	0	1	0	1	0	-1	3	2	2	-1	0	13	-1	13
5 Kaimukī Wa	18	2	17	1	26	-4	4	9	-14	1	0	-1	0	1	3	0	3	13	4	0	1	2	-2	43	28	155
6 Kalihi Nuu	26	7	9	-8	10	14	21	10	-16	5	0	-3	0	-4	3	1	1	-1	19	3	5	1	1	27	-3	128
7 Iwilei	-3	0	3	4	4	2	10	-3	6	1	0	0	0	3	3	-1	-2	-2	5	2	4	0	0	2	3	41
8 Airport PH	4	1	4	0	1	-2	5	10	16	11	0	0	0	-2	2	2	0	1	0	0	1	-1	1	2	9	65
9 SaltLake H	-12	-1	-10	3	5	11	-6	49	78	-1	0	0	1	1	-4	2	-3	-3	14	-1	3	-1	-2	-1	-4	118
10 PC 'Aiea	28	4	5	-1	26	-4	23	23	-4	223	1	8	-3	34	9	10	6	-4	20	15	12	3	2	0	100	536
11 'Ewa	23	10	7	1	37	5	21	-6	-12	75	61	144	-1	61	-3	-5	5	7	20	37	24	2	4	28	136	681
12 Kapolei	18	4	19	7	17	9	1	24	11	36	15	316	29	47	-1	4	14	-8	10	38	16	1	47	18	58	750
13 Makakilo	5	0	6	0	6	0	-5	13	-15	15	3	14	13	5	6	4	1	5	11	18	19	7	1	15	18	165
14 Waipahu	12	-1	5	-4	14	8	16	-2	6	27	-6	9	5	70	3	25	4	8	3	19	30	9	6	2	88	356
15 Waiawa	31	5	13	8	22	10	20	8	33	96	4	17	2	59	84	108	34	-1	6	13	17	3	-6	0	47	633
16 Mililani	6	4	-10	-4	12	-10	4	1	14	33	7	7	-5	20	40	33	20	-2	8	17	3	2	2	-5	23	220
17 Wahiawā Sc	1	4	-1	-3	5	-12	3	2	4	1	2	5	-2	15	3	5	3	5	5	3	8	6	-3	12	-19	52
18 E Honolulu	-10	3	-2	4	34	-4	1	-1	-2	-2	-2	0	3	3	5	-2	-3	50	5	1	-1	-1	-3	6	2	84
19 Kāne'ohe	-17	2	-15	-7	-7	1	-19	-12	-3	15	2	5	1	12	0	-7	-1	1	84	36	-12	-5	-2	0	-24	28
20 Kailua	-7	7	-6	2	-8	7	9	16	-26	6	0	3	0	4	3	0	3	-4	0	151	1	1	0	10	9	181
21 Ko'olauloa	1	2	-2	3	-1	6	-2	0	-5	-1	-3	1	1	4	2	-3	2	-3	-1	8	16	-5	5	-2	7	30
22 North Shor	7	-3	1	1	5	0	5	-8	3	4	3	6	0	6	2	-7	8	-1	0	6	3	7	-3	2	-3	44
23 Wai'anae	3	-6	3	3	0	5	-5	0	-8	0	6	-11	-5	10	3	4	7	-9	9	14	-4	0	13	2	-25	9
24 Mānoa	35	10	19	4	35	14	-1	-1	14	-7	0	-5	0	1	-1	1	2	1	18	1	-1	2	0	40	70	251
25 UHManoa	6	4	2	-2	7	2	1	-1	-2	0	0	1	1	-3	0	0	0	1	2	1	0	0	0	0	5	25
Totals	180	100	178	22	296	51	130	118	61	543	93	517	41	352	165	174	105	70	255	393	151	31	58	289	526	4899

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Table 45. 2030 Difference in Non-Home Based Transit Trips: Managed Lanes Two-Direction Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table
Managed Lanes Two-Direction Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	28	2	5	-6	8	9	1	6	-22	4	-1	1	1	0	1	-1	-1	7	4	-2	0	0	-3	4	-5	40
2 Kaka'ako	3	39	15	6	-7	-3	6	0	-4	3	5	-4	2	-6	-1	1	-2	1	4	5	-1	2	-4	11	-2	69
3 Makiki	15	-6	75	6	4	-3	4	-1	4	3	0	-7	0	10	-7	0	2	2	-1	1	-2	-3	3	5	1	105
4 Waikīkī	5	0	-2	-12	8	-2	7	3	-5	1	1	0	1	-2	-1	2	-1	-2	-2	-2	1	-1	0	-7	3	-7
5 Kaimukī Wa	5	9	13	11	23	-6	5	1	-1	-1	3	-1	-2	-2	-1	-1	2	5	-8	9	7	0	-2	7	7	82
6 Kalihi Nuu	15	4	2	0	4	-8	-1	2	-8	7	-1	3	1	-6	4	4	-2	-5	-1	0	-2	1	3	7	1	24
7 Iwilei	7	4	8	6	-1	10	4	-7	5	-3	2	-2	0	8	-7	1	0	-1	-3	5	1	3	-3	1	-1	37
8 Airport PH	2	7	-2	1	3	4	5	-139	33	5	1	2	0	5	2	-3	-4	1	3	3	-3	1	-3	-2	-1	-79
9 SaltLake H	-5	-2	5	1	-4	3	-3	7	21	3	0	0	-2	-9	2	9	-2	-5	7	5	-2	2	-1	-7	2	25
10 PC 'Aiea	8	6	10	1	-6	0	8	25	-17	98	3	-3	2	13	9	5	-5	-4	6	2	4	5	-4	5	4	175
11 'Ewa	1	5	4	1	-4	-4	10	5	-1	9	6	19	6	-1	5	4	-1	2	-5	6	-2	0	4	4	4	77
12 Kapolei	17	4	0	0	4	0	7	9	8	5	25	181	2	17	9	-7	-2	3	-2	-1	7	-1	15	3	5	308
13 Makakilo	3	-4	2	2	-1	1	-1	0	-1	-1	3	4	0	2	1	1	1	0	0	1	0	1	-1	0	0	13
14 Waipahu	15	3	6	4	2	-10	4	6	-12	22	12	-7	5	23	6	5	-6	1	1	1	-2	6	-4	3	2	86
15 Waiawa	18	7	4	7	-4	-1	7	7	3	31	2	4	-2	29	44	36	20	3	2	5	2	2	-1	3	3	231
16 Mililani	6	-6	7	3	3	4	2	0	-7	6	3	-1	-2	11	20	7	6	-2	0	4	4	4	-2	0	1	71
17 Wahiawā Sc	4	-7	4	1	0	4	2	7	-2	-2	-1	1	-1	0	9	-1	7	3	2	3	-1	-1	3	-4	-2	28
18 E Honolulu	11	-4	2	3	12	-13	4	1	-4	1	-6	7	3	2	3	2	-6	7	2	5	1	2	-8	1	-6	22
19 Kāne'ohe	2	5	0	2	-2	4	0	2	-1	12	2	-5	2	-1	1	-2	-1	-1	98	8	-8	1	4	-6	0	116
20 Kailua	-6	0	3	-1	-5	0	5	-7	1	0	5	3	1	-2	3	1	-3	2	-15	16	4	-1	-6	3	-1	0
21 Ko'olauloa	0	1	0	3	-3	-1	3	2	-4	1	0	1	-1	-2	1	1	-1	0	2	0	0	1	0	4	1	9
22 North Shor	4	-1	4	-5	3	0	1	2	-5	4	-1	2	0	5	1	-4	-2	-3	-3	4	1	-3	0	-2	3	5
23 Wai'anae	-1	-3	-4	4	-2	1	1	2	-2	0	6	1	-1	-2	-1	2	-1	-1	0	0	0	0	5	1	-1	4
24 Mānoa	22	1	9	-3	13	6	-4	-3	3	1	1	-3	2	-1	-3	0	2	-2	0	3	1	-1	1	6	0	51
25 UHManoa	8	-3	9	3	-5	-1	0	5	-2	2	2	-1	0	2	-2	2	-3	-6	0	2	-1	1	0	10	-1	21
Totals	187	61	179	38	43	-6	77	-65	-20	211	72	195	17	93	98	64	-3	5	91	83	9	21	-4	50	17	1513

Table 46. 2030 Difference in Visitor Transit Trips: Managed Lanes Two-Direction Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Visitor Transit Person P-A Trip Table
Managed Lane Alternative Two-direction Option vs. No-Build A

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	0	2	-3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2 Kaka'ako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Makiki	3	0	0	-1	-3	-1	3	2	0	-3	0	0	0	0	0	0	0	3	0	0	1	0	0	2	0	6
4 Waikīkī	-1	4	-55	-54	-10	-1	11	6	0	12	0	0	0	0	0	0	0	13	0	0	3	1	0	16	-1	-56
5 Kaimukī Wa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Kalihi Nuu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Iwilei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Airport PH	0	-2	0	3	1	1	0	-2	0	4	0	0	0	0	0	0	0	-1	0	0	0	0	0	-1	1	4
9 SaltLake H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PC 'Aiea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 'Ewa	-2	-2	-5	-15	-1	0	0	2	0	-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-26
12 Kapolei	0	0	0	-1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13 Makakilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Waipahu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Waiawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Mililani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Wahiawā Sc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 E Honolulu	1	0	2	-4	3	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	1
19 Kāne'ohe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Kailua	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2
21 Ko'olauloa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 North Shor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Wai'anae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Mānoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 UHManoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	1	0	-58	-75	-8	-1	14	11	0	10	0	0	0	0	0	0	0	14	0	0	4	1	0	17	0	-70

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Table 47. 2030 Daily Total Transit Trips Managed Lane Alternative Reversible Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lane Alternative Reversible Option E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1959	1281	1176	574	472	876	1207	394	408	152	9	40	1	52	27	9	19	71	72	146	9	8	9	299	301	9571
2 Kaka'ako	1922	1537	1871	1142	596	649	954	280	265	112	9	30	4	37	17	13	10	99	63	85	9	6	8	437	366	10521
3 Makiki	4221	2073	3035	2132	2099	628	1114	384	348	170	21	34	2	57	21	27	46	274	59	212	48	7	24	819	1164	19019
4 Waikīkī	5789	1612	3362	3200	2058	486	915	853	278	236	9	31	2	67	14	13	10	371	101	159	30	132	14	515	800	21057
5 Kaimukī Wa	1948	758	1765	1674	2677	319	539	178	172	82	8	40	4	39	19	15	11	483	45	68	16	7	9	549	827	12252
6 Kalihi Nuu	2883	1003	825	557	401	1716	2683	658	786	298	17	44	3	83	38	27	18	39	185	171	26	4	11	292	326	13094
7 Iwilei	1526	683	545	267	259	802	1714	603	580	257	8	43	0	61	26	16	17	22	62	56	12	11	6	138	218	7932
8 Airport PH	443	90	141	216	46	119	412	585	551	183	18	24	4	86	43	15	8	12	16	92	9	4	7	17	64	3205
9 SaltLake H	1131	326	359	217	192	382	991	1565	2611	696	34	77	5	185	68	45	38	30	90	116	18	8	21	79	294	9578
10 PC 'Aiea	1028	302	307	231	185	267	801	1338	1494	3917	108	304	22	902	369	245	149	37	128	135	56	24	44	99	452	12944
11 'Ewa	1137	447	540	1347	398	339	537	606	540	939	3210	3626	178	1363	161	184	146	114	133	277	164	35	303	263	1129	18116
12 Kapolei	867	334	407	937	320	278	429	449	379	651	1059	5601	346	742	119	136	116	78	113	221	139	29	753	185	936	15624
13 Makakilo	365	153	182	396	156	155	174	199	189	293	188	1274	166	201	46	51	41	49	56	119	80	15	313	104	361	5326
14 Waipahu	739	210	387	975	179	169	386	412	429	1233	555	679	61	2391	484	439	208	52	77	128	81	32	78	131	461	10976
15 Waiawa	677	185	373	873	145	141	346	358	352	1299	114	286	17	1038	1106	975	505	39	62	100	53	42	35	67	409	9597
16 Mililani	793	229	235	272	159	142	344	389	291	584	94	260	8	574	711	2776	1724	36	61	164	62	88	31	65	464	10556
17 Wahiawā Sc	467	132	175	153	95	66	172	165	131	183	32	107	5	199	190	916	1795	40	33	61	44	92	18	50	303	5624
18 E Honolulu	1232	371	804	690	1598	186	331	155	139	87	6	40	8	31	30	13	20	1710	55	179	22	8	14	244	586	8559
19 Kāne'ohe	1002	288	227	227	129	321	446	271	289	210	21	65	1	73	25	19	18	23	2614	818	158	19	13	55	280	7612
20 Kailua	1673	402	324	305	211	310	413	273	222	163	24	82	6	96	44	33	27	80	673	3548	52	13	18	86	426	9504
21 Ko'olauloa	227	91	88	115	58	49	78	89	66	42	7	23	3	50	22	19	24	42	81	76	1217	57	11	33	108	2676
22 North Shor	293	99	132	144	70	64	140	112	93	122	19	38	5	68	55	144	347	14	35	58	233	1071	8	42	211	3617
23 Wai'anae	772	307	347	448	185	148	341	411	283	199	101	881	64	208	60	62	63	50	65	158	20	13	2577	94	534	8391
24 Mānoa	2303	1069	1511	904	854	540	712	205	217	98	6	29	0	38	15	12	13	103	55	140	16	1	8	703	730	10282
25 UHManoa	430	115	329	203	225	66	86	29	29	21	4	6	2	5	4	2	0	22	11	23	2	1	1	125	54	1795
Totals	35827	14097	19447	18199	13767	9218	16265	10961	11142	12227	5681	13664	917	8646	3714	6206	5373	3890	4945	7310	2576	1727	4334	5491	11804	247428

Table 48. 2030 Peak Period Transit Trips Managed Lane Alternative Reversible Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lane Alternative Reversible Option E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1079	740	708	371	296	593	711	266	271	110	6	23	1	22	19	7	14	46	45	97	5	2	5	189	209	5835
2 Kaka'ako	1218	798	1076	759	409	486	632	197	187	78	4	17	2	24	13	10	3	69	48	67	5	2	3	333	255	6695
3 Makiki	2720	1219	1612	1270	1299	439	729	251	222	112	13	24	2	41	10	17	26	185	40	129	27	4	10	544	731	11676
4 Waikīkī	3095	924	1757	1638	1103	283	517	427	151	121	3	13	2	39	9	9	8	211	51	88	16	59	6	309	473	11312
5 Kaimukī Wa	1299	483	1169	1105	1531	216	340	115	117	56	5	22	1	26	12	9	6	329	28	48	10	3	6	369	504	7809
6 Kalihi Nuu	1912	595	508	347	238	1100	1611	424	503	188	14	23	0	52	22	18	17	26	126	111	14	1	9	173	218	8250
7 Iwilei	935	417	325	173	160	535	872	392	380	152	6	27	0	32	18	9	11	16	40	35	5	5	3	78	149	4775
8 Airport PH	256	52	80	105	25	67	227	337	316	100	9	16	2	55	28	6	5	7	9	38	6	1	4	11	43	1805
9 SaltLake H	725	197	211	123	113	250	602	962	1582	426	18	45	3	100	46	29	22	14	55	73	9	3	15	46	202	5871
10 PC 'Aiea	702	196	202	155	127	190	547	908	1007	2351	71	194	13	572	230	164	103	27	89	101	46	13	31	63	323	8425
11 'Ewa	832	310	389	1007	283	262	369	400	359	641	2125	2299	127	836	97	129	113	86	93	208	128	27	232	201	869	12422
12 Kapolei	608	237	286	671	225	223	293	293	267	483	703	3264	209	498	66	96	84	55	77	155	114	20	638	141	701	10407
13 Makakilo	263	116	128	297	119	124	123	140	145	221	127	806	101	139	26	41	30	41	43	95	69	10	273	90	283	3850
14 Waipahu	550	140	291	747	119	127	249	271	278	734	356	439	34	1424	303	323	160	43	53	93	67	27	63	99	371	7361
15 Waiawa	501	124	259	664	99	98	225	237	231	824	76	193	10	677	616	740	377	27	42	72	43	31	23	47	299	6535
16 Mililani	556	158	178	203	106	97	235	267	177	373	65	167	6	368	429	1841	1197	23	36	98	43	63	22	46	347	7101
17 Wahiawā Sc	307	78	115	105	56	43	113	105	79	126	19	55	5	125	114	593	1059	17	23	37	32	69	10	35	214	3534
18 E Honolulu	871	261	537	473	981	122	221	110	97	48	2	25	1	18	20	9	12	1093	37	135	14	3	10	169	394	5663
19 Kāne'ohe	729	195	159	152	96	219	301	200	205	127	16	40	0	55	19	15	9	14	1600	555	113	8	6	34	181	5048
20 Kailua	1135	268	223	213	125	214	279	197	159	118	12	46	4	66	30	18	18	50	444	2281	39	7	12	49	286	6293
21 Ko'olauloa	156	63	55	73	34	33	48	52	38	22	4	15	1	23	13	9	16	20	45	41	854	41	5	19	79	1759
22 North Shor	222	68	88	96	45	45	96	77	59	74	12	25	3	44	31	93	228	8	20	34	156	693	6	31	149	2403
23 Wai'anae	551	211	237	319	105	92	230	275	167	94	72	553	37	140	39	36	38	30	32	85	9	5	1814	62	410	5643
24 Mānoa	1514	657	905	614	509	334	455	144	138	63	4	21	0	25	8	10	10	69	35	91	8	0	5	415	460	6494
25 UHManoa	258	70	184	113	126	40	57	18	16	14	1	3	0	1	2	2	0	15	6	11	1	1	0	67	29	1035
Totals	22994	8577	11682	11793	8329	6232	10082	7065	7151	7656	3743	8355	564	5402	2220	4233	3566	2521	3117	4778	1833	1098	3211	3620	8179	158001

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Table 49. 2030 Off-Peak Period Transit Trips Managed Lane Alternative Reversible Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lane Alternative Reversible Option E-MODEL
OffPeak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	867	551	470	205	175	277	499	140	135	43	3	16	0	16	7	3	3	26	27	50	3	6	4	94	116	3736
2 Kaka'ako	689	704	808	399	189	163	322	85	76	35	6	13	2	13	3	3	7	30	14	18	4	4	5	109	125	3826
3 Makiki	1483	853	1345	872	816	192	386	133	127	57	8	10	0	16	10	9	20	89	19	85	21	3	14	285	490	7343
4 Waikīkī	2683	687	1625	1554	944	203	398	422	128	116	6	17	0	29	5	3	2	162	51	71	14	73	8	206	337	9744
5 Kaimukī Wa	632	277	611	593	1105	103	201	62	55	25	3	17	3	15	6	6	5	158	17	20	6	4	3	181	336	4444
6 Kalihi Nuu	1008	406	320	209	166	564	1084	232	287	113	4	19	3	23	14	9	1	13	57	60	10	3	2	111	127	4845
7 Iwilei	597	266	219	94	99	277	815	232	196	104	2	14	0	15	7	7	6	6	23	20	6	6	3	60	83	3157
8 Airport PH	189	38	61	109	20	52	185	252	235	81	9	8	2	27	15	9	3	3	7	54	3	3	3	6	26	1400
9 SaltLake H	406	129	146	94	78	132	390	616	1036	253	16	32	2	69	21	16	15	16	34	43	9	5	6	33	110	3707
10 PC 'Aiea	328	106	105	76	56	77	253	433	516	1544	37	110	9	302	139	79	45	10	38	33	10	11	13	36	153	4519
11 'Ewa	304	136	153	347	115	78	167	204	179	302	1055	1310	51	537	60	57	35	27	34	69	33	8	51	62	321	5695
12 Kapolei	260	96	121	266	94	55	136	157	113	162	353	2336	123	247	54	38	32	23	29	65	19	8	107	44	280	5218
13 Makakilo	100	39	54	100	37	31	51	58	44	72	60	489	49	64	19	10	11	8	9	24	5	3	24	14	101	1476
14 Waipahu	187	71	97	242	61	43	137	142	153	510	193	213	26	959	170	118	46	9	22	35	13	6	15	32	116	3616
15 Waiawa	176	62	114	214	44	43	121	123	120	487	38	80	7	377	471	226	126	12	19	28	10	11	12	20	120	3061
16 Mililani	237	70	58	69	51	45	107	123	115	207	29	68	2	214	281	886	573	13	23	66	18	25	8	19	147	3454
17 Wahiawā Sc	160	54	60	48	37	23	59	59	51	57	8	34	0	76	75	333	736	23	10	25	8	22	7	15	112	2092
18 E Honolulu	364	109	268	219	621	63	111	45	43	38	3	15	7	13	10	5	8	597	18	46	7	5	4	75	204	2898
19 Kāne'ohe	284	93	66	75	34	102	145	79	86	81	5	25	1	18	7	4	9	9	979	276	46	11	7	21	101	2564
20 Kailua	545	133	103	92	82	96	135	75	60	44	12	36	2	30	14	15	9	26	229	1272	13	6	6	36	140	3211
21 Ko'olauloa	71	28	33	41	23	16	31	38	26	20	3	9	2	27	9	9	8	22	26	34	373	16	6	14	32	917
22 North Shor	72	30	43	48	25	20	43	34	33	49	7	11	2	23	25	51	125	6	12	22	63	381	2	11	76	1214
23 Wai'anae	223	95	110	129	78	55	109	135	115	107	29	337	26	68	21	26	25	19	22	55	6	7	768	31	152	2748
24 Mānoa	793	415	621	300	329	195	249	62	79	36	2	9	0	14	6	2	3	33	19	49	7	1	3	261	299	3787
25 UHManoa	175	42	145	90	101	26	29	11	13	7	3	3	2	4	2	0	0	6	5	12	1	0	1	56	26	760
Totals	12833	5490	7756	6485	5380	2931	6163	3952	4021	4550	1894	5231	321	3196	1451	1924	1853	1346	1743	2532	708	628	1082	1832	4130	89432

Table 50. 2030 Journey to Work Home-Based Work Transit Trips Managed Lane Alternative Reversible Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lane Alternative Reversible Option E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	457	306	384	272	89	158	316	202	157	74	6	13	1	12	18	5	12	18	27	60	1	2	1	47	41	2679
2 Kaka'ako	903	255	465	619	169	175	408	180	140	66	4	10	2	17	13	6	5	24	29	58	1	2	3	84	75	3713
3 Makiki	2009	763	770	727	459	228	504	209	195	96	12	15	0	22	15	13	10	60	26	79	3	0	0	164	142	6521
4 Waikīkī	1109	537	587	418	277	108	241	100	76	40	2	11	0	12	11	4	6	37	14	35	2	1	0	91	98	3817
5 Kaimukī Wa	1083	387	698	832	342	103	217	101	89	44	3	16	1	18	10	7	4	63	16	36	1	0	2	91	131	4295
6 Kalihi Nuu	1424	386	319	227	69	232	670	303	257	129	13	16	0	30	23	9	10	12	57	83	3	0	2	44	30	4348
7 Iwilei	504	210	184	124	42	117	222	228	165	82	4	12	0	18	16	5	8	6	19	28	2	1	0	21	18	2036
8 Airport PH	73	16	14	11	6	13	52	130	68	39	1	5	0	38	24	3	3	0	2	5	1	0	1	2	4	511
9 SaltLake H	477	122	111	76	25	93	240	472	594	178	6	19	3	53	38	15	14	3	24	36	3	1	2	15	20	2640
10 PC 'Aiea	535	140	132	123	37	75	308	522	408	645	47	128	9	224	142	76	77	10	48	58	9	5	6	17	58	3839
11 'Ewa	777	274	282	1135	103	101	218	269	162	205	613	1462	82	266	60	61	75	15	34	106	20	7	120	41	240	6728
12 Kapolei	520	185	194	694	75	67	170	182	111	137	267	1529	89	164	44	41	51	9	27	74	12	4	152	31	172	5001
13 Makakilo	250	89	89	341	41	33	74	81	38	51	77	466	36	46	18	15	17	6	13	39	5	2	41	11	86	1965
14 Waipahu	498	100	270	873	33	36	130	157	107	226	142	261	19	397	154	81	82	7	27	39	4	7	13	10	76	3749
15 Waiawa	491	102	254	793	37	48	136	171	113	314	53	133	9	253	339	180	178	9	22	44	5	18	5	14	71	3792
16 Mililani	466	144	149	182	46	66	172	227	134	260	56	143	6	154	241	484	549	9	27	51	13	44	11	21	101	3756
17 Wahiawā Sc	194	62	57	80	17	20	68	91	62	86	16	51	5	54	76	200	454	6	11	19	8	35	3	12	41	1728
18 E Honolulu	710	224	407	386	295	83	163	100	65	38	3	16	1	10	15	4	8	202	21	62	5	1	5	55	105	2984
19 Kāne'ohe	644	170	140	132	32	115	213	175	156	102	10	27	0	25	20	10	8	6	314	272	36	4	1	19	45	2676
20 Kailua	883	222	191	181	65	126	204	178	136	94	8	22	0	32	26	13	12	29	171	675	9	4	1	23	50	3355
21 Ko'olauloa	140	50	43	54	18	18	33	35	23	11	0	6	0	3	6	5	11	2	34	19	284	28	0	9	33	865
22 North Shor	203	63	70	90	16	21	65	55	32	31	7	11	2	25	31	58	146	3	9	23	66	182	0	12	48	1269
23 Wai'anae	517	192	191	268	53	56	157	238	100	72	46	419	24	95	33	16	29	8	17	66	0	1	327	27	142	3094
24 Mānoa	1157	461	526	522	203	147	317	130	115	51	3	12	0	12	14	7	9	27	27	49	3	0	2	95	91	3980
25 UHManoa	129	47	77	62	35	17	33	15	13	7	1	1	0	0	3	0	0	5	4	4	0	0	0	11	3	467
Totals	16153	5507	6604	9222	2584	2256	5331	4551	3516	3078	1400	4804	289	1980	1390	1318	1778	576	1020	2020	496	349	698	967	1921	79808

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Table 51. 2030 Home-Based Other Transit Trips Managed Lane Alternative Reversible Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lane Alternative Reversible Option E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	374	425	342	109	248	462	557	109	179	37	0	17	0	27	3	3	4	34	20	30	7	1	1	178	219	3386
2 Kaka'ako	484	625	614	271	347	372	425	68	92	26	0	11	0	14	1	1	2	53	24	20	5	1	2	277	255	3990
3 Makiki	1037	792	1180	551	1282	293	485	73	98	37	4	14	0	28	4	4	1	135	27	21	15	3	3	454	724	7265
4 Waikīkī	544	488	939	378	932	91	178	35	33	18	2	12	0	14	2	6	1	55	17	8	7	2	0	195	350	4307
5 Kaimukī Wa	420	243	722	513	1425	134	221	52	59	23	0	13	0	11	7	3	4	268	8	17	7	3	3	367	520	5043
6 Kalihi Nuu	942	363	345	137	249	1149	1399	287	424	133	1	23	1	46	8	9	5	22	84	49	18	2	3	172	263	6134
7 Iwilei	349	163	137	49	122	419	479	184	245	51	0	16	0	24	2	3	2	11	26	10	6	1	1	49	151	2500
8 Airport PH	61	10	17	9	18	24	97	174	137	48	2	9	0	16	2	3	0	4	4	4	4	0	0	4	53	700
9 SaltLake H	303	74	93	59	120	205	509	732	1326	276	3	28	0	75	8	11	8	12	45	23	10	3	7	44	224	4198
10 PC 'Aiea	294	81	98	67	134	154	373	548	793	1952	22	113	4	441	104	105	41	16	59	62	39	9	22	56	380	5967
11 'Ewa	311	153	206	162	286	228	296	319	356	678	2238	1891	81	939	82	107	63	87	95	160	142	26	169	182	880	10137
12 Kapolei	216	107	148	115	222	187	219	221	245	452	531	2437	164	439	49	76	45	57	69	137	118	19	544	140	748	7705
13 Makakilo	104	57	90	50	113	121	99	111	144	234	97	714	113	144	22	35	22	42	40	75	73	12	269	91	275	3147
14 Waipahu	165	76	94	76	131	122	186	211	282	715	248	282	27	1352	215	289	107	38	42	78	72	18	53	95	374	5348
15 Waiawa	149	63	73	66	98	81	151	164	192	842	46	117	6	633	608	672	276	23	33	45	42	18	25	48	334	4805
16 Mililani	223	54	73	63	103	68	150	134	138	240	21	92	1	336	354	1897	922	22	27	47	42	30	14	37	322	5410
17 Wahiawā Sc	108	44	44	45	64	31	74	60	63	71	8	43	0	119	76	550	909	17	18	30	35	41	10	35	259	2754
18 E Honolulu	289	124	322	222	1109	96	149	46	64	35	1	16	4	17	10	5	10	1183	27	103	15	3	8	167	437	4462
19 Kāne'ohe	249	71	65	47	88	169	201	69	108	77	6	26	0	37	2	5	7	13	1626	441	88	2	4	34	220	3655
20 Kailua	466	101	83	64	125	141	171	68	68	47	6	36	3	48	8	9	10	41	364	2158	33	2	7	48	355	4462
21 Ko'olauloa	53	31	40	44	33	28	37	38	38	23	2	12	2	9	11	9	9	10	29	34	772	8	8	19	69	1368
22 North Shor	67	32	51	48	48	35	63	49	57	35	7	21	1	32	17	79	168	11	23	28	157	699	6	29	153	1916
23 Wai'anae	168	93	128	113	127	77	158	125	134	102	39	395	36	97	22	41	31	30	40	86	19	8	1947	63	374	4453
24 Mānoa	703	474	731	265	528	278	364	68	79	28	1	12	0	22	1	3	1	56	23	20	11	1	3	470	491	4633
25 UHManoa	68	29	69	33	81	23	33	3	7	4	0	1	1	1	0	0	0	10	2	2	0	0	0	41	10	418
Totals	8147	4773	6704	3556	8033	4988	7074	3948	5361	6184	3285	6351	444	4921	1618	3925	2648	2250	2772	3688	1737	912	3109	3295	8440	108163

Table 52. 2030 Non-Home Based Transit Trips Managed Lane Alternative Reversible Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lane Alternative Reversible Option E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1039	506	330	104	91	213	330	46	60	37	3	10	0	13	6	1	3	19	17	24	1	5	7	74	31	2970
2 Kaka'ako	535	657	658	192	78	87	121	28	29	18	5	9	2	6	3	6	3	15	10	7	3	3	3	74	34	2586
3 Makiki	441	487	978	422	238	89	110	25	35	15	5	5	2	7	2	10	4	33	6	11	5	4	9	172	123	3238
4 Waikīkī	141	172	313	698	181	22	24	14	14	5	5	8	2	4	1	3	3	14	2	9	2	3	4	37	44	1725
5 Kaimukī Wa	167	122	267	281	660	38	61	25	24	15	5	11	3	8	2	5	3	103	5	15	8	4	4	81	124	2041
6 Kalihi Nuu	368	118	100	45	32	248	316	56	88	35	3	5	2	7	7	9	3	5	24	21	5	2	6	32	10	1547
7 Iwilei	529	178	108	54	50	233	890	191	170	117	4	15	0	19	8	8	7	5	17	14	4	2	5	16	14	2658
8 Airport PH	109	44	30	20	17	53	236	233	306	86	11	10	4	32	17	9	5	6	10	65	4	3	6	9	6	1331
9 SaltLake H	131	50	51	22	29	75	189	353	588	233	14	22	2	48	22	19	8	7	21	56	5	4	12	15	6	1982
10 PC 'Aiea	105	43	34	28	14	38	96	174	263	1305	39	63	9	237	123	64	26	11	21	15	8	10	16	9	14	2765
11 'Ewa	44	19	23	25	8	10	20	15	14	52	359	273	15	158	19	16	8	3	4	11	2	2	14	9	9	1132
12 Kapolei	78	37	28	34	19	19	31	34	23	59	261	1635	93	139	26	19	20	11	17	10	9	6	57	11	16	2692
13 Makakilo	8	7	3	5	2	1	1	7	7	8	14	94	17	11	6	1	2	1	3	5	2	1	3	2	0	211
14 Waipahu	64	30	23	26	15	11	30	44	40	264	165	136	15	602	115	69	19	7	8	11	5	7	12	5	11	1734
15 Waiawa	37	20	16	14	10	12	19	23	27	143	15	36	2	152	159	123	51	7	7	11	6	6	5	5	4	910
16 Mililani	55	19	13	27	10	4	22	28	19	56	17	25	1	84	116	395	196	5	7	10	7	14	6	7	13	1156
17 Wahiawā Sc	35	6	13	18	8	11	17	12	6	21	8	13	0	24	38	166	291	5	4	9	1	16	5	3	3	733
18 E Honolulu	89	23	49	38	125	5	19	9	10	14	2	8	3	4	5	4	2	282	7	14	2	4	1	15	11	745
19 Kāne'ohe	70	28	22	12	9	31	32	23	25	31	5	12	1	11	3	4	3	4	645	87	7	4	8	2	3	1082
20 Kailua	138	35	30	24	17	29	29	23	18	20	10	24	3	16	10	11	5	10	96	619	10	7	10	11	8	1213
21 Ko'olauloa	22	10	4	11	7	3	8	7	5	8	5	5	1	1	5	5	4	2	9	9	101	8	3	5	6	254
22 North Shor	15	4	11	5	6	8	8	8	4	10	5	6	2	11	7	7	13	0	3	7	8	101	2	1	8	260
23 Wai'anae	49	22	27	37	5	15	21	18	14	16	16	67	4	16	5	5	3	12	8	6	1	4	303	4	18	696
24 Mānoa	153	108	208	66	66	55	31	7	17	11	2	5	0	4	0	2	3	10	5	9	2	0	3	99	67	933
25 UHManoa	62	37	117	46	101	18	20	7	9	8	3	4	1	4	1	2	0	7	5	3	2	1	1	73	24	556
Totals	4484	2782	3456	2254	1798	1328	2681	1410	1815	2587	981	2501	184	1618	706	963	685	584	961	1058	210	221	505	771	607	37150

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Table 53. 2030 Visitor Transit Trips Managed Lane Alternative Reversible Option (Production to Attraction Format)

HHCTP Study
Year 2030 Managed Lane Alternative Reversible Option E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	120	89	44	43	4	37	12	4	0	0	0	0	0	0	0	0	8	32	0	0	0	0	10	536
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	734	31	107	432	120	18	15	77	20	22	0	0	0	0	0	0	31	46	0	101	25	0	12	29	175	1995
4 Waikīkī	3995	415	1523	1706	668	265	472	704	155	173	0	0	0	37	0	0	0	265	68	107	19	126	10	192	308	11208
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	116	40	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	35	738
8 Airport PH	200	20	80	176	5	29	27	48	40	10	4	0	0	0	0	0	0	2	0	18	0	1	0	2	1	663
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	94	38	43	13	0	0	24	94	30	15	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	373
11 'Ewa	5	1	29	25	1	0	3	3	8	4	0	0	0	0	0	0	0	9	0	0	0	0	0	31	0	119
12 Kapolei	53	5	37	94	4	5	9	12	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	226
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	130	20	61	10	6	4	13	2	0	5	0	0	0	2	0	0	141	12	0	3	0	0	0	0	0	409
18 E Honolulu	144	0	26	44	69	2	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	7	33	368
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	20	36	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	474
21 Ko'olauloa	12	0	1	6	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	60	13	0	0	0	189
22 North Shor	8	0	0	1	0	0	4	0	0	46	0	0	0	0	0	0	20	0	0	0	2	89	0	0	2	172
23 Wai'anae	38	0	1	30	0	0	5	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
24 Mānoa	290	26	46	51	57	60	0	0	6	8	0	0	0	0	0	0	0	10	0	62	0	0	0	39	81	736
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7043	1035	2683	3167	1352	646	1179	1052	450	378	15	8	0	127	0	0	262	480	192	544	133	245	22	458	836	22307

Table 54. 2030 Difference in Daily Transit Trips: Managed Lane Alternative Reversible Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Transit Person P-A Trip Table
Managed Lane Alternative Reversible Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	8	35	10	-14	12	8	4	-5	-44	-8	1	3	0	5	10	-2	1	10	-2	29	-4	2	-2	63	-6	114
2 Kaka'ako	-12	55	43	26	0	-15	5	1	-30	8	1	-1	1	-1	-1	0	-1	3	15	24	-2	4	-5	68	-11	175
3 Makiki	66	35	204	-5	45	-14	38	3	-36	10	5	-4	0	8	-4	-2	4	8	12	41	-4	-3	3	11	32	453
4 Waikīkī	-5	-10	-73	-71	-19	3	23	5	-24	25	2	3	1	-4	1	2	1	20	7	11	5	5	0	28	15	-49
5 Kaimukī Wa	37	12	39	4	18	-9	18	22	-29	3	2	3	1	4	5	2	-4	17	-9	31	8	2	-1	69	34	279
6 Kalihi Nuu	76	30	33	4	-1	28	21	15	-43	27	5	-11	2	-9	15	8	1	-4	36	35	7	-2	1	43	-10	307
7 Iwilei	10	5	11	12	8	3	16	-1	-19	15	-3	2	-2	6	2	-1	3	-3	4	20	5	0	-4	-4	4	89
8 Airport PH	10	2	9	-2	3	2	16	-129	41	25	5	1	0	5	10	-2	-1	1	0	10	-2	2	-2	-1	8	11
9 SaltLake H	-45	-6	0	-1	0	1	-22	100	166	9	0	-6	2	-4	-2	13	-5	-10	25	27	3	-3	-1	10	-14	237
10 PC 'Aiea	99	34	15	35	11	11	76	88	-44	422	2	21	1	76	18	27	2	1	38	62	22	9	1	20	80	1127
11 'Ewa	266	96	106	379	106	62	75	39	21	125	161	463	35	96	12	10	-5	22	39	130	54	5	39	59	367	2762
12 Kapolei	211	86	90	275	73	42	47	67	-7	81	103	923	48	108	12	4	21	0	34	104	33	0	94	42	217	2708
13 Makakilo	45	22	24	96	37	16	-7	15	-25	28	21	95	18	8	19	11	4	6	21	49	30	8	5	15	88	649
14 Waipahu	170	33	81	308	28	1	63	14	25	51	14	31	15	138	25	37	4	17	22	45	40	10	5	19	130	1326
15 Waiawa	245	61	109	425	32	44	88	64	59	188	11	51	2	161	206	233	112	12	25	45	26	19	-6	11	99	2322
16 Mililani	62	8	10	50	23	14	22	22	5	51	19	32	-12	55	109	91	56	-1	17	48	16	11	5	-5	32	740
17 Wahiawā Sc	26	-7	7	18	8	-8	6	8	3	2	3	8	-1	27	16	16	20	13	11	14	10	6	-1	14	-47	172
18 E Honolulu	17	-10	38	-20	65	-29	12	0	-28	0	-7	11	6	9	16	1	-5	69	9	14	-1	1	-7	12	10	183
19 Kāne'ohe	-90	4	-26	-6	-27	5	-25	10	-2	55	8	4	-2	19	2	-5	4	0	199	175	-16	-3	3	-4	-32	250
20 Kailua	-6	3	-6	15	-26	9	1	25	-43	4	1	10	-3	8	21	8	-2	-2	2	294	-3	5	-8	16	13	336
21 Ko'olauloa	9	13	-1	11	-3	7	2	3	-3	4	-3	2	1	2	4	0	5	-2	3	19	35	-2	6	9	14	135
22 North Shor	31	7	14	15	20	9	10	0	-6	12	6	9	1	17	6	-1	16	-6	-3	30	4	22	-7	9	-13	202
23 Wai'anae	30	21	6	51	-7	5	-5	-28	-33	6	14	17	-3	14	10	2	-2	-11	11	61	-4	2	35	11	-30	173
24 Mānoa	125	43	34	22	69	26	23	-1	3	5	4	-13	-2	9	-4	0	2	5	14	31	5	-1	4	58	91	552
25 UHManoa	25	3	22	-2	7	10	0	3	-4	6	2	1	1	-2	-1	2	-3	-4	4	3	1	0	0	9	5	88
Totals	1410	575	799	1625	482	231	507	340	-97	1154	377	1655	110	755	507	454	228	161	534	1352	268	99	157	582	1076	15341

Table 55. 2030 Difference in Peak Period Transit Trips: Managed Lane Alternative Reversible Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Peak Transit Person P-A Trip Table
Managed Lane Alternative Reversible Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	9	22	2	0	9	9	-6	-4	-25	-10	0	-1	0	3	9	0	2	6	-9	32	-3	-1	2	35	0	81
2 Kaka'ako	-27	36	24	17	6	-5	3	-1	-17	8	-2	-3	0	-4	1	0	0	-2	12	23	0	0	-1	52	-6	114
3 Makiki	51	13	109	-6	22	-4	22	7	-42	9	3	4	1	11	-7	-2	8	2	4	32	-2	0	0	24	26	285
4 Waikīkī	-2	-10	-42	-32	-20	10	9	6	-19	12	1	-4	2	-1	2	1	3	19	5	12	3	2	-1	15	12	-17
5 Kaimukī Wa	27	1	41	2	1	-3	7	1	-10	3	2	3	1	1	5	2	-5	18	-7	28	4	-1	4	52	14	191
6 Kalihi Nuu	70	18	17	4	0	38	9	4	-20	12	6	-15	0	2	3	6	3	5	25	31	1	-3	6	15	-11	226
7 Iwilei	2	12	-2	4	5	1	16	6	-12	5	-1	5	0	6	1	-3	4	-1	-2	16	0	-1	-2	-4	10	65
8 Airport PH	11	-1	11	1	0	-1	6	-65	33	18	2	1	1	-1	8	-4	1	3	-1	-1	3	0	1	-2	6	30
9 SaltLake H	-42	-2	4	-6	-12	8	-11	91	88	14	-2	-5	2	-12	9	10	-3	-9	12	21	1	-5	4	9	-4	160
10 PC 'Aiea	52	28	17	21	5	12	64	50	-25	254	5	11	-1	47	17	15	10	6	22	53	17	4	-1	24	54	761
11 'Ewa	197	66	96	304	82	48	61	28	15	82	116	334	29	76	12	8	-6	19	28	114	41	8	10	55	289	2112
12 Kapolei	156	65	70	223	53	33	33	41	0	66	65	614	30	88	0	7	19	-5	23	83	28	2	77	32	158	1961
13 Makakilo	33	22	14	75	35	7	-4	11	-23	20	12	76	16	9	9	14	-1	4	16	40	28	7	2	21	66	509
14 Waipahu	138	28	58	255	10	0	43	7	33	15	7	37	6	87	28	11	6	18	18	34	37	10	6	18	106	1016
15 Waiawa	187	36	78	326	20	34	62	56	47	115	1	40	-1	113	118	180	76	8	14	37	23	17	-11	11	85	1672
16 Mililani	44	-2	15	55	13	4	29	13	-13	36	19	25	-7	31	67	64	39	-1	8	32	11	8	3	-3	39	529
17 Wahiawā Sc	21	-15	10	15	1	-7	5	3	1	6	2	2	0	14	15	5	8	4	13	10	11	6	2	15	-33	114
18 E Honolulu	15	0	29	-8	29	-27	2	6	-16	-7	-3	5	-1	5	10	0	1	55	0	12	0	-1	-3	12	10	125
19 Kāne'ohe	-72	-8	-17	-4	-11	4	-18	16	15	23	10	-2	-2	16	1	-4	2	2	121	133	-11	0	3	-9	-35	153
20 Kailua	-10	1	-6	15	-19	5	-14	8	-26	23	-4	3	2	11	17	-2	3	-9	-11	241	2	2	2	7	17	258
21 Ko'olauloa	2	9	2	10	-2	5	2	2	2	0	-1	2	1	1	5	-1	4	-3	3	10	27	1	2	9	16	108
22 North Shor	23	7	5	14	13	11	10	3	-4	11	5	6	0	12	0	2	1	-2	-4	22	-4	19	0	10	-15	145
23 Wai'anae	22	12	10	44	-12	-4	-2	-2	-22	-10	12	4	0	16	12	-6	-1	-3	6	34	-5	1	35	10	-13	138
24 Mānoa	80	45	24	22	25	9	14	6	-4	6	2	-11	-2	9	-6	1	4	0	9	31	2	-2	4	43	73	384
25 UHManoa	22	-1	12	0	1	5	0	0	-2	6	-1	0	-1	0	0	2	-1	-1	1	1	1	1	-1	12	1	57
Totals	1009	382	581	1351	254	192	342	293	-46	717	256	1131	76	540	336	306	177	133	306	1081	215	74	143	463	865	11177

Table 56. 2030 Difference in Off-Peak Transit Trips: Managed Lane Alternative Reversible Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
OffPeak Transit Person P-A Trip Table
Managed Lane Alternative Reversible Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-4	16	9	-13	1	-1	6	6	-23	1	1	4	0	2	1	-1	-3	6	7	-2	-1	3	-4	27	-5	33
2 Kaka'ako	12	16	23	11	-9	-10	4	3	-13	1	3	2	1	3	-4	0	-1	5	2	2	-2	4	-4	15	-3	61
3 Makiki	14	20	105	-1	21	-5	15	-6	8	-2	2	-8	-1	-3	4	0	-3	3	9	11	-2	-3	3	-14	1	168
4 Waikīkī	-4	0	-30	-37	1	-6	14	-4	-6	16	1	5	-1	-3	0	0	-2	3	3	0	2	3	1	13	0	-31
5 Kaimukī Wa	12	11	0	3	10	-6	11	18	-22	3	0	-1	0	5	0	0	1	-1	-2	3	4	3	-5	21	19	87
6 Kalihi Nuu	19	12	16	-2	1	-10	7	3	-20	13	0	5	2	-7	9	2	-1	-9	10	6	4	1	-5	27	-1	82
7 Iwilei	4	-5	10	8	4	3	3	-7	-5	10	-2	-4	-2	0	0	2	-1	-2	7	4	4	1	-2	1	-7	24
8 Airport PH	0	4	-2	-2	1	3	10	-66	9	6	3	0	-1	6	2	2	-2	-3	1	11	-5	2	-3	1	4	-19
9 SaltLake H	-2	-4	-6	5	11	-9	-10	20	73	-7	2	-1	0	12	-12	2	-3	-1	11	3	2	2	-5	1	-8	76
10 PC 'Aiea	49	6	-4	14	3	-2	10	40	-32	177	-2	11	2	23	3	13	-8	-5	15	8	5	5	2	-4	35	364
11 'Ewa	68	29	12	81	23	17	14	8	3	48	47	113	4	21	-4	5	-1	2	5	17	12	-3	15	3	109	648
12 Kapolei	57	24	18	52	21	8	14	27	-6	13	36	303	15	20	14	-5	2	6	8	21	1	0	12	10	76	747
13 Makakilo	10	3	9	23	3	9	-3	4	-2	8	10	17	-1	1	9	-3	5	2	1	10	-1	1	-1	-6	32	140
14 Waipahu	29	6	24	59	19	2	19	8	-4	27	6	-14	8	55	-5	27	-5	-1	3	13	3	2	-2	1	31	311
15 Waiawa	57	26	32	101	10	10	27	13	7	77	9	9	3	49	81	52	35	4	11	8	3	2	5	0	17	648
16 Mililani	17	9	-4	-5	8	10	-8	8	19	11	2	7	-6	23	44	19	20	0	8	16	4	3	2	-2	5	210
17 Wahiawā Sc	6	9	-2	3	5	-1	1	5	2	-6	0	7	-1	17	-2	16	5	8	-2	5	0	0	-3	-1	-12	59
18 E Honolulu	-2	-10	7	-14	42	-3	12	-5	-12	6	-5	5	7	4	6	2	-6	19	10	2	-2	1	-4	-1	0	59
19 Kāne'ohe	-21	11	-11	-2	-15	1	-7	0	-15	29	-2	7	0	2	1	-2	2	-2	67	57	-6	-3	0	6	-3	94
20 Kailua	2	1	1	0	-9	3	17	17	-20	-18	5	6	-5	-3	4	10	-6	5	12	62	-5	3	-10	10	-4	78
21 Ko'olauloa	7	4	-2	1	-1	2	1	1	-6	4	-2	0	0	1	-1	1	1	1	-2	8	7	-3	4	0	0	26
22 North Shor	9	-1	10	1	7	-2	0	-5	-1	2	1	2	1	4	8	-4	11	-4	-2	7	11	9	-7	-1	0	56
23 Wai'anae	10	8	-4	7	5	8	-3	-22	-10	14	3	15	-5	1	-3	8	-2	-7	2	24	0	1	0	0	-15	35
24 Mānoa	42	-4	11	-1	40	23	9	-8	9	1	2	-1	0	1	-1	-1	0	4	6	0	2	1	0	11	21	167
25 UHManoa	6	1	13	-2	6	5	-1	3	-2	-1	3	1	2	-2	0	0	-2	-2	3	1	0	-1	1	-2	1	31
Totals	397	192	235	290	208	49	162	61	-69	433	123	490	22	232	154	145	36	31	193	297	40	34	-10	116	293	4154

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Table 57. 2030 Difference in Home Based Work Transit Trips: Managed Lane Alternative Reversible Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table
Managed Lane Alternative Reversible Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	6	13	4	2	-7	13	-6	-4	-27	1	2	-1	0	4	5	-2	1	5	2	21	-2	2	0	12	0	44
2 Kaka'ako	-6	13	6	23	2	1	-2	-4	-19	6	-2	-2	0	3	3	-2	1	-3	3	24	0	0	1	15	5	66
3 Makiki	45	30	38	-3	15	-6	5	-6	-20	12	3	5	-1	5	0	-3	4	1	5	39	-3	-1	-1	18	9	190
4 Waikīkī	-6	-6	-7	-8	-3	1	7	0	-15	6	0	4	0	-3	4	1	0	2	3	16	1	0	-2	4	10	9
5 Kaimukī Wa	30	5	23	-6	-6	5	6	9	-12	6	1	6	1	4	3	4	-8	1	0	22	1	-1	2	11	20	127
6 Kalihi Nuu	45	24	11	9	-3	16	2	5	-16	15	7	-6	0	4	7	0	2	2	14	33	0	-4	-1	12	-5	173
7 Iwilei	10	7	1	3	2	1	-2	7	-17	12	-2	3	0	2	2	-1	2	-1	-2	15	1	0	-1	0	2	44
8 Airport PH	8	-1	2	-1	1	0	7	13	17	9	0	3	0	3	7	-2	1	0	-2	2	1	0	1	-1	1	69
9 SaltLake H	-18	-3	-2	-3	-6	-1	-5	57	64	11	-2	-5	3	5	0	2	2	-1	5	16	2	0	0	6	2	129
10 PC 'Aiea	60	25	7	29	-2	10	46	43	-9	106	0	16	5	34	-2	12	-1	7	18	45	7	0	0	12	13	481
11 'Ewa	218	84	83	385	48	42	49	46	32	43	91	304	26	46	9	3	6	7	19	81	17	0	26	17	107	1789
12 Kapolei	160	68	55	263	33	15	35	29	10	24	68	416	19	40	9	1	11	1	16	60	5	-1	34	13	63	1447
13 Makakilo	34	26	13	95	22	9	5	9	-12	8	17	75	8	0	10	4	4	-3	8	27	2	2	3	1	32	399
14 Waipahu	144	23	78	308	9	4	30	17	24	18	12	28	4	46	15	7	5	4	15	26	2	-2	2	1	30	850
15 Waiawa	201	40	93	407	13	24	53	46	25	66	8	23	6	62	72	62	59	6	13	31	3	10	-1	5	27	1354
16 Mililani	36	14	17	40	7	7	16	11	8	24	10	24	-4	29	44	42	30	2	9	29	8	6	4	2	11	426
17 Wahiawā Sc	17	-2	7	13	2	-5	2	9	5	5	2	2	2	8	7	4	14	4	4	5	3	2	-1	5	-14	100
18 E Honolulu	12	-10	42	-23	16	-6	3	-3	-17	0	2	4	0	4	9	0	3	11	1	5	2	1	2	9	10	77
19 Kāne'ohe	-76	-4	-14	4	-11	2	-4	17	4	31	6	5	-3	7	2	2	5	-2	19	125	2	2	0	1	-1	119
20 Kailua	15	-7	1	14	-15	2	-13	7	-12	8	-5	0	-1	1	14	4	3	2	13	123	-3	4	-2	2	9	164
21 Ko'olauloa	7	10	4	6	2	3	2	5	4	3	-1	3	0	3	0	2	3	1	2	11	19	3	0	6	6	104
22 North Shor	18	15	7	18	6	5	5	14	-5	1	2	1	1	9	2	8	14	-2	-1	20	1	15	-2	8	-1	159
23 Wai'anae	14	31	-3	41	2	-2	-9	-17	-22	2	1	25	2	13	9	-6	0	-3	3	43	-1	1	17	4	-6	139
24 Mānoa	68	39	26	24	24	1	28	1	-10	7	2	-6	-2	4	3	-1	0	5	7	24	2	-1	2	20	11	278
25 UHManoa	15	4	10	-2	4	3	0	1	0	3	0	0	0	0	1	0	0	0	1	2	0	0	0	-2	1	41
Totals	1057	438	502	1638	155	144	260	312	-20	427	222	927	66	333	235	141	161	46	175	845	70	38	83	181	342	8778

Table 58. 2030 Difference in Home Based Other Transit Trips: Managed Lane Alternative Reversible Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table
Managed Lane Alternative Reversible Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-17	15	0	-2	4	-6	10	-4	0	-7	0	2	0	-1	3	1	1	3	-6	8	-1	-1	-1	41	-6	36
2 Kaka'ako	-3	9	21	0	1	-8	4	0	-5	0	0	2	0	0	-4	0	-1	2	8	1	0	1	-1	37	-5	59
3 Makiki	4	13	79	-1	29	2	13	2	-14	5	0	-3	0	-2	3	-1	-1	1	10	2	2	0	-1	-14	27	155
4 Waikīkī	1	-6	-8	4	-9	0	2	-5	-8	6	0	0	0	0	-1	2	0	4	6	-1	2	-1	0	13	4	5
5 Kaimukī Wa	6	1	7	1	-4	-5	6	9	-19	0	-1	-2	0	0	4	0	3	15	-1	2	1	2	-1	46	11	81
6 Kalihi Nuu	13	6	14	-5	5	21	20	13	-21	7	0	-6	0	-8	4	4	0	0	19	1	7	1	1	23	-6	113
7 Iwilei	0	-2	5	2	2	-3	6	-1	2	1	0	-1	0	1	2	-1	-2	0	6	2	2	0	0	1	3	25
8 Airport PH	7	-1	7	0	0	-3	0	2	9	8	1	0	0	-2	2	3	-1	1	-1	1	1	-1	0	0	7	40
9 SaltLake H	-20	-2	-4	4	10	4	-8	43	81	-3	1	0	0	-4	-1	4	-5	-4	15	-1	2	-1	-2	6	-15	100
10 PC 'Aiea	23	3	4	3	18	-1	19	22	-4	220	0	7	-2	30	9	11	7	-3	15	16	10	4	2	6	65	484
11 'Ewa	44	8	14	3	60	22	18	-11	-12	70	63	141	2	53	-3	0	-8	15	26	45	39	6	7	35	256	893
12 Kapolei	24	7	26	3	35	22	3	21	-16	57	15	315	29	47	4	7	6	-5	14	45	26	2	45	23	149	904
13 Makakilo	8	-1	9	0	15	6	-11	4	-13	20	1	17	11	8	5	7	-1	9	12	21	28	5	3	13	56	232
14 Waipahu	8	2	-6	-4	16	3	27	-9	12	18	-5	4	6	66	4	25	4	12	4	19	38	8	7	14	94	367
15 Waiawa	27	10	9	13	19	15	28	8	33	92	3	18	-1	67	87	133	33	1	9	11	19	6	-3	3	71	711
16 Mililani	11	-5	-9	4	10	7	4	10	4	25	6	8	-5	16	47	40	20	-2	9	14	3	1	3	-8	17	230
17 Wahiawā Sc	3	3	-3	-1	4	-8	-4	1	2	-1	2	5	-2	17	5	6	3	6	6	4	8	5	-3	13	-31	40
18 E Honolulu	-5	2	-7	4	36	-10	5	1	-5	0	-3	0	3	3	5	-1	-1	50	6	2	-3	-3	-1	2	5	85
19 Kāne'ohe	-17	4	-14	-9	-10	-3	-16	-8	-4	13	3	2	0	12	0	-6	0	2	82	40	-11	-5	-1	0	-31	23
20 Kailua	-11	10	-7	1	-10	8	7	19	-26	-1	2	4	0	6	4	2	-1	-4	4	158	-3	0	1	12	5	180
21 Ko'olauloa	0	2	-2	3	-3	6	-1	-2	-4	0	-3	0	1	1	3	-2	2	-3	-1	8	16	-6	6	-1	6	26
22 North Shor	7	-5	1	1	10	2	5	-15	5	7	3	6	0	2	3	-5	7	-1	1	6	2	8	-4	3	-15	34
23 Wai'anae	9	-10	8	-2	-3	4	3	-13	-9	2	6	-8	-1	2	0	11	1	-9	8	18	-3	1	12	6	-29	4
24 Mānoa	35	5	1	1	34	21	0	2	9	-3	1	-6	0	5	-4	1	0	0	9	4	2	1	1	32	79	230
25 UHManoa	5	2	2	-2	7	4	1	-1	-2	1	0	1	1	-3	0	0	0	2	1	0	0	0	0	1	5	25
Totals	162	70	147	21	276	100	141	88	-5	537	95	506	42	316	181	241	66	92	261	426	187	33	70	307	722	5082

Table 59. 2030 Difference in Non-Home Based Transit Trips: Managed Lane Alternative Reversible Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table
Managed Lane Alternative Reversible Option vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	19	7	4	-11	13	1	0	3	-17	-2	-1	2	0	2	2	-1	-1	2	2	0	-1	1	-1	10	0	33
2 Kaka'ako	-3	33	16	3	-3	-8	3	5	-6	2	3	-1	1	-4	0	2	-1	4	4	-1	-2	3	-5	16	-11	50
3 Makiki	14	-8	87	0	4	-9	17	5	-2	-4	2	-6	1	5	-7	2	1	3	-3	0	-4	-2	5	5	-4	102
4 Waikīkī	1	-2	-3	-11	3	3	3	4	-1	1	2	-1	1	-1	-2	-1	1	0	-2	-4	0	-1	2	-5	3	-10
5 Kaimukī Wa	1	6	9	9	28	-9	6	4	2	-3	2	-1	0	0	-2	-2	1	1	-8	7	6	1	-2	12	3	71
6 Kalihi Nuu	18	0	8	0	-3	-9	-1	-3	-6	5	-2	1	2	-5	4	4	-1	-6	3	1	0	1	1	8	1	21
7 Iwilei	0	0	5	7	4	5	12	-7	-4	2	-1	0	-2	3	-2	1	3	-2	0	3	2	0	-3	-5	-1	20
8 Airport PH	-2	4	-1	0	0	6	7	-142	15	4	4	-2	0	4	1	-3	-1	0	3	7	-4	2	-3	-1	0	-102
9 SaltLake H	-7	-1	6	-2	-4	-2	-9	0	21	1	1	-1	-1	-5	-1	7	-2	-5	5	12	-1	-2	1	-2	-1	8
10 PC 'Aiea	16	6	4	3	-5	2	11	23	-31	96	2	-2	-2	12	11	4	-4	-3	5	1	5	5	-1	2	2	162
11 'Ewa	5	6	13	5	-2	-2	8	5	1	11	7	18	7	-3	6	7	-3	0	-6	4	-2	-1	6	7	4	101
12 Kapolei	25	10	7	6	5	6	8	12	-1	1	20	192	0	21	-1	-4	4	4	4	-1	2	-1	15	5	5	344
13 Makakilo	3	-3	2	1	0	1	-1	2	0	0	3	3	-1	0	4	0	1	0	1	1	0	1	-1	1	0	18
14 Waipahu	18	8	9	4	3	-6	6	6	-11	15	7	-1	5	26	6	5	-5	1	3	0	0	4	-4	4	6	109
15 Waiawa	17	11	7	5	0	5	7	10	1	30	0	10	-3	32	47	38	20	5	3	3	4	3	-2	3	1	257
16 Mililani	15	-1	2	6	6	0	2	1	-7	2	3	0	-3	10	18	9	6	-1	-1	5	5	4	-2	1	4	84
17 Wahiawā Sc	6	-8	3	6	2	5	8	-2	-4	-2	-1	1	-1	2	4	6	3	3	1	5	-1	-1	3	-4	-2	32
18 E Honolulu	9	-2	1	3	10	-13	4	2	-6	0	-6	7	3	2	2	2	-7	9	2	7	0	3	-8	1	-5	20
19 Kāne'ohe	3	4	2	-1	-6	6	-5	1	-2	11	-1	-3	1	0	0	-1	-1	0	98	10	-7	0	4	-5	0	108
20 Kailua	-10	0	2	0	-1	-1	7	-1	-5	-3	4	6	-2	1	3	2	-4	0	-15	13	3	1	-7	2	-1	-6
21 Ko'olauloa	2	1	-3	2	-2	-2	1	0	-3	1	1	-1	0	-2	1	0	0	0	2	0	0	1	0	4	2	5
22 North Shor	6	-3	6	-4	4	2	0	1	-6	4	1	2	0	6	1	-4	-5	-3	-3	4	1	-1	-1	-2	3	9
23 Wai'anae	7	0	1	12	-6	3	1	2	-2	2	7	0	-4	-1	1	-3	-3	1	0	0	0	0	6	1	5	30
24 Mānoa	22	-1	7	-3	11	4	-5	-4	4	1	1	-1	0	0	-3	0	2	0	-2	3	1	-1	1	6	1	44
25 UHManoa	5	-3	10	2	-4	3	-1	3	-2	2	2	0	0	1	-2	2	-3	-6	2	1	1	0	0	10	-1	22
Totals	190	64	204	42	57	-9	89	-70	-72	177	60	222	2	106	91	72	1	7	98	81	8	20	4	74	14	1532

Table 60. 2030 Difference in Visitor Transit Trips: Managed Lane Alternative Reversible Option vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Visitor Transit Person P-A Trip Table
Managed Lane Alternative Reversible Option vs. No-Build Alter

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	0	2	-3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2 Kaka'ako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Makiki	3	0	0	-1	-3	-1	3	2	0	-3	0	0	0	0	0	0	0	3	0	0	1	0	0	2	0	6
4 Waikīkī	-1	4	-55	-56	-10	-1	11	6	0	12	0	0	0	0	0	0	0	14	0	0	2	7	0	16	-2	-53
5 Kaimukī Wa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Kalihi Nuu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Iwilei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Airport PH	-3	0	1	-1	2	-1	2	-2	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	4
9 SaltLake H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PC 'Aiea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 'Ewa	-1	-2	-4	-14	0	0	0	-1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-21
12 Kapolei	2	1	2	3	0	-1	1	5	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	13
13 Makakilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Waipahu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Waiawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Mililani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Wahiawā Sc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 E Honolulu	1	0	2	-4	3	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	1
19 Kāne'ohe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Kailua	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2
21 Ko'olauloa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 North Shor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Wai'anae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Mānoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 UHManoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	1	3	-54	-76	-6	-4	17	10	0	13	0	0	0	0	0	0	0	16	0	0	3	8	0	20	-2	-51

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Table 61. 2030 Daily Total Transit Trips Fixed Guideway Combination 1 Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 1 E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1938	1346	1328	651	543	898	1217	376	518	198	13	47	6	85	21	12	19	63	85	153	14	2	9	274	413	10229
2 Kaka'ako	2070	1451	1939	1130	603	713	1053	284	347	142	11	44	4	62	20	10	14	108	59	83	7	6	11	471	442	11084
3 Makiki	4606	2243	3007	2138	2057	705	1197	398	473	215	21	61	2	99	25	25	54	263	70	209	48	5	23	852	1283	20079
4 Waikīkī	6262	1603	3135	2636	2035	528	1005	927	348	342	13	34	2	90	9	13	11	365	97	155	24	128	12	482	890	21146
5 Kaimukī Wa	2242	817	1799	1685	2654	367	607	174	263	126	8	51	2	69	15	15	12	489	50	56	16	5	5	538	812	12877
6 Kalihi Nuu	2911	1083	902	605	462	1729	2570	611	967	376	16	64	6	144	27	16	18	57	186	180	22	7	8	290	475	13732
7 Iwilei	1658	767	633	308	294	755	1657	535	719	292	9	61	3	100	25	19	14	30	64	61	9	14	10	172	320	8529
8 Airport PH	488	96	136	197	59	114	391	525	616	189	14	36	3	120	48	12	8	12	17	88	7	6	6	25	93	3306
9 SaltLake H	1842	548	577	366	308	563	1512	1878	3070	1206	68	197	13	421	110	67	62	48	118	159	29	13	32	96	576	13879
10 PC 'Aiea	1937	581	612	447	370	504	1449	1847	2913	4827	210	605	34	1574	517	343	215	51	173	193	60	23	57	143	890	20575
11 'Ewa	1678	649	848	1895	602	478	907	970	1199	1530	4121	5350	276	2179	246	281	255	156	173	315	185	42	447	317	1839	26938
12 Kapolei	1309	492	707	1570	458	399	726	795	938	1215	1678	8338	513	1408	216	249	208	137	146	282	156	46	1090	247	1479	24802
13 Makakilo	421	170	218	437	159	160	239	250	311	388	221	1383	164	330	44	67	60	48	51	99	51	12	331	106	470	6190
14 Waipahu	1014	276	616	1266	238	255	551	577	748	1656	637	962	76	2859	594	506	276	68	84	135	62	37	92	136	784	14505
15 Waiawa	785	212	502	1018	183	177	426	427	599	1404	166	504	29	1337	994	987	505	48	68	100	48	40	48	75	566	11248
16 Mililani	960	295	328	316	230	181	441	440	515	683	120	468	28	770	646	2877	1792	50	68	176	67	91	38	79	784	12443
17 Wahiawā Sc	523	150	219	164	139	82	197	168	215	213	42	178	7	259	181	982	1933	34	32	69	55	91	24	52	483	6492
18 E Honolulu	1202	410	849	734	1583	191	344	135	193	104	14	47	3	52	24	19	19	1717	38	190	28	12	11	242	577	8738
19 Kāne'ohe	1018	277	279	263	138	313	455	233	342	205	26	83	1	102	27	19	20	17	2603	817	149	20	16	53	412	7888
20 Kailua	1686	405	367	327	225	325	415	243	297	231	19	110	7	123	33	36	29	83	669	3606	58	11	18	94	534	9951
21 Ko'olauloa	219	93	105	124	58	50	81	84	82	48	7	29	1	64	12	25	27	42	83	76	1212	72	4	26	153	2777
22 North Shor	342	124	157	172	89	74	163	125	143	157	19	72	3	85	56	156	360	16	31	60	235	1097	11	34	358	4139
23 Wai'anae	831	338	387	451	235	156	360	456	468	259	107	937	59	309	76	81	91	62	58	126	15	10	2681	100	841	9494
24 Mānoa	2273	1163	1583	925	829	523	736	192	289	125	13	38	2	52	16	15	7	108	46	138	16	2	3	729	745	10568
25 UHManoa	493	147	367	223	224	71	111	28	48	27	5	6	1	6	4	3	2	26	8	28	1	3	2	130	54	2018
Totals	40708	21600	14775	18810	16621	7578	1245	3986	6011	5077	2574	4989	16273	15736	20048	10311	12678	16158	19705	12699	6835	4098	7554	1795	5763	293627

Table 62. 2030 Peak Period Transit Trips Fixed Guideway Combination 1 Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 1 E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1055	770	812	432	339	583	720	252	347	129	6	30	3	47	15	7	11	42	51	103	7	1	3	179	287	6231
2 Kaka'ako	1328	743	1141	764	421	511	691	193	252	101	5	29	1	43	12	9	9	75	39	61	4	3	6	354	303	7098
3 Makiki	2986	1331	1632	1274	1295	469	793	256	320	140	14	43	0	57	13	17	28	179	46	120	20	3	11	563	795	12405
4 Waikīkī	3353	932	1638	1346	1095	306	573	458	202	177	4	16	1	54	7	6	7	202	49	84	13	62	5	305	513	11408
5 Kaimukī Wa	1509	542	1175	1103	1525	231	397	115	178	70	5	30	0	41	8	8	11	341	28	39	14	3	2	367	506	8248
6 Kalihi Nuu	1920	658	558	374	283	1108	1562	393	621	229	8	42	4	80	20	9	13	35	122	122	11	4	4	170	336	8686
7 Iwilei	1035	459	398	206	179	505	854	328	452	173	7	33	1	60	16	11	10	16	40	39	2	8	3	98	227	5160
8 Airport PH	290	54	80	103	33	62	217	289	370	96	7	22	2	80	30	5	5	5	12	44	1	4	2	13	64	1890
9 SaltLake H	1238	355	360	239	191	368	940	1188	1960	735	37	126	7	260	69	42	39	29	81	100	18	8	19	64	395	8868
10 PC 'Aiea	1375	401	410	314	259	346	1005	1269	2061	2868	128	415	22	945	322	231	150	32	128	140	44	14	36	94	648	13657
11 'Ewa	1229	465	612	1410	426	362	620	656	858	1068	2772	3517	186	1358	152	197	187	111	124	240	134	26	367	245	1389	18711
12 Kapolei	933	358	484	1116	342	305	502	538	673	881	1137	4967	311	934	140	175	147	98	106	204	125	29	922	193	1097	16717
13 Makakilo	302	122	161	328	120	132	172	177	228	294	152	878	103	218	32	45	46	36	34	73	38	5	285	87	368	4436
14 Waipahu	748	186	464	968	162	180	367	399	508	1032	418	598	48	1692	360	389	212	50	60	95	49	23	76	100	592	9776
15 Waiawa	575	149	356	780	121	129	278	295	393	920	111	342	20	853	544	741	389	32	54	72	35	26	33	53	410	7711
16 Mililani	672	210	241	223	163	129	314	311	347	449	76	309	20	504	394	1920	1245	33	48	109	43	68	26	54	572	8480
17 Wahiawā Sc	346	99	147	105	85	50	133	116	136	138	29	114	5	172	106	646	1121	19	20	37	29	70	8	35	343	4109
18 E Honolulu	840	273	569	485	991	130	234	92	127	69	8	30	3	39	13	9	11	1080	28	145	21	9	6	173	370	5755
19 Kāne'ohe	753	190	207	165	84	224	301	160	239	141	17	51	0	66	25	12	14	6	1592	557	106	8	10	35	275	5238
20 Kailua	1179	283	249	206	143	212	278	165	217	159	10	65	3	85	19	17	14	53	451	2312	42	8	11	61	346	6588
21 Ko'olauloa	153	62	68	82	28	32	50	48	43	33	2	17	0	32	7	13	19	22	45	42	848	47	1	16	114	1824
22 North Shor	248	88	111	109	60	52	114	75	103	92	12	42	1	54	40	101	251	12	18	32	165	714	8	20	257	2779
23 Wai'anae	595	227	266	306	146	102	241	307	302	144	65	612	35	210	51	50	54	44	24	81	1	4	1867	66	616	6416
24 Mānoa	1497	715	958	623	514	315	466	135	191	81	12	25	2	32	12	8	7	66	31	84	12	1	1	431	446	6665
25 UHManoa	294	96	198	128	126	42	72	22	28	18	1	4	0	2	3	1	0	18	5	13	0	0	1	69	28	1169
Totals	26453	9768	13295	13189	9131	6885	11894	8237	11156	10237	5043	12357	778	7918	2410	4669	4000	2636	3236	4948	1782	1148	3713	3845	11297	190025

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Table 63. 2030 Off-Peak Period Transit Trips Fixed Guideway Combination 1 Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 1 E-MODEL
Off-Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	863	593	533	219	207	290	498	131	178	68	7	17	3	21	6	5	9	21	29	50	5	1	6	87	153	4000
2 Kaka'ako	702	678	829	380	190	200	353	91	98	41	6	15	3	19	8	1	6	33	20	22	3	3	5	126	156	3988
3 Makiki	1598	907	1285	874	804	234	399	138	156	74	8	17	2	41	11	8	26	87	24	89	26	2	12	306	549	7677
4 Waikīkī	2900	676	1506	1280	934	223	426	469	149	165	8	19	1	35	3	7	4	163	45	71	11	66	7	185	386	9739
5 Kaimukī Wa	732	268	642	591	1092	136	207	59	87	56	4	20	2	28	7	7	2	151	23	17	1	2	3	170	322	4629
6 Kalihi Nuu	1031	423	348	229	181	575	1008	221	361	144	8	20	2	31	7	7	5	23	61	57	9	3	4	115	175	5048
7 Iwilei	639	310	238	102	113	259	775	223	259	120	2	26	2	23	9	8	4	14	21	22	4	6	7	74	111	3371
8 Airport PH	199	42	56	94	24	52	174	233	256	88	7	14	1	34	20	7	3	7	5	44	4	2	4	12	34	1416
9 SaltLake H	610	193	217	126	116	196	576	712	1114	439	31	71	6	134	42	24	23	20	34	59	11	5	14	32	207	5012
10 PC 'Aiea	566	180	201	135	110	156	446	587	957	1896	80	186	11	546	190	108	66	18	43	53	17	9	20	51	289	6921
11 'Ewa	450	184	236	486	176	113	288	317	345	461	1307	1813	81	842	93	85	68	44	41	73	25	13	81	73	531	8226
12 Kapolei	373	136	223	453	118	95	223	257	265	335	535	3364	168	474	75	74	62	37	37	77	17	11	179	52	445	8085
13 Makakilo	117	49	57	110	39	28	68	71	87	93	67	526	46	112	14	20	15	12	7	23	2	1	40	19	131	1754
14 Waipahu	266	90	153	319	75	76	184	178	249	657	202	317	28	1141	211	118	63	18	24	40	13	13	17	38	240	4730
15 Waiawa	210	63	146	245	62	48	149	131	213	501	49	142	10	490	435	227	118	16	15	28	11	14	14	22	177	3536
16 Mililani	288	85	88	93	66	52	127	129	169	233	34	128	7	268	250	914	595	17	18	68	14	23	12	25	262	3965
17 Wahiawā Sc	177	51	72	59	52	32	65	52	80	74	6	43	2	79	75	346	810	15	11	32	24	20	13	17	177	2384
18 E Honolulu	368	137	286	246	600	61	109	43	67	35	6	17	0	13	11	9	8	620	10	46	7	2	5	70	209	2985
19 Kāne'ohe	284	86	72	98	48	90	152	70	112	65	9	32	1	37	2	7	6	6	986	272	47	13	6	18	131	2650
20 Kailua	535	122	117	122	75	113	137	62	91	71	9	46	4	41	13	19	15	26	221	1300	16	3	7	32	169	3366
21 Ko'olauloa	68	30	37	42	29	18	30	32	39	14	5	12	1	33	5	13	7	19	29	33	374	25	4	10	44	953
22 North Shor	93	36	45	63	28	22	49	39	41	65	8	29	2	31	16	56	119	2	12	24	69	378	3	14	117	1361
23 Wai'anae	237	107	124	144	86	53	118	150	165	115	42	336	24	100	22	32	38	18	10	36	2	4	812	34	270	3079
24 Mānoa	787	450	649	306	295	196	259	57	100	45	1	12	0	20	4	7	0	42	15	54	4	1	2	268	328	3902
25 UHManoa	203	51	166	93	100	29	38	7	19	9	4	2	1	4	1	2	2	8	3	15	1	3	1	58	29	849
Totals	14296	5947	8326	6909	5620	3347	6858	4459	5657	5864	2445	7224	408	4597	1530	2111	2074	1437	1744	2605	717	623	1278	1908	5642	103626

Table 64. 2030 Journey to Work Home Based Work Transit Trips Fixed Guideway Combination 1 Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 1 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	445	322	448	309	106	152	309	191	214	91	6	17	3	20	13	6	9	16	28	62	1	0	2	48	47	2865
2 Kaka'ako	991	253	494	600	175	187	438	179	196	83	4	18	2	24	13	7	5	29	27	59	0	3	4	88	90	3969
3 Makiki	2211	868	834	744	420	258	539	221	274	128	11	28	0	28	13	11	13	54	30	79	2	1	2	159	174	7102
4 Waikīkī	1231	544	588	345	276	115	260	104	118	59	7	8	1	17	5	7	5	38	13	32	1	2	0	85	111	3972
5 Kaimukī Wa	1288	444	716	851	355	117	261	110	144	58	3	17	0	19	9	7	5	66	15	31	4	1	2	90	131	4744
6 Kalihi Nuu	1431	405	363	260	88	230	635	276	335	160	8	23	3	40	15	9	14	12	51	88	7	2	2	37	59	4553
7 Iwilei	551	246	218	152	46	108	208	194	232	87	4	18	2	26	13	7	8	5	19	28	2	3	0	28	28	2233
8 Airport PH	92	25	21	21	6	10	52	110	97	34	1	8	0	54	25	2	3	1	3	5	0	0	0	3	5	578
9 SaltLake H	892	256	245	178	69	164	439	624	835	384	23	68	4	122	63	28	29	11	45	67	2	2	2	29	48	4629
10 PC 'Aiea	1126	321	316	270	99	181	642	766	993	845	95	285	19	407	196	118	118	16	70	98	7	8	15	34	137	7182
11 'Ewa	1201	434	508	1627	197	170	438	529	567	460	869	2475	126	452	109	125	152	40	60	144	23	16	221	77	470	11490
12 Kapolei	827	309	363	1177	138	130	333	419	460	372	482	2624	145	362	94	107	118	33	47	117	21	16	274	57	345	9370
13 Makakilo	287	103	118	377	41	36	100	111	109	92	93	527	37	82	16	25	29	6	10	29	6	2	51	16	116	2419
14 Waipahu	692	155	447	1136	58	69	216	259	265	371	178	406	23	476	173	110	116	16	20	48	8	8	20	17	141	5428
15 Waiawa	575	127	360	938	48	62	176	231	264	347	85	272	15	332	263	185	185	9	25	44	5	13	11	16	105	4693
16 Mililani	598	193	221	227	70	78	227	295	302	349	86	282	18	191	214	513	581	13	24	66	13	48	11	23	172	4815
17 Wahiawā Sc	237	75	83	88	26	30	83	100	108	111	29	94	5	61	67	234	473	5	10	29	11	34	5	18	68	2084
18 E Honolulu	675	253	428	430	290	73	158	80	108	55	4	16	3	12	9	8	7	194	15	73	5	2	0	54	97	3049
19 Kāne'ohe	654	166	181	152	39	103	209	154	167	112	11	38	1	30	19	11	13	9	317	270	30	4	1	22	69	2782
20 Kailua	878	236	216	196	66	132	206	167	178	128	6	35	1	29	18	12	15	33	164	688	11	3	1	37	66	3522
21 Ko'olauloa	142	46	50	61	14	17	32	31	25	13	1	7	0	10	3	9	12	2	35	19	283	32	1	4	50	899
22 North Shor	246	83	96	108	24	27	82	63	76	56	11	32	1	28	33	59	164	5	8	26	65	186	1	7	90	1577
23 Wai'anae	571	200	231	264	80	65	171	288	226	111	57	458	20	123	39	33	45	15	21	51	3	1	359	28	232	3692
24 Mānoa	1144	513	548	531	193	148	306	130	157	65	10	12	1	11	10	7	5	29	21	47	4	0	1	94	89	4076
25 UHManoa	153	60	90	74	32	18	42	18	21	8	1	1	0	2	3	0	1	5	3	6	0	0	0	13	4	555
Totals	19138	6637	8183	11116	2956	2680	6562	5650	6471	4579	2085	7769	430	2958	1435	1640	2125	662	1081	2206	514	387	986	1084	2944	102278

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Table 65. 2030 Home-Based Other Transit Trips Fixed Guideway Combination 1 Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 1 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	406	430	384	112	294	489	568	104	204	55	0	18	0	49	2	3	4	30	33	26	7	1	1	158	313	3691
2 Kaka'ako	517	575	654	273	352	395	484	69	113	31	1	13	0	30	4	1	4	51	21	16	5	1	2	301	316	4229
3 Makiki	1147	836	1129	565	1270	312	523	75	128	39	5	22	1	63	6	9	2	132	25	19	16	1	1	483	785	7594
4 Waikīkī	598	489	921	305	920	104	187	25	58	21	1	16	0	28	4	3	1	60	11	9	7	1	0	191	376	4336
5 Kaimukī Wa	482	247	742	515	1428	159	248	46	83	42	0	18	0	36	0	3	4	268	10	16	10	0	0	362	514	5233
6 Kalihi Nuu	955	393	372	152	284	1178	1354	261	510	163	2	32	0	92	9	3	2	31	95	53	11	2	5	172	377	6508
7 Iwilei	410	182	152	59	160	390	462	166	268	59	0	22	0	54	2	2	2	13	29	10	3	1	0	58	231	2735
8 Airport PH	67	12	14	13	21	26	99	181	156	54	0	9	0	27	3	1	1	2	6	4	4	1	0	6	77	784
9 SaltLake H	462	112	131	76	168	274	704	776	1502	392	6	63	4	188	6	13	10	14	51	31	21	2	10	45	464	5525
10 PC 'Aiea	477	129	159	85	236	245	610	748	1339	2301	37	182	3	713	137	131	51	23	80	62	48	8	20	77	722	8623
11 'Ewa	401	185	259	179	385	293	446	405	590	991	2802	2490	126	1476	112	132	94	101	107	165	159	22	209	205	1347	13681
12 Kapolei	271	135	190	139	284	230	325	293	403	688	765	3262	223	786	70	106	71	80	83	132	131	21	737	169	1088	10682
13 Makakilo	117	66	92	54	117	120	133	136	195	284	106	762	112	232	24	39	30	38	41	69	45	9	275	88	350	3534
14 Waipahu	225	83	130	86	166	166	249	259	390	901	270	369	32	1613	270	312	130	44	55	75	52	21	49	91	622	6660
15 Waiawa	179	69	90	66	130	101	186	174	278	907	56	182	13	838	588	676	277	31	39	50	40	20	26	58	450	5524
16 Mililani	264	63	85	65	152	86	191	129	179	242	21	153	5	498	326	1957	947	26	39	41	44	36	19	52	571	6191
17 Wahiawā Sc	126	40	55	55	99	39	90	60	83	72	9	66	0	175	74	574	983	13	18	31	38	41	14	29	404	3188
18 E Honolulu	299	135	345	222	1101	104	167	47	75	35	4	22	0	34	11	6	6	1194	17	106	19	7	8	169	435	4568
19 Kāne'ohe	257	66	79	58	92	175	208	61	133	68	6	26	0	65	4	5	7	5	1617	442	83	2	8	23	329	3819
20 Kailua	477	91	95	73	136	149	163	57	90	72	4	43	4	83	7	11	10	42	357	2197	35	3	7	46	449	4701
21 Ko'olauloa	51	34	43	45	36	24	45	35	48	27	2	15	1	15	5	11	10	11	30	34	770	15	1	21	98	1427
22 North Shor	73	35	51	53	60	42	66	56	60	40	5	33	1	52	15	85	163	11	20	27	159	717	7	26	261	2118
23 Wai'anae	177	111	128	125	145	82	165	124	187	112	38	415	33	176	25	38	38	38	36	68	12	6	2012	69	588	4948
24 Mānoa	687	520	768	267	519	264	389	53	110	40	0	19	0	38	4	3	1	57	21	22	9	1	0	484	508	4784
25 UHManoa	82	32	79	36	83	26	41	4	10	5	0	0	1	2	0	0	0	10	1	3	0	0	0	47	7	469
Totals	9207	5070	7147	3678	8638	5473	8103	4344	7192	7641	4140	8252	559	7363	1708	4124	2848	2325	2842	3708	1728	939	3411	3430	11682	125552

Table 66. 2030 Non-Home Based Transit Trips Fixed Guideway Combination 1 Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 1 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	998	550	369	129	100	219	336	44	88	48	7	12	3	16	6	3	6	16	17	33	6	1	6	68	42	3123
2 Kaka'ako	562	623	657	197	74	116	131	32	34	26	6	13	2	8	3	2	5	21	11	8	2	2	5	80	34	2654
3 Makiki	483	509	937	410	244	113	116	19	51	19	5	11	1	8	6	5	8	32	15	10	7	3	8	182	144	3346
4 Waikīkī	144	168	301	561	178	21	31	9	22	14	5	10	1	7	0	3	5	17	5	6	1	2	3	41	39	1594
5 Kaimukī Wa	194	120	263	271	621	47	58	18	36	26	5	16	2	12	6	5	3	106	9	9	2	4	3	76	115	2027
6 Kalihi Nuu	376	149	106	45	39	234	283	62	105	52	6	9	3	12	3	4	2	14	20	21	4	3	1	37	16	1606
7 Iwilei	553	207	145	57	43	224	864	175	219	139	5	21	1	20	10	10	4	12	16	19	4	3	10	34	28	2823
8 Airport PH	130	40	30	21	29	48	218	188	323	98	9	19	3	39	20	9	4	7	8	61	3	5	6	14	10	1342
9 SaltLake H	268	100	97	52	53	116	316	470	630	421	28	58	5	102	41	26	15	15	22	60	6	9	20	17	20	2967
10 PC 'Aiea	241	95	88	78	35	78	173	237	552	1666	78	138	12	454	184	94	41	12	23	33	5	7	22	15	31	4392
11 'Ewa	58	29	32	33	17	13	21	24	34	74	450	385	24	251	25	24	9	5	6	6	3	4	17	4	22	1570
12 Kapolei	124	43	65	66	24	31	56	53	75	136	431	2452	145	260	52	36	19	20	16	33	4	9	79	17	41	4287
13 Makakilo	14	1	8	6	1	4	6	3	7	12	22	94	15	16	4	3	1	4	0	1	0	1	5	2	4	234
14 Waipahu	85	34	39	44	14	20	46	59	93	356	189	187	21	730	151	84	30	8	9	12	2	8	23	7	21	2272
15 Waiawa	31	16	22	14	5	14	24	22	37	150	25	50	1	167	143	126	43	8	4	6	3	7	11	1	11	941
16 Mililani	49	27	22	24	8	13	23	16	34	64	13	33	5	81	106	407	207	11	5	13	10	7	8	4	13	1203
17 Wahiawā Sc	28	15	17	8	6	10	11	6	24	25	4	18	2	22	40	174	334	4	4	6	6	16	5	5	11	801
18 E Honolulu	83	22	49	38	123	12	19	8	10	14	6	9	0	6	4	5	6	285	6	11	4	3	3	12	12	750
19 Kāne'ohe	68	26	19	17	7	29	38	14	42	25	9	19	0	7	4	3	0	3	640	87	9	5	7	8	2	1088
20 Kailua	145	34	36	21	19	30	37	15	29	29	9	32	2	11	8	13	4	8	106	625	12	5	10	7	6	1253
21 Ko'olauloa	14	13	11	10	8	9	4	9	9	8	4	7	0	2	4	5	5	1	9	9	101	10	2	1	5	260
22 North Shor	15	6	10	8	5	5	11	6	7	14	3	7	1	5	8	12	13	0	3	7	9	106	3	1	5	270
23 Wai'anae	46	27	26	28	10	9	19	14	20	27	12	64	6	10	12	10	8	9	1	7	0	3	310	3	21	702
24 Mānoa	151	104	217	77	60	51	41	9	16	12	3	7	1	3	2	5	1	12	4	6	3	1	2	112	68	968
25 UHManoa	87	53	132	51	101	19	28	2	17	12	4	5	0	2	1	3	1	11	4	5	1	3	2	70	26	640
Totals	4947	3011	3698	2266	1824	1485	2910	1514	2514	3467	1338	3676	256	2251	843	1071	774	641	963	1094	207	227	571	818	747	43113

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Table 67. 2030 Visitor Transit Trips Fixed Guideway Combination 1 Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 1 E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	127	101	43	38	4	37	12	4	0	0	0	0	0	0	0	1	7	32	0	0	0	0	11	550
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	765	30	107	419	123	22	19	83	20	29	0	0	0	0	0	0	31	45	0	101	23	0	12	28	180	2037
4 Waikīkī	4289	402	1325	1425	661	288	527	789	150	248	0	0	0	38	0	0	0	250	68	108	15	123	9	165	364	11244
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	118	40	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	33	738
8 Airport PH	199	19	71	142	3	30	22	46	40	3	4	0	0	0	0	0	0	2	0	18	0	0	0	2	1	602
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	93	36	49	14	0	0	24	96	29	15	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	378
11 'Ewa	18	1	49	56	3	2	2	12	8	5	0	0	0	0	0	0	0	10	0	0	0	0	0	31	0	197
12 Kapolei	87	5	89	188	12	8	12	30	0	19	0	0	0	0	0	0	0	4	0	0	0	0	0	4	5	463
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	132	20	64	13	8	3	13	2	0	5	0	0	0	1	0	0	143	12	0	3	0	0	0	0	0	419
18 E Honolulu	145	0	27	44	69	2	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	7	33	371
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	20	37	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	475
21 Ko'olauloa	12	0	1	8	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	58	15	0	0	0	191
22 North Shor	8	0	0	3	0	0	4	0	0	47	0	0	0	0	0	0	20	0	0	0	2	88	0	0	2	174
23 Wai'anae	37	0	2	34	0	0	5	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
24 Mānoa	291	26	50	50	57	60	0	0	6	8	0	0	0	0	0	0	0	10	0	63	0	0	0	39	80	740
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7416	1018	2572	2988	1357	673	1235	1170	444	471	15	8	0	127	0	0	264	470	191	546	125	242	21	431	900	22684

Table 68. 2030 Difference in Daily Transit Trips: Fixed Guideway Combination 1 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Transit Person P-A Trip Table
Fixed Guideway Combination 1 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-13	100	162	63	83	30	14	-23	66	38	5	10	5	38	4	1	1	2	11	36	1	-4	-2	38	106	772
2 Kaka'ako	136	-31	111	14	7	49	104	5	52	38	3	13	1	24	2	-3	3	12	11	22	-4	4	-2	102	65	738
3 Makiki	451	205	176	1	3	63	121	17	89	55	5	23	0	50	0	-4	12	-3	23	38	-4	-5	2	44	151	1513
4 Waikīkī	468	-19	-300	-635	-42	45	113	79	46	131	6	6	1	19	-4	2	2	14	3	7	-1	1	-2	-5	105	40
5 Kaimukī Wa	331	71	73	15	-5	39	86	18	62	47	2	14	-1	34	1	2	-3	23	-4	19	8	0	-5	58	19	904
6 Kalihi Nuu	104	110	110	52	60	41	-92	-32	138	105	4	9	5	52	4	-3	1	14	37	44	3	1	-2	41	139	945
7 Iwilei	142	89	99	53	43	-44	-41	-69	120	50	-2	20	1	45	1	2	0	5	6	25	2	3	0	30	106	686
8 Airport PH	55	8	4	-21	16	-3	-5	-189	106	31	1	13	-1	39	15	-5	-1	1	1	6	-4	4	-3	7	37	112
9 SaltLake H	666	216	218	148	116	182	499	413	625	519	34	114	10	232	40	35	19	8	53	70	14	2	10	27	268	4538
10 PC 'Aiea	1008	313	320	251	196	248	724	597	1375	1332	104	322	13	748	166	125	68	15	83	120	26	8	14	64	518	8758
11 'Ewa	807	298	414	927	310	201	445	403	680	716	1072	2187	133	912	97	107	104	64	79	168	75	12	183	113	1077	11584
12 Kapolei	653	244	390	908	211	163	344	413	552	645	722	3660	215	774	109	117	113	59	67	165	50	17	431	104	760	11886
13 Makakilo	101	39	60	137	40	21	58	66	97	123	54	204	16	137	17	27	23	5	16	29	1	5	23	17	197	1513
14 Waipahu	445	99	310	599	87	87	228	179	344	474	96	314	30	606	135	104	72	33	29	52	21	15	19	24	453	4855
15 Waiawa	353	88	238	570	70	80	168	133	306	293	63	269	14	460	94	245	112	21	31	45	21	17	7	19	256	3973
16 Mililani	229	74	103	94	94	53	119	73	229	150	45	240	8	251	44	192	124	13	24	60	21	14	12	9	352	2627
17 Wahiawā Sc	82	11	51	29	52	8	31	11	87	32	13	79	1	87	7	82	158	7	10	22	21	5	5	16	133	1040
18 E Honolulu	-13	29	83	24	50	-24	25	-20	26	17	1	18	1	30	10	7	-6	76	-8	25	5	5	-10	10	1	362
19 Kāne'ohe	-74	-7	26	30	-18	-3	-16	-28	51	50	13	22	-2	48	4	-5	6	-6	188	174	-25	-2	6	-6	100	526
20 Kailua	7	6	37	37	-12	24	3	-5	32	72	-4	38	-2	35	10	11	0	1	-2	352	3	3	-8	24	121	783
21 Ko'olauloa	1	15	16	20	-3	8	5	-2	13	10	-3	8	-1	16	-6	6	8	-2	5	19	30	13	-1	2	59	236
22 North Shor	80	32	39	43	39	19	33	13	44	47	6	43	-1	34	7	11	29	-4	-7	32	6	48	-4	1	134	724
23 Wai'anae	89	52	46	54	43	13	14	17	152	66	20	73	-8	115	26	21	26	1	4	29	-9	-1	139	17	277	1276
24 Mānoa	95	137	106	43	44	9	47	-14	75	32	11	-4	0	23	-3	3	-4	10	5	29	5	0	-1	84	106	838
25 UHManoa	88	35	60	18	6	15	25	2	15	12	3	1	0	-1	-1	3	-1	0	1	8	0	2	1	14	5	311
Totals	6291	2214	2952	3474	1490	1324	3052	2057	5382	5085	2274	7696	438	4808	779	1083	866	369	666	1596	266	167	812	854	5545	61540

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Table 69. 2030 Difference in Peak Period Transit Trips: Fixed Guideway Combination 1 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Peak Transit Person P-A Trip Table
Fixed Guideway Combination 1 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-15	52	106	61	52	-1	3	-18	51	9	0	6	2	28	5	0	-1	2	-3	38	-1	-2	0	25	78	477
2 Kaka'ako	83	-19	89	22	18	20	62	-5	48	31	-1	9	-1	15	0	-1	6	4	3	17	-1	1	2	73	42	517
3 Makiki	317	125	129	-2	18	26	86	12	56	37	4	23	-1	27	-4	-2	10	-4	10	23	-9	-1	1	43	90	1014
4 Waikīkī	256	-2	-161	-324	-28	33	65	37	32	68	2	-1	1	14	0	-2	2	10	3	8	0	5	-2	11	52	79
5 Kaimukī Wa	237	60	47	0	-5	12	64	1	51	17	2	11	0	16	1	1	0	30	-7	19	8	-1	0	50	16	630
6 Kalihi Nuu	78	81	67	31	45	46	-40	-27	98	53	0	4	4	30	1	-3	-1	14	21	42	-2	0	1	12	107	662
7 Iwilei	102	54	71	37	24	-29	-2	-58	60	26	0	11	1	34	-1	-1	3	-1	-2	20	-3	2	-2	16	88	450
8 Airport PH	45	1	11	-1	8	-6	-4	-113	87	14	0	7	1	24	10	-5	1	1	2	5	-2	3	-1	0	27	115
9 SaltLake H	471	156	153	110	66	126	327	317	466	323	17	76	6	148	32	23	14	6	38	48	10	0	8	27	189	3157
10 PC 'Aiea	725	233	225	180	137	168	522	411	1029	771	62	232	8	420	109	82	57	11	61	92	15	5	4	55	379	5993
11 'Ewa	594	221	319	707	225	148	312	284	514	509	763	1552	88	598	67	76	68	44	59	146	47	7	145	99	809	8401
12 Kapolei	481	186	268	668	170	115	242	286	406	464	499	2317	132	524	74	86	82	38	52	132	39	11	361	84	554	8271
13 Makakilo	72	28	47	106	36	15	45	48	60	93	37	148	18	88	15	18	15	-1	7	18	-3	2	14	18	151	1095
14 Waipahu	336	74	231	476	53	53	161	135	263	313	69	196	20	355	85	77	58	25	25	36	19	6	19	19	327	3431
15 Waiawa	261	61	175	442	42	65	115	114	209	211	36	189	9	289	46	181	88	13	26	37	15	12	-1	17	196	2848
16 Mililani	160	50	78	75	70	36	108	57	157	112	30	167	7	167	32	143	87	9	20	43	11	13	7	5	264	1908
17 Wahiawā Sc	60	6	42	15	30	0	25	14	58	18	12	61	0	61	7	58	70	6	10	10	8	7	0	15	96	689
18 E Honolulu	-16	12	61	4	39	-19	15	-12	14	14	3	10	1	26	3	0	0	42	-9	22	7	5	-7	16	-14	217
19 Kāne'ohe	-48	-13	31	9	-23	9	-18	-24	49	37	11	9	-2	27	7	-7	7	-6	113	135	-18	0	7	-8	59	343
20 Kailua	34	16	20	8	-1	3	-15	-24	32	64	-6	22	1	30	6	-3	-1	-6	-4	272	5	3	1	19	77	553
21 Ko'olauloa	-1	8	15	19	-8	4	4	-2	7	11	-3	4	0	10	-1	3	7	-1	3	11	21	7	-2	6	51	173
22 North Shor	49	27	28	27	28	18	28	1	40	29	5	23	-2	22	9	10	24	2	-6	20	5	40	2	-1	93	521
23 Wai'anae	66	28	39	31	29	6	9	30	113	40	5	63	-2	86	24	8	15	11	-2	30	-13	0	88	14	193	911
24 Mānoa	63	103	77	31	30	-10	25	-3	49	24	10	-7	0	16	-2	-1	1	-3	5	24	6	-1	0	59	59	555
25 UHManoa	58	25	26	15	1	7	15	4	10	10	-1	1	-1	1	1	1	-1	2	0	3	0	0	0	14	0	191
Totals	4468	1573	2194	2747	1056	845	2154	1465	3959	3298	1556	5133	290	3056	526	742	611	248	425	1251	164	124	645	688	3983	43201

Table 70. 2030 Difference in Off-Peak Period Transit Trips: Fixed Guideway Combination 1 vs. No Build Alternative

HHCTP Study
Year 2030 TSM E-MODEL
Off-Peak Transit Person P-A Trip Table
Fixed Guideway Combination 1 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-8	58	72	1	33	12	5	-3	20	26	5	5	3	7	0	1	3	1	9	-2	1	-2	-2	20	32	297
2 Kaka'ako	25	-10	44	-8	-8	27	35	9	9	7	3	4	2	9	1	-2	-2	8	8	6	-3	3	-4	32	28	223
3 Makiki	129	74	45	1	9	37	28	-1	37	15	2	-1	1	22	5	-1	3	1	14	15	3	-4	1	7	60	502
4 Waikīkī	213	-11	-149	-311	-9	14	42	43	15	65	3	7	0	3	-2	4	0	4	-3	0	-1	-4	0	-8	49	-36
5 Kaimukī Wa	112	2	31	1	-3	27	17	15	10	34	1	2	-1	18	1	1	-2	-8	4	0	-1	1	-5	10	5	272
6 Kalihi Nuu	42	29	44	18	16	1	-69	-8	54	44	4	6	1	1	2	0	3	1	14	3	3	1	-3	31	47	285
7 Iwilei	46	39	29	16	18	-15	-37	-16	58	26	-2	8	0	8	2	3	-3	6	5	6	2	1	2	15	21	238
8 Airport PH	10	8	-7	-17	5	3	-1	-85	30	13	1	6	-2	13	7	0	-2	1	-1	1	-4	1	-2	7	12	-3
9 SaltLake H	202	60	65	37	49	55	176	116	151	179	17	38	4	77	9	10	5	3	11	19	4	2	3	0	89	1381
10 PC 'Aiea	287	80	92	73	57	77	203	194	409	529	41	87	4	267	54	42	13	3	20	28	12	3	9	11	171	2766
11 'Ewa	214	77	95	220	84	52	135	121	169	207	299	616	34	326	29	33	32	19	12	21	4	2	45	14	319	3179
12 Kapolei	170	64	120	239	45	48	101	127	146	186	218	1331	60	247	35	31	32	20	16	33	-1	3	84	18	241	3614
13 Makakilo	27	13	12	33	5	6	14	17	41	29	17	54	-4	49	4	7	9	6	-1	9	-4	-1	15	-1	62	418
14 Waipahu	108	25	80	136	33	35	66	44	92	174	15	90	10	237	36	27	12	8	5	18	3	9	0	7	155	1425
15 Waiawa	91	27	64	132	28	15	55	21	100	91	20	71	6	162	45	53	27	8	7	8	4	5	7	2	74	1123
16 Mililani	68	24	26	19	23	17	12	14	73	37	7	67	-1	77	13	47	42	4	3	18	0	1	6	4	120	721
17 Wahiawā Sc	23	6	10	14	20	8	7	-2	31	11	-2	16	1	20	-2	29	79	0	-1	12	16	-2	3	1	53	351
18 E Honolulu	2	18	25	13	21	-5	10	-7	12	3	-2	7	0	4	7	6	-6	42	2	2	-2	-2	-3	-6	5	146
19 Kāne'ohe	-21	4	-5	21	-1	-11	0	-9	11	13	2	14	0	21	-4	1	-1	-5	74	53	-5	-1	-1	3	27	180
20 Kailua	-8	-10	15	30	-16	20	19	4	11	9	2	16	-3	8	3	14	0	5	4	90	-2	0	-9	6	25	233
21 Ko'olauloa	4	6	2	2	5	4	0	-5	7	-2	0	3	-1	7	-5	5	0	-2	1	7	8	6	2	-4	12	62
22 North Shor	30	5	12	16	10	0	6	0	7	18	2	20	1	12	-1	1	5	-8	-2	9	17	6	-6	2	41	203
23 Wai'anae	24	20	10	22	13	6	6	-7	40	22	16	14	-7	33	-2	14	11	-8	-10	5	-4	-2	44	3	103	366
24 Mānoa	36	31	39	5	6	24	19	-13	30	10	1	2	0	7	-3	4	-3	13	2	5	-1	1	-1	18	50	282
25 UHManoa	34	10	34	1	5	8	8	-1	4	1	4	0	1	-2	-1	2	0	0	1	4	0	2	1	0	4	120
Totals	1860	649	805	714	448	465	857	568	1567	1747	674	2483	109	1633	233	332	257	122	194	370	49	29	186	192	1805	18348

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Table 71. 2030 Difference in Home Based Work Transit Trips: Fixed Guideway Combination 1 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table
Fixed Guideway Combination 1 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-6	29	68	39	10	7	-13	-15	30	18	2	3	2	12	0	-1	-2	3	3	23	-2	0	1	13	6	230
2 Kaka'ako	82	11	35	4	8	13	28	-5	37	23	-2	6	0	10	3	-1	1	2	1	25	-1	1	2	19	20	322
3 Makiki	247	135	102	14	-24	24	40	6	59	44	2	18	-1	11	-2	-5	7	-5	9	39	-4	0	1	13	41	771
4 Waikīkī	116	1	-6	-81	-4	8	26	4	27	25	5	1	1	2	-2	4	-1	3	2	13	0	1	-2	-2	23	164
5 Kaimukī Wa	235	62	41	13	7	19	50	18	43	20	1	7	0	5	2	4	-7	4	-1	17	4	0	2	10	20	576
6 Kalihi Nuu	52	43	55	42	16	14	-33	-22	62	46	2	1	3	14	-1	0	6	2	8	38	4	-2	-1	5	24	378
7 Iwilei	57	43	35	31	6	-8	-16	-27	50	17	-2	9	2	10	-1	1	2	-2	-2	15	1	2	-1	7	12	241
8 Airport PH	27	8	9	9	1	-3	7	-7	46	4	0	6	0	19	8	-3	1	1	-1	2	0	0	0	0	2	136
9 SaltLake H	397	131	132	99	38	70	194	209	305	217	15	44	4	74	25	15	17	7	26	47	1	1	0	20	30	2118
10 PC 'Aiea	651	206	191	176	60	116	380	287	576	306	48	173	15	217	52	54	40	13	40	85	5	3	9	29	92	3824
11 'Ewa	642	244	309	877	142	111	269	306	437	298	347	1317	70	232	58	67	83	32	45	119	20	9	127	53	337	6551
12 Kapolei	467	192	224	746	96	78	198	266	359	259	283	1511	75	238	59	67	78	25	36	103	14	11	156	39	236	5816
13 Makakilo	71	40	42	131	22	12	31	39	59	49	33	136	9	36	8	14	16	-3	5	17	3	2	13	6	62	853
14 Waipahu	338	78	255	571	34	37	116	119	182	163	48	173	8	125	34	36	39	13	8	35	6	-1	9	8	95	2529
15 Waiawa	285	65	199	552	24	38	93	106	176	99	40	162	12	141	-4	67	66	6	16	31	3	5	5	7	61	2255
16 Mililani	168	63	89	85	31	19	71	79	176	113	40	163	8	66	17	71	62	6	6	44	8	10	4	4	82	1485
17 Wahiawā Sc	60	11	33	21	11	5	17	18	51	30	15	45	2	15	-2	38	33	3	3	15	6	1	1	11	13	456
18 E Honolulu	-23	19	63	21	11	-16	-2	-23	26	17	3	4	2	6	3	4	2	3	-5	16	2	2	-3	8	2	142
19 Kāne'ohe	-66	-8	27	24	-4	-10	-8	-4	15	41	7	16	-2	12	1	3	10	1	22	123	-4	2	0	4	23	225
20 Kailua	10	7	26	29	-14	8	-11	-4	30	42	-7	13	0	-2	6	3	6	6	6	136	-1	3	-2	16	25	331
21 Ko'olauloa	9	6	11	13	-2	2	1	1	6	5	0	4	0	10	-3	6	4	1	3	11	18	7	1	1	23	138
22 North Shor	61	35	33	36	14	11	22	22	39	26	6	22	0	12	4	9	32	0	-2	23	0	19	-1	3	41	467
23 Wai'anae	68	39	37	37	29	7	5	33	104	41	12	64	-2	41	15	11	16	4	7	28	2	1	49	5	84	737
24 Mānoa	55	91	48	33	14	2	17	1	32	21	9	-6	-1	3	-1	-1	-4	7	1	22	3	-1	1	19	9	374
25 UHManoa	39	17	23	10	1	4	9	4	8	4	0	0	0	2	1	0	1	0	0	4	0	0	0	0	2	129
Totals	4042	1568	2081	3532	527	568	1491	1411	2935	1928	907	3892	207	1311	280	463	508	132	236	1031	88	76	371	298	1365	31248

Table 72. 2030 Difference in Home-Based Other Transit Trips: Fixed Guideway Combination 1 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table
Fixed Guideway Combination 1 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	15	20	42	1	50	21	21	-9	25	11	0	3	0	21	2	1	1	-1	7	4	-1	-1	-1	21	88	341
2 Kaka'ako	30	-41	61	2	6	15	63	1	16	5	1	4	0	16	-1	0	1	0	5	-3	0	1	-1	61	56	298
3 Makiki	114	57	28	13	17	21	51	4	16	7	1	5	1	33	5	4	0	-2	8	0	3	-2	-3	15	88	484
4 Waikīkī	55	-5	-26	-69	-21	13	11	-15	17	9	-1	4	0	14	1	-1	0	9	0	0	2	-2	0	9	30	34
5 Kaimukī Wa	68	5	27	3	-1	20	33	3	5	19	-1	3	0	25	-3	0	3	15	1	1	4	-1	-4	41	5	271
6 Kalihi Nuu	26	36	41	10	40	50	-25	-13	65	37	1	3	-1	38	5	-2	-3	9	30	5	0	1	3	23	108	487
7 Iwilei	61	17	20	12	40	-32	-11	-19	25	9	0	5	0	31	2	-2	-2	2	9	2	-1	0	-1	10	83	260
8 Airport PH	13	1	4	4	3	-1	2	9	28	14	-1	0	0	9	3	1	0	-1	1	1	1	0	0	2	31	124
9 SaltLake H	139	36	34	21	58	73	187	87	257	113	4	35	4	109	-3	6	-3	-2	21	7	13	-2	1	7	225	1427
10 PC 'Aiea	206	51	65	21	120	90	256	222	542	569	15	76	-3	302	42	37	17	4	36	16	19	3	0	27	407	3140
11 'Ewa	134	40	67	20	159	87	168	75	222	383	627	740	47	590	27	25	23	29	38	50	56	2	47	58	723	4437
12 Kapolei	79	35	68	27	97	65	109	93	142	293	249	1140	88	394	25	37	32	18	28	40	39	4	238	52	489	3881
13 Makakilo	21	8	11	4	19	5	23	29	38	70	10	65	10	96	7	11	7	5	13	15	0	2	9	10	131	619
14 Waipahu	68	9	30	6	51	47	90	39	120	204	17	91	11	327	59	48	27	18	17	16	18	11	3	10	342	1679
15 Waiawa	57	16	26	13	51	35	63	18	119	157	13	83	6	272	67	137	34	9	15	16	17	8	-2	13	187	1430
16 Mililani	52	4	3	6	59	25	45	5	45	27	6	69	-1	178	19	100	45	2	21	8	5	7	8	7	266	1011
17 Wahiawā Sc	21	-1	8	9	39	0	12	1	22	0	3	28	-2	73	3	30	77	2	6	5	11	5	1	7	114	474
18 E Honolulu	5	13	16	4	28	-2	23	2	6	0	0	6	-1	20	6	0	-5	61	-4	5	1	1	-1	4	3	191
19 Kāne'ohe	-9	-1	0	2	-6	3	-9	-16	21	4	3	2	0	40	2	-6	0	-6	73	41	-16	-5	3	-11	78	187
20 Kailua	0	0	5	10	1	16	-1	8	-4	24	0	11	1	41	3	4	-1	-3	-3	197	-1	1	1	10	99	419
21 Ko'olauloa	-2	5	1	4	0	2	7	-5	6	4	-3	3	0	7	-3	0	3	-2	0	8	14	1	-1	1	35	85
22 North Shor	13	-2	1	6	22	9	8	-8	8	12	1	18	0	22	1	1	2	-1	-2	5	4	26	-3	0	93	236
23 Wai'anae	18	8	8	10	15	9	10	-14	44	12	5	12	-4	81	3	8	8	-1	4	0	-10	-1	77	12	185	499
24 Mānoa	19	51	38	3	25	7	25	-13	40	9	0	1	0	21	-1	1	0	1	7	6	0	1	-2	46	96	381
25 UHManoa	19	5	12	1	9	7	9	0	1	2	0	0	1	-2	0	0	0	2	0	1	0	0	0	7	2	76
Totals	1222	367	590	143	881	585	1170	484	1826	1994	950	2407	157	2758	271	440	266	167	331	446	178	60	372	442	3964	22471

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Table 73. 2030 Difference in Non-Home Based Transit Trips: Fixed Guideway Combination 1 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table
Fixed Guideway Combination 1 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-22	51	43	14	22	7	6	1	11	9	3	4	3	5	2	1	2	-1	2	9	4	-3	-2	4	11	186
2 Kaka'ako	24	-1	15	8	-7	21	13	9	-1	10	4	3	1	-2	0	-2	1	10	5	0	-3	2	-3	22	-11	118
3 Makiki	56	14	46	-12	10	15	23	-1	14	0	2	0	0	6	-3	-3	5	2	6	-1	-2	-3	4	15	17	210
4 Waikīkī	4	-6	-15	-148	0	2	10	-1	7	10	2	1	0	2	-3	-1	3	3	1	-7	-1	-2	1	-1	-2	-141
5 Kaimukī Wa	28	4	5	-1	-11	0	3	-3	14	8	2	4	-1	4	2	-2	1	4	-4	1	0	1	-3	7	-6	57
6 Kalihi Nuu	26	31	14	0	4	-23	-34	3	11	22	1	5	3	0	0	-1	-2	3	-1	1	-1	2	-4	13	7	80
7 Iwilei	24	29	42	10	-3	-4	-14	-23	45	24	0	6	-1	4	0	3	0	5	-1	8	2	1	2	13	13	185
8 Airport PH	19	0	-1	1	12	1	-11	-187	32	16	2	7	-1	11	4	-3	-2	1	1	3	-5	4	-3	4	4	-91
9 SaltLake H	130	49	52	28	20	39	118	117	63	189	15	35	2	49	18	14	5	3	6	16	0	3	9	0	13	993
10 PC 'Aiea	152	58	58	53	16	42	88	86	258	457	41	73	1	229	72	34	11	-2	7	19	2	2	5	8	19	1789
11 'Ewa	19	16	22	13	7	1	9	14	21	33	98	130	16	90	12	15	-2	2	-4	-1	-1	1	9	2	17	539
12 Kapolei	71	16	44	38	10	18	33	31	51	78	190	1009	52	142	25	13	3	13	3	22	-3	2	37	11	30	1939
13 Makakilo	9	-9	7	2	-1	4	4	-2	0	4	11	3	-3	5	2	2	0	3	-2	-3	-2	1	1	1	4	41
14 Waipahu	39	12	25	22	2	3	22	21	42	107	31	50	11	154	42	20	6	2	4	1	-3	5	7	6	16	647
15 Waiawa	11	7	13	5	-5	7	12	9	11	37	10	24	-4	47	31	41	12	6	0	-2	1	4	4	-1	8	288
16 Mililani	9	7	11	3	4	9	3	-11	8	10	-1	8	1	7	8	21	17	5	-3	8	8	-3	0	-2	4	131
17 Wahiawā Sc	-1	1	7	-4	0	4	2	-8	14	2	-5	6	1	0	6	14	46	2	1	2	4	-1	3	-2	6	100
18 E Honolulu	3	-3	1	3	8	-6	4	1	-6	0	-2	8	0	4	1	3	-3	12	1	4	2	2	-6	-2	-4	25
19 Kāne'ohe	1	2	-1	4	-8	4	1	-8	15	5	3	4	0	-4	1	-2	-4	-1	93	10	-5	1	3	1	-1	114
20 Kailua	-3	-1	8	-3	1	0	15	-9	6	6	3	14	-3	-4	1	4	-5	-2	-5	19	5	-1	-7	-2	-3	34
21 Ko'olauloa	-6	4	4	1	-1	4	-3	2	1	1	0	1	-1	-1	0	0	1	-1	2	0	0	3	-1	0	1	11
22 North Shor	6	-1	5	-1	3	-1	3	-1	-3	8	-1	3	-1	0	2	1	-5	-3	-3	4	2	4	0	-2	0	19
23 Wai'anae	4	5	0	3	-1	-3	-1	-2	4	13	3	-3	-2	-7	8	2	2	-2	-7	1	-1	-1	13	0	8	36
24 Mānoa	20	-5	16	8	5	0	5	-2	3	2	2	1	1	-1	-1	3	0	2	-3	0	2	0	0	19	2	79
25 UHManoa	30	13	25	7	-4	4	7	-2	6	6	3	1	-1	-1	-2	3	-2	-2	1	3	0	2	1	7	1	106
Totals	653	293	446	54	83	148	318	34	627	1057	417	1397	74	739	228	180	90	64	100	117	5	26	70	121	154	7495

Table 74. 2030 Difference in Visitor Transit Trips: Fixed Guideway Combination 1 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Visitor Transit Person P-A Trip Table
Fixed Guideway Combination 1 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	0	9	9	1	-5	0	0	0	0	0	0	0	0	0	0	0	1	-1	0	0	0	0	0	1	15
2 Kaka'ako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Makiki	34	-1	0	-14	0	3	7	8	0	4	0	0	0	0	0	0	0	2	0	0	-1	0	0	1	5	48
4 Waikīkī	293	-9	-253	-337	-17	22	66	91	-5	87	0	0	0	1	0	0	0	-1	0	1	-2	4	-1	-11	54	-17
5 Kaimukī Wa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Kalihi Nuu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Iwilei	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0
8 Airport PH	-4	-1	-8	-35	0	0	-3	-4	0	-3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	-57
9 SaltLake H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PC 'Aiea	-1	-2	6	1	0	0	0	2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11 'Ewa	12	-2	16	17	2	2	-1	8	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	57
12 Kapolei	36	1	54	97	8	2	4	23	0	15	0	0	0	0	0	0	0	3	0	0	0	0	0	2	5	250
13 Makakilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Waipahu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Waiawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Mililani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Wahiawā Sc	2	0	3	3	2	-1	0	0	0	0	0	0	0	-1	0	0	2	0	0	0	0	0	0	0	0	10
18 E Honolulu	2	0	3	-4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
19 Kāne'ohe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Kailua	0	0	-2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
21 Ko'olauloa	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	2	0	0	0	2
22 North Shor	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	2
23 Wai'anae	-1	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24 Mānoa	1	0	4	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	-1	4
25 UHManoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	374	-14	-165	-255	-1	23	73	128	-6	106	0	0	0	0	0	0	2	6	-1	2	-5	5	-1	-7	62	326

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Table 75. 2030 Daily Total Transit Trips Fixed Guideway Combination 2 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 2 E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1835	1341	1292	704	503	847	1269	482	497	193	15	49	4	73	20	13	11	72	85	143	16	2	10	291	402	10169
2 Kaka'ako	2008	1443	1894	1204	575	689	1045	365	349	138	17	36	1	52	19	12	12	90	57	92	16	9	7	466	413	11009
3 Makiki	4552	2197	2835	2192	2001	688	1269	516	453	218	26	52	2	85	25	28	42	272	62	203	51	12	26	840	1211	19858
4 Waikīkī	6496	1704	3764	2585	1947	532	1092	1243	333	367	12	33	3	93	13	15	8	353	102	165	27	133	15	506	829	22370
5 Kaimukī Wa	2097	778	1732	1586	2594	351	666	250	215	123	9	49	3	59	16	16	19	482	60	57	15	3	5	527	826	12538
6 Kalihi Nuu	2868	1074	871	614	431	1738	2671	825	901	334	16	67	1	143	27	28	23	39	182	180	19	6	13	294	451	13816
7 Iwilei	1686	767	634	344	301	810	1561	739	687	325	16	48	2	97	28	15	15	34	72	49	5	14	10	158	317	8734
8 Airport PH	661	148	255	380	89	179	566	803	698	291	18	51	4	195	76	20	11	11	29	109	10	7	12	34	123	4780
9 SaltLake H	1547	466	487	348	249	476	1343	2121	2794	1025	57	160	11	359	86	62	57	35	93	130	23	12	32	98	475	12546
10 PC 'Aiea	1869	551	599	477	352	488	1512	2468	2693	4835	203	645	37	1544	529	335	229	48	183	168	58	24	57	145	825	20874
11 'Ewa	1293	502	638	1496	447	378	726	1041	835	1230	3499	4246	214	1706	193	215	201	120	129	236	131	31	363	268	1517	21655
12 Kapolei	1264	481	685	1627	470	389	709	1042	832	1201	1592	7625	487	1389	204	238	215	113	145	255	154	38	1088	244	1398	23885
13 Makakilo	388	158	200	452	153	160	235	320	276	387	211	1357	167	324	45	60	55	39	51	98	57	12	331	100	439	6075
14 Waipahu	953	264	584	1343	231	251	559	744	675	1650	645	969	71	2802	564	509	264	52	82	129	58	38	94	155	729	14415
15 Waiawa	759	199	488	1083	184	168	428	589	542	1423	173	509	33	1312	981	969	503	38	61	94	49	35	54	72	541	11287
16 Mililani	927	290	316	338	205	180	445	593	483	686	114	491	20	756	608	2859	1793	43	67	164	65	91	42	72	754	12402
17 Wahiawā Sc	509	148	208	172	127	77	205	227	211	204	45	185	8	258	167	972	1941	35	30	68	50	94	30	51	460	6482
18 E Honolulu	1167	408	809	711	1571	188	358	202	179	101	8	46	2	54	19	13	18	1706	53	181	28	9	10	228	561	8630
19 Kāne'ohe	993	280	214	233	114	327	443	316	302	208	24	86	3	108	24	16	23	17	2587	814	156	16	9	51	275	7639
20 Kailua	1672	386	319	294	182	320	383	291	254	174	27	78	5	117	30	23	30	71	681	3603	49	8	22	73	415	9507
21 Ko'olauloa	219	85	89	106	44	49	73	113	71	40	5	28	3	63	7	19	24	41	83	76	1217	60	3	26	102	2646
22 North Shor	301	119	153	177	81	69	165	175	143	134	20	72	3	90	48	151	357	17	33	56	234	1086	10	37	342	4073
23 Wai'anae	836	331	410	519	229	167	384	713	433	285	118	910	56	321	68	85	89	57	56	125	17	10	2680	99	829	9827
24 Mānoa	2297	1101	1572	973	832	515	791	288	260	111	8	38	0	56	11	15	9	112	46	132	16	6	5	708	746	10648
25 UHManoa	472	141	346	212	218	71	113	42	45	24	4	4	1	6	5	2	2	28	6	24	1	2	2	125	47	1943
Totals	39669	15362	21394	20170	14130	10107	19011	16508	15161	15707	6882	17834	1141	12062	3813	6690	5951	3925	5035	7351	2522	1758	4930	5668	15027	287808

Table 76. 2030 Peak Period Transit Trips Fixed Guideway Combination 2 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 2 E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	998	762	806	453	310	568	731	315	353	119	10	30	1	37	15	10	8	49	44	96	7	2	4	194	282	6204
2 Kaka'ako	1281	736	1098	817	397	497	696	256	239	94	8	22	1	31	13	11	5	70	40	63	12	3	2	348	284	7024
3 Makiki	2933	1306	1531	1309	1244	451	832	337	318	138	17	36	1	63	16	19	23	181	42	114	24	7	15	546	757	12260
4 Waikīkī	3454	993	1936	1295	1076	302	623	624	196	185	7	21	0	52	8	11	6	188	52	92	10	62	6	319	461	11979
5 Kaimukī Wa	1413	518	1127	1036	1491	227	431	172	137	78	4	34	0	44	8	7	8	318	37	39	8	3	2	367	523	8032
6 Kalihi Nuu	1903	640	550	385	250	1122	1593	556	569	210	11	45	0	82	18	18	9	20	128	116	7	0	10	175	306	8723
7 Iwilei	1059	461	392	237	177	543	776	475	421	190	9	32	0	56	19	9	9	22	44	33	0	7	5	96	218	5290
8 Airport PH	391	94	144	191	48	103	328	477	425	146	7	27	4	127	48	11	6	3	17	58	4	3	7	21	86	2776
9 SaltLake H	1016	287	311	219	169	321	814	1311	1733	605	37	99	7	216	58	38	32	16	61	84	15	7	14	57	321	7848
10 PC 'Aiea	1334	382	416	344	232	333	1049	1729	1863	2861	124	434	20	944	324	231	161	34	133	125	48	18	38	92	597	13866
11 'Ewa	928	355	450	1101	323	300	491	705	581	868	2345	2745	146	1059	120	152	147	80	83	169	88	19	284	210	1126	14875
12 Kapolei	909	345	470	1157	333	300	485	718	593	870	1080	4539	294	912	135	159	161	85	102	182	111	25	919	193	1039	16116
13 Makakilo	277	113	149	339	111	133	166	232	196	296	146	861	103	218	26	46	40	30	36	70	43	6	286	80	345	4348
14 Waipahu	693	181	432	1032	159	188	371	508	456	1024	412	620	48	1685	342	382	197	36	64	83	43	27	70	110	560	9723
15 Waiawa	552	136	348	842	123	120	284	394	353	925	112	343	21	853	531	731	384	27	48	66	31	25	43	50	389	7731
16 Mililani	657	211	225	245	136	127	308	424	325	448	76	331	10	491	370	1918	1240	27	50	98	41	71	31	50	556	8466
17 Wahiawā Sc	337	100	130	113	80	55	132	151	138	132	29	121	4	164	99	636	1132	15	19	39	27	74	15	33	333	4108
18 E Honolulu	820	266	539	475	973	131	243	135	134	58	5	28	1	43	10	5	12	1075	40	131	20	6	6	158	360	5674
19 Kāne'ohe	732	197	155	156	78	236	289	222	191	147	12	59	1	68	15	10	15	10	1582	554	107	7	4	33	178	5058
20 Kailua	1139	264	213	205	113	215	265	215	176	115	10	47	3	72	16	18	18	47	450	2324	34	5	13	43	277	6297
21 Ko'olauloa	153	59	53	68	22	30	49	68	40	22	0	17	2	33	4	9	17	21	41	41	852	41	3	16	72	1733
22 North Shor	219	85	112	117	56	47	112	109	96	77	16	43	0	63	29	101	248	9	21	28	165	698	5	24	242	2722
23 Wai'anae	597	223	278	354	153	118	255	490	274	169	74	591	39	215	50	50	57	34	25	77	2	4	1862	60	614	6665
24 Mānoa	1524	668	961	668	496	326	498	190	172	71	7	26	0	30	8	10	6	77	32	79	10	2	2	407	463	6733
25 UHManoa	281	91	195	122	119	45	63	25	33	13	2	2	0	1	3	1	1	19	3	13	0	2	2	71	22	1129
Totals	25600	9473	13021	13280	8669	6838	11884	10838	10012	9861	4560	11153	706	7559	2285	4593	3942	2493	3194	4774	1709	1124	3648	3753	10411	185380

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Table 77. 2030 Off-Peak Period Transit Trips Fixed Guideway Combination 2 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 2 E-MODEL
OffPeak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	833	592	499	252	195	275	514	178	147	74	5	19	3	20	5	3	3	22	34	47	6	0	6	85	150	3967
2 Kaka'ako	689	676	823	412	188	194	336	109	110	45	9	15	0	19	6	1	7	20	17	29	4	6	4	122	145	3986
3 Makiki	1602	885	1215	893	788	233	439	177	142	82	10	16	1	23	9	9	20	92	19	89	26	5	11	306	508	7600
4 Waikīkī	3029	716	1839	1282	869	230	463	617	140	183	5	12	3	40	5	4	2	165	49	73	16	71	9	192	377	10391
5 Kaimukī Wa	683	259	617	559	1064	124	232	77	79	44	5	15	3	15	8	9	11	165	24	21	7	0	3	160	326	4510
6 Kalihi Nuu	1014	435	323	228	180	567	1072	289	326	125	5	21	1	33	9	10	13	19	49	62	11	6	3	113	180	5094
7 Iwilei	647	305	243	107	124	281	752	303	236	135	7	14	2	24	9	6	6	11	20	17	2	7	5	61	123	3447
8 Airport PH	270	55	111	190	39	77	238	325	291	132	11	23	0	60	29	9	5	7	11	51	5	4	5	12	44	2004
9 SaltLake H	534	179	178	128	82	154	532	830	1063	396	20	60	4	118	28	24	25	19	29	46	6	5	18	41	179	4698
10 PC 'Aiea	538	170	183	134	120	153	459	767	913	1917	77	205	16	525	200	101	69	14	46	43	11	6	18	52	274	7011
11 'Ewa	366	147	189	395	123	78	234	342	256	362	1133	1508	67	654	75	60	54	40	28	60	9	8	76	58	459	6781
12 Kapolei	354	138	214	470	137	88	223	320	244	332	506	3088	164	480	67	79	54	28	36	73	18	8	179	52	420	7772
13 Makakilo	111	44	52	112	43	28	69	90	81	88	66	518	48	105	19	14	15	9	7	25	1	1	39	19	125	1729
14 Waipahu	261	83	152	332	72	62	189	241	224	657	220	307	22	1096	201	122	65	16	19	45	14	11	24	44	213	4692
15 Waiawa	206	63	139	255	59	48	144	198	191	513	55	150	10	468	433	222	121	11	12	28	16	9	11	22	173	3557
16 Mililani	270	79	91	93	69	53	139	176	158	241	30	130	9	259	240	896	601	16	17	67	15	20	11	22	236	3938
17 Wahiawā Sc	172	48	78	59	46	22	72	84	72	70	12	44	4	85	67	348	808	20	10	29	23	19	12	18	156	2378
18 E Honolulu	348	144	278	233	601	56	115	69	45	42	3	18	1	12	8	8	7	609	14	51	8	3	4	71	209	2957
19 Kāne'ohe	280	82	58	76	36	89	154	92	115	62	12	28	2	38	10	6	8	7	974	272	50	9	5	18	98	2581
20 Kailua	542	121	105	89	66	106	118	74	79	59	18	31	2	44	14	6	12	20	231	1288	15	3	9	30	133	3215
21 Ko'olauloa	67	26	35	38	20	19	24	45	30	19	5	10	1	30	3	10	8	20	32	33	376	18	0	10	35	914
22 North Shor	83	34	40	60	24	21	52	57	46	57	4	30	3	27	17	49	120	6	11	25	67	384	5	13	118	1353
23 Wai'anae	239	108	133	164	73	49	129	220	158	115	44	333	18	104	19	34	31	23	8	39	2	4	819	38	261	3165
24 Mānoa	780	442	630	315	314	175	280	95	90	41	1	12	0	25	2	5	3	36	13	53	7	4	3	272	317	3915
25 UHManoa	192	50	149	90	101	26	49	17	12	11	2	2	1	5	2	1	1	9	3	11	1	0	0	52	28	815
Totals	14110	5881	8374	6966	5433	3208	7028	5792	5248	5802	2265	6609	385	4309	1485	2036	2069	1404	1713	2577	716	611	1279	1883	5287	102470

Table 78. 2030 Journey to Work Home-Based Work Transit Trips Fixed Guideway Combination 2 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 2 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	427	316	432	333	101	148	338	250	198	88	8	18	0	15	15	7	9	20	26	62	2	0	1	47	54	2915
2 Kaka'ako	943	237	470	639	163	180	458	245	188	80	8	14	1	16	9	8	4	25	26	59	5	3	2	87	80	3950
3 Makiki	2185	840	778	754	404	251	593	299	257	122	17	19	1	21	16	15	7	62	31	72	4	4	3	159	167	7081
4 Waikīkī	1243	574	604	307	260	122	285	156	124	50	3	12	0	20	7	7	4	37	16	38	0	1	1	93	92	4056
5 Kaimukī Wa	1202	421	685	794	343	119	283	165	118	69	5	14	1	18	9	4	10	60	20	28	2	1	0	90	132	4593
6 Kalihi Nuu	1409	409	358	269	80	231	655	416	306	139	10	31	0	34	16	12	10	9	52	83	5	1	6	53	47	4641
7 Iwilei	556	239	219	165	46	117	203	294	213	88	8	13	0	22	11	8	7	11	24	25	0	2	0	24	38	2333
8 Airport PH	151	42	41	29	8	26	95	198	132	63	3	12	1	93	47	3	4	2	5	9	0	0	1	6	9	980
9 SaltLake H	692	200	190	153	48	126	371	713	661	271	18	52	4	101	46	24	21	4	30	45	3	1	3	24	38	3839
10 PC 'Aiea	1102	301	309	291	89	165	686	1137	896	836	98	305	13	395	202	115	125	11	67	81	9	9	12	30	133	7417
11 'Ewa	891	305	352	1244	121	113	319	547	339	343	684	1842	97	328	77	94	108	21	37	82	14	12	155	43	328	8496
12 Kapolei	797	299	354	1208	139	123	338	562	390	372	444	2396	145	354	90	101	124	27	42	92	20	15	269	53	319	9073
13 Makakilo	264	95	106	387	33	31	99	160	90	90	91	503	37	75	19	22	25	5	9	27	5	1	52	15	103	2344
14 Waipahu	654	143	421	1218	53	75	205	352	243	360	174	402	30	472	166	108	109	10	28	39	3	15	15	17	132	5444
15 Waiawa	551	119	350	1003	49	63	177	330	232	353	86	272	18	325	259	180	183	8	22	38	6	13	12	13	100	4762
16 Mililani	568	194	212	240	57	81	235	420	269	353	80	294	12	192	195	509	578	16	23	58	10	50	15	18	166	4845
17 Wahiawā Sc	228	73	74	95	27	30	87	138	108	112	32	92	5	58	65	223	475	7	7	27	8	37	9	12	66	2095
18 E Honolulu	656	259	402	408	290	67	174	122	101	44	5	16	0	13	7	3	4	193	22	69	5	1	1	52	93	3007
19 Kāne'ohe	631	168	132	136	31	117	209	222	156	108	10	32	1	36	17	8	8	7	314	270	29	2	1	18	41	2704
20 Kailua	867	223	189	174	48	131	194	215	145	97	4	25	0	31	15	12	9	23	170	699	8	1	1	21	53	3355
21 Ko'olauloa	141	43	40	48	8	18	28	54	20	9	1	8	0	6	3	4	12	1	35	19	284	28	0	5	33	848
22 North Shor	215	79	89	109	22	25	81	104	64	42	15	28	0	31	28	60	158	6	10	24	64	182	1	7	85	1529
23 Wai'anae	577	197	248	314	71	71	183	491	220	122	59	437	18	127	42	34	48	16	21	49	4	1	359	30	227	3966
24 Mānoa	1160	472	546	569	186	148	341	186	153	60	5	16	0	17	7	10	7	30	22	49	3	1	0	90	101	4179
25 UHManoa	147	56	84	67	32	17	44	20	22	10	1	1	0	1	2	0	1	5	3	4	0	0	0	13	3	533
Totals	18257	6304	7685	10954	2709	2595	6681	7796	5645	4281	1869	6854	384	2801	1370	1571	2050	616	1062	2048	493	381	919	1020	2640	98985

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Table 79. 2030 Home-Based Other Transit Trips Fixed Guideway Combination 2 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 2 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	365	434	380	126	263	458	581	123	195	58	0	17	0	49	1	1	2	34	33	29	7	0	3	173	297	3629
2 Kaka'ako	502	589	626	285	325	387	459	80	109	33	1	12	0	32	2	1	3	49	22	21	7	1	1	302	296	4145
3 Makiki	1115	838	1075	563	1236	306	537	95	122	39	1	20	0	58	3	8	2	131	23	17	13	4	6	481	735	7428
4 Waikīkī	588	528	934	285	873	99	214	44	44	23	2	16	0	28	3	3	2	57	11	10	7	1	0	201	350	4323
5 Kaimukī Wa	442	243	708	495	1403	151	269	58	69	33	0	22	0	33	1	4	2	261	16	17	9	1	1	351	518	5107
6 Kalihi Nuu	938	384	348	155	264	1180	1405	324	484	137	1	27	1	97	7	10	8	19	94	55	11	1	5	170	361	6486
7 Iwilei	380	187	150	61	143	412	442	216	245	74	1	21	0	52	2	3	1	12	30	10	3	1	2	56	226	2730
8 Airport PH	87	14	17	16	39	41	133	243	169	71	0	13	0	37	3	2	0	0	7	2	7	1	0	10	96	1008
9 SaltLake H	398	100	117	80	130	233	629	882	1429	347	6	52	1	149	6	15	8	9	47	26	15	2	10	51	372	5114
10 PC 'Aiea	452	122	161	90	231	245	618	890	1259	2298	34	191	5	702	138	124	58	23	90	61	42	7	28	72	675	8616
11 'Ewa	345	181	219	173	315	257	384	452	464	816	2426	2090	100	1198	96	111	83	87	90	146	115	16	193	187	1171	11715
12 Kapolei	263	133	186	134	285	238	301	350	375	667	740	3072	210	791	66	98	67	69	86	139	129	18	740	168	1037	10362
13 Makakilo	110	58	87	59	118	125	132	156	181	281	105	756	114	232	22	36	28	30	42	69	52	10	275	84	334	3496
14 Waipahu	207	86	127	89	160	152	263	304	360	905	274	371	27	1578	258	313	127	37	47	79	52	18	56	106	579	6575
15 Waiawa	177	66	92	66	129	94	188	221	255	917	62	182	11	825	579	666	279	24	36	47	39	19	33	52	432	5491
16 Mililani	260	61	82	69	134	84	188	144	181	242	19	164	5	490	308	1950	951	23	39	38	44	33	20	53	549	6131
17 Wahiawā Sc	122	42	56	52	84	36	94	68	81	65	9	75	1	173	70	572	989	12	19	33	37	41	13	35	389	3168
18 E Honolulu	290	121	334	224	1088	106	164	68	68	44	0	24	1	33	9	4	7	1195	25	99	20	6	7	156	426	4519
19 Kāne'ohe	249	70	64	47	79	174	202	71	117	73	5	38	1	64	0	6	10	6	1608	440	88	4	1	30	217	3664
20 Kailua	474	90	80	62	115	145	157	55	84	52	7	36	2	71	7	5	14	40	365	2189	35	1	9	40	342	4477
21 Ko'olauloa	49	34	40	42	30	24	40	42	43	24	2	13	1	14	3	10	8	11	30	34	773	11	2	19	64	1363
22 North Shor	63	33	52	55	57	41	71	62	71	36	4	35	2	52	15	78	166	10	20	25	159	711	6	26	250	2100
23 Wai'anae	172	111	131	131	151	84	182	160	156	130	44	415	29	180	22	38	35	35	34	69	13	6	2011	63	584	4986
24 Mānoa	690	497	762	277	531	260	411	80	84	31	0	18	0	34	2	4	1	58	21	18	8	1	3	476	498	4765
25 UHManoa	78	31	77	34	83	28	39	7	8	5	0	0	0	2	0	0	0	12	1	2	0	0	0	41	6	454
Totals	8816	5053	6905	3670	8266	5360	8103	5195	6653	7401	3743	7680	511	6974	1623	4062	2851	2244	2836	3675	1685	914	3425	3403	10804	121852

Table 80. 2030 Non-Home Based Transit Trips Fixed Guideway Combination 2 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 2 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	954	547	353	143	96	203	345	73	90	42	7	14	4	9	4	5	0	18	19	20	7	2	6	71	39	3071
2 Kaka'ako	563	617	664	220	85	107	128	36	48	23	8	10	0	4	8	3	5	9	9	12	4	5	4	75	35	2682
3 Makiki	482	489	873	435	238	112	118	31	54	27	8	13	1	6	6	5	2	34	8	13	9	4	5	174	133	3280
4 Waikīkī	162	188	310	533	171	26	30	14	12	16	7	5	3	6	3	5	2	16	7	4	2	1	7	36	38	1604
5 Kaimukī Wa	175	108	261	249	598	37	74	27	28	21	4	13	2	6	6	8	7	112	8	12	4	1	4	76	124	1965
6 Kalihi Nuu	372	145	104	42	36	240	313	73	94	57	5	9	0	12	4	6	5	11	16	24	3	4	2	27	20	1624
7 Iwilei	606	209	146	78	67	248	793	229	229	156	7	14	2	23	15	4	7	11	18	10	2	4	8	26	20	2932
8 Airport PH	192	71	65	37	32	81	306	299	356	143	11	26	3	65	26	15	7	6	17	80	3	6	11	11	13	1882
9 SaltLake H	237	86	76	55	53	108	290	518	601	398	22	48	6	100	34	23	20	14	16	58	5	9	19	18	21	2835
10 PC 'Aiea	223	91	80	79	32	78	184	345	510	1685	71	149	19	447	189	96	41	14	26	26	7	8	17	26	17	4460
11 'Ewa	41	15	24	25	9	6	20	26	24	68	389	314	17	180	20	10	10	3	2	8	2	3	15	6	17	1254
12 Kapolei	113	43	48	66	34	22	56	76	67	139	408	2157	132	244	48	39	24	13	17	24	5	5	79	17	37	3913
13 Makakilo	11	5	7	6	2	4	4	4	5	16	15	98	16	17	4	2	2	4	0	2	0	1	4	1	2	232
14 Waipahu	80	31	36	36	18	24	51	88	72	357	197	196	14	712	140	88	28	5	7	11	3	5	23	11	18	2251
15 Waiawa	31	14	16	14	6	11	23	38	35	153	25	55	4	162	143	123	41	6	3	9	4	3	9	7	9	944
16 Mililani	50	23	22	29	14	11	22	29	33	63	15	33	3	74	105	400	207	4	5	12	11	8	7	1	11	1192
17 Wahiawā Sc	27	11	16	11	10	8	12	17	22	22	4	18	2	26	32	177	334	4	4	5	5	16	8	4	5	800
18 E Honolulu	75	28	46	36	124	13	18	11	10	13	3	6	1	8	3	6	7	274	6	13	3	2	2	13	9	730
19 Kāne'ohe	74	23	18	14	4	30	32	19	29	27	9	16	1	8	7	2	5	4	636	86	12	1	7	3	5	1072
20 Kailua	145	29	29	24	15	30	23	17	25	23	16	17	3	15	8	6	7	8	104	619	6	6	12	8	7	1202
21 Ko'olauloa	17	8	8	10	6	7	5	8	8	7	2	7	2	6	1	5	4	1	9	9	101	6	1	2	5	245
22 North Shor	15	7	10	10	2	3	9	9	8	11	1	9	1	7	5	13	13	1	3	7	9	104	3	4	5	269
23 Wai'anae	49	23	29	39	7	12	13	32	22	24	15	58	9	14	4	13	6	6	1	7	0	3	310	6	18	720
24 Mānoa	154	106	214	77	58	46	39	22	17	12	3	4	0	5	2	1	1	14	3	3	5	4	2	103	68	963
25 UHManoa	76	52	119	49	95	18	30	11	15	7	3	3	1	3	3	2	1	11	2	4	1	2	2	71	21	602
Totals	4924	2969	3574	2317	1812	1485	2938	2052	2414	3510	1255	3292	246	2159	820	1057	786	603	946	1078	213	213	567	797	697	42724

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Table 81. 2030 Visitor Transit Trips Fixed Guideway Combination 2 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 2 E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	127	102	43	38	5	36	14	5	0	0	0	0	0	0	0	0	7	32	0	0	0	0	12	554
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	770	30	109	440	123	19	21	91	20	30	0	0	0	0	0	0	31	45	0	101	25	0	12	26	176	2069
4 Waikīkī	4503	414	1916	1460	643	285	563	1029	153	278	0	0	0	39	0	0	0	243	68	113	18	130	7	176	349	12387
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	119	40	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	33	739
8 Airport PH	231	21	132	298	10	31	32	63	41	14	4	0	0	0	0	0	0	3	0	18	0	0	0	7	5	910
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	92	37	49	17	0	0	24	96	28	16	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	381
11 'Ewa	16	1	43	54	2	2	3	16	8	3	0	0	0	0	0	0	0	9	0	0	0	0	0	32	1	190
12 Kapolei	91	6	97	219	12	6	14	54	0	23	0	0	0	0	0	0	0	4	0	0	0	0	0	6	5	537
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	132	22	62	14	6	3	12	4	0	5	0	0	0	1	0	0	143	12	0	3	0	0	0	0	0	419
18 E Honolulu	146	0	27	43	69	2	2	1	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	7	33	374
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	21	34	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	473
21 Ko'olauloa	12	0	1	6	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	59	15	0	0	0	190
22 North Shor	8	0	2	3	0	0	4	0	0	45	0	0	0	0	0	0	20	0	0	0	2	89	0	0	2	175
23 Wai'anae	38	0	2	35	0	0	6	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155
24 Mānoa	293	26	50	50	57	61	0	0	6	8	0	0	0	0	0	0	0	10	0	62	0	0	0	39	79	741
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7672	1036	3230	3229	1343	667	1289	1465	449	515	15	8	0	128	0	0	264	462	191	550	131	250	19	448	886	24247

Table 82. 2030 Difference in Daily Transit Trips: Fixed Guideway Combination 2 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Transit Person P-A Trip Table
Fixed Guideway Combination 2 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-116	95	126	116	43	-21	66	83	45	33	7	12	3	26	3	2	-7	11	11	26	3	-4	-1	55	95	712
2 Kaka'ako	74	-39	66	88	-21	25	96	86	54	34	9	5	-2	14	1	-1	1	-6	9	31	5	7	-6	97	36	663
3 Makiki	397	159	4	55	-53	46	193	135	69	58	10	14	0	36	0	-1	0	6	15	32	-1	2	5	32	79	1292
4 Waikīkī	702	82	329	-686	-130	49	200	395	31	156	5	5	2	22	0	4	-1	2	8	17	2	6	1	19	44	1264
5 Kaimukī Wa	186	32	6	-84	-65	23	145	94	14	44	3	12	0	24	2	3	4	16	6	20	7	-2	-5	47	33	565
6 Kalihi Nuu	61	101	79	61	29	50	9	182	72	63	4	12	0	51	4	9	6	-4	33	44	0	0	3	45	115	1029
7 Iwilei	170	89	100	89	50	11	-137	135	88	83	5	7	0	42	4	-2	1	9	14	13	-2	3	0	16	103	891
8 Airport PH	228	60	123	162	46	62	170	89	188	133	5	28	0	114	43	3	2	0	13	27	-1	5	3	16	67	1586
9 SaltLake H	371	134	128	130	57	95	330	656	349	338	23	77	8	170	16	30	14	-5	28	41	8	1	10	29	167	3205
10 PC 'Aiea	940	283	307	281	178	232	787	1218	1155	1340	97	362	16	718	178	117	82	12	93	95	24	9	14	66	453	9057
11 'Ewa	422	151	204	528	155	101	264	474	316	416	450	1083	71	439	44	41	50	28	35	89	21	1	99	64	755	6301
12 Kapolei	608	233	368	965	223	153	327	660	446	631	636	2947	189	755	97	106	120	35	66	138	48	9	429	101	679	10969
13 Makakilo	68	27	42	152	34	21	54	136	62	122	44	178	19	131	18	20	18	-4	16	28	7	5	23	11	166	1398
14 Waipahu	384	87	278	676	80	83	236	346	271	468	104	321	25	549	105	107	60	17	27	46	17	16	21	43	398	4765
15 Waiawa	327	75	224	635	71	71	170	295	249	312	70	274	18	435	81	227	110	11	24	39	22	12	13	16	231	4012
16 Mililani	196	69	91	116	69	52	123	226	197	153	39	263	0	237	6	174	125	6	23	48	19	14	16	2	322	2586
17 Wahiawā Sc	68	9	40	37	40	3	39	70	83	23	16	86	2	86	-7	72	166	8	8	21	16	8	11	15	110	1030
18 E Honolulu	-48	27	43	1	38	-27	39	47	12	14	-5	17	0	32	5	1	-7	65	7	16	5	2	-11	-4	-15	254
19 Kāne'ohe	-99	-4	-39	0	-42	11	-28	55	11	53	11	25	0	54	1	-8	9	-6	172	171	-18	-6	-1	-8	-37	277
20 Kailua	-7	-13	-11	4	-55	19	-29	43	-11	15	4	6	-4	29	7	-2	1	-11	10	349	-6	0	-4	3	2	339
21 Ko'olauloa	1	7	0	2	-17	7	-3	27	2	2	-5	7	1	15	-11	0	5	-3	5	19	35	1	-2	2	8	105
22 North Shor	39	27	35	48	31	14	35	63	44	24	7	43	-1	39	-1	6	26	-3	-5	28	5	37	-5	4	118	658
23 Wai'anae	94	45	69	122	37	24	38	274	117	92	31	46	-11	127	18	25	24	-4	2	28	-7	-1	138	16	265	1609
24 Mānoa	119	75	95	91	47	1	102	82	46	18	6	-4	-2	27	-8	3	-2	14	5	23	5	4	1	63	107	918
25 UHManoa	67	29	39	7	0	15	27	16	12	9	2	-1	0	-1	0	2	-1	2	-1	4	0	1	1	9	-2	236
Totals	5252	1840	2746	3596	845	1120	3253	5887	3922	4634	1578	5825	334	4171	606	938	806	196	624	1393	214	130	753	759	4299	55721

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Table 83. 2030 Difference in Peak Period Transit Trips: Fixed Guideway Combination 2 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Peak Transit Person P-A Trip Table
Fixed Guideway Combination 2 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-72	44	100	82	23	-16	14	45	57	-1	4	6	0	18	5	3	-4	9	-10	31	-1	-1	1	40	73	450
2 Kaka'ako	36	-26	46	75	-6	6	67	58	35	24	2	2	-1	3	1	1	2	-1	4	19	7	1	-2	67	23	443
3 Makiki	264	100	28	33	-33	8	125	93	54	35	7	16	0	33	-1	0	5	-2	6	17	-5	3	5	26	52	869
4 Waikīkī	357	59	137	-375	-47	29	115	203	26	76	5	4	0	12	1	3	1	-4	6	16	-3	5	-1	25	0	650
5 Kaimukī Wa	141	36	-1	-67	-39	8	98	58	10	25	1	15	0	19	1	0	-3	7	2	19	2	-1	0	50	33	414
6 Kalihi Nuu	61	63	59	42	12	60	-9	136	46	34	3	7	0	32	-1	6	-5	-1	27	36	-6	-4	7	17	77	699
7 Iwilei	126	56	65	68	22	9	-80	89	29	43	2	10	0	30	2	-3	2	5	2	14	-5	1	0	14	79	580
8 Airport PH	146	41	75	87	23	35	107	75	142	64	0	12	3	71	28	1	2	-1	7	19	1	2	4	8	49	1001
9 SaltLake H	249	88	104	90	44	79	201	440	239	193	17	49	6	104	21	19	7	-7	18	32	7	-1	3	20	115	2137
10 PC 'Aiea	684	214	231	210	110	155	566	871	831	764	58	251	6	419	111	82	68	13	66	77	19	9	6	53	328	6202
11 'Ewa	293	111	157	398	122	86	183	333	237	309	336	780	48	299	35	31	28	13	18	75	1	0	62	64	546	4565
12 Kapolei	457	173	254	709	161	110	225	466	326	453	442	1889	115	502	69	70	96	25	48	110	25	7	358	84	496	7670
13 Makakilo	47	19	35	117	27	16	39	103	28	95	31	131	18	88	9	19	9	-7	9	15	2	3	15	11	128	1007
14 Waipahu	281	69	199	540	50	61	165	244	211	305	63	218	20	348	67	70	43	11	29	24	13	10	13	29	295	3378
15 Waiawa	238	48	167	504	44	56	121	213	169	216	37	190	10	289	33	171	83	8	20	31	11	11	9	14	175	2868
16 Mililani	145	51	62	97	43	34	102	170	135	111	30	189	-3	154	8	141	82	3	22	32	9	16	12	1	248	1894
17 Wahiawā Sc	51	7	25	23	25	5	24	49	60	12	12	68	-1	53	0	48	81	2	9	12	6	11	7	13	86	688
18 E Honolulu	-36	5	31	-6	21	-18	24	31	21	3	0	8	-1	30	0	-4	1	37	3	8	6	2	-7	1	-24	136
19 Kāne'ohe	-69	-6	-21	0	-29	21	-30	38	1	43	6	17	-1	29	-3	-9	8	-2	103	132	-17	-1	1	-10	-38	163
20 Kailua	-6	-3	-16	7	-31	6	-28	26	-9	20	-6	4	1	17	3	-2	3	-12	-5	284	-3	0	3	1	8	262
21 Ko'olauloa	-1	5	0	5	-14	2	3	18	4	0	-5	4	2	11	-4	-1	5	-2	-1	10	25	1	0	6	9	82
22 North Shor	20	24	29	35	24	13	26	35	33	14	9	24	-3	31	-2	10	21	-1	-3	16	5	24	-1	3	78	464
23 Wai'anae	68	24	51	79	36	22	23	213	85	65	14	42	2	91	23	8	18	1	-1	26	-12	0	83	8	191	1160
24 Mānoa	90	56	80	76	12	1	57	52	30	14	5	-6	-2	14	-6	1	0	8	6	19	4	0	1	35	76	623
25 UHManoa	45	20	23	9	-6	10	6	7	15	5	0	-1	-1	0	1	1	0	3	-2	3	0	2	1	16	-6	151
Totals	3615	1278	1920	2838	594	798	2144	4066	2815	2922	1073	3929	218	2697	401	666	553	105	383	1077	91	100	580	596	3097	38556

Table 84. 2030 Difference in Off-Peak Transit Trips: Fixed Guideway Combination 2 vs. No Build Alternative

HHCTP Study
Year 2030 TSM E-MODEL
OffPeak Transit Person P-A Trip Table
Fixed Guideway Combination 2 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-38	57	38	34	21	-3	21	44	-11	32	3	7	3	6	-1	-1	-3	2	14	-5	2	-3	-2	18	29	264
2 Kaka'ako	12	-12	38	24	-10	21	18	27	21	11	6	4	-1	9	-1	-2	-1	-5	5	13	-2	6	-5	28	17	221
3 Makiki	133	52	-25	20	-7	36	68	38	23	23	4	-2	0	4	3	0	-3	6	9	15	3	-1	0	7	19	425
4 Waikīkī	342	29	184	-309	-74	21	79	191	6	83	0	0	2	8	0	1	-2	6	1	2	4	1	2	-1	40	616
5 Kaimukī Wa	63	-7	6	-31	-31	15	42	33	2	22	2	-3	0	5	2	3	7	6	5	4	5	-1	-5	0	9	153
6 Kalihi Nuu	25	41	19	17	15	-7	-5	60	19	25	1	7	0	3	4	3	11	-3	2	8	5	4	-4	29	52	331
7 Iwilei	54	34	34	21	29	7	-60	64	35	41	3	-4	0	9	2	1	-1	3	4	1	0	2	0	2	33	314
8 Airport PH	81	21	48	79	20	28	63	7	65	57	5	15	-3	39	16	2	0	1	5	8	-3	3	-1	7	22	585
9 SaltLake H	126	46	26	39	15	13	132	234	100	136	6	27	2	61	-5	10	7	2	6	6	-1	2	7	9	61	1067
10 PC 'Aiea	259	70	74	72	67	74	216	374	365	550	38	106	9	246	64	35	16	-1	23	18	6	0	7	12	156	2856
11 'Ewa	130	40	48	129	31	17	81	146	80	108	125	311	20	138	11	8	18	15	-1	8	-12	-3	40	-1	247	1734
12 Kapolei	151	66	111	256	64	41	101	190	125	183	189	1055	56	253	27	36	24	11	15	29	0	0	84	18	216	3301
13 Makakilo	21	8	7	35	9	6	15	36	35	24	16	46	-2	42	9	1	9	3	-1	11	-5	-1	14	-1	56	393
14 Waipahu	103	18	79	149	30	21	71	107	67	174	33	80	4	192	26	31	14	6	0	23	4	7	7	13	128	1387
15 Waiawa	87	27	57	142	25	15	50	88	78	103	26	79	6	140	43	48	30	3	4	8	9	0	4	2	70	1144
16 Mililani	50	18	29	19	26	18	24	61	62	45	3	69	1	68	3	29	48	3	2	17	1	-2	5	1	94	694
17 Wahiawā Sc	18	3	16	14	14	-2	14	30	23	7	4	17	3	26	-10	31	77	5	-2	9	15	-3	2	2	32	345
18 E Honolulu	-18	25	17	0	22	-10	16	19	-10	10	-5	8	1	3	4	5	-7	31	6	7	-1	-1	-4	-5	5	118
19 Kāne'ohe	-25	0	-19	-1	-13	-12	2	13	14	10	5	10	1	22	4	0	1	-4	62	53	-2	-5	-2	3	-6	111
20 Kailua	-1	-11	3	-3	-25	13	0	16	-1	-3	11	1	-5	11	4	1	-3	-1	14	78	-3	0	-7	4	-11	82
21 Ko'olauloa	3	2	0	-2	-4	5	-6	8	-2	3	0	1	-1	4	-7	2	1	-1	4	7	10	-1	-2	-4	3	23
22 North Shor	20	3	7	13	6	-1	9	18	12	10	-2	21	2	8	0	-6	6	-4	-3	10	15	12	-4	1	42	195
23 Wai'anae	26	21	19	42	0	2	17	63	33	22	18	11	-13	37	-5	16	4	-3	-12	8	-4	-2	51	7	94	452
24 Mānoa	29	23	20	14	25	3	40	25	20	6	1	2	0	12	-5	2	0	7	0	4	2	4	0	22	39	295
25 UHManoa	23	9	17	-2	6	5	19	9	-3	3	2	0	1	-1	0	1	-1	1	1	0	0	-1	0	-6	3	86
Totals	1674	583	853	771	261	326	1027	1901	1158	1685	494	1868	86	1345	188	257	252	89	163	342	48	17	187	167	1450	17192

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Table 85. 2030 Difference in Home Based Work Transit Trips: Fixed Guideway Combination 2 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table
Fixed Guideway Combination 2 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-24	23	52	63	5	3	16	44	14	15	4	4	-1	7	2	0	-2	7	1	23	-1	0	0	12	13	280
2 Kaka'ako	34	-5	11	43	-4	6	48	61	29	20	2	2	-1	2	-1	0	0	-2	0	25	4	1	0	18	10	303
3 Makiki	221	107	46	24	-40	17	94	84	42	38	8	9	0	4	1	-1	1	3	10	32	-2	3	2	13	34	750
4 Waikīkī	128	31	10	-119	-20	15	51	56	33	16	1	5	0	5	0	4	-2	2	5	19	-1	0	-1	6	4	248
5 Kaimukī Wa	149	39	10	-44	-5	21	72	73	17	31	3	4	1	4	2	1	-2	-2	4	14	2	0	0	10	21	425
6 Kalihi Nuu	30	47	50	51	8	15	-13	118	33	25	4	9	0	8	0	3	2	-1	9	33	2	-3	3	21	12	466
7 Iwilei	62	36	36	44	6	1	-21	73	31	18	2	4	0	6	-3	2	1	4	3	12	-1	1	-1	3	22	341
8 Airport PH	86	25	29	17	3	13	50	81	81	33	2	10	1	58	30	-2	2	2	1	6	0	0	1	3	6	538
9 SaltLake H	197	75	77	74	17	32	126	298	131	104	10	28	4	53	8	11	9	0	11	25	2	0	1	15	20	1328
10 PC 'Aiea	627	186	184	197	50	100	424	658	479	297	51	193	9	205	58	51	47	8	37	68	7	4	6	25	88	4059
11 'Ewa	332	115	153	494	66	54	150	324	209	181	162	684	41	108	26	36	39	13	22	57	11	5	61	19	195	3557
12 Kapolei	437	182	215	777	97	71	203	409	289	259	245	1283	75	230	55	61	84	19	31	78	13	10	151	35	210	5519
13 Makakilo	48	32	30	141	14	7	30	88	40	47	31	112	9	29	11	11	12	-4	4	15	2	1	14	5	49	778
14 Waipahu	300	66	229	653	29	43	105	212	160	152	44	169	15	121	27	34	32	7	16	26	1	6	4	8	86	2545
15 Waiawa	261	57	189	617	25	39	94	205	144	105	41	162	15	134	-8	62	64	5	13	25	4	5	6	4	56	2324
16 Mililani	138	64	80	98	18	22	79	204	143	117	34	175	2	67	-2	67	59	9	5	36	5	12	8	-1	76	1515
17 Wahiawā Sc	51	9	24	28	12	5	21	56	51	31	18	43	2	12	-4	27	35	5	0	13	3	4	5	5	11	467
18 E Honolulu	-42	25	37	-1	11	-22	14	19	19	6	4	4	-1	7	1	-1	-1	2	2	12	2	1	-2	6	-2	100
19 Kāne'ohe	-89	-6	-22	8	-12	4	-8	64	4	37	6	10	-2	18	-1	0	5	-1	19	123	-5	0	0	0	-5	147
20 Kailua	-1	-6	-1	7	-32	7	-23	44	-3	11	-9	3	-1	0	3	3	0	-4	12	147	-4	1	-2	0	12	164
21 Ko'olauloa	8	3	1	0	-8	3	-3	24	1	1	0	5	0	6	-3	1	4	0	3	11	19	3	0	2	6	87
22 North Shor	30	31	26	37	12	9	21	63	27	12	10	18	-1	15	-1	10	26	1	0	21	-1	15	-1	3	36	419
23 Wai'anae	74	36	54	87	20	13	17	236	98	52	14	43	-4	45	18	12	19	5	7	26	3	1	49	7	79	1011
24 Mānoa	71	50	46	71	7	2	52	57	28	16	4	-2	-2	9	-4	2	-2	8	2	24	2	0	0	15	21	477
25 UHManoa	33	13	17	3	1	3	11	6	9	6	0	0	0	1	0	0	1	0	0	2	0	0	0	0	1	107
Totals	3161	1235	1583	3370	280	483	1610	3557	2109	1630	691	2977	161	1154	215	394	433	86	217	873	67	70	304	234	1061	27955

Table 86. 2030 Difference in Home Based Other Transit Trips: Fixed Guideway Combination 2 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table
Fixed Guideway Combination 2 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-26	24	38	15	19	-10	34	10	16	14	0	2	0	21	1	-1	-1	3	7	7	-1	-2	1	36	72	279
2 Kaka'ako	15	-27	33	14	-21	7	38	12	12	7	1	3	0	18	-3	0	0	-2	6	2	2	1	-2	62	36	214
3 Makiki	82	59	-26	11	-17	15	65	24	10	7	-3	3	0	28	2	3	0	-3	6	-2	0	1	2	13	38	318
4 Waikīkī	45	34	-13	-89	-68	8	38	4	3	11	0	4	0	14	0	-1	1	6	0	1	2	-2	0	19	4	21
5 Kaimukī Wa	28	1	-7	-17	-26	12	54	15	-9	10	-1	7	0	22	-2	1	1	8	7	2	3	0	-3	30	9	145
6 Kalihi Nuu	9	27	17	13	20	52	26	50	39	11	0	-2	0	43	3	5	3	-3	29	7	0	0	3	21	92	465
7 Iwilei	31	22	18	14	23	-10	-31	31	2	24	1	4	0	29	2	-1	-3	1	10	2	-1	0	1	8	78	255
8 Airport PH	33	3	7	7	21	14	36	71	41	31	-1	4	0	19	3	2	-1	-3	2	-1	4	0	0	6	50	348
9 SaltLake H	75	24	20	25	20	32	112	193	184	68	4	24	1	70	-3	8	-5	-7	17	2	7	-2	1	13	133	1016
10 PC 'Aiea	181	44	67	26	115	90	264	364	462	566	12	85	-1	291	43	30	24	4	46	15	13	2	8	22	360	3133
11 'Ewa	78	36	27	14	89	51	106	122	96	208	251	340	21	312	11	4	12	15	21	31	12	-4	31	40	547	2471
12 Kapolei	71	33	64	22	98	73	85	150	114	272	224	950	75	399	21	29	28	7	31	47	37	1	241	51	438	3561
13 Makakilo	14	0	6	9	20	10	22	49	24	67	9	59	12	96	5	8	5	-3	14	15	7	3	9	6	115	581
14 Waipahu	50	12	27	9	45	33	104	84	90	208	21	93	6	292	47	49	24	11	9	20	18	8	10	25	299	1594
15 Waiawa	55	13	28	13	50	28	65	65	96	167	19	83	4	259	58	127	36	2	12	13	16	7	5	7	169	1397
16 Mililani	48	2	0	10	41	23	42	20	47	27	4	80	-1	170	1	93	49	-1	21	5	5	4	9	8	244	951
17 Wahiawā Sc	17	1	9	6	24	-3	16	9	20	-7	3	37	-1	71	-1	28	83	1	7	7	10	5	0	13	99	454
18 E Honolulu	-4	-1	5	6	15	0	20	23	-1	9	-4	8	0	19	4	-2	-4	62	4	-2	2	0	-2	-9	-6	142
19 Kāne'ohe	-17	3	-15	-9	-19	2	-15	-6	5	9	2	14	1	39	-2	-5	3	-5	64	39	-11	-3	-4	-4	-34	32
20 Kailua	-3	-1	-10	-1	-20	12	-7	6	-10	4	3	4	-1	29	3	-2	3	-5	5	189	-1	-1	3	4	-8	195
21 Ko'olauloa	-4	5	-2	1	-6	2	2	2	1	1	-3	1	0	6	-5	-1	1	-2	0	8	17	-3	0	-1	1	21
22 North Shor	3	-4	2	8	19	8	13	-2	19	8	0	20	1	22	1	-6	5	-2	-2	3	4	20	-4	0	82	218
23 Wai'anae	13	8	11	16	21	11	27	22	13	30	11	12	-8	85	0	8	5	-4	2	1	-9	-1	76	6	181	537
24 Mānoa	22	28	32	13	37	3	47	14	14	0	0	0	0	17	-3	2	0	2	7	2	-1	1	1	38	86	362
25 UHManoa	15	4	10	-1	9	9	7	3	-1	2	0	0	0	-2	0	0	0	4	0	0	0	0	0	1	1	61
Totals	831	350	348	135	509	472	1170	1335	1287	1754	553	1835	109	2369	186	378	269	86	325	413	135	35	386	415	3086	18771

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Table 87. 2030 Difference in Non-Home Based Transit Trips: Fixed Guideway Combination 2 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table
Fixed Guideway Combination 2 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-66	48	27	28	18	-9	15	30	13	3	3	6	4	-2	0	3	-4	1	4	-4	5	-2	-2	7	8	134
2 Kaka'ako	25	-7	22	31	4	12	10	13	13	7	6	0	-1	-6	5	-1	1	-2	3	4	-1	5	-4	17	-10	146
3 Makiki	55	-6	-18	13	4	14	25	11	17	8	5	2	0	4	-3	-3	-1	4	-1	2	0	-2	1	7	6	144
4 Waikīkī	22	14	-6	-176	-7	7	9	4	-3	12	4	-4	2	1	0	1	0	2	3	-9	0	-3	5	-6	-3	-131
5 Kaimukī Wa	9	-8	3	-23	-34	-10	19	6	6	3	1	1	-1	-2	2	1	5	10	-5	4	2	-2	-2	7	3	-5
6 Kalihi Nuu	22	27	12	-3	1	-17	-4	14	0	27	0	5	0	0	1	1	1	0	-5	4	-2	3	-3	3	11	98
7 Iwilei	77	31	43	31	21	20	-85	31	55	41	2	-1	0	7	5	-3	3	4	1	-1	0	2	0	5	5	294
8 Airport PH	81	31	34	17	15	34	77	-76	65	61	4	14	-1	37	10	3	1	0	10	22	-5	5	2	1	7	449
9 SaltLake H	99	35	31	31	20	31	92	165	34	166	9	25	3	47	11	11	10	2	0	14	-1	3	8	1	14	861
10 PC 'Aiea	134	54	50	54	13	42	99	194	216	476	34	84	8	222	77	36	11	0	10	12	4	3	0	19	5	1857
11 'Ewa	2	2	14	5	-1	-6	8	16	11	27	37	59	9	19	7	1	-1	0	-8	1	-2	0	7	4	12	223
12 Kapolei	60	16	27	38	20	9	33	54	43	81	167	714	39	126	21	16	8	6	4	13	-2	-2	37	11	26	1565
13 Makakilo	6	-5	6	2	0	4	2	-1	-2	8	4	7	-2	6	2	1	1	3	-2	-2	-2	1	0	0	2	39
14 Waipahu	34	9	22	14	6	7	27	50	21	108	39	59	4	136	31	24	4	-1	2	0	-2	2	7	10	13	626
15 Waiawa	11	5	7	5	-4	4	11	25	9	40	10	29	-1	42	31	38	10	4	-1	1	2	0	2	5	6	291
16 Mililani	10	3	11	8	10	7	2	2	7	9	1	8	-1	0	7	14	17	-2	-3	7	9	-2	-1	-5	2	120
17 Wahiawā Sc	-2	-3	6	-1	4	2	3	3	12	-1	-5	6	1	4	-2	17	46	2	1	1	3	-1	6	-3	0	99
18 E Honolulu	-5	3	-2	1	9	-5	3	4	-6	-1	-5	5	1	6	0	4	-2	1	1	6	1	1	-7	-1	-7	5
19 Kāne'ohe	7	-1	-2	1	-11	5	-5	-3	2	7	3	1	1	-3	4	-3	1	0	89	9	-2	-3	3	-4	2	98
20 Kailua	-3	-6	1	0	-3	0	1	-7	2	0	10	-1	-2	0	1	-3	-2	-2	-7	13	-1	0	-5	-1	-2	-17
21 Ko'olauloa	-3	-1	1	1	-3	2	-2	1	0	0	-2	1	1	3	-3	0	0	-1	2	0	0	-1	-2	1	1	-4
22 North Shor	6	0	5	1	0	-3	1	2	-2	5	-3	5	-1	2	-1	2	-5	-2	-3	4	2	2	0	1	0	18
23 Wai'anae	7	1	3	14	-4	0	-7	16	6	10	6	-9	1	-3	0	5	0	-5	-7	1	-1	-1	13	3	5	54
24 Mānoa	23	-3	13	8	3	-5	3	11	4	2	2	-2	0	1	-1	-1	0	4	-4	-3	4	3	0	10	2	74
25 UHManoa	19	12	12	5	-10	3	9	7	4	1	2	-1	0	0	0	2	-2	-2	-1	2	0	1	1	8	-4	68
Totals	630	251	322	105	71	148	346	572	527	1100	334	1013	64	647	205	166	102	26	83	101	11	12	66	100	104	7106

Table 88. 2030 Difference in Visitor Transit Trips: Fixed Guideway Combination 2 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Visitor Transit Person P-A Trip Table
Fixed Guideway Combination 2 Option vs. No-Build Alternat

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	0	9	10	1	-5	1	-1	2	1	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	2	19
2 Kaka'ako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Makiki	39	-1	2	7	0	0	9	16	0	5	0	0	0	0	0	0	0	2	0	0	1	0	0	-1	1	80
4 Waikīkī	507	3	338	-302	-35	19	102	331	-2	117	0	0	0	2	0	0	0	-8	0	6	1	11	-3	0	39	1126
5 Kaimukī Wa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Kalihi Nuu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Iwilei	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	1
8 Airport PH	28	1	53	121	7	1	7	13	1	8	0	0	0	0	0	0	0	1	0	0	0	0	0	6	4	251
9 SaltLake H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PC 'Aiea	-2	-1	6	4	0	0	0	2	-2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
11 'Ewa	10	-2	10	15	1	2	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	50
12 Kapolei	40	2	62	128	8	0	6	47	0	19	0	0	0	0	0	0	0	3	0	0	0	0	0	4	5	324
13 Makakilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Waipahu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Waiawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Mililani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Wahiawā Sc	2	2	1	4	0	-1	-1	2	0	0	0	0	0	-1	0	0	2	0	0	0	0	0	0	0	0	10
18 E Honolulu	3	0	3	-5	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
19 Kāne'ohe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Kailua	0	0	-1	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3
21 Ko'olauloa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	2	0	0	0	1
22 North Shor	0	0	2	2	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23 Wai'anae	0	0	1	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
24 Mānoa	3	0	4	-1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	5
25 UHManoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	630	4	493	-14	-15	17	127	423	-1	150	0	0	0	1	0	0	2	-2	-1	6	1	13	-3	10	48	1889

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Table 89. 2030 Daily Total Transit Trips Fixed Guideway Combination 3 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 3 E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1983	1359	1259	640	487	874	1262	476	478	180	10	42	5	82	19	15	20	66	87	146	16	3	5	283	402	10199
2 Kaka'ako	2028	1315	1962	1124	611	717	1108	377	341	143	14	36	1	65	14	14	11	97	59	97	15	9	8	465	462	11093
3 Makiki	4434	2265	2991	2179	1981	668	1305	527	458	209	19	63	3	96	32	30	41	269	60	215	45	11	29	879	1226	20035
4 Waikīkī	5988	1614	3369	3108	2080	510	1026	1136	324	339	8	30	4	77	18	13	14	365	97	168	29	122	17	444	872	21772
5 Kaimukī Wa	2033	857	1780	1741	2649	378	652	263	246	127	9	43	3	58	15	23	17	479	52	62	10	2	9	544	848	12900
6 Kalihi Nuu	2888	1070	882	574	469	1739	2702	818	922	347	19	70	2	147	27	27	22	45	179	177	25	7	8	284	474	13924
7 Iwilei	1649	830	653	338	317	792	1572	748	722	329	15	49	4	94	25	18	14	26	77	56	6	13	6	177	320	8850
8 Airport PH	633	161	257	400	83	167	560	776	697	289	16	50	4	198	69	22	15	15	29	101	11	4	16	35	126	4734
9 SaltLake H	1476	474	512	314	251	484	1375	2112	2784	1030	57	154	9	351	96	64	50	40	89	131	28	14	33	93	502	12523
10 PC 'Aiea	1792	587	595	452	357	487	1524	2492	2723	4829	203	610	33	1581	529	342	217	47	161	183	65	24	63	146	872	20914
11 'Ewa	1552	648	793	1863	568	467	928	1290	1067	1491	4088	5230	281	2149	250	277	236	146	159	289	157	48	446	315	1797	26535
12 Kapolei	1235	508	686	1593	459	389	725	1065	863	1207	1686	8222	514	1392	209	245	208	130	132	256	153	41	1085	239	1490	24732
13 Makakilo	396	174	221	442	154	158	245	341	290	389	231	1388	167	330	47	75	50	47	49	97	49	12	331	104	468	6255
14 Waipahu	940	291	606	1258	226	246	544	766	691	1672	634	942	81	2864	587	511	280	57	76	138	63	40	81	145	761	14500
15 Waiawa	737	219	494	1017	186	162	423	575	568	1412	166	483	34	1338	1004	989	503	41	70	90	51	41	43	72	562	11280
16 Mililani	891	294	319	321	222	179	443	611	479	686	116	452	30	775	648	2877	1798	44	58	162	70	94	36	82	779	12466
17 Wahiawā Sc	494	149	207	170	126	72	212	247	197	209	44	173	6	260	172	972	1943	32	28	67	53	94	25	51	487	6490
18 E Honolulu	1158	449	824	741	1593	185	357	210	181	90	13	35	5	56	17	20	25	1715	39	196	23	9	11	238	596	8786
19 Kāne'ohe	990	268	229	203	111	324	451	322	299	202	14	88	3	104	29	21	28	17	2593	814	149	15	11	51	288	7624
20 Kailua	1674	391	335	276	179	304	391	304	237	177	25	79	9	109	34	27	31	73	682	3604	52	15	18	79	413	9518
21 Ko'olauloa	219	84	92	100	46	44	71	106	85	36	8	21	2	65	10	19	23	41	83	76	1216	59	5	30	100	2641
22 North Shor	301	124	145	165	93	71	163	172	132	142	22	75	6	87	49	146	360	17	33	55	234	1087	6	39	352	4076
23 Wai'anae	760	336	381	453	229	147	386	670	420	264	108	949	57	307	70	78	90	53	54	124	14	10	2674	100	813	9547
24 Mānoa	2300	1121	1567	958	830	526	791	283	285	123	8	36	2	56	16	15	10	101	38	139	12	4	8	745	760	10734
25 UHManoa	466	152	360	231	224	71	116	45	41	25	3	8	2	4	3	3	4	31	8	23	0	2	1	127	47	1997
Totals	39017	15740	21519	20661	14531	10161	19332	16732	15530	15947	7536	19328	1267	12645	3989	6843	6010	3994	4992	7466	2546	1780	4975	5767	15817	294125

Table 90. 2030 Peak Period Transit Trips Fixed Guideway Combination 3 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 3 E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1082	780	762	418	306	591	720	300	333	116	4	26	2	46	17	9	14	48	52	96	8	2	3	188	291	6214
2 Kaka'ako	1313	671	1147	760	413	511	733	274	237	100	8	24	1	41	10	7	8	68	38	74	7	6	3	343	322	7119
3 Makiki	2831	1357	1604	1313	1208	461	847	353	310	137	13	36	2	61	22	20	21	191	37	128	21	8	14	602	786	12383
4 Waikīkī	3170	920	1756	1575	1128	290	596	566	180	174	4	16	2	50	11	8	8	202	50	90	14	54	11	290	495	11660
5 Kaimukī Wa	1368	569	1159	1147	1514	237	416	180	155	87	4	28	1	41	10	11	13	332	30	40	7	1	6	390	525	8271
6 Kalihi Nuu	1907	658	538	363	286	1115	1611	552	578	231	9	43	1	85	14	18	15	28	116	112	12	2	5	160	328	8787
7 Iwilei	1037	507	412	227	181	528	794	487	439	187	9	34	2	48	15	13	9	18	41	39	3	8	4	108	218	5368
8 Airport PH	381	101	139	207	49	97	322	460	422	140	10	23	2	128	46	11	10	5	20	50	5	3	9	20	91	2751
9 SaltLake H	973	295	321	202	158	323	846	1326	1713	606	34	95	7	215	59	42	28	21	57	85	18	6	12	56	341	7839
10 PC 'Aiea	1281	409	410	321	238	335	1048	1743	1896	2860	123	421	19	965	322	238	152	29	120	136	51	15	41	96	629	13898
11 'Ewa	1123	470	573	1373	413	363	643	898	754	1032	2757	3439	187	1343	161	195	169	95	119	213	113	35	364	240	1357	18429
12 Kapolei	882	364	471	1125	338	310	497	725	623	879	1143	4876	305	899	136	176	157	88	89	193	115	28	926	187	1129	16661
13 Makakilo	286	121	164	328	112	129	174	242	207	303	162	874	104	221	30	56	41	39	33	72	36	5	284	90	371	4484
14 Waipahu	683	196	448	972	158	179	363	526	465	1044	417	590	54	1707	357	390	206	43	54	98	49	26	66	109	578	9778
15 Waiawa	539	148	357	775	131	111	283	390	379	910	106	327	26	866	548	742	388	29	51	65	39	26	30	49	405	7720
16 Mililani	622	214	229	240	143	130	308	433	325	444	73	300	23	510	396	1922	1253	29	41	96	43	73	25	54	574	8500
17 Wahiawā Sc	328	94	137	110	79	47	143	162	127	140	31	111	4	169	95	638	1133	14	16	37	30	74	8	32	353	4112
18 E Honolulu	797	302	555	503	989	130	239	141	133	47	5	18	2	44	10	12	14	1076	28	148	19	3	9	162	402	5788
19 Kāne'ohe	723	192	164	129	79	230	296	225	203	136	7	65	2	66	16	16	21	11	1588	559	103	5	1	33	184	5054
20 Kailua	1134	268	237	182	107	198	272	215	172	123	12	51	4	59	22	18	21	49	461	2317	34	7	9	52	274	6298
21 Ko'olauloa	152	57	54	65	25	29	47	67	45	20	3	12	1	33	7	10	17	21	42	41	852	38	4	17	70	1729
22 North Shor	220	87	103	106	65	46	111	109	84	87	15	45	3	60	36	94	249	9	20	27	163	701	4	31	251	2726
23 Wai'anae	536	237	254	312	147	92	259	457	271	148	66	615	35	216	47	49	52	38	22	78	1	4	1864	67	598	6465
24 Mānoa	1514	685	955	663	495	330	516	196	194	72	6	23	1	41	9	8	9	68	31	77	9	0	3	430	474	6809
25 UHManoa	265	99	203	129	130	41	74	28	27	12	2	7	0	4	3	1	1	16	5	10	0	0	1	70	26	1154
Totals	25147	9801	13152	13545	8892	6853	12158	11055	10272	10035	5023	12099	790	7918	2399	4704	4009	2567	3161	4881	1752	1130	3706	3876	11072	189997

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Table 91. 2030 Off-Peak Period Transit Trips Fixed Guideway Combination 3 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 3 E-MODEL
OffPeak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	890	593	509	222	184	281	522	184	149	64	6	16	3	20	2	6	6	17	29	53	4	1	2	83	143	3989
2 Kaka'ako	686	608	849	381	200	205	363	108	104	41	6	12	0	23	4	7	3	30	21	23	8	3	5	126	157	3973
3 Makiki	1576	903	1290	877	809	206	459	174	152	72	7	26	1	38	10	8	20	80	23	87	24	3	15	296	498	7654
4 Waikīkī	2813	691	1633	1521	942	220	434	572	143	164	5	14	1	27	7	4	6	164	47	77	15	68	6	158	384	10116
5 Kaimukī Wa	654	283	633	607	1092	140	235	82	94	40	5	15	2	20	5	12	4	153	21	22	3	1	2	160	347	4632
6 Kalihi Nuu	1024	412	342	213	180	574	1095	290	341	114	10	26	1	34	13	9	6	17	57	64	11	5	3	117	181	5139
7 Iwilei	628	323	242	111	136	277	739	297	261	143	6	13	2	29	10	5	5	8	31	17	0	5	2	69	123	3482
8 Airport PH	256	59	118	193	33	70	237	311	290	141	6	26	2	62	24	11	5	9	9	51	5	1	7	14	44	1984
9 SaltLake H	505	181	191	111	94	162	530	811	1071	398	23	57	3	111	37	22	22	18	29	46	9	8	21	37	187	4684
10 PC 'Aiea	518	177	186	131	118	152	474	792	894	1909	77	182	15	536	204	101	65	19	40	47	13	9	21	51	291	7022
11 'Ewa	429	181	220	490	151	103	286	396	320	459	1292	1776	86	821	91	83	66	51	29	70	16	9	83	75	524	8107
12 Kapolei	348	146	215	467	123	81	226	340	243	324	539	3335	177	495	73	71	49	41	38	61	20	7	173	53	428	8073
13 Makakilo	111	53	58	114	41	29	70	103	84	84	68	535	47	110	17	19	10	8	8	21	2	1	41	14	123	1771
14 Waipahu	254	96	161	308	69	67	180	245	233	658	202	311	27	1136	205	121	72	14	19	39	11	14	16	36	228	4722
15 Waiawa	198	70	138	254	55	51	141	189	193	518	53	137	9	478	440	228	117	12	18	25	10	15	11	23	177	3560
16 Mililani	268	81	90	81	79	48	138	182	157	242	33	120	6	261	253	911	591	15	15	66	19	21	11	29	250	3967
17 Wahiawā Sc	166	55	70	60	46	24	70	91	70	66	8	41	2	82	76	345	810	18	11	30	23	19	14	19	164	2380
18 E Honolulu	368	148	272	239	604	53	121	70	47	43	8	17	3	12	7	8	12	619	10	47	4	6	2	76	207	3003
19 Kāne'ohe	286	76	64	74	32	91	155	95	100	67	7	24	1	37	12	5	7	6	978	266	47	10	10	18	103	2571
20 Kailua	548	123	98	94	70	106	120	88	64	54	14	28	5	48	12	9	10	20	224	1290	18	8	9	26	137	3223
21 Ko'olauloa	67	27	37	34	20	15	24	39	39	17	5	8	1	32	3	10	5	20	31	33	374	22	1	14	35	913
22 North Shor	81	37	41	59	27	25	51	56	46	57	7	31	3	27	11	51	123	6	11	25	70	380	2	8	117	1352
23 Wai'anae	223	98	129	140	79	54	127	211	148	115	43	346	24	88	26	29	36	15	8	36	2	4	811	33	261	3086
24 Mānoa	793	438	629	304	314	188	267	88	94	50	2	11	1	16	7	7	1	33	7	62	3	4	5	285	317	3926
25 UHManoa	203	54	152	101	95	31	40	17	15	13	1	1	2	0	0	2	3	15	3	13	0	2	0	56	24	843
Totals	13893	5913	8367	7186	5593	3253	7104	5831	5352	5853	2433	7108	424	4543	1549	2084	2054	1408	1717	2571	711	626	1273	1876	5450	104172

Table 92. 2030 Journey to Work Home-Based Work Transit Trips Fixed Guideway Combination 3 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 3 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	447	329	412	294	98	147	334	247	199	83	2	18	2	17	14	7	11	13	27	63	3	1	2	52	50	2872
2 Kaka'ako	964	238	496	597	170	188	479	248	194	83	7	18	1	22	9	8	5	28	29	60	2	2	3	93	96	4040
3 Makiki	2112	881	841	758	410	257	593	311	269	116	11	27	2	27	18	16	6	62	25	70	3	3	2	162	161	7143
4 Waikīkī	1081	535	564	378	285	114	264	139	104	49	5	9	1	16	6	3	8	40	12	35	1	1	2	89	111	3852
5 Kaimukī Wa	1158	470	707	892	356	118	286	169	136	68	3	16	1	15	9	5	7	60	12	31	2	0	1	95	142	4759
6 Kalihi Nuu	1428	409	359	238	84	236	662	427	319	146	9	31	0	42	12	13	14	10	52	85	6	1	2	49	43	4677
7 Iwilei	551	272	237	159	57	114	213	306	225	90	6	16	0	22	12	6	8	4	24	29	1	1	1	27	26	2407
8 Airport PH	151	47	38	31	7	20	89	202	137	56	3	12	0	97	44	6	3	1	7	7	0	0	1	8	9	976
9 SaltLake H	669	202	193	142	49	126	382	729	658	278	16	52	5	103	49	21	20	8	29	43	5	1	1	23	39	3843
10 PC 'Aiea	1049	324	318	269	91	175	690	1156	906	839	91	300	16	412	202	118	117	14	65	85	7	8	15	33	135	7435
11 'Ewa	1112	426	486	1585	182	167	446	734	481	449	859	2424	127	441	112	121	147	37	53	123	16	18	214	74	454	11288
12 Kapolei	794	310	356	1174	137	126	342	573	400	372	489	2577	144	363	86	113	113	25	41	102	19	14	271	60	351	9352
13 Makakilo	271	102	120	379	37	39	106	171	100	93	96	527	39	77	21	25	31	8	8	29	5	2	51	14	113	2464
14 Waipahu	645	153	436	1138	47	63	210	380	242	365	178	400	30	484	173	109	117	12	18	45	4	10	15	25	133	5432
15 Waiawa	542	127	350	935	52	57	179	329	243	350	85	266	17	329	266	185	185	8	24	40	5	15	10	13	104	4716
16 Mililani	541	201	206	232	64	90	229	420	273	353	81	281	19	202	208	514	581	11	23	58	12	50	11	25	171	4856
17 Wahiawā Sc	221	69	80	86	29	23	94	147	102	109	32	92	4	62	62	229	477	6	7	27	8	37	7	15	69	2094
18 E Honolulu	657	279	415	432	292	70	167	133	106	44	5	13	2	12	7	7	9	195	19	70	3	1	1	52	101	3092
19 Kāne'ohe	634	164	139	110	28	112	214	228	158	101	8	32	1	33	21	11	14	8	319	270	21	4	0	17	42	2689
20 Kailua	865	230	198	157	49	123	195	228	138	98	9	21	4	25	18	11	11	25	177	693	6	3	3	24	41	3352
21 Ko'olauloa	141	44	41	47	6	15	25	52	26	8	0	6	1	8	5	4	13	1	35	19	283	26	0	8	31	845
22 North Shor	211	81	82	102	27	24	81	105	55	48	12	30	1	30	33	55	160	6	10	23	64	183	2	12	88	1525
23 Wai'anae	509	197	231	262	73	67	176	464	203	109	52	464	23	129	39	29	43	13	20	46	3	1	355	37	216	3761
24 Mānoa	1170	496	548	547	197	154	352	199	160	65	5	15	0	14	7	9	8	25	19	49	2	0	1	98	101	4241
25 UHManoa	139	63	89	75	31	18	45	24	15	11	1	4	0	1	1	0	1	5	3	5	0	0	0	15	4	550
Totals	18062	6649	7942	11019	2858	2643	6853	8121	5849	4383	2065	7651	440	2983	1434	1625	2109	625	1058	2107	481	382	971	1120	2831	102261

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Table 93. 2030 Home-Based Other Transit Trips Fixed Guideway Combination 3 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 3 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	384	451	365	119	265	470	576	123	196	50	1	11	0	51	1	4	5	36	34	28	8	0	0	164	310	3652
2 Kaka'ako	502	529	659	280	354	397	490	84	104	34	0	12	0	33	2	0	3	48	24	20	6	4	2	299	324	4210
3 Makiki	1088	853	1118	564	1227	299	548	89	129	33	2	23	1	59	6	5	3	136	28	25	9	4	4	504	760	7517
4 Waikīkī	539	498	923	350	937	98	201	35	48	22	1	14	0	23	3	7	2	48	12	13	6	2	1	198	382	4363
5 Kaimukī Wa	440	251	737	522	1425	162	258	63	75	36	0	22	0	32	3	8	4	259	16	18	6	1	2	366	529	5235
6 Kalihi Nuu	937	383	354	144	294	1180	1424	313	488	152	2	25	1	91	8	6	5	23	90	58	13	2	4	167	387	6551
7 Iwilei	376	201	153	60	151	414	437	211	268	70	0	20	0	52	2	3	1	11	32	12	3	1	1	62	237	2778
8 Airport PH	82	18	21	19	34	40	132	239	167	74	0	12	0	38	1	2	0	1	6	4	8	0	0	6	102	1006
9 SaltLake H	370	100	124	69	140	239	640	876	1425	347	6	47	1	151	6	12	5	12	41	27	13	4	11	46	396	5108
10 PC 'Aiea	435	120	154	91	231	243	614	899	1275	2290	35	173	1	714	135	131	51	22	80	63	51	8	21	80	715	8632
11 'Ewa	370	191	241	174	372	288	456	503	541	960	2782	2419	127	1457	111	138	83	89	102	162	139	26	218	204	1319	13472
12 Kapolei	261	137	188	133	281	229	313	355	392	677	750	3214	224	780	70	96	71	72	79	134	123	18	739	164	1096	10596
13 Makakilo	108	69	93	57	114	116	133	162	185	285	114	767	111	236	20	49	18	35	41	67	44	9	275	89	354	3551
14 Waipahu	209	97	127	83	166	159	249	303	370	912	266	354	30	1613	265	317	133	35	50	81	54	23	48	90	611	6645
15 Waiawa	166	74	96	64	129	95	179	216	267	909	56	167	15	846	595	678	275	26	40	44	44	19	25	54	452	5531
16 Mililani	256	59	88	65	149	76	193	159	172	239	22	137	6	496	333	1960	953	26	30	37	48	38	17	52	566	6177
17 Wahiawā Sc	121	44	51	55	85	39	89	80	76	69	8	61	2	177	72	568	988	10	17	30	39	41	13	28	411	3174
18 E Honolulu	282	143	336	223	1108	100	166	56	64	38	2	18	2	37	5	8	9	1198	16	114	15	6	7	168	451	4572
19 Kāne'ohe	246	60	73	42	80	179	200	75	108	71	2	33	0	65	1	8	10	5	1613	440	88	2	4	29	231	3665
20 Kailua	480	87	87	63	111	139	160	52	80	56	4	36	2	69	8	8	13	40	363	2193	37	4	7	42	352	4493
21 Ko'olauloa	50	32	41	40	32	23	40	40	45	22	6	9	1	14	4	10	7	11	30	34	771	13	2	20	65	1362
22 North Shor	68	36	51	53	62	42	68	60	69	38	6	33	3	49	11	79	168	10	20	25	159	710	3	25	256	2104
23 Wai'anae	170	115	127	126	144	69	186	152	160	119	44	417	29	168	22	39	40	36	33	72	11	6	2008	60	580	4933
24 Mānoa	683	499	760	280	526	262	396	69	101	41	0	16	0	37	3	3	2	57	16	20	10	0	1	494	514	4790
25 UHManoa	81	35	81	39	83	23	39	4	12	4	0	0	1	1	0	0	0	13	1	1	0	0	0	40	5	463
Totals	8704	5082	7048	3715	8500	5381	8187	5218	6817	7548	4109	8040	557	7289	1687	4139	2849	2259	2814	3722	1705	941	3413	3451	11405	124580

Table 94. 2030 Non-Home Based Transit Trips Fixed Guideway Combination 3 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 3 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1063	535	357	127	82	219	348	68	70	43	7	13	3	14	4	4	4	17	20	23	5	2	3	67	31	3129
2 Kaka'ako	562	548	673	187	85	117	139	41	39	24	7	6	0	10	3	6	3	14	6	17	7	3	3	71	40	2611
3 Makiki	472	501	924	428	222	94	143	32	40	32	6	13	0	10	8	9	1	23	7	19	8	4	11	185	127	3319
4 Waikīkī	114	172	304	669	187	22	40	17	16	8	2	7	3	1	9	3	4	10	4	11	4	1	7	37	37	1689
5 Kaimukī Wa	157	130	258	279	618	54	68	31	35	23	6	5	2	9	3	10	6	111	8	13	2	1	6	73	125	2033
6 Kalihi Nuu	374	142	108	44	40	236	318	66	98	48	8	14	1	14	7	8	3	12	17	16	6	4	2	24	21	1631
7 Iwilei	578	225	146	77	64	231	799	231	229	162	9	13	4	20	11	9	5	11	21	11	2	4	4	36	23	2925
8 Airport PH	175	74	69	38	30	77	306	272	352	145	9	26	4	63	24	14	12	9	16	72	3	4	15	20	11	1840
9 SaltLake H	217	92	91	43	44	110	300	499	598	396	24	47	3	88	41	31	17	12	19	60	10	9	21	19	23	2814
10 PC 'Aiea	215	107	75	73	35	69	196	341	513	1685	77	137	16	455	192	93	44	11	16	35	7	8	27	16	22	4465
11 'Ewa	56	28	21	34	12	12	22	40	37	71	447	387	27	251	27	18	6	11	4	4	2	4	14	5	23	1563
12 Kapolei	102	55	55	60	31	28	56	90	71	136	447	2431	146	249	53	36	24	29	12	20	11	9	75	13	38	4277
13 Makakilo	14	3	8	6	3	3	6	8	5	11	21	94	17	17	6	1	1	4	0	1	0	1	5	1	1	237
14 Waipahu	74	37	43	37	13	24	45	83	79	367	190	188	21	727	149	85	30	10	8	12	5	7	18	9	17	2278
15 Waiawa	29	18	18	18	5	10	25	30	38	153	25	50	2	163	143	126	43	7	6	6	2	7	8	5	6	943
16 Mililani	45	22	25	24	9	9	21	32	34	66	13	34	5	77	107	403	207	7	5	11	10	6	8	5	14	1199
17 Wahiawā Sc	20	15	18	10	6	7	14	16	19	27	4	20	0	20	38	175	333	4	4	7	6	16	5	8	7	799
18 E Honolulu	74	27	47	40	124	13	24	19	11	8	6	4	1	7	5	5	7	278	4	12	5	2	3	11	11	748
19 Kāne'ohe	71	25	17	15	3	27	37	15	33	30	4	23	2	6	7	2	4	4	632	86	13	0	7	5	3	1071
20 Kailua	143	30	29	22	15	28	27	20	19	21	12	22	3	15	8	8	7	8	100	622	9	8	8	9	7	1200
21 Ko'olauloa	16	8	9	7	8	6	6	5	14	6	2	6	0	6	1	5	3	1	9	9	102	7	3	2	4	245
22 North Shor	14	7	10	7	4	5	10	7	8	11	4	12	2	8	5	12	12	1	3	7	9	105	1	2	6	272
23 Wai'anae	44	24	21	31	12	11	19	24	22	27	12	68	5	10	9	10	7	4	1	6	0	3	311	3	17	701
24 Mānoa	153	100	211	81	50	50	43	15	18	9	3	5	2	5	6	3	0	9	3	8	0	4	6	114	66	964
25 UHManoa	75	52	124	55	102	22	32	13	14	8	2	4	1	2	2	3	3	13	4	3	0	2	1	72	21	630
Totals	4857	2977	3661	2412	1804	1484	3044	2015	2412	3517	1347	3629	270	2247	868	1079	786	620	929	1091	228	221	572	812	701	43583

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Table 95. 2030 Visitor Transit Trips Fixed Guideway Combination 3 Option (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway Combination 3 E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	125	100	42	38	4	38	13	4	0	0	0	0	0	0	0	0	6	32	0	0	0	0	11	546
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	762	30	108	429	122	18	21	95	20	28	0	0	0	0	0	0	31	48	0	101	25	0	12	28	178	2056
4 Waikīkī	4254	409	1578	1711	671	276	521	945	156	260	0	0	0	37	0	0	0	267	69	109	18	118	7	120	342	11868
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	117	42	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	34	740
8 Airport PH	225	22	129	312	12	30	33	63	41	14	4	0	0	0	0	0	0	4	0	18	0	0	0	1	4	912
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	93	36	48	19	0	0	24	96	29	15	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	382
11 'Ewa	14	3	45	70	2	0	4	13	8	11	0	0	0	0	0	0	0	9	0	0	0	0	0	32	1	212
12 Kapolei	78	6	87	226	10	6	14	47	0	22	0	0	0	0	0	0	0	4	0	0	0	0	0	2	5	507
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	132	21	58	19	6	3	15	4	0	4	0	0	0	1	0	0	145	12	0	3	0	0	0	0	0	423
18 E Honolulu	145	0	26	46	69	2	0	2	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	7	33	374
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	21	34	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	473
21 Ko'olauloa	12	0	1	6	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	60	13	0	0	0	189
22 North Shor	8	0	2	3	0	0	4	0	0	45	0	0	0	0	0	0	20	0	0	0	2	89	0	0	2	175
23 Wai'anae	37	0	2	34	0	0	5	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
24 Mānoa	294	26	48	50	57	60	0	0	6	8	0	0	0	0	0	0	0	10	0	62	0	0	0	39	79	739
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7394	1032	2868	3515	1369	653	1248	1378	452	499	15	8	0	126	0	0	266	490	191	546	132	236	19	384	880	23701

Table 96. 2030 Difference in Daily Transit Trips: Fixed Guideway Combination 3 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Transit Person P-A Trip Table
Fixed Guideway Combination 3 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	32	113	93	52	27	6	59	77	26	20	2	5	4	35	2	4	2	5	13	29	3	-3	-6	47	95	742
2 Kaka'ako	94	-167	134	8	15	53	159	98	46	39	6	5	-2	27	-4	1	0	1	11	36	4	7	-5	96	85	747
3 Makiki	279	227	160	42	-73	26	229	146	74	49	3	25	1	47	7	1	-1	3	13	44	-7	1	8	71	94	1469
4 Waikīkī	194	-8	-66	-163	3	27	134	288	22	128	1	2	3	6	5	2	5	14	3	20	4	-5	3	-43	87	666
5 Kaimukī Wa	122	111	54	71	-10	50	131	107	45	48	3	6	0	23	1	10	2	13	-2	25	2	-3	-1	64	55	927
6 Kalihi Nuu	81	97	90	21	67	51	40	175	93	76	7	15	1	55	4	8	5	2	30	41	6	1	-2	35	138	1137
7 Iwilei	133	152	119	83	66	-7	-126	144	123	87	4	8	2	39	1	1	0	1	19	20	-1	2	-4	35	106	1007
8 Airport PH	200	73	125	182	40	50	164	62	187	131	3	27	0	117	36	5	6	4	13	19	0	2	7	17	70	1540
9 SaltLake H	300	142	153	96	59	103	362	647	339	343	23	71	6	162	26	32	7	0	24	42	13	3	11	24	194	3182
10 PC 'Aiea	863	319	303	256	183	231	799	1242	1185	1334	97	327	12	755	178	124	70	11	71	110	31	9	20	67	500	9097
11 'Ewa	681	297	359	895	276	190	466	723	548	677	1039	2067	138	882	101	103	85	54	65	142	47	18	182	111	1035	11181
12 Kapolei	579	260	369	931	212	153	343	683	477	637	730	3544	216	758	102	113	113	52	53	139	47	12	426	96	771	11816
13 Makakilo	76	43	63	142	35	19	64	157	76	124	64	209	19	137	20	35	13	4	14	27	-1	5	23	15	195	1578
14 Waipahu	371	114	300	591	75	78	221	368	287	490	93	294	35	611	128	109	76	22	21	55	22	18	8	33	430	4850
15 Waiawa	305	95	230	569	73	65	165	281	275	301	63	248	19	461	104	247	110	14	33	35	24	18	2	16	252	4005
16 Mililani	160	73	94	99	86	51	121	244	193	153	41	224	10	256	46	192	130	7	14	46	24	17	10	12	347	2650
17 Wahiawā Sc	53	10	39	35	39	-2	46	90	69	28	15	74	0	88	-2	72	168	5	6	20	19	8	6	15	137	1038
18 E Honolulu	-57	68	58	31	60	-30	38	55	14	3	0	6	3	34	3	8	0	74	-7	31	0	2	-10	6	20	410
19 Kāne'ohe	-102	-16	-24	-30	-45	8	-20	61	8	47	1	27	0	50	6	-3	14	-6	178	171	-25	-7	1	-8	-24	262
20 Kailua	-5	-8	5	-14	-58	3	-21	56	-28	18	2	7	0	21	11	2	2	-9	11	350	-3	7	-8	9	0	350
21 Ko'olauloa	1	6	3	-4	-15	2	-5	20	16	-2	-2	0	0	17	-8	0	4	-3	5	19	34	0	0	6	6	100
22 North Shor	39	32	27	36	43	16	33	60	33	32	9	46	2	36	0	1	29	-3	-5	27	5	38	-9	6	128	661
23 Wai'anae	18	50	40	56	37	4	40	231	104	71	21	85	-10	113	20	18	25	-8	0	27	-10	-1	132	17	249	1329
24 Mānoa	122	95	90	76	45	12	102	77	71	30	6	-6	0	27	-3	3	-1	3	-3	30	1	2	4	100	121	1004
25 UHManoa	61	40	53	26	6	15	30	19	8	10	1	3	1	-3	-2	3	1	5	1	3	-1	1	0	11	-2	290
Totals	4600	2218	2871	4087	1246	1174	3574	6111	4291	4874	2232	7319	460	4754	782	1091	865	265	581	1508	238	152	798	858	5089	62038

AR00066450

Table 97. 2030 Difference in Peak Period Transit Trips: Fixed Guideway Combination 3 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Peak Transit Person P-A Trip Table
Fixed Guideway Combination 3 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	12	62	56	47	19	7	3	30	37	-4	-2	2	1	27	7	2	2	8	-2	31	0	-1	0	34	82	460
2 Kaka'ako	68	-91	95	18	10	20	104	76	33	30	2	4	-1	13	-2	-3	5	-3	2	30	2	4	-1	62	61	538
3 Makiki	162	151	101	37	-69	18	140	109	46	34	3	16	1	31	5	1	3	8	1	31	-8	4	4	82	81	992
4 Waikīkī	73	-14	-43	-95	5	17	88	145	10	65	2	-1	2	10	4	0	3	10	4	14	1	-3	4	-4	34	331
5 Kaimukī Wa	96	87	31	44	-16	18	83	66	28	34	1	9	1	16	3	4	2	21	-5	20	1	-3	4	73	35	653
6 Kalihi Nuu	65	81	47	20	48	53	9	132	55	55	1	5	1	35	-5	6	1	7	15	32	-1	-2	2	2	99	763
7 Iwilei	104	102	85	58	26	-6	-62	101	47	40	2	12	2	22	-2	1	2	1	-1	20	-2	2	-1	26	79	658
8 Airport PH	136	48	70	103	24	29	101	58	139	58	3	8	1	72	26	1	6	1	10	11	2	2	6	7	54	976
9 SaltLake H	206	96	114	73	33	81	233	455	219	194	14	45	6	103	22	23	3	-2	14	33	10	-2	1	19	135	2128
10 PC 'Aiea	631	241	225	187	116	157	565	885	864	763	57	238	5	440	109	89	59	8	53	88	22	6	9	57	360	6234
11 'Ewa	488	226	280	670	212	149	335	526	410	473	748	1474	89	583	76	74	50	28	54	119	26	16	142	94	777	8119
12 Kapolei	430	192	255	677	166	120	237	473	356	462	505	2226	126	489	70	87	92	28	35	121	29	10	365	78	586	8215
13 Makakilo	56	27	50	106	28	12	47	113	39	102	47	144	19	91	13	29	10	2	6	17	-5	2	13	21	154	1143
14 Waipahu	271	84	215	480	49	52	157	262	220	325	68	188	26	370	82	78	52	18	19	39	19	9	9	28	313	3433
15 Waiawa	225	60	176	437	52	47	120	209	195	201	31	174	15	302	50	182	87	10	23	30	19	12	-4	13	191	2857
16 Mililani	110	54	66	92	50	37	102	179	135	107	27	158	10	173	34	145	95	5	13	30	11	18	6	5	266	1928
17 Wahiawā Sc	42	1	32	20	24	-3	35	60	49	20	14	58	-1	58	-4	50	82	1	6	10	9	11	0	12	106	692
18 E Honolulu	-59	41	47	22	37	-19	20	37	20	-8	0	-2	0	31	0	3	3	38	-9	25	5	-1	-4	5	18	250
19 Kāne'ohe	-78	-11	-12	-27	-28	15	-23	41	13	32	1	23	0	27	-2	-3	14	-1	109	137	-21	-3	-2	-10	-32	159
20 Kailua	-11	1	8	-16	-37	-11	-21	26	-13	28	-4	8	2	4	9	-2	6	-10	6	277	-3	2	-1	10	5	263
21 Ko'olauloa	-2	3	1	2	-11	1	1	17	9	-2	-2	-1	1	11	-1	0	5	-2	0	10	25	-2	1	7	7	78
22 North Shor	21	26	20	24	33	12	25	35	21	24	8	26	0	28	5	3	22	-1	-4	15	3	27	-2	10	87	468
23 Wai'anae	7	38	27	37	30	-4	27	180	82	44	6	66	-2	92	20	7	13	5	-4	27	-13	0	85	15	175	960
24 Mānoa	80	73	74	71	11	5	75	58	52	15	4	-9	-1	25	-5	-1	3	-1	5	17	3	-2	2	58	87	699
25 UHManoa	29	28	31	16	5	6	17	10	9	4	0	4	-1	3	1	1	0	0	0	0	0	0	0	15	-2	176
Totals	3162	1606	2051	3103	817	813	2418	4283	3075	3096	1536	4875	302	3056	515	777	620	179	350	1184	134	106	638	719	3758	43173

Table 98. 2030 Difference in Off-Peak Transit Trips: Fixed Guideway Combination 3 vs. No Build Alternative

HHCTP Study
Year 2030 TSM E-MODEL
OffPeak Transit Person P-A Trip Table
Fixed Guideway Combination 3 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	19	58	48	4	10	3	29	50	-9	22	4	4	3	6	-4	2	0	-3	9	1	0	-2	-6	16	22	286
2 Kaka'ako	9	-80	64	-7	2	32	45	26	15	7	3	1	-1	13	-3	4	-5	5	9	7	2	3	-4	32	29	208
3 Makiki	107	70	50	4	14	9	88	35	33	13	1	8	0	19	4	-1	-3	-6	13	13	1	-3	4	-3	9	479
4 Waikīkī	126	4	-22	-70	-1	11	50	146	9	64	0	2	0	-5	2	1	2	5	-1	6	3	-2	-1	-35	47	341
5 Kaimukī Wa	34	17	22	17	-3	31	45	38	17	18	2	-3	-1	10	-1	6	0	-6	2	5	1	0	-6	0	30	275
6 Kalihi Nuu	35	18	38	2	15	0	18	61	34	14	6	12	0	4	8	2	4	-5	10	10	5	3	-4	33	53	376
7 Iwilei	35	52	33	25	41	3	-73	58	60	49	2	-5	0	14	3	0	-2	0	15	1	-2	0	-3	10	33	349
8 Airport PH	67	25	55	82	14	21	62	-7	64	66	0	18	-1	41	11	4	0	3	3	8	-3	0	1	9	22	565
9 SaltLake H	97	48	39	22	27	21	130	215	108	138	9	24	1	54	4	8	4	1	6	6	2	5	10	5	69	1053
10 PC 'Aiea	239	77	77	69	65	73	231	399	346	542	38	83	8	257	68	35	12	4	17	22	8	3	10	11	173	2867
11 'Ewa	193	74	79	224	59	42	133	200	144	205	284	579	39	305	27	31	30	26	0	18	-5	-2	47	16	312	3060
12 Kapolei	145	74	112	253	50	34	104	210	124	175	222	1302	69	268	33	28	19	24	17	17	2	-1	78	19	224	3602
13 Makakilo	21	17	13	37	7	7	16	49	38	20	18	63	-3	47	7	6	4	2	0	7	-4	-1	16	-6	54	435
14 Waipahu	96	31	88	125	27	26	62	111	76	175	15	84	9	232	30	30	21	4	0	17	1	10	-1	5	143	1417
15 Waiawa	79	34	56	141	21	18	47	79	80	108	24	66	5	150	50	54	26	4	10	5	3	6	4	3	74	1147
16 Mililani	48	20	28	7	36	13	23	67	61	46	6	59	-2	70	16	44	38	2	0	16	5	-1	5	8	108	723
17 Wahiawā Sc	12	10	8	15	14	0	12	37	21	3	0	14	1	23	-1	28	79	3	-1	10	15	-3	4	3	40	347
18 E Honolulu	2	29	11	6	25	-13	22	20	-8	11	0	7	3	3	3	5	-2	41	2	3	-5	2	-6	0	3	164
19 Kāne'ohe	-19	-6	-13	-3	-17	-10	3	16	-1	15	0	6	0	21	6	-1	0	-5	66	47	-5	-4	3	3	-1	101
20 Kailua	5	-9	-4	2	-21	13	2	30	-16	-8	7	-2	-2	15	2	4	-5	-1	7	80	0	5	-7	0	-7	90
21 Ko'olauloa	3	3	2	-6	-4	1	-6	2	7	1	0	-1	-1	6	-7	2	-2	-1	3	7	8	3	-1	0	3	22
22 North Shor	18	6	8	12	9	3	8	17	12	10	1	22	2	8	-6	-4	9	-4	-3	10	18	8	-7	-4	41	194
23 Wai'anae	10	11	15	18	6	7	15	54	23	22	17	24	-7	21	2	11	9	-11	-12	5	-4	-2	43	2	94	373
24 Mānoa	42	19	19	3	25	16	27	18	24	15	2	1	1	3	0	4	-2	4	-6	13	-2	4	2	35	39	306
25 UHManoa	34	13	20	9	0	10	10	9	0	5	1	-1	2	-6	-2	2	1	7	1	2	-1	1	0	-2	-1	114
Totals	1457	615	846	991	421	371	1103	1940	1262	1736	662	2367	125	1579	252	305	237	93	167	336	43	32	181	160	1613	18894

Table 99. 2030 Difference in Home Based Work Transit Trips: Fixed Guideway Combination 3 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table
Fixed Guideway Combination 3 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-4	36	32	24	2	2	12	41	15	10	-2	4	1	9	1	0	0	0	2	24	0	1	1	17	9	237
2 Kaka'ako	55	-4	37	1	3	14	69	64	35	23	1	6	-1	8	-1	0	1	1	3	26	1	0	1	24	26	393
3 Makiki	148	148	109	28	-34	23	94	96	54	32	2	17	1	10	3	0	0	3	4	30	-3	2	1	16	28	812
4 Waikīkī	-34	-8	-30	-48	5	7	30	39	13	15	3	2	1	1	-1	0	2	5	1	16	0	0	0	2	23	44
5 Kaimukī Wa	105	88	32	54	8	20	75	77	35	30	1	6	1	1	2	2	-5	-2	-4	17	2	-1	1	15	31	591
6 Kalihi Nuu	49	47	51	20	12	20	-6	129	46	32	3	9	0	16	-4	4	6	0	9	35	3	-3	-1	17	8	502
7 Iwilei	57	69	54	38	17	-2	-11	85	43	20	0	7	0	6	-2	0	2	-3	3	16	0	0	0	6	10	415
8 Airport PH	86	30	26	19	2	7	44	85	86	26	2	10	0	62	27	1	1	1	3	4	0	0	1	5	6	534
9 SaltLake H	174	77	80	63	18	32	137	314	128	111	8	28	5	55	11	8	8	4	10	23	4	0	-1	14	21	1332
10 PC 'Aiea	574	209	193	175	52	110	428	677	489	300	44	188	12	222	58	54	39	11	35	72	5	3	9	28	90	4077
11 'Ewa	553	236	287	835	127	108	277	511	351	287	337	1266	71	221	61	63	78	29	38	98	13	11	120	50	321	6349
12 Kapolei	434	193	217	743	95	74	207	420	299	259	290	1464	74	239	51	73	73	17	30	88	12	9	153	42	242	5798
13 Makakilo	55	39	44	133	18	15	37	99	50	50	36	136	11	31	13	14	18	-1	3	17	2	2	13	4	59	898
14 Waipahu	291	76	244	573	23	31	110	240	159	157	48	167	15	133	34	35	40	9	6	32	2	1	4	16	87	2533
15 Waiawa	252	65	189	549	28	33	96	204	155	102	40	156	14	138	-1	67	66	5	15	27	3	7	4	4	60	2278
16 Mililani	111	71	74	90	25	31	73	204	147	117	35	162	9	77	11	72	62	4	5	36	7	12	4	6	81	1526
17 Wahiawā Sc	44	5	30	19	14	-2	28	65	45	28	18	43	1	16	-7	33	37	4	0	13	3	4	3	8	14	466
18 E Honolulu	-41	45	50	23	13	-19	7	30	24	6	4	1	1	6	1	3	4	4	-1	13	0	1	-2	6	6	185
19 Kāne'ohe	-86	-10	-15	-18	-15	-1	-3	70	6	30	4	10	-2	15	3	3	11	0	24	123	-13	2	-1	-1	-4	132
20 Kailua	-3	1	8	-10	-31	-1	-22	57	-10	12	-4	-1	3	-6	6	2	2	-2	19	141	-6	3	0	3	0	161
21 Ko'olauloa	8	4	2	-1	-10	0	-6	22	7	0	-1	3	1	8	-1	1	5	0	3	11	18	1	0	5	4	84
22 North Shor	26	33	19	30	17	8	21	64	18	18	7	20	0	14	4	5	28	1	0	20	-1	16	0	8	39	415
23 Wai'anae	6	36	37	35	22	9	10	209	81	39	7	70	1	47	15	7	14	2	6	23	2	1	45	14	68	806
24 Mānoa	81	74	48	49	18	8	63	70	35	21	4	-3	-2	6	-4	1	-1	3	-1	24	1	-1	1	23	21	539
25 UHManoa	25	20	22	11	0	4	12	10	2	7	0	3	0	1	-1	0	1	0	0	3	0	0	0	2	2	124
Totals	2966	1580	1840	3435	429	531	1782	3882	2313	1732	887	3774	217	1336	279	448	492	95	213	932	55	71	356	334	1252	31231

Table 100. 2030 Difference in Home Based Other Transit Trips: Fixed Guideway Combination 3 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table
Fixed Guideway Combination 3 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-7	41	23	8	21	2	29	10	17	6	1	-4	0	23	1	2	2	5	8	6	0	-2	-2	27	85	302
2 Kaka'ako	15	-87	66	9	8	17	69	16	7	8	0	3	0	19	-3	-1	0	-3	8	1	1	4	-1	59	64	279
3 Makiki	55	74	17	12	-26	8	76	18	17	1	-2	6	1	29	5	0	1	2	11	6	-4	1	0	36	63	407
4 Waikīkī	-4	4	-24	-24	-4	7	25	-5	7	10	-1	2	0	9	0	3	1	-3	1	4	1	-1	1	16	36	61
5 Kaimukī Wa	26	9	22	10	-4	23	43	20	-3	13	-1	7	0	21	0	5	3	6	7	3	0	0	-2	45	20	273
6 Kalihi Nuu	8	26	23	2	50	52	45	39	43	26	1	-4	0	37	4	1	0	1	25	10	2	1	2	18	118	530
7 Iwilei	27	36	21	13	31	-8	-36	26	25	20	0	3	0	29	2	-1	-3	0	12	4	-1	0	0	14	89	303
8 Airport PH	28	7	11	10	16	13	35	67	39	34	-1	3	0	20	1	2	-1	-2	1	1	5	-1	0	2	56	346
9 SaltLake H	47	24	27	14	30	38	123	187	180	68	4	19	1	72	-3	5	-8	-4	11	3	5	0	2	8	157	1010
10 PC 'Aiea	164	42	60	27	115	88	260	373	478	558	13	67	-5	303	40	37	17	3	36	17	22	3	1	30	400	3149
11 'Ewa	103	46	49	15	146	82	178	173	173	352	607	669	48	571	26	31	12	17	33	47	36	6	56	57	695	4228
12 Kapolei	69	37	66	21	94	64	97	155	131	282	234	1092	89	388	25	27	32	10	24	42	31	1	240	47	497	3795
13 Makakilo	12	11	12	7	16	1	23	55	28	71	18	70	9	100	3	21	-5	2	13	13	-1	2	9	11	135	636
14 Waipahu	52	23	27	3	51	40	90	83	100	215	13	76	9	327	54	53	30	9	12	22	20	13	2	9	331	1664
15 Waiawa	44	21	32	11	50	29	56	60	108	159	13	68	8	280	74	139	32	4	16	10	21	7	-3	9	189	1437
16 Mililani	44	0	6	6	56	15	47	35	38	24	7	53	0	176	26	103	51	2	12	4	9	9	6	7	261	997
17 Wahiawā Sc	16	3	4	9	25	0	11	21	15	-3	2	23	0	75	1	24	82	-1	5	4	12	5	0	6	121	460
18 E Honolulu	-12	21	7	5	35	-6	22	11	-5	3	-2	2	1	23	0	2	-2	65	-5	13	-3	0	-2	3	19	195
19 Kāne'ohe	-20	-7	-6	-14	-18	7	-17	-2	-4	7	-1	9	0	40	-1	-3	3	-6	69	39	-11	-5	-1	-5	-20	33
20 Kailua	3	-4	-3	0	-24	6	-4	3	-14	8	0	4	-1	27	4	1	2	-5	3	193	1	2	1	6	2	211
21 Ko'olauloa	-3	3	-1	-1	-4	1	2	0	3	-1	1	-3	0	6	-4	-1	0	-2	0	8	15	-1	0	0	2	20
22 North Shor	8	-1	1	6	24	9	10	-4	17	10	2	18	2	19	-3	-5	7	-2	-2	3	4	19	-7	-1	88	222
23 Wai'anae	11	12	7	11	14	-4	31	14	17	19	11	14	-8	73	0	9	10	-3	1	4	-11	-1	73	3	177	484
24 Mānoa	15	30	30	16	32	5	32	3	31	10	0	-2	0	20	-2	1	1	1	2	4	1	0	-1	56	102	387
25 UHManoa	18	8	14	4	9	4	7	0	3	1	0	0	1	-3	0	0	0	5	0	-1	0	0	0	0	0	70
Totals	719	379	491	180	743	493	1254	1358	1451	1901	919	2195	155	2684	250	455	267	101	303	460	155	62	374	463	3687	21499

Table 101. 2030 Difference in Non-Home Based Transit Trips: Fixed Guideway Combination 3 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table
Fixed Guideway Combination 3 vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	43	36	31	12	4	7	18	25	-7	4	3	5	3	3	0	2	0	0	5	-1	3	-2	-5	3	0	192
2 Kaka'ako	24	-76	31	-2	4	22	21	18	4	8	5	-4	-1	0	0	2	-1	3	0	9	2	3	-5	13	-5	75
3 Makiki	45	6	33	6	-12	-4	50	12	3	13	3	2	-1	8	-1	1	-2	-7	-2	8	-1	-2	7	18	0	183
4 Waikīkī	-26	-2	-12	-40	9	3	19	7	1	4	-1	-2	2	-4	6	-1	2	-4	0	-2	2	-3	5	-5	-4	-46
5 Kaimukī Wa	-9	14	0	7	-14	7	13	10	13	5	3	-7	-1	1	-1	3	4	9	-5	5	0	-2	0	4	4	63
6 Kalihi Nuu	24	24	16	-1	5	-21	1	7	4	18	3	10	1	2	4	3	-1	1	-4	-4	1	3	-3	0	12	105
7 Iwilei	49	47	43	30	18	3	-79	33	55	47	4	-2	2	4	1	2	1	4	4	0	0	2	-4	15	8	287
8 Airport PH	64	34	38	18	13	30	77	-103	61	63	2	14	0	35	8	2	6	3	9	14	-5	3	6	10	5	407
9 SaltLake H	79	41	46	19	11	33	102	146	31	164	11	24	0	35	18	19	7	0	3	16	4	3	10	2	16	840
10 PC 'Aiea	126	70	45	48	16	33	111	190	219	476	40	72	5	230	80	33	14	-3	0	21	4	3	10	9	10	1862
11 'Ewa	17	15	11	14	2	0	10	30	24	30	95	132	19	90	14	9	-5	8	-6	-3	-2	1	6	3	18	532
12 Kapolei	49	28	34	32	17	15	33	68	47	78	206	988	53	131	26	13	8	22	-1	9	4	2	33	7	27	1929
13 Makakilo	9	-7	7	2	1	3	4	3	-2	3	10	3	-1	6	4	0	0	3	-2	-3	-2	1	1	0	1	44
14 Waipahu	28	15	29	15	1	7	21	45	28	118	32	51	11	151	40	21	6	4	3	1	0	4	2	8	12	653
15 Waiawa	9	9	9	9	-5	3	13	17	12	40	10	24	-3	43	31	41	12	5	2	-2	0	4	1	3	3	290
16 Mililani	5	2	14	3	5	5	1	5	8	12	-1	9	1	3	9	17	17	1	-3	6	8	-4	0	-1	5	127
17 Wahiawā Sc	-9	1	8	-2	0	1	5	2	9	4	-5	8	-1	-2	4	15	45	2	1	3	4	-1	3	1	2	98
18 E Honolulu	-6	2	-1	5	9	-5	9	12	-5	-6	-2	3	1	5	2	3	-2	5	-1	5	3	1	-6	-3	-5	23
19 Kāne'ohe	4	1	-3	2	-12	2	0	-7	6	10	-2	8	2	-5	4	-3	0	0	85	9	-1	-4	3	-2	0	97
20 Kailua	-5	-5	1	-2	-3	-2	5	-4	-4	-2	6	4	-2	0	1	-1	-2	-2	-11	16	2	2	-9	0	-2	-19
21 Ko'olauloa	-4	-1	2	-2	-1	1	-1	-2	6	-1	-2	0	-1	3	-3	0	-1	-1	2	0	1	0	0	1	0	-4
22 North Shor	5	0	5	-2	2	-1	2	0	-2	5	0	8	0	3	-1	1	-6	-2	-3	4	2	3	-2	-1	1	21
23 Wai'anae	2	2	-5	6	1	-1	-1	8	6	13	3	1	-3	-7	5	2	1	-7	-7	0	-1	-1	14	0	4	35
24 Mānoa	22	-9	10	12	-5	-1	7	4	5	-1	2	-1	2	1	3	1	-1	-1	-4	2	-1	3	4	21	0	75
25 UHManoa	18	12	17	11	-3	7	11	9	3	2	1	0	0	-1	-1	3	0	0	1	1	-1	1	0	9	-4	96
Totals	563	259	409	200	63	147	452	535	525	1107	426	1350	88	735	253	188	102	43	66	114	26	20	71	115	108	7965

Table 102. 2030 Difference in Visitor Transit Trips: Fixed Guideway Combination 3 vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Visitor Transit Person P-A Trip Table
Fixed Guideway Combination 3 Option vs. No-Build Alternat

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	0	7	8	0	-5	0	1	1	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	0	1	11
2 Kaka'ako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Makiki	31	-1	1	-4	-1	-1	9	20	0	3	0	0	0	0	0	0	0	5	0	0	1	0	0	1	3	67
4 Waikīkī	258	-2	0	-51	-7	10	60	247	1	99	0	0	0	0	0	0	0	16	1	2	1	-1	-3	-56	32	607
5 Kaimukī Wa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Kalihi Nuu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Iwilei	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	2
8 Airport PH	22	2	50	135	9	0	8	13	1	8	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	253
9 SaltLake H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PC 'Aiea	-1	-2	5	6	0	0	0	2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
11 'Ewa	8	0	12	31	1	0	1	9	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	72
12 Kapolei	27	2	52	135	6	0	6	40	0	18	0	0	0	0	0	0	0	3	0	0	0	0	0	0	5	294
13 Makakilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Waipahu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Waiawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Mililani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Wahiawā Sc	2	1	-3	9	0	-1	2	2	0	-1	0	0	0	-1	0	0	4	0	0	0	0	0	0	0	0	14
18 E Honolulu	2	0	2	-2	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
19 Kāne'ohe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Kailua	0	0	-1	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3
21 Ko'olauloa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 North Shor	0	0	2	2	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23 Wai'anae	-1	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24 Mānoa	4	0	2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	3
25 UHManoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	352	0	131	272	11	3	86	336	2	134	0	0	0	-1	0	0	4	26	-1	2	2	-1	-3	-54	42	1343

AR00066456

Table 103. 2030 Daily Total Transit Trips Fixed Guideway 20-mile Alignment Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway 20-mile Alignment E-MODEL
Daily Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1906	1295	1250	611	479	869	1264	482	467	178	17	40	1	74	18	14	18	75	87	143	15	5	6	302	301	9917
2 Kaka'ako	1967	1070	1943	1124	625	710	1120	379	342	155	9	36	2	61	16	13	14	93	60	85	14	7	11	468	361	10685
3 Makiki	4265	2071	3089	2117	2119	649	1151	484	422	197	18	48	1	92	23	23	49	262	58	209	46	5	25	854	1142	19419
4 Waikīkī	5791	1578	3428	3273	1990	480	940	1188	316	353	9	32	1	83	15	10	6	358	101	163	26	134	13	505	779	21572
5 Kaimukī Wa	1961	735	1800	1669	2716	325	576	209	219	106	11	41	3	62	12	11	16	472	45	68	20	8	8	544	844	12481
6 Kalihi Nuu	2884	1108	833	576	429	1741	2720	853	936	344	16	63	4	155	34	25	13	45	184	175	16	5	15	279	323	13776
7 Iwilei	1637	835	633	339	281	819	1629	766	701	327	13	48	3	101	22	21	18	25	74	55	3	12	7	173	226	8768
8 Airport PH	632	156	253	401	90	175	567	771	743	288	24	46	6	198	71	16	20	10	29	100	9	10	7	26	111	4759
9 SaltLake H	1488	481	489	332	249	485	1379	2117	2796	1022	62	149	13	366	104	57	42	36	86	124	25	14	22	97	395	12430
10 PC 'Aiea	1792	584	574	458	348	484	1544	2459	2665	4854	211	560	32	1593	519	340	222	46	183	179	54	29	39	133	714	20616
11 'Ewa	1522	625	777	1856	538	468	908	1250	1048	1464	4007	4686	239	2098	232	265	247	121	166	286	181	47	368	316	1587	25302
12 Kapolei	912	382	479	1102	335	296	560	789	611	918	1428	5957	373	1063	153	188	169	79	106	192	115	31	756	192	1023	18209
13 Makakilo	364	159	195	425	139	153	230	318	277	363	204	1256	173	307	38	59	63	35	47	95	49	17	312	106	353	5737
14 Waipahu	941	282	583	1313	234	227	565	770	699	1664	646	836	60	2867	590	521	273	47	87	138	59	26	95	147	625	14295
15 Waiawa	741	215	481	1046	169	165	447	583	542	1410	171	434	30	1355	994	993	502	37	62	95	53	33	51	71	467	11147
16 Mililani	892	291	319	319	222	159	453	617	462	685	127	409	24	775	647	2875	1794	32	68	162	67	92	40	91	621	12243
17 Wahiawā Sc	489	165	183	175	120	80	210	260	194	197	46	157	9	262	172	978	1943	36	34	60	55	98	20	58	391	6392
18 E Honolulu	1234	381	797	689	1556	177	294	191	158	99	7	36	1	41	15	15	19	1717	53	200	12	10	16	260	602	8580
19 Kāne'ohe	992	269	218	207	126	322	439	333	308	216	20	75	4	121	14	25	27	18	2596	814	149	14	10	59	274	7650
20 Kailua	1673	395	319	278	196	311	390	307	245	174	21	82	2	125	31	27	32	75	668	3608	53	9	15	82	424	9542
21 Ko'olauloa	221	81	94	97	55	45	87	104	74	43	8	21	3	61	14	23	19	40	83	76	1211	64	3	31	99	2657
22 North Shor	305	124	151	170	93	78	158	172	131	144	20	58	4	95	54	151	362	17	35	56	229	1085	17	36	277	4022
23 Wai'anae	764	305	378	461	216	159	361	658	415	245	99	924	59	318	61	79	85	49	49	116	16	11	2673	105	645	9251
24 Mānoa	2282	1107	1560	942	857	509	773	298	254	116	5	33	3	60	15	18	11	108	55	132	16	4	4	723	748	10633
25 UHManoa	427	116	318	210	225	55	89	36	33	21	2	3	5	8	3	4	3	24	5	24	2	1	1	127	58	1800
Totals	38082	14810	21144	20190	14407	9941	18854	16394	15058	15583	7201	16030	1055	12341	3867	6751	5967	3857	5021	7355	2495	1771	4534	5785	13390	281883

Table 104. 2030 Peak Period Transit Trips Fixed Guideway 20-mile Alignment Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway 20-mile Alignment E-MODEL
Peak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1037	751	747	391	304	583	737	320	311	117	12	19	1	44	11	11	13	54	54	89	9	1	2	200	213	6031
2 Kaka'ako	1241	559	1140	751	415	525	741	266	247	106	4	26	1	43	10	10	8	68	39	61	6	6	3	359	249	6884
3 Makiki	2743	1216	1647	1265	1338	438	760	309	272	129	9	33	0	64	16	21	25	183	39	120	24	3	10	547	694	11905
4 Waikīkī	3077	890	1803	1669	1083	274	543	592	187	166	3	15	1	47	10	5	6	198	53	87	13	64	6	302	447	11541
5 Kaimukī Wa	1305	467	1175	1113	1555	210	376	143	142	69	7	24	1	41	5	7	11	319	28	44	10	5	4	379	530	7970
6 Kalihi Nuu	1916	668	522	354	252	1115	1620	565	597	218	8	46	2	100	19	17	9	25	121	121	6	2	10	180	204	8697
7 Iwilei	1027	521	382	231	173	537	815	488	435	183	8	27	0	61	14	16	12	15	39	36	1	5	6	104	159	5295
8 Airport PH	377	100	139	202	50	101	326	459	434	139	10	26	4	127	47	10	11	5	21	51	4	3	2	16	81	2745
9 SaltLake H	974	300	311	213	156	318	848	1323	1733	608	35	96	6	221	65	31	25	15	58	74	15	6	12	58	272	7773
10 PC 'Aiea	1287	399	384	327	230	337	1075	1711	1829	2876	129	374	25	969	316	237	157	34	137	134	42	18	28	86	519	13660
11 'Ewa	1102	445	564	1370	395	370	616	854	734	1038	2689	3047	149	1315	144	179	190	88	104	210	124	28	307	241	1186	17489
12 Kapolei	632	269	326	782	240	233	390	546	439	661	941	3510	224	702	95	123	125	55	67	137	78	18	641	155	760	12149
13 Makakilo	262	118	143	317	102	127	156	224	199	286	146	788	108	208	24	41	44	25	31	71	39	8	273	87	279	4106
14 Waipahu	687	203	426	1009	158	169	375	514	453	1033	412	541	38	1727	357	386	202	39	64	98	49	19	67	109	475	9610
15 Waiawa	547	143	354	793	111	113	287	394	365	920	117	293	22	871	543	744	385	27	49	63	32	29	38	53	338	7631
16 Mililani	636	210	222	221	166	115	312	441	318	442	84	279	18	505	390	1914	1253	22	48	92	38	73	29	67	448	8343
17 Wahiawā Sc	330	105	121	114	70	54	135	178	125	132	31	102	4	161	98	642	1135	18	22	35	32	74	12	35	283	4048
18 E Honolulu	867	270	526	469	976	117	197	132	99	64	4	19	1	28	6	8	8	1093	39	144	8	7	10	181	411	5684
19 Kāne'ohe	722	189	153	137	86	223	285	229	217	143	11	47	1	80	12	16	18	11	1584	561	109	3	9	38	187	5071
20 Kailua	1140	266	227	183	121	212	264	217	178	122	9	51	1	75	17	17	20	48	456	2323	33	6	6	51	270	6313
21 Ko'olauloa	156	54	57	62	30	30	57	64	40	28	6	16	1	27	8	14	11	21	44	41	852	37	1	14	69	1740
22 North Shor	223	90	106	109	53	57	96	115	90	83	12	37	4	61	37	100	255	10	16	30	165	697	14	26	200	2686
23 Wai'anae	543	204	251	315	132	112	235	461	264	150	67	606	35	215	40	49	53	32	21	72	5	4	1853	73	465	6257
24 Mānoa	1488	677	938	647	522	326	496	208	168	76	4	20	1	44	9	10	8	70	40	78	8	1	2	420	468	6729
25 UHManoa	255	67	179	117	126	28	58	24	23	12	1	1	2	3	1	1	1	16	3	13	1	1	1	70	32	1036
Totals	24574	9181	12843	13161	8844	6724	11800	10777	9899	9801	4759	10043	650	7739	2294	4609	3985	2491	3177	4785	1703	1118	3346	3851	9239	181393

Table 105. 2030 Off-Peak Period Transit Trips Fixed Guideway 20-mile Alignment Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway 20-mile Alignment E-MODEL
OffPeak Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	852	559	518	220	184	278	512	176	158	58	5	21	0	20	7	3	5	21	22	55	3	4	4	91	111	3887
2 Kaka'ako	686	478	841	395	214	180	369	113	98	49	4	10	1	17	6	3	7	25	20	24	8	1	8	117	127	3801
3 Makiki	1505	841	1365	862	802	214	396	180	153	71	9	15	1	29	7	2	24	78	20	89	23	2	15	318	497	7518
4 Waikīkī	2704	682	1645	1593	892	205	400	596	129	189	6	17	0	36	6	5	0	162	46	76	13	70	7	207	345	10031
5 Kaimukī Wa	645	258	633	581	1112	115	201	68	78	35	4	17	2	21	7	4	6	156	17	23	10	3	4	172	339	4511
6 Kalihi Nuu	1010	437	314	222	180	575	1097	314	336	127	7	18	2	46	15	7	4	19	54	55	8	3	5	93	133	5081
7 Iwilei	621	316	252	108	114	295	775	313	246	145	5	20	3	28	8	5	6	10	26	19	0	7	1	69	82	3474
8 Airport PH	256	56	114	199	38	74	241	303	330	139	14	20	2	62	26	6	9	4	8	49	4	7	5	10	38	2014
9 SaltLake H	516	181	179	119	93	167	530	819	1067	388	27	52	7	119	39	26	17	21	25	50	8	8	10	38	152	4658
10 PC 'Aiea	506	186	189	131	116	146	467	780	924	1906	80	180	6	563	200	100	66	12	42	45	12	10	11	47	233	6958
11 'Ewa	419	180	214	486	142	97	291	404	314	428	1278	1639	89	794	85	86	57	33	45	72	25	15	62	77	480	7812
12 Kapolei	280	114	152	320	94	63	169	246	173	257	464	2476	123	363	56	65	43	24	27	54	16	9	120	37	316	6061
13 Makakilo	103	42	52	108	36	23	74	98	78	77	57	488	52	99	14	18	19	10	6	23	1	4	33	20	96	1631
14 Waipahu	253	77	159	331	73	60	189	263	254	661	225	255	19	1122	202	136	69	8	20	39	10	7	28	39	187	4686
15 Waiawa	195	73	126	267	57	52	161	191	180	508	52	122	8	488	433	232	119	10	12	31	17	3	13	17	149	3516
16 Mililani	257	81	97	97	57	43	143	190	148	242	37	96	5	271	255	919	586	10	20	70	19	18	11	24	204	3900
17 Wahiawā Sc	159	59	62	61	50	26	75	87	70	65	7	36	4	94	73	345	810	18	11	24	21	23	8	23	134	2345
18 E Honolulu	374	110	272	224	581	59	96	63	57	36	3	17	0	13	9	7	11	600	16	54	4	3	6	77	204	2896
19 Kāne'ohe	280	80	64	70	39	98	153	105	93	72	9	29	3	41	2	9	9	7	986	266	41	11	1	20	93	2581
20 Kailua	540	129	91	95	70	97	127	89	67	52	13	31	1	49	14	10	11	22	213	1292	20	3	9	32	153	3230
21 Ko'olauloa	65	27	37	35	23	15	30	40	33	16	2	5	2	34	7	7	8	19	29	34	369	28	2	16	34	917
22 North Shor	82	34	43	61	37	21	62	51	40	62	8	21	0	33	17	52	118	7	17	23	58	385	3	10	91	1336
23 Wai'anae	222	99	128	146	82	48	126	206	148	94	35	326	25	102	21	29	34	16	7	38	2	5	819	32	204	2994
24 Mānoa	798	436	638	308	313	177	264	92	87	42	1	12	2	19	6	7	3	38	15	54	8	3	2	268	311	3904
25 UHManoa	172	47	139	93	100	27	30	13	11	9	1	2	3	5	2	3	2	8	2	11	1	0	0	55	28	764
Totals	13500	5582	8324	7132	5499	3155	6978	5800	5272	5728	2353	5925	360	4468	1517	2086	2043	1338	1706	2570	701	632	1187	1909	4741	100506

Table 106. 2030 Journey to Work Home-Based Work Transit Trips Fixed Guideway 20-mile Alignment Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway 20-mile Alignment E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	442	315	404	287	93	147	335	241	194	85	12	11	1	14	12	6	10	16	29	64	1	0	1	52	43	2815
2 Kaka'ako	947	211	490	591	178	191	484	249	195	84	4	16	1	22	12	7	6	24	27	59	1	3	1	96	75	3974
3 Makiki	2008	769	795	723	455	238	523	288	234	103	10	16	0	29	12	14	11	63	28	73	2	1	2	161	139	6697
4 Waikīkī	1072	523	587	413	280	111	248	148	96	48	3	9	1	16	5	3	6	35	17	34	0	2	0	87	92	3836
5 Kaimukī Wa	1100	383	722	848	358	104	245	141	118	51	4	9	0	22	5	6	9	58	13	35	2	3	2	96	133	4467
6 Kalihi Nuu	1415	426	344	233	80	232	683	432	323	153	10	22	1	42	16	14	8	9	52	88	5	1	4	46	26	4665
7 Iwilei	551	271	226	166	47	120	211	307	220	92	5	13	0	22	13	8	8	4	21	27	1	1	1	26	17	2378
8 Airport PH	142	48	37	29	9	23	96	203	130	54	4	9	0	97	43	5	6	0	5	10	1	0	0	4	10	965
9 SaltLake H	670	201	187	144	53	131	375	714	656	271	19	42	4	105	51	21	18	4	24	45	4	3	1	24	30	3797
10 PC 'Aiea	1062	322	297	285	89	167	689	1160	847	853	93	241	18	423	203	116	122	11	66	89	6	10	9	32	104	7314
11 'Ewa	1070	410	453	1557	153	157	419	704	460	440	804	1980	103	436	103	115	141	25	56	113	19	18	158	68	360	10322
12 Kapolei	559	216	238	806	81	83	243	412	250	255	370	1695	105	248	65	77	86	13	27	62	12	7	162	38	191	6301
13 Makakilo	249	97	105	362	30	33	97	157	87	84	84	460	40	73	16	22	27	5	13	23	3	1	45	13	76	2202
14 Waipahu	642	151	421	1186	56	62	217	374	241	372	177	332	21	480	176	115	113	5	27	41	5	8	14	20	106	5362
15 Waiawa	537	126	345	958	42	58	185	329	233	353	85	222	12	334	263	187	183	9	26	35	2	13	15	20	80	4652
16 Mililani	548	192	212	234	61	72	241	423	266	344	86	230	13	199	207	513	578	7	33	49	15	47	12	33	127	4742
17 Wahiawā Sc	215	84	68	93	24	34	89	150	99	107	32	78	4	66	63	232	475	4	11	20	10	37	5	10	53	2063
18 E Honolulu	709	232	392	393	288	70	144	134	86	38	5	9	0	5	3	3	8	204	24	80	1	2	4	66	109	3009
19 Kāne'ohe	637	167	130	111	43	115	202	240	155	119	8	30	1	38	11	10	13	7	320	270	25	1	2	18	40	2713
20 Kailua	871	226	189	161	57	128	193	223	149	99	4	25	0	30	17	10	8	25	168	695	8	2	0	25	49	3362
21 Ko'olauloa	140	42	45	44	15	17	33	51	22	14	1	6	0	8	5	6	7	1	35	19	281	29	0	4	27	852
22 North Shor	214	75	86	104	27	32	72	105	61	47	11	23	1	31	32	55	160	2	10	23	64	185	5	10	66	1501
23 Wai'anae	514	191	220	277	63	67	178	461	197	110	53	435	20	127	34	30	47	10	19	45	3	1	366	32	164	3664
24 Mānoa	1165	480	546	546	199	143	342	197	145	67	5	14	2	17	6	8	8	30	25	45	3	0	0	101	91	4185
25 UHManoa	121	48	70	65	34	15	32	17	19	7	1	1	0	0	3	0	1	6	1	5	0	0	0	14	5	465
Totals	17600	6206	7609	10616	2815	2550	6576	7860	5483	4250	1890	5928	348	2884	1376	1583	2059	577	1077	2049	474	375	809	1096	2213	96303

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Table 107. 2030 Home-Based Other Transit Trips Fixed Guideway 20-mile Alignment Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway 20-mile Alignment E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	374	425	365	111	259	469	580	124	185	49	1	17	0	50	2	5	2	38	34	26	8	0	1	177	219	3521
2 Kaka'ako	485	392	637	266	368	403	484	90	106	39	0	14	0	31	2	0	5	51	26	15	6	2	3	294	248	3967
3 Makiki	1039	789	1177	544	1302	297	499	68	123	43	1	23	0	53	5	7	3	129	23	16	14	1	3	486	701	7346
4 Waikīkī	531	482	935	371	925	89	178	37	57	20	1	14	0	24	5	4	0	50	12	11	8	2	0	198	335	4289
5 Kaimukī Wa	412	234	720	504	1452	139	228	44	77	33	1	17	0	26	2	3	2	263	12	18	11	2	3	360	548	5111
6 Kalihi Nuu	948	391	345	141	262	1182	1417	331	500	141	1	36	1	95	10	6	4	24	95	51	9	1	7	163	265	6426
7 Iwilei	370	198	152	59	137	421	444	215	264	66	0	23	0	53	1	3	2	8	35	11	2	0	1	64	165	2694
8 Airport PH	79	21	18	17	34	40	136	235	183	76	0	17	0	38	3	0	0	0	8	2	4	0	0	6	85	1002
9 SaltLake H	378	103	117	71	141	240	645	864	1429	354	4	56	1	151	11	12	3	12	42	23	16	2	9	43	307	5034
10 PC 'Aiea	426	122	145	86	223	244	630	871	1284	2297	34	199	2	717	131	125	54	26	90	59	40	9	18	71	585	8488
11 'Ewa	387	187	247	181	370	296	457	495	549	955	2748	2378	116	1475	108	138	91	85	107	161	157	27	198	207	1215	13335
12 Kapolei	221	120	159	121	232	194	269	288	321	539	684	2524	172	634	63	82	63	59	68	115	100	18	531	140	812	8529
13 Makakilo	101	59	87	59	106	119	128	148	184	269	102	709	113	218	19	36	33	29	33	69	45	15	263	91	275	3310
14 Waipahu	209	93	131	81	161	150	260	309	377	901	275	340	27	1620	266	315	127	36	48	80	52	10	64	98	504	6534
15 Waiawa	174	72	94	66	118	96	196	215	258	908	55	175	16	852	589	679	276	25	31	53	44	18	28	49	383	5470
16 Mililani	251	65	77	64	152	72	186	154	174	252	25	153	5	494	334	1958	950	22	29	41	46	35	21	56	459	6075
17 Wahiawā Sc	118	45	45	50	82	36	92	80	77	64	11	64	1	170	72	573	988	14	21	32	39	44	12	44	331	3105
18 E Honolulu	292	122	337	217	1079	98	134	47	63	50	1	19	1	29	11	4	7	1193	22	110	10	4	9	169	447	4475
19 Kāne'ohe	244	63	64	51	73	173	201	73	126	67	4	32	0	74	1	5	5	7	1613	440	89	1	6	38	217	3667
20 Kailua	475	93	82	60	122	140	161	60	81	50	6	35	1	74	8	6	13	41	355	2198	39	3	5	43	351	4502
21 Ko'olauloa	51	31	41	40	33	22	43	39	42	23	4	9	3	13	6	12	8	10	30	34	768	16	2	23	67	1370
22 North Shor	68	42	55	50	62	37	73	63	60	40	7	29	1	58	13	84	170	13	19	29	155	713	6	24	206	2077
23 Wai'anae	168	95	129	121	143	85	161	145	159	106	35	420	32	175	17	43	33	33	28	66	13	7	2002	71	470	4757
24 Mānoa	683	487	754	270	541	261	391	85	84	33	0	15	0	38	5	7	0	60	24	24	9	1	1	479	506	4758
25 UHManoa	74	25	70	34	82	15	34	6	5	2	0	0	2	4	0	0	1	9	2	2	0	0	0	43	8	418
Totals	8558	4756	6983	3635	8459	5318	8027	5086	6768	7377	4000	7318	494	7166	1684	4107	2840	2237	2807	3686	1684	931	3193	3437	9709	120260

Table 108. 2030 Non-Home Based Transit Trips Fixed Guideway 20-mile Alignment Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway 20-mile Alignment E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	1001	511	358	114	84	214	345	79	75	40	4	12	0	10	4	3	6	21	18	21	6	5	4	73	28	3036
2 Kaka'ako	535	467	682	207	77	101	152	36	37	30	5	6	1	8	2	6	3	11	7	11	7	2	7	76	36	2512
3 Makiki	461	482	1009	417	240	95	109	35	45	23	7	9	1	10	6	2	4	28	7	19	6	1	8	180	125	3329
4 Waikīkī	124	170	311	707	189	19	32	13	9	13	5	9	0	5	5	3	0	13	4	8	2	2	5	46	41	1735
5 Kaimukī Wa	171	112	280	269	656	38	63	24	24	22	6	15	3	12	5	2	5	102	4	15	7	3	3	78	111	2030
6 Kalihi Nuu	372	155	83	54	36	240	322	78	96	49	5	5	2	18	8	5	1	12	17	18	2	3	4	26	9	1620
7 Iwilei	572	234	139	70	52	245	851	244	217	162	8	12	3	26	8	10	8	13	18	13	0	4	5	31	10	2955
8 Airport PH	184	68	68	32	35	81	304	270	389	144	16	20	6	63	25	11	14	6	16	70	4	9	7	9	14	1865
9 SaltLake H	220	97	81	57	37	105	306	531	608	388	28	43	8	101	42	24	13	12	20	55	5	9	12	25	14	2841
10 PC 'Aiea	212	103	84	68	36	73	201	332	506	1688	84	120	12	453	185	99	41	9	27	31	8	10	12	13	25	4432
11 'Ewa	48	26	24	35	13	13	27	32	31	62	455	328	20	187	21	12	15	2	3	12	5	2	12	9	11	1405
12 Kapolei	76	41	36	48	18	15	40	60	40	111	374	1738	96	181	25	29	20	6	11	15	3	6	63	11	20	3083
13 Makakilo	11	3	3	4	3	1	5	13	6	10	18	87	20	16	3	1	3	1	1	3	1	1	4	2	2	222
14 Waipahu	78	34	31	46	17	15	48	87	81	363	194	164	12	727	148	91	33	6	12	17	2	8	17	8	15	2254
15 Waiawa	30	17	12	22	9	11	26	39	31	149	31	37	2	169	142	127	43	3	5	7	7	2	8	2	4	935
16 Mililani	44	22	30	21	9	11	26	40	22	61	16	26	6	82	106	404	209	3	6	16	6	10	7	2	7	1192
17 Wahiawā Sc	26	15	10	12	8	7	14	27	18	23	3	15	4	23	37	173	336	6	2	5	6	17	3	4	7	801
18 E Honolulu	86	27	44	37	123	7	16	9	9	11	1	8	0	7	1	8	4	274	7	10	1	4	3	18	13	728
19 Kāne'ohe	72	20	24	9	10	28	36	16	27	30	8	13	3	9	2	10	9	4	634	86	8	3	2	3	5	1071
20 Kailua	141	32	27	24	13	29	27	20	15	23	11	22	1	21	6	11	11	9	103	619	6	4	10	10	11	1206
21 Ko'olauloa	18	8	7	7	7	6	11	5	10	6	3	6	0	3	3	5	4	1	9	9	102	6	1	4	5	246
22 North Shor	15	7	9	9	4	9	9	4	10	11	2	6	2	6	9	12	12	2	6	4	8	100	6	2	3	267
23 Wai'anae	45	19	28	31	10	7	18	22	24	20	11	69	7	16	10	6	5	6	2	5	0	3	305	2	11	682
24 Mānoa	144	114	212	76	60	45	40	16	19	8	0	4	1	5	4	3	3	8	6	1	4	3	3	104	70	953
25 UHManoa	61	41	112	49	101	17	23	9	9	10	1	2	3	4	0	4	1	9	2	3	2	1	1	70	28	563
Totals	4747	2825	3704	2425	1847	1432	3051	2041	2358	3457	1296	2776	213	2162	807	1061	803	567	947	1073	208	218	512	808	625	41963

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Table 109. 2030 Visitor Transit Trips Fixed Guideway 20-mile Alignment Alternative (Production to Attraction Format)

HHCTP Study
Year 2030 Fixed Guideway 20-mile Alignment E-MODEL
Daily Visitor Transit Person P-A Trip Table

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	89	44	123	99	43	39	4	38	13	4	0	0	0	0	0	0	0	0	6	32	0	0	0	0	11	545
2 Kaka'ako	0	0	134	60	2	15	0	4	4	2	0	0	0	0	0	0	0	7	0	0	0	0	0	2	2	232
3 Makiki	757	31	108	433	122	19	20	93	20	28	0	0	0	0	0	0	31	42	0	101	24	2	12	27	177	2047
4 Waikīkī	4064	403	1595	1782	596	261	482	990	154	272	0	0	0	38	0	0	0	260	68	110	16	128	8	174	311	11712
5 Kaimukī Wa	278	6	78	48	250	44	40	0	0	0	0	0	0	2	0	0	0	49	16	0	0	0	0	10	52	873
6 Kalihi Nuu	149	136	61	148	51	87	298	12	17	1	0	0	0	0	0	0	0	0	20	18	0	0	0	44	23	1065
7 Iwilei	144	132	116	44	45	33	123	0	0	7	0	0	0	0	0	0	0	0	0	4	0	7	0	52	34	741
8 Airport PH	227	19	130	323	12	31	31	63	41	14	4	0	0	0	0	0	0	4	0	18	0	1	0	7	2	927
9 SaltLake H	220	80	104	60	18	9	53	8	103	9	11	8	0	9	0	0	8	8	0	1	0	0	0	5	44	758
10 PC 'Aiea	92	37	48	19	0	0	24	96	28	16	0	0	0	0	0	0	5	0	0	0	0	0	0	17	0	382
11 'Ewa	17	2	53	83	2	2	5	19	8	7	0	0	0	0	0	0	0	9	0	0	0	0	0	32	1	240
12 Kapolei	56	5	46	127	4	4	8	29	0	13	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	296
13 Makakilo	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14 Waipahu	12	4	0	0	0	0	40	0	0	28	0	0	0	40	0	0	0	0	0	0	0	0	0	21	0	145
15 Waiawa	0	0	30	0	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
16 Mililani	49	12	0	0	0	4	0	0	0	28	0	0	0	0	0	0	57	0	0	56	0	0	0	0	28	234
17 Wahiawā Sc	130	21	60	20	6	3	15	3	0	3	0	0	0	3	0	0	144	12	0	3	0	0	0	0	0	423
18 E Honolulu	147	0	24	42	66	2	0	1	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	7	33	368
19 Kāne'ohe	39	19	0	36	0	6	0	4	0	0	0	0	0	0	0	0	0	0	29	18	27	9	0	0	12	199
20 Kailua	186	44	21	33	4	14	9	4	0	2	0	0	0	0	0	0	0	0	42	96	0	0	0	4	13	472
21 Ko'olauloa	12	0	1	6	0	0	0	9	0	0	0	0	0	37	0	0	0	28	9	14	60	13	0	0	0	189
22 North Shor	8	0	1	7	0	0	4	0	0	46	0	0	0	0	0	0	20	0	0	0	2	87	0	0	2	177
23 Wai'anae	37	0	1	32	0	0	4	30	35	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
24 Mānoa	290	26	48	50	57	60	0	0	6	8	0	0	0	0	0	0	0	10	0	62	0	0	0	39	81	737
25 UHManoa	171	2	66	62	8	8	0	4	0	2	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	354
Totals	7177	1023	2848	3514	1286	641	1200	1407	449	499	15	8	0	129	0	0	265	476	190	547	129	247	20	444	843	23357

Table 110. 2030 Difference in Daily Transit Trips: Fixed Guideway 20-mile Alignment vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Transit Person P-A Trip Table
Fixed Guideway 20-mile Alignment vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-45	49	84	23	19	1	61	83	15	18	9	3	0	27	1	3	0	14	13	26	2	-1	-5	66	-6	460
2 Kaka'ako	33	-412	115	8	29	46	171	100	47	51	1	5	-1	23	-2	0	3	-3	12	24	3	5	-2	99	-16	339
3 Makiki	110	33	258	-20	65	7	75	103	38	37	2	10	-1	43	-2	-6	7	-4	11	38	-6	-5	4	46	10	853
4 Waikīkī	-3	-44	-7	2	-87	-3	48	340	14	142	2	4	0	12	2	-1	-3	7	7	15	1	7	-1	18	-6	466
5 Kaimukī Wa	50	-11	74	-1	57	-3	55	53	18	27	5	4	0	27	-2	-2	1	6	-9	31	12	3	-2	64	51	508
6 Kalihi Nuu	77	135	41	23	27	53	58	210	107	73	4	8	3	63	11	6	-4	2	35	39	-3	-1	5	30	-13	989
7 Iwilei	121	157	99	84	30	20	-69	162	102	85	2	7	1	46	-2	4	4	0	16	19	-4	1	-3	31	12	925
8 Airport PH	199	68	121	183	47	58	171	57	233	130	11	23	2	117	38	-1	11	-1	13	18	-2	8	-2	8	55	1565
9 SaltLake H	312	149	130	114	57	104	366	652	351	335	28	66	10	177	34	25	-1	-4	21	35	10	3	0	28	87	3089
10 PC 'Aiea	863	316	282	262	174	228	819	1209	1127	1359	105	277	11	767	168	122	75	10	93	106	20	14	-4	54	342	8799
11 'Ewa	651	274	343	888	246	191	446	683	529	650	958	1523	96	831	83	91	96	29	72	139	71	17	104	112	825	9948
12 Kapolei	256	134	162	440	88	60	178	407	225	348	472	1279	75	429	46	56	74	1	27	75	9	2	97	49	304	5293
13 Makakilo	44	28	37	125	20	14	49	134	63	98	37	77	25	114	11	19	26	-8	12	25	-1	10	4	17	80	1060
14 Waipahu	372	105	277	646	83	59	242	372	295	482	105	188	14	614	131	119	69	12	32	55	18	4	22	35	294	4645
15 Waiawa	309	91	217	598	56	68	189	289	249	299	68	199	15	478	94	251	109	10	25	40	26	10	10	15	157	3872
16 Mililani	161	70	94	97	86	31	131	250	176	152	52	181	4	256	45	190	126	-5	24	46	21	15	14	21	189	2427
17 Wahiawā Sc	48	26	15	40	33	6	44	103	66	16	17	58	3	90	-2	78	168	9	12	13	21	12	1	22	41	940
18 E Honolulu	19	0	31	-21	23	-38	-25	36	-9	12	-6	7	-1	19	1	3	-6	76	7	35	-11	3	-5	28	26	204
19 Kāne'ohe	-100	-15	-35	-26	-30	6	-32	72	17	61	7	14	1	67	-9	1	13	-5	181	171	-25	-8	0	0	-38	288
20 Kailua	-6	-4	-11	-12	-41	10	-22	59	-20	15	-2	10	-7	37	8	2	3	-7	-3	354	-2	1	-11	12	11	374
21 Ko'olauloa	3	3	5	-7	-6	3	11	18	5	5	-2	0	1	13	-4	4	0	-4	5	19	29	5	-2	7	5	116
22 North Shor	43	32	33	41	43	23	28	60	32	34	7	29	0	44	5	6	31	-3	-3	28	0	36	2	3	53	607
23 Wai'anae	22	19	37	64	24	16	15	219	99	52	12	60	-8	124	11	19	20	-12	-5	19	-8	0	131	22	81	1033
24 Mānoa	104	81	83	60	72	-5	84	92	40	23	3	-9	1	31	-4	6	0	10	14	23	5	2	0	78	109	903
25 UHManoa	22	4	11	5	7	-1	3	10	0	6	0	-2	4	1	-2	4	0	-2	-2	4	1	0	0	11	9	93
Totals	3665	1288	2496	3616	1122	954	3096	5773	3819	4510	1897	4021	248	4450	660	999	822	128	610	1397	187	143	357	876	2662	49796

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Table 111. 2030 Difference in Peak Period Transit Trips: Fixed Guideway 20-mile Alignment vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Peak Transit Person P-A Trip Table
Fixed Guideway 20-mile Alignment vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-33	33	41	20	17	-1	20	50	15	-3	6	-5	0	25	1	4	1	14	0	24	1	-2	-1	46	4	277
2 Kaka'ako	-4	-203	88	9	12	34	112	68	43	36	-2	6	-1	15	-2	0	5	-3	3	17	1	4	-1	78	-12	303
3 Makiki	74	10	144	-11	61	-5	53	65	8	26	-1	13	-1	34	-1	2	7	0	3	23	-5	-1	0	27	-11	514
4 Waikīkī	-20	-44	4	-1	-40	1	35	171	17	57	1	-2	1	7	3	-3	1	6	7	11	0	7	-1	8	-14	212
5 Kaimukī Wa	33	-15	47	10	25	-9	43	29	15	16	4	5	1	16	-2	0	0	8	-7	24	4	1	2	62	40	352
6 Kalihi Nuu	74	91	31	11	14	53	18	145	74	42	0	8	2	50	0	5	-5	4	20	41	-7	-2	7	22	-25	673
7 Iwilei	94	116	55	62	18	3	-41	102	43	36	1	5	0	35	-3	4	5	-2	-3	17	-4	-1	1	22	20	585
8 Airport PH	132	47	70	98	25	33	105	57	151	57	3	11	3	71	27	0	7	1	11	12	1	2	-1	3	44	970
9 SaltLake H	207	101	104	84	31	76	235	452	239	196	15	46	5	109	28	12	0	-8	15	22	7	-2	1	21	66	2062
10 PC 'Aiea	637	231	199	193	108	159	592	853	797	779	63	191	11	444	103	88	64	13	70	86	13	9	-4	47	250	5996
11 'Ewa	467	201	271	667	194	156	308	482	390	479	680	1082	51	555	59	58	71	21	39	116	37	9	85	95	606	7179
12 Kapolei	180	97	110	334	68	43	130	294	172	244	303	860	45	292	29	34	60	-5	13	65	-8	0	80	46	217	3703
13 Makakilo	32	24	29	95	18	10	29	95	31	85	31	58	23	78	7	14	13	-12	4	16	-2	5	2	18	62	765
14 Waipahu	275	91	193	517	49	42	169	250	208	314	63	139	10	390	82	74	48	14	29	39	19	2	10	28	210	3265
15 Waiawa	233	55	173	455	32	49	124	213	181	211	42	140	11	307	45	184	84	8	21	28	12	15	4	17	124	2768
16 Mililani	124	50	59	73	73	22	106	187	128	105	38	137	5	168	28	137	95	-2	20	26	6	18	10	18	140	1771
17 Wahiawā Sc	44	12	16	24	15	4	27	76	47	12	14	49	-1	50	-1	54	84	5	12	8	11	11	4	15	36	628
18 E Honolulu	11	9	18	-12	24	-32	-22	28	-14	9	-1	-1	-1	15	-4	-1	-3	55	2	21	-6	3	-3	24	27	146
19 Kāne'ohe	-79	-14	-23	-19	-21	8	-34	45	27	39	5	5	-1	41	-6	-3	11	-1	105	139	-15	-5	6	-5	-29	176
20 Kailua	-5	-1	-2	-15	-23	3	-29	28	-7	27	-7	8	-1	20	4	-3	5	-11	1	283	-4	1	-4	9	1	278
21 Ko'olauloa	2	0	4	-1	-6	2	11	14	4	6	1	3	1	5	0	4	-1	-2	2	10	25	-3	-2	4	6	89
22 North Shor	24	29	23	27	21	23	10	41	27	20	5	18	1	29	6	9	28	0	-8	18	5	23	8	5	36	428
23 Wai'anae	14	5	24	40	15	16	3	184	75	46	7	57	-2	91	13	7	14	-1	-5	21	-9	0	74	21	42	752
24 Mānoa	54	65	57	55	38	1	55	70	26	19	2	-12	-1	28	-5	1	2	1	14	18	2	-1	1	48	81	619
25 UHManoa	19	-4	7	4	1	-7	1	6	5	4	-1	-2	1	2	-1	1	0	0	-2	3	1	1	0	15	4	58
Totals	2589	986	1742	2719	769	684	2060	4005	2702	2862	1272	2819	162	2877	410	682	596	103	366	1088	85	94	278	694	1925	34569

Table 112. 2030 Difference in Off-Peak Transit Trips: Fixed Guideway 20-mile Alignment vs. No Build Alternative

HHCTP Study
Year 2030 TSM E-MODEL
OffPeak Transit Person P-A Trip Table
Fixed Guideway 20-mile Alignment vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-19	24	57	2	10	0	19	42	0	16	3	9	0	6	1	-1	-1	1	2	3	-1	1	-4	24	-10	184
2 Kaka'ako	9	-210	56	7	16	7	51	31	9	15	1	-1	0	7	-1	0	-1	0	8	8	2	1	-1	23	-1	36
3 Makiki	36	8	125	-11	7	17	25	41	34	12	3	-3	0	10	1	-7	1	-8	10	15	0	-4	4	19	8	343
4 Waikīkī	17	-5	-10	2	-51	-4	16	170	-5	89	1	5	-1	4	1	2	-4	3	-2	5	1	0	0	14	8	256
5 Kaimukī Wa	25	-8	22	-9	17	6	11	24	1	13	1	-1	-1	11	1	-2	2	-3	-2	6	8	2	-4	12	22	154
6 Kalihi Nuu	21	43	10	11	15	1	20	85	29	27	3	4	1	16	10	0	2	-3	7	1	2	1	-2	9	5	318
7 Iwilei	28	45	43	22	19	21	-37	74	45	51	1	2	1	13	1	0	-1	2	10	3	-2	2	-4	10	-8	341
8 Airport PH	67	22	51	88	19	25	66	-15	104	64	8	12	-1	41	13	-1	4	-2	2	6	-4	6	-1	5	16	595
9 SaltLake H	108	48	27	30	26	26	130	223	104	128	13	19	5	62	6	12	-1	4	2	10	1	5	-1	6	34	1027
10 PC 'Aiea	227	86	80	69	63	67	224	387	376	539	41	81	-1	284	64	34	13	-3	19	20	7	4	0	7	115	2803
11 'Ewa	183	73	73	220	50	36	138	208	138	174	270	442	42	278	21	34	21	8	16	20	4	4	26	18	268	2765
12 Kapolei	77	42	49	106	21	16	47	116	54	108	147	443	15	136	16	22	13	7	6	10	-2	1	25	3	112	1590
13 Makakilo	13	6	7	31	2	1	20	44	32	13	7	16	2	36	4	5	13	4	-2	9	-5	2	8	0	27	295
14 Waipahu	95	12	86	148	31	19	71	129	97	178	38	28	1	218	27	45	18	-2	1	17	0	3	11	8	102	1381
15 Waiawa	76	37	44	154	23	19	67	81	67	98	23	51	4	160	43	58	28	2	4	11	10	-6	6	-3	46	1103
16 Mililani	37	20	35	23	14	8	28	75	52	46	10	35	-3	80	18	52	33	-3	5	20	5	-4	5	3	62	656
17 Wahiawā Sc	5	14	0	16	18	2	17	33	21	2	-1	9	3	35	-4	28	79	3	-1	4	13	1	-2	7	10	312
18 E Honolulu	8	-9	11	-9	2	-7	-3	13	2	4	-5	7	0	4	5	4	-3	22	8	10	-5	-1	-2	1	0	57
19 Kāne'ohe	-25	-2	-13	-7	-10	-3	1	26	-8	20	2	11	2	25	-4	3	2	-4	74	47	-11	-3	-6	5	-11	111
20 Kailua	-3	-3	-11	3	-21	4	9	31	-13	-10	6	1	-6	16	4	5	-4	1	-4	82	2	0	-7	6	9	97
21 Ko'olauloa	1	3	2	-5	-1	1	0	3	1	0	-3	-4	0	8	-3	-1	1	-2	1	8	3	9	0	2	2	26
22 North Shor	19	3	10	14	19	-1	19	12	6	15	2	12	-1	14	0	-3	4	-3	3	8	6	13	-6	-2	15	178
23 Wai'anae	9	12	14	24	9	1	14	49	23	1	9	4	-6	35	-3	11	7	-10	-13	7	-4	-1	51	1	37	281
24 Mānoa	47	17	28	7	24	5	24	22	17	7	1	2	2	6	-1	4	0	9	2	5	3	3	-1	18	33	284
25 UHManoa	3	6	7	1	5	6	0	5	-4	1	1	0	3	-1	0	3	0	0	0	0	0	-1	0	-3	3	35
Totals	1064	284	803	937	327	273	977	1909	1182	1611	582	1184	61	1504	220	307	226	23	156	335	33	38	95	193	904	15228

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Table 113. 2030 Difference in Home Based Work Transit Trips: Fixed Guideway 20-mile Alignment vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily JTW-HBW Transit Person P-A Trip Table
Fixed Guideway 20-mile Alignment vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-9	22	24	17	-3	2	13	35	10	12	8	-3	0	6	-1	-1	-1	3	4	25	-2	0	0	17	2	180
2 Kaka'ako	38	-31	31	-5	11	17	74	65	36	24	-2	4	-1	8	2	-1	2	-3	1	25	0	1	-1	27	5	327
3 Makiki	44	36	63	-7	11	4	24	73	19	19	1	6	-1	12	-3	-2	5	4	7	33	-4	0	1	15	6	366
4 Waikīkī	-43	-20	-7	-13	0	4	14	48	5	14	1	2	1	1	-2	0	0	0	6	15	-1	1	-2	0	4	28
5 Kaimukī Wa	47	1	47	10	10	6	34	49	17	13	2	-1	0	8	-2	3	-3	-4	-3	21	2	2	2	16	22	299
6 Kalihi Nuu	36	64	36	15	8	16	15	134	50	39	4	0	1	16	0	5	0	-1	9	38	2	-3	1	14	-9	490
7 Iwilei	57	68	43	45	7	4	-13	86	38	22	-1	4	0	6	-1	2	2	-3	0	14	0	0	0	5	1	386
8 Airport PH	77	31	25	17	4	10	51	86	79	24	3	7	0	62	26	0	4	0	1	7	1	0	0	1	7	523
9 SaltLake H	175	76	74	65	22	37	130	299	126	104	11	18	4	57	13	8	6	0	5	25	3	2	-1	15	12	1286
10 PC 'Aiea	587	207	172	191	50	102	427	681	430	314	46	129	14	233	59	52	44	8	36	76	4	5	3	27	59	3956
11 'Ewa	511	220	254	807	98	98	250	481	330	278	282	822	47	216	52	57	72	17	41	88	16	11	64	44	227	5383
12 Kapolei	199	99	99	375	39	31	108	259	149	142	171	582	35	124	30	37	46	5	16	48	5	2	44	20	82	2747
13 Makakilo	33	34	29	116	11	9	28	85	37	41	24	69	12	27	8	11	14	-4	8	11	0	1	7	3	22	636
14 Waipahu	288	74	229	621	32	30	117	234	158	164	47	99	6	129	37	41	36	2	15	28	3	-1	3	11	60	2463
15 Waiawa	247	64	184	572	18	34	102	204	145	105	40	112	9	143	-4	69	64	6	17	22	0	5	9	11	36	2214
16 Mililani	118	62	80	92	22	13	85	207	140	108	40	111	3	74	10	71	59	0	15	27	10	9	5	14	37	1412
17 Wahiawā Sc	38	20	18	26	9	9	23	68	42	26	18	29	1	20	-6	36	35	2	4	6	5	4	1	3	-2	435
18 E Honolulu	11	-2	27	-16	9	-19	-16	31	4	0	4	-3	-1	-1	-3	-1	3	13	4	23	-2	2	1	20	14	102
19 Kāne'ohe	-83	-7	-24	-17	0	2	-15	82	3	48	4	8	-2	20	-7	2	10	-1	25	123	-9	-1	1	0	-6	156
20 Kailua	3	-3	-1	-6	-23	4	-24	52	1	13	-9	3	-1	-1	5	1	-1	-2	10	143	-4	2	-3	4	8	171
21 Ko'olauloa	7	2	6	-4	-1	2	2	21	3	6	0	3	0	8	-1	3	-1	0	3	11	16	4	0	1	0	91
22 North Shor	29	27	23	32	17	16	12	64	24	17	6	13	0	15	3	5	28	-3	0	20	-1	18	3	6	17	391
23 Wai'anae	11	30	26	50	12	9	12	206	75	40	8	41	-2	45	10	8	18	-1	5	22	2	1	56	9	16	709
24 Mānoa	76	58	46	48	20	-3	53	68	20	23	4	-4	0	9	-5	0	-1	8	5	20	2	-1	0	26	11	483
25 UHManoa	7	5	3	1	3	1	-1	3	6	3	0	0	0	0	1	0	1	1	-2	3	0	0	0	1	3	39
Totals	2504	1137	1507	3032	386	438	1505	3621	1947	1599	712	2051	125	1237	221	406	442	47	232	874	48	64	194	310	634	25273

Table 114. 2030 Difference in Home Based Other Transit Trips: Fixed Guideway 20-mile Alignment vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Home-Based Other Transit Person P-A Trip Table
Fixed Guideway 20-mile Alignment vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-17	15	23	0	15	1	33	11	6	5	1	2	0	22	2	3	-1	7	8	4	0	-2	-1	40	-6	171
2 Kaka'ako	-2	-224	44	-5	22	23	63	22	9	13	0	5	0	17	-3	-1	2	0	10	-4	1	2	0	54	-12	36
3 Makiki	6	10	76	-8	49	6	27	-3	11	11	-3	6	0	23	4	2	1	-5	6	-3	1	-2	-1	18	4	236
4 Waikīkī	-12	-12	-12	-3	-16	-2	2	-3	16	8	-1	2	0	10	2	0	-1	-1	1	2	3	-1	0	16	-11	-13
5 Kaimukī Wa	-2	-8	5	-8	23	0	13	1	-1	10	0	2	0	15	-1	0	1	10	3	3	5	1	-1	39	39	149
6 Kalihi Nuu	19	34	14	-1	18	54	38	57	55	15	0	7	0	41	6	1	-1	2	30	3	-2	0	5	14	-4	405
7 Iwilei	21	33	20	12	17	-1	-29	30	21	16	0	6	0	30	1	-1	-2	-3	15	3	-2	-1	0	16	17	219
8 Airport PH	25	10	8	8	16	13	39	63	55	36	-1	8	0	20	3	0	-1	-3	3	-1	1	-1	0	2	39	342
9 SaltLake H	55	27	20	16	31	39	128	175	184	75	2	28	1	72	2	5	-10	-4	12	-1	8	-2	0	5	68	936
10 PC 'Aiea	155	44	51	22	107	89	276	345	487	565	12	93	-4	306	36	31	20	7	46	13	11	4	-2	21	270	3005
11 'Ewa	120	42	55	22	144	90	179	165	181	347	573	628	37	589	23	31	20	13	38	46	54	7	36	60	591	4091
12 Kapolei	29	20	37	9	45	29	53	88	60	144	168	402	37	242	18	13	24	-3	13	23	8	1	32	23	213	1728
13 Makakilo	5	1	6	9	8	4	18	41	27	55	6	12	11	82	2	8	10	-4	5	15	0	8	-3	13	56	395
14 Waipahu	52	19	31	1	46	31	101	89	107	204	22	62	6	334	55	51	24	10	10	21	18	0	18	17	224	1553
15 Waiawa	52	19	30	13	39	30	73	59	99	158	12	76	9	286	68	140	33	3	7	19	21	6	0	4	120	1376
16 Mililani	39	6	-5	5	59	11	40	30	40	37	10	69	-1	174	27	101	48	-2	11	8	7	6	10	11	154	895
17 Wahiawā Sc	13	4	-2	4	22	-3	14	21	16	-8	5	26	-1	68	1	29	82	3	9	6	12	8	-1	22	41	391
18 E Honolulu	-2	0	8	-1	6	-8	-10	2	-6	15	-3	3	0	15	6	-2	-4	60	1	9	-8	-2	0	4	15	98
19 Kāne'ohe	-22	-4	-15	-5	-25	1	-16	-4	14	3	1	8	0	49	-1	-6	-2	-4	69	39	-10	-6	1	4	-34	35
20 Kailua	-2	2	-8	-3	-13	7	-3	11	-13	2	2	3	-2	32	4	-1	2	-4	-5	198	3	1	-1	7	1	220
21 Ko'olauloa	-2	2	-1	-1	-3	0	5	-1	0	0	-1	-3	2	5	-2	1	1	-3	0	8	12	2	0	3	4	28
22 North Shor	8	5	5	3	24	4	15	-1	8	12	3	14	0	28	-1	0	9	1	-3	7	0	22	-4	-2	38	195
23 Wai'anae	9	-8	9	6	13	12	6	7	16	6	2	17	-5	80	-5	13	3	-6	-4	-2	-9	0	67	14	67	308
24 Mānoa	15	18	24	6	47	4	27	19	14	2	0	-3	0	21	0	5	-1	4	10	8	0	1	-1	41	94	355
25 UHManoa	11	-2	3	-1	8	-4	2	2	-4	-1	0	0	2	0	0	0	1	1	1	0	0	0	0	3	3	25
Totals	573	53	426	100	702	430	1094	1226	1402	1730	810	1473	92	2561	247	423	258	79	296	424	134	52	154	449	1991	17179

Table 115. 2030 Difference in Non-Home Based Transit Trips: Fixed Guideway 20-mile Alignment vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Non-Home Based Transit Person P-A Trip Table
Fixed Guideway 20-mile Alignment vs. No Build Alternative

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	-19	12	32	-1	6	2	15	36	-2	1	0	4	0	-1	0	1	2	4	3	-3	4	1	-4	9	-3	99
2 Kaka'ako	-3	-157	40	18	-4	6	34	13	2	14	3	-4	0	-2	-1	2	-1	0	1	3	2	2	-1	18	-9	-24
3 Makiki	34	-13	118	-5	6	-3	16	15	8	4	4	-2	0	8	-3	-6	1	-2	-2	8	-3	-5	4	13	-2	193
4 Waikīkī	-16	-4	-5	-2	11	0	11	3	-6	9	2	0	-1	0	2	-1	-2	-1	0	-5	0	-2	3	4	0	0
5 Kaimukī Wa	5	-4	22	-3	24	-9	8	3	2	4	3	3	0	4	1	-5	3	0	-9	7	5	0	-3	9	-10	60
6 Kalihi Nuu	22	37	-9	9	1	-17	5	19	2	19	0	1	2	6	5	0	-3	1	-4	-2	-3	2	-1	2	0	94
7 Iwilei	43	56	36	23	6	17	-27	46	43	47	3	-3	1	10	-2	3	4	6	1	2	-2	2	-3	10	-5	317
8 Airport PH	73	28	37	12	18	34	75	-105	98	62	9	8	2	35	9	-1	8	0	9	12	-4	8	-2	-1	8	432
9 SaltLake H	82	46	36	33	4	28	108	178	41	156	15	20	5	48	19	12	3	0	4	11	-1	3	1	8	7	867
10 PC 'Aiea	123	66	54	43	17	37	116	181	212	479	47	55	1	228	73	39	11	-5	11	17	5	5	-5	6	13	1829
11 'Ewa	9	13	14	15	3	1	15	22	18	21	103	73	12	26	8	3	4	-1	-7	5	1	-1	4	7	6	374
12 Kapolei	23	14	15	20	4	2	17	38	16	53	133	295	3	63	-2	6	4	-1	-2	4	-4	-1	21	5	9	735
13 Makakilo	6	-7	2	0	1	1	3	8	-1	2	7	-4	2	5	1	0	2	0	-1	-1	-1	1	0	1	2	29
14 Waipahu	32	12	17	24	5	-2	24	49	30	114	36	27	2	151	39	27	9	0	7	6	-3	5	1	7	10	629
15 Waiawa	10	8	3	13	-1	4	14	26	5	36	16	11	-3	49	30	42	12	1	1	-1	5	-1	1	0	1	282
16 Mililani	4	2	19	0	5	7	6	13	-4	7	2	1	2	8	8	18	19	-3	-2	11	4	0	-1	-4	-2	120
17 Wahiawā Sc	-3	1	0	0	2	1	5	13	8	0	-6	3	3	1	3	13	48	4	-1	1	4	0	1	-3	2	100
18 E Honolulu	6	2	-4	2	8	-11	1	2	-7	-3	-7	7	0	5	-2	6	-5	1	2	3	-1	3	-6	4	-3	3
19 Kāne'ohe	5	-4	4	-4	-5	3	-1	-6	0	10	2	-2	3	-2	-1	5	5	0	87	9	-6	-1	-2	-4	2	97
20 Kailua	-7	-3	-1	0	-5	-1	5	-4	-8	0	5	4	-4	6	-1	2	2	-1	-8	13	-1	-2	-7	1	2	-13
21 Ko'olauloa	-2	-1	0	-2	-2	1	4	-2	2	-1	-1	0	-1	0	-1	0	0	-1	2	0	1	-1	-2	3	1	-3
22 North Shor	6	0	4	0	2	3	1	-3	0	5	-2	2	0	1	3	1	-6	-1	0	1	1	-2	3	-1	-2	16
23 Wai'anae	3	-3	2	6	-1	-5	-2	6	8	6	2	2	-1	-1	6	-2	-1	-5	-6	-1	-1	-1	8	-1	-2	16
24 Mānoa	13	5	11	7	5	-6	4	5	6	-2	-1	-2	1	1	1	1	2	-2	-1	-5	3	2	1	11	4	64
25 UHManoa	4	1	5	5	-4	2	2	5	-2	4	0	-2	2	1	-3	4	-2	-4	-1	1	1	0	0	7	3	29
Totals	453	107	452	213	106	95	459	561	471	1047	375	497	31	650	192	170	119	-10	84	96	6	17	11	111	32	6345

Table 116. 2030 Difference in Visitor Transit Trips: Fixed Guideway 20-mile Alignment vs. No Build Alternative

HHCTP Study
Year 2030 E-MODEL
Daily Visitor Transit Person P-A Trip Table
Fixed Guideway 20-mile Alignment Alternative vs. No-Build Altern

Production District	Attraction District 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Total
1 Downtown	0	0	5	7	1	-4	0	1	1	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	0	1	10
2 Kaka'ako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Makiki	26	0	1	0	-1	0	8	18	0	3	0	0	0	0	0	0	0	-1	0	0	0	2	0	0	2	58
4 Waikīkī	68	-8	17	20	-82	-5	21	292	-1	111	0	0	0	1	0	0	0	9	0	3	-1	9	-2	-2	1	451
5 Kaimukī Wa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Kalihi Nuu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Iwilei	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	3
8 Airport PH	24	-1	51	146	9	1	6	13	1	8	0	0	0	0	0	0	0	2	0	0	0	1	0	6	1	268
9 SaltLake H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PC 'Aiea	-2	-1	5	6	0	0	0	2	-2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
11 'Ewa	11	-1	20	44	1	2	2	15	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	100
12 Kapolei	5	1	11	36	0	-2	0	22	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	83
13 Makakilo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Waipahu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Waiawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Mililani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Wahiawā Sc	0	1	-1	10	0	-1	2	1	0	-2	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	14
18 E Honolulu	4	0	0	-6	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1
19 Kāne'ohe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Kailua	0	0	-1	-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-4
21 Ko'olauloa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 North Shor	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	5
23 Wai'anae	-1	0	0	2	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Mānoa	0	0	2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25 UHManoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	135	-9	111	271	-72	-9	38	365	-1	134	0	0	0	2	0	0	3	12	-2	3	-1	10	-2	6	5	999

AR00066470

Chapter 4 Ridership and Traffic Volume Impacts of the Managed Lane

This chapter describes the methodology and results of the travel demand forecasting for the Managed Lane Alternative. This alternative includes a two-lane, two-way toll facility from the Waiawa Interchange to Iwilei, which is identified as the Managed Lane Two-direction Option, and a reversible two-lane single-direction toll facility between the same endpoints, known as the Managed Lane Reversible Option. Refer to Chapter 1 for more discussion of these options.

Staged Analysis Procedure

Unlike the Fixed Guideway Alternative options, the Managed Lane Alternative includes highway capacity changes as well as transit service changes. Therefore a two-stage analysis was used to isolate the effect of both the transit service levels and the highway capacity changes.

Transit-Only Estimates

To estimate the effect of transit service improvements on the Managed Lane Alternative options, the congested times and speeds from the No Build Alternative were placed into the managed lane highway network at the link level. Links that represent the managed lane itself, and some access links to and from the managed lane, were assumed to operate at a free-flow, or uncongested, level since the purpose of the managed lane is to provide a higher level of service for a toll fee. The transit level-of-service skims (cost and time) were then created based on these travel times in the highway network. As with the Fixed Guideway Alternative, the No Build Alternative person-trip table and highway skims were used as the demand input to the mode choice model, which was run with the toll model off. In this way, the only change reflected for the Managed Lane Alternative was the improved transit speeds afforded by buses using the managed lane facility.

Toll Assessment and Level-Of-Service

To estimate the effect of the managed lane facility (and associated tolls) on the highway (i.e., vehicle) demand, the highway level-of-service files were created by running the standard toll skim procedure to produce a set of both mixed use and toll times and distances. The same highway network used for the transit-only estimate step above was used. In addition, the same transit skims used in the transit-only estimates were used in the toll assessment.

The toll model is implemented in the mode choice model, with toll trips as a subset of the drive-alone, 2 and 3+ auto trip choices. The utility for the toll choice differs from the non-toll choice by the addition of a coefficient on toll. The value of this coefficient is:

-0.0013 for Work tour trips (implied value of time $11.54/hr)

-0.0014 for At-Work tour trips (implied value of time $8.57/hr)

-0.0010 for Non-work tour trips, except coll/univ (implied value of time $6.00/hr)

-0.0027 for Home-Based university trips (implied value of time $5.56/hr).

A series of toll levels was then tested through the mode choice and assignment models until a reasonable volume/capacity ratio was obtained for the a.m. two-hour period. The associated fares are $2.50/$5.00 (off-peak/peak) for the Two-direction Option and $0.20 per mile/$0.45 per mile (off-peak/peak) for the Reversible Option. In both cases, this represents a peak-hour demand of about 1,800 to 2,000 vehicles per hour per lane. Note that the Reversible Option provides a two-lane reversible facility, while the Two-direction Option provides one lane in each direction on the managed lane facility. Finally, the Two-direction Option facility assumed that all vehicles would be required to pay the toll, while for the Reversible Option facility, autos with three or more occupants would be free. This change is in recognition that the zipper lane would exist under the Two-direction Option, but not in the Reversible Option.

Summary Statistics

Table 117 summarizes the transit and highway statistics for these managed lane options. The results indicate that the Reversible Option is expected to carry a higher number of vehicles per day with corresponding higher levels of vehicle-miles traveled and vehicle-hours traveled. It is also expected to carry marginally more transit trips than the Two-direction Option.

Table 117. Managed Lane Summary, Year 2030 Average Weekday

Measure	Managed Lane Two-direction Option	Managed Lane Reversible Option
Vehicle Miles Traveled	14,002,000	14,034,000
Vehicle Hours Traveled	384,000	397,000
Managed Lane Demand (Vehicles)	11,000	15,000
Total Transit Trips (linked)	247,000	247,400
Total Transit Boardings (unlinked)	359,400	362,100

Chapter 5 Ridership on Transit Facilities

This section describes the projected ridership impacts on the transit facilities for the Year 2030 Alternatives.

Transit Line Volumes

Table 118 through Table 125 display the transit route summaries for the year 2030 No Build, TSM, Managed Lane (two options), and Fixed Guideway (four options) Alternatives, respectively. This information includes the projected number of transit boardings, maximum load point volumes, and passenger miles by route for the peak, off-peak, and 24-hour periods. The No Build Alternative would handle 331,000 daily boardings on local buses, express buses, and ferry. This alternative would result in 1,760,000 passenger miles of daily bus/ferry travel. The TSM Alternative is projected to experience 354,200 daily bus and ferry boardings, resulting in 1,900,000 passenger miles of daily bus/ferry travel.

The Managed Lane Alternative options handle from 359,400 to 362,100 daily boardings on local buses, express buses, and ferry, resulting in 1,917,000 to 1,971,000 passenger miles of daily bus/ferry travel.

The Fixed Guideway Alternative Combination 1 would handle 128,000 daily fixed guideway boardings resulting in 1,176,000 passenger miles of daily travel on the fixed guideway plus 340,000 daily boardings on buses, resulting in a daily total of 1,288,000 passenger-miles of bus travel. The Fixed Guideway Alternative Combination 2 would handle 123,000 daily fixed guideway boardings, resulting in 1,185,000 passenger miles of daily travel on the fixed guideway plus 327,000 daily boardings on buses, resulting in a daily total of 1,254,000 passenger-miles of bus travel. The Fixed Guideway Alternative Combination 3 would handle 124,000 daily fixed guideway boardings, resulting in 1,219,000 passenger miles of daily travel on fixed guideway plus 345,000 daily boardings on buses, resulting in a daily total of 1,289,000 passenger-miles of bus travel. The 20-mile Alignment would handle 94,970 daily fixed guideway boardings, resulting n 899,680 passenger miles of daily travel on fixed guideway plus 360,000 daily boardings on buses, resulting in a daily total of 1,422,000 passenger-miles of bus travel.

Station Volumes by Access Modes

Table 126 through Table 129 summarize the a.m. peak-hour fixed guideway mode of access and departure at each of the stations for the four Fixed Guideway Alternative options, respectively. For all of the Fixed Guideway options, the primary mode of access to the stations overall was via bus, indicating the integration with and reliance on bus connections to the fixed guideway line to serve the greater study corridor area. The Full-corridor Alignment options show that more than half of the fixed guideway riders in the a.m. peak hour would access the system by transferring from a feeder bus while more than two-thirds would do the same for the 20-mile Alignment. Almost 20 percent of these bus-to-rail transfers would occur at the Pearl Highlands terminal station. Other significant transfer stations would be Kamehameha Highway/Kaonohi Street, Kapi‘olani Boulevard/McCulley Street (serving Waikīkī), and University Avenue/King Street

(serving East Honolulu). The a.m. peak hour walk access would be spread evenly throughout the system. Between 20 and 25 percent of all riders would access the system via automobile. Regarding mode of departure, the primary mode used for each of the three Full-corridor Alignments was walking. Over half to two-thirds of the fixed guideway trips would depart the stations via walking. This is because most of the large employment areas are concentrated along the fixed guideway alignments, while residential housing areas are more evenly spread throughout the island. Note that for the 20-mile Alignment, a higher number of trips are projected to egress the stations by bus as opposed to walking. This reflects the fact that the 20-mile Alignment would rely even more heavily on its integration with the bus system, particularly at its termini stations.

Fixed Guideway Link Volumes

The projected link volumes between the transit stations for the four Fixed Guideway Alternative options are listed in Table 130 through Table 133. The heaviest volumes are found on the link between the Salt Lake Boulevard / Kahuapa'ani Street and Salt Lake Boulevard / Ala Nioi Place stations for Combination 1 or between the Aloha Stadium and Kamehameha Highway / Radford Drive stations for the other three combination options. These links are forecasted to carry from 59,000 to 60,000 daily rail riders for the three Full-corridor Alignment combinations, and just over 55,000 for the 20-mile Alignment. The maximum one-way peak-hour volume is found on the same link, with a.m. peak-hour volumes ranging from 6,000 to 6,300 rail riders in the peak direction.

The a.m. peak-hour link volumes on the rail transit line are graphically displayed in Figure 5 through Figure 8. These figures show that eastbound trains would carry the greatest number of passengers in the morning. On the 'Ewa side of the transit corridor, the peak direction (Koko Head bound) accounts for 80 percent of the ridership. Peak direction ridership drops off dramatically after the Downtown stops, and the volume near the Pearl Highlands station (Kamehameha Highway / Kuala Street) is nearly 80 percent of the volume entering the Downtown area. This is reflective of the high number of riders traveling from ''Ewa and Central O'ahu to the Primary Urban Core, accessing the stations on the Leeward side by either feeder bus or park-and–ride lots.

Station-to-Station Volumes

Table 134 through Table 137 display the ridership projections for each station-to-station pair for the a.m. two-hour peak transit trips. These matrices show that the largest station-to-station interchange volumes are those between the Pearl Highlands Station, Downtown, Ala Moana Center, and UH Mānoa. These tables represent the a.m. peak two-hour travel period, whereas the data in the *Honolulu High-Capacity Transit Corridor Project Transportation Impacts Results Report (DTS, 2006e)* displays the a.m. one-hour peak transit trips. The peak hour is calculated as 55 percent of the two-hour peak-period trips.

Table 118. Transit Boardings and Passenger-Miles by Route – No Build Alternative

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
ABE	1957	2339	4296	1131	1338	17407	21439	38846
ABW	1351	1480	2831	738	740	9147	9029	18176
BAE	238	355	593	136	257	352	1003	1355
BAW	1451	1500	2951	666	784	2230	3231	5461
CAE	7298	0	7298	6445	0	156992	0	156992
CAW	0	0	0	0	0	0	0	0
CCE	0	3632	3632	0	3121	0	81817	81817
CCW	911	645	1556	462	385	11162	9113	20275
DAE	2573	0	2573	2282	0	50482	0	50482
DAW	0	0	0	0	0	0	0	0
DBE	0	1276	1276	0	1165	0	25983	25983
DBW	808	402	1210	646	323	8157	4956	13113
EAE	2870	0	2870	2383	0	40612	0	40612
EAW	0	0	0	0	0	0	0	0
EBE	0	2022	2022	0	1593	0	32558	32558
EBW	497	486	983	185	180	3462	3627	7089
1GE	3445	2286	5731	1842	1282	9293	6188	15481
1GW	4870	2388	7258	2953	1479	14101	7186	21287
1LE	1080	412	1492	865	341	6522	2849	9371
1LW	2609	1262	3871	2222	1140	19479	10629	30108
2BE	5865	2810	8675	2542	1168	12731	5998	18729
2BW	6267	3210	9477	3483	2034	14478	7376	21854
3AE	4248	2272	6520	1699	1101	14901	7700	22601
3AW	3248	2335	5583	1662	978	9472	6757	16229
3EE	825	447	1272	503	273	2356	1152	3508
3EW	803	581	1384	544	363	1990	1303	3293
4DE	794	347	1141	676	253	1494	616	2110
4DW	1073	552	1625	766	392	2089	941	3030
5AE	1004	208	1212	877	146	1635	489	2124
5AW	1142	508	1650	856	389	1942	883	2825
6AW	1919	1672	3591	940	836	4899	4057	8956
6BE	6392	3962	10354	4827	3174	13063	8686	21749
7AE	726	506	1232	373	344	1129	919	2048
7AW	828	471	1299	643	366	1763	985	2748
7BE	119	0	119	95	0	196	0	196
7BW	177	0	177	144	0	247	0	247
7CW	256	176	432	228	161	466	347	813
7DE	103	0	103	84	0	81	0	81
8AE	500	389	889	382	250	694	476	1170
8AW	547	668	1215	410	491	809	965	1774
9AE	797	785	1582	304	244	1758	1536	3294
9AW	1993	1728	3721	841	751	7057	5352	12409
9BE	1106	0	1106	359	0	3019	0	3019
9BW	1625	0	1625	703	0	5305	0	5305
9CE	568	0	568	266	0	1263	0	1263
9DE	506	0	506	240	0	1384	0	1384
9DW	860	0	860	541	0	3323	0	3323
10AE	148	229	377	118	111	254	318	572
10AW	223	532	755	151	232	515	826	1341
11AE	1269	774	2043	787	510	4711	3698	8409
11AW	320	662	982	145	391	1135	2524	3659
13AE	4612	3979	8591	1633	1348	10544	9101	19645
13AW	6219	5011	11230	3364	2943	15555	12644	28199
15AE	371	216	587	320	165	504	364	868
15AW	126	69	195	82	39	148	126	274
15BE	549	130	679	532	123	633	190	823
15BW	102	12	114	99	10	102	13	115
16AE	190	0	190	170	0	459	0	459
16AW	46	0	46	43	0	115	0	115
17AE	556	598	1154	540	575	415	445	860
17AW	333	475	808	321	448	374	481	855
18BE	725	701	1426	389	368	1089	1080	2169
18BW	1082	760	1842	639	457	1555	947	2502
19AE	992	1360	2352	458	417	2033	4099	6132
19AW	2175	2328	4503	871	876	5782	7562	13344
20AW	1353	1221	2574	543	472	3584	3297	6881

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
20BE	1038	998	2036	460	270	2061	2201	4262
20FE	682	525	1207	418	227	1185	755	1940
20FW	1069	654	1723	670	388	2293	1213	3506
23AE	629	529	1158	308	306	3750	3221	6971
23AW	1002	874	1876	517	524	6985	5456	12441
31AE	179	130	309	121	83	381	166	547
31AW	419	262	681	357	225	828	742	1570
32AW	1101	530	1631	527	289	3474	1563	5037
32BE	1095	742	1837	540	454	3105	1593	4698
40AE	3054	1422	4476	1035	421	17743	8841	26584
40AW	3996	1399	5395	1081	438	16606	5136	21742
40BE	3234	1476	4710	1032	404	17929	8421	26350
40BW	3979	1337	5316	1062	433	16723	4704	21427
41AE	959	445	1404	490	163	3112	1305	4417
41AW	1577	1003	2580	1023	592	6739	3471	10210
42AE	3827	1803	5630	1619	760	18433	8755	27188
42AW	4406	1704	6110	1354	503	13851	4062	17913
43AE	519	449	968	287	242	3737	2631	6368
43AW	0	0	0	0	0	0	0	0
43BW	199	173	372	67	39	406	276	682
50AE	1300	930	2230	532	482	3834	3943	7777
50AW	1277	1046	2323	451	493	3896	3935	7831
51AE	3866	1924	5790	2066	989	23816	12212	36028
51AW	5228	1943	7171	1778	571	24175	7290	31465
52AE	1913	0	1913	1027	0	32958	0	32958
52AW	0	0	0	0	0	0	0	0
52BE	0	2040	2040	0	1225	0	37225	37225
52BW	1764	1147	2911	938	576	13288	10733	24021
53AE	1719	872	2591	1082	438	9460	4282	13742
53AW	1232	672	1904	629	348	5014	2730	7744
54AE	728	615	1343	393	344	3907	3183	7090
54AW	912	504	1416	509	347	3621	2335	5956
54BE	700	680	1380	308	299	3116	3314	6430
54BW	782	505	1287	539	343	3656	2356	6012
55AE	2361	1147	3508	922	445	23868	11103	34971
55AW	1278	1173	2451	691	740	18727	18173	36900
56AE	2396	1256	3652	1290	782	15747	8873	24620
56AW	1575	1019	2594	659	404	9369	5695	15064
57AE	3191	1669	4860	1852	1070	25231	13486	38717
57AW	1109	826	1935	567	406	6570	5234	11804
57BE	1253	744	1997	851	541	8070	4740	12810
57BW	715	523	1238	446	271	3582	2329	5911
65AW	1150	0	1150	969	0	8703	0	8703
65CE	956	0	956	640	0	5777	0	5777
65CW	1233	0	1233	912	0	10557	0	10557
65DE	0	427	427	0	207	0	2378	2378
65DW	808	1190	1998	583	916	6631	11201	17832
70AE	253	151	404	180	78	399	261	660
70AW	236	0	236	215	0	461	0	461
70BW	871	878	1749	448	410	2643	2428	5071
71AE	344	0	344	331	0	474	0	474
71AW	395	0	395	346	0	894	0	894
73AE	376	0	376	297	0	480	0	480
73AW	29	0	29	29	0	5	0	5
73BE	324	209	533	243	136	397	276	673
73BW	67	61	128	42	48	35	33	68
74AE	329	0	329	289	0	854	0	854
74AW	339	0	339	274	0	821	0	821
77AE	326	228	554	142	90	1337	640	1977
77AW	143	97	240	70	52	458	454	912
131AE	416	257	673	404	249	812	498	1310
131AW	252	119	371	242	112	502	207	709
133AE	660	415	1075	341	174	1127	704	1831
133AW	557	333	890	390	160	1169	631	1800
231AE	203	146	349	182	134	373	265	638
231AW	104	64	168	67	40	171	127	298
232AE	58	57	115	58	54	65	52	117
232AW	30	59	89	30	59	32	56	88
401AE	55	40	95	55	40	87	65	152
401AW	334	197	531	334	196	704	406	1110

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
402AE	101	29	130	101	29	274	81	355
402AW	257	126	383	257	126	760	355	1115
403AE	232	133	365	219	120	476	277	753
403AW	149	170	319	108	96	314	278	592
411AE	799	459	1258	298	161	1387	792	2179
411AW	1633	871	2504	1045	523	3581	1872	5453
412AE	131	96	227	118	75	278	173	451
412AW	142	81	223	97	50	185	112	297
413AE	132	150	282	96	116	250	296	546
413AW	635	535	1170	584	477	1573	1275	2848
414AE	182	116	298	159	97	338	196	534
414AW	25	25	50	14	16	22	25	47
415AE	534	603	1137	246	297	1361	1648	3009
415AW	958	555	1513	684	323	3578	2079	5657
416AE	1233	1054	2287	1181	913	2866	2372	5238
416AW	1127	655	1782	982	445	2358	1368	3726
418AE	133	126	259	54	66	201	264	465
418AW	350	445	795	269	276	995	989	1984
422AE	584	379	963	325	175	1344	769	2113
422AW	591	356	947	269	146	1076	629	1705
432AE	53	25	78	45	18	58	22	80
432AW	34	24	58	32	18	32	20	52
432BE	52	32	84	38	22	59	39	98
432BW	61	36	97	47	19	63	24	87
433AE	351	122	473	218	63	778	211	989
433AW	374	274	648	201	149	884	636	1520
434AE	889	580	1469	833	521	2558	1544	4102
434AW	649	444	1093	553	391	1825	1236	3061
440AE	68	51	119	68	51	93	29	122
440AW	621	303	924	621	303	865	452	1317
441AE	1428	778	2206	1180	652	4042	1943	5985
441AW	1684	865	2549	1366	704	4343	2311	6654
501AE	338	117	455	321	92	803	241	1044
501AW	720	414	1134	574	303	1519	818	2337
502AE	311	236	547	311	234	249	194	443
502AW	273	211	484	161	125	365	333	698
503AE	7	12	19	7	12	4	14	18
503AW	21	4	25	21	3	31	3	34
504AE	41	18	59	29	8	42	12	54
504AW	149	151	300	84	102	197	186	383
505AE	24	18	42	20	18	24	13	37
505AW	83	70	153	76	67	58	46	104
511AE	144	61	205	131	54	263	102	365
511AW	288	167	455	265	157	408	241	649
512AE	110	39	149	100	29	291	88	379
512AW	225	112	337	222	107	650	311	961
513AE	1073	844	1917	778	648	1380	1028	2408
513AW	1288	879	2167	1164	773	1977	1596	3573
521AE	218	200	418	177	170	599	608	1207
521AW	80	29	109	72	21	155	53	208
522AE	176	114	290	90	55	429	329	758
522AW	212	86	298	167	50	578	490	1068
4FAE	951	0	951	825	0	2731	0	2731
4FAW	534	0	534	424	0	1162	0	1162
8FAE	88	0	88	71	0	215	0	215
8FAW	0	0	0	0	0	0	0	0
30FAE	26	0	26	25	0	40	0	40
30FAW	83	0	83	70	0	91	0	91
41FAE	94	0	94	85	0	381	0	381
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	402	0	402	387	0	1524	0	1524
80BE	0	0	0	0	0	0	0	0
80BW	207	0	207	104	0	1411	0	1411
80DE	0	0	0	0	0	0	0	0
80DW	129	0	129	44	0	407	0	407
80FE	0	0	0	0	0	0	0	0
80FW	118	0	118	107	0	992	0	992
81AE	252	0	252	195	0	2939	0	2939
81AW	0	0	0	0	0	0	0	0

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line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
82AE	0	0	0	0	0	0	0	0
82AW	110	0	110	103	0	1385	0	1385
83AE	144	0	144	138	0	2818	0	2818
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	363	0	363	301	0	6645	0	6645
83DE	545	0	545	386	0	11202	0	11202
83DW	0	0	0	0	0	0	0	0
83EE	94	0	94	73	0	950	0	950
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	78	0	78	50	0	794	0	794
84AE	179	0	179	121	0	2571	0	2571
84AW	0	0	0	0	0	0	0	0
84BE	124	0	124	71	0	1126	0	1126
84CE	140	0	140	88	0	1931	0	1931
84CW	0	0	0	0	0	0	0	0
84DE	197	0	197	158	0	3322	0	3322
85AE	80	0	80	53	0	829	0	829
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	227	0	227	181	0	2568	0	2568
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	50	0	50	36	0	267	0	267
86AE	0	0	0	0	0	0	0	0
86AW	193	0	193	98	0	1635	0	1635
86BE	0	0	0	0	0	0	0	0
86BW	93	0	93	87	0	1124	0	1124
88AE	153	0	153	140	0	1809	0	1809
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	338	0	338	245	0	7367	0	7367
88CE	0	0	0	0	0	0	0	0
88CW	363	0	363	240	0	7843	0	7843
89AE	101	0	101	99	0	1298	0	1298
89AW	0	0	0	0	0	0	0	0
90AW	0	0	0	0	0	0	0	0
90BE	187	0	187	170	0	2467	0	2467
91AE	786	0	786	739	0	14866	0	14866
91AW	0	0	0	0	0	0	0	0
92AE	540	0	540	534	0	12249	0	12249
92AW	0	0	0	0	0	0	0	0
93AE	1301	0	1301	1244	0	38073	0	38073
93AW	0	0	0	0	0	0	0	0
93BE	0	0	0	0	0	0	0	0
93BW	2	0	2	2	0	12	0	12
93CE	0	0	0	0	0	0	0	0
93FAE	66	0	66	64	0	389	0	389
93FAW	0	0	0	0	0	0	0	0
95AE	0	0	0	0	0	0	0	0
95AW	54	0	54	30	0	579	0	579
96AE	108	0	108	102	0	1475	0	1475
96AW	0	0	0	0	0	0	0	0
97AE	434	0	434	420	0	7134	0	7134
97AW	0	0	0	0	0	0	0	0
98AE	245	0	245	238	0	4676	0	4676
98AW	0	0	0	0	0	0	0	0
101AE	498	0	498	480	0	9007	0	9007
101AW	0	0	0	0	0	0	0	0
102AE	330	0	330	324	0	7019	0	7019
102AW	0	0	0	0	0	0	0	0
103AE	226	0	226	188	0	2501	0	2501
103AW	0	0	0	0	0	0	0	0
203AE	6	0	6	6	0	29	0	29
203AW	0	0	0	0	0	0	0	0
411FAE	36	0	36	35	0	102	0	102
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	45	0	45	45	0	102	0	102

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
415FAE	0	0	0	0	0	0	0	0
415FAW	38	0	38	18	0	49	0	49
441XAE	415	0	415	361	0	6406	0	6406
441XAW	0	0	0	0	0	0	0	0
900FAE	5	0	5	5	0	2	0	2
900FAW	0	0	0	0	0	0	0	0
901FAE	0	0	0	0	0	0	0	0
901FAW	38	0	38	38	0	44	0	44
910FAE	16	0	16	16	0	180	0	180
910FAW	0	0	0	0	0	0	0	0
total	110556	120067	330623			1161240	603249	1764489

Table 119. Transit Boardings and Passenger-Miles by Route – TSM Alternative

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
ABE	4011	2252	6263	2060	1361	31349	23084	54433
ABW	2097	1091	3188	1090	519	13331	7011	20342
BAE	247	241	488	143	148	351	553	904
BAW	1414	1416	2830	672	798	2114	3208	5322
CAE	4611	0	4611	3901	0	98709	0	98709
CAW	0	0	0	0	0	0	0	0
CBE	4835	0	4835	4202	0	88611	0	88611
CBW	0	0	0	0	0	0	0	0
CCE	0	3775	3775	0	3264	0	84515	84515
CCW	1005	545	1550	498	319	4975	7628	12603
CDE	0	0	0	0	0	0	0	0
CDW	1334	0	1334	1088	0	10191	0	10191
DAE	2472	0	2472	2171	0	47819	0	47819
DAW	0	0	0	0	0	0	0	0
DBE	0	1403	1403	0	1306	0	28603	28603
DBW	1390	420	1810	1115	369	11934	3985	15919
EAE	4020	0	4020	3050	0	48758	0	48758
EAW	0	0	0	0	0	0	0	0
EBE	0	2134	2134	0	1751	0	35413	35413
EBW	402	469	871	156	166	3117	3784	6901
1GE	2625	1761	4386	1473	918	6998	4648	11646
1GW	3512	1820	5332	1977	1092	9794	5335	15129
1LE	2385	1338	3723	1308	775	9154	4801	13955
1LW	5324	2664	7988	2906	1647	27345	14895	42240
2BE	5300	2696	7996	2221	1182	11336	5950	17286
2BW	5878	2994	8872	3094	1841	13872	7064	20936
3AE	4164	2156	6320	1622	977	14456	7321	21777
3AW	3160	2245	5405	1415	993	9545	6733	16278
3EE	771	439	1210	461	261	2182	1158	3340
3EW	710	510	1220	491	317	1745	1176	2921
4DE	2577	983	3560	1311	458	6482	2135	8617
4DW	2563	1369	3932	1134	669	5367	2708	8075
5AE	492	153	645	422	126	1244	408	1652
5AW	674	302	976	491	196	1595	686	2281
6AW	1524	1352	2876	826	654	4097	3382	7479
6BE	5945	3876	9821	4699	3136	11734	8628	20362
7AE	512	312	824	318	211	905	663	1568
7AW	731	373	1104	538	268	1693	806	2499
7BE	105	0	105	82	0	162	0	162
7BW	132	0	132	106	0	213	0	213
7CW	182	120	302	160	105	357	251	608
7DE	52	0	52	43	0	46	0	46
8BE	304	396	700	234	189	314	437	751
8BW	122	216	338	89	150	81	178	259
9AE	737	749	1486	242	220	1365	1328	2693
9AW	1896	1637	3533	732	691	6604	4972	11576
9BE	1109	0	1109	321	0	2657	0	2657
9BW	1599	0	1599	616	0	5038	0	5038
9CE	511	0	511	241	0	1025	0	1025
9DE	491	0	491	245	0	1339	0	1339
9DW	891	0	891	576	0	3408	0	3408
10AE	136	223	359	108	115	233	324	557
10AW	209	547	756	143	247	492	846	1338
11AE	1770	912	2682	1139	671	7984	4596	12580
11AW	454	991	1445	261	800	1904	4568	6472
13AE	4324	3752	8076	1547	1394	10226	8986	19212
13AW	5818	4704	10522	2973	2702	15335	12142	27477
15AE	162	148	310	120	93	284	264	548
15AW	30	57	87	19	32	35	115	150
15BE	199	58	257	179	50	262	80	342
15BW	11	6	17	11	6	10	7	17
17BE	2250	771	3021	960	374	4054	1492	5546
17BW	2683	765	3448	1530	478	4304	1471	5775
18BE	234	1002	1236	97	310	328	1470	1798
18BW	467	1096	1563	272	517	659	1566	2225
19AE	872	1258	2130	368	425	1749	4126	5875
19AW	2104	2338	4442	904	871	5586	7056	12642
20AW	1454	1184	2638	577	456	3748	2944	6692

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
20BE	847	795	1642	390	231	1723	1731	3454
20FE	536	440	976	301	165	851	615	1466
20FW	1086	723	1809	700	413	2308	1276	3584
23AE	607	435	1042	283	271	3198	2735	5933
23AW	737	611	1348	342	285	4617	3967	8584
31AE	164	111	275	112	64	345	149	494
31AW	421	265	686	361	227	868	767	1635
32AW	938	410	1348	534	244	3219	1164	4383
32BE	1242	607	1849	538	248	3552	1378	4930
40AE	2644	1458	4102	763	421	16126	9011	25137
40AW	3104	1311	4415	688	441	14461	5045	19506
40BE	2731	1559	4290	731	436	16461	9090	25551
40BW	3123	1279	4402	695	453	14254	4612	18866
41AE	1377	488	1865	776	178	4082	1379	5461
41AW	3016	1077	4093	2120	634	10854	3799	14653
42AE	3243	1743	4986	1379	758	15310	8904	24214
42AW	3919	1684	5603	893	482	12032	4234	16266
43AE	329	421	750	153	234	2453	2606	5059
43AW	0	0	0	0	0	0	0	0
43BW	188	205	393	41	44	326	265	591
50AE	1865	1717	3582	953	655	7812	6042	13854
50AW	1697	1633	3330	710	633	6576	5725	12301
51AE	3576	3108	6684	1832	1404	21610	19712	41322
51AW	4242	2859	7101	1563	906	20471	11432	31903
52AE	2599	0	2599	1347	0	44499	0	44499
52AW	0	0	0	0	0	0	0	0
52BE	0	1715	1715	0	1041	0	33379	33379
52BW	2095	984	3079	1065	476	16977	10253	27230
54CE	888	634	1522	779	502	6531	4387	10918
54CW	1391	577	1968	1046	414	8407	3616	12023
60AE	2426	1067	3493	1869	862	20331	8234	28565
60AW	1831	862	2693	1333	564	13934	6214	20148
61AE	1411	940	2351	897	637	6691	4363	11054
61AW	691	382	1073	332	195	3826	2321	6147
62CE	3297	2090	5387	2106	1465	36386	24951	61337
62CW	2681	1263	3944	1172	551	28950	12425	41375
63AE	2625	1471	4096	1959	1024	25557	14361	39918
63AW	1644	866	2510	964	491	10313	6666	16979
64AE	594	491	1085	324	216	1884	1500	3384
64AW	714	658	1372	406	294	2290	1857	4147
65FE	239	94	333	212	46	989	284	1273
65FW	373	173	546	460	76	2469	626	3095
66AE	234	81	315	182	48	2392	620	3012
66AW	371	134	505	326	110	3788	1747	5535
131AE	427	268	695	416	255	833	512	1345
131AW	258	121	379	252	117	516	237	753
133AE	653	379	1032	354	180	1056	587	1643
133AW	565	304	869	396	163	1179	582	1761
231AE	230	157	387	209	145	422	284	706
231AW	96	66	162	62	43	168	126	294
232AE	66	60	126	66	60	72	52	124
232AW	32	55	87	31	55	34	51	85
301AE	802	649	1451	565	522	2161	2483	4644
301AW	636	320	956	421	215	1823	749	2572
401AE	199	46	245	180	46	334	77	411
401AW	330	194	524	329	194	695	403	1098
402AE	117	22	139	114	22	316	59	375
402AW	251	127	378	251	127	733	357	1090
403AE	220	130	350	215	117	469	270	739
403AW	159	169	328	113	96	348	278	626
411AE	999	475	1474	314	174	1782	816	2598
411AW	2234	925	3159	1512	586	4941	1987	6928
412AE	142	95	237	127	76	302	184	486
412AW	154	70	224	115	52	237	104	341
413AE	188	155	343	128	118	351	306	657
413AW	985	594	1579	865	541	2336	1407	3743
414AE	99	114	213	79	96	190	193	383
414AW	21	19	40	14	10	12	17	29
415AE	613	658	1271	291	304	1585	1706	3291
415AW	1274	568	1842	880	317	4311	2056	6367

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
416AE	2558	1197	3755	2377	1044	5093	2616	7709
416AW	1419	732	2151	1130	467	3000	1531	4531
418AE	295	136	431	201	94	436	284	720
418AW	791	489	1280	530	296	1741	1088	2829
422AE	2093	407	2500	1596	207	3968	871	4839
422AW	1301	360	1661	565	154	2194	658	2852
432AE	54	22	76	42	16	52	16	68
432AW	29	34	63	24	18	26	22	48
432BE	43	39	82	32	28	44	47	91
432BW	108	31	139	62	21	70	17	87
433AE	413	86	499	224	63	930	114	1044
433AW	774	177	951	412	96	2087	461	2548
434AE	1062	636	1698	959	582	2789	1751	4540
434AW	829	483	1312	689	405	2386	1259	3645
435AE	124	104	228	45	42	125	125	250
435AW	126	102	228	75	52	166	109	275
440AE	92	55	147	92	55	126	29	155
440AW	410	293	703	410	293	574	388	962
441AE	1575	667	2242	1353	552	4308	1662	5970
441AW	1567	984	2551	1190	813	3832	2615	6447
501AE	282	109	391	258	102	643	265	908
501AW	619	456	1075	476	322	1221	920	2141
502AE	299	258	557	293	255	233	217	450
502AW	281	230	511	176	142	384	344	728
503AE	5	5	10	5	5	3	3	6
503AW	24	7	31	23	7	35	14	49
504AE	99	20	119	82	8	121	12	133
504AW	169	139	308	109	89	207	182	389
505AE	15	18	33	12	16	14	20	34
505AW	114	79	193	108	70	88	64	152
511AE	169	70	239	151	61	305	117	422
511AW	501	200	701	430	188	599	283	882
512AE	123	38	161	117	31	339	90	429
512AW	201	113	314	198	107	578	316	894
513AE	1052	862	1914	755	670	1351	1049	2400
513AW	1380	892	2272	1253	792	2154	1631	3785
521AE	247	206	453	208	175	692	625	1317
521AW	105	27	132	98	18	207	51	258
522AE	175	116	291	94	58	464	331	795
522AW	273	83	356	204	51	731	209	940
523AE	4	8	12	2	6	9	23	32
523AW	19	12	31	19	12	44	35	79
541AE	498	168	666	296	99	1340	326	1666
541AW	680	265	945	480	171	1293	479	1772
542AE	355	96	451	352	88	996	255	1251
542AW	368	223	591	313	169	798	621	1419
543AE	34	34	68	33	34	67	21	88
543AW	522	221	743	468	195	1134	477	1611
544AE	31	25	56	19	15	9	11	20
544AW	33	32	65	27	17	17	15	32
545AE	390	207	597	328	183	965	517	1482
545AW	14	20	34	12	17	27	25	52
546AE	52	55	107	49	50	85	65	150
546AW	231	142	373	197	118	293	185	478
547AE	918	409	1327	826	361	2632	1235	3867
547AW	479	162	641	430	137	848	320	1168
548AE	1069	427	1496	554	279	2900	1190	4090
548AW	869	409	1278	471	273	1813	906	2719
549AE	27	25	52	20	15	37	35	72
549AW	51	41	92	30	22	48	43	91
611AE	467	368	835	264	213	1063	819	1882
611AW	584	427	1011	202	145	1047	829	1876
613AE	116	114	230	80	55	184	143	327
613AW	49	79	128	40	35	69	96	165
615AE	246	134	380	173	73	443	202	645
615AW	287	148	435	262	133	548	377	925
4FAE	869	0	869	761	0	2632	0	2632
4FAW	352	0	352	305	0	777	0	777
8FAE	73	0	73	61	0	178	0	178
8FAW	0	0	0	0	0	0	0	0

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
30FAE	12	0	12	12	0	19	0	19
30FAW	72	0	72	55	0	76	0	76
41FAE	54	0	54	52	0	174	0	174
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	377	0	377	362	0	1376	0	1376
80BE	0	0	0	0	0	0	0	0
80BW	176	0	176	86	0	1058	0	1058
80DE	0	0	0	0	0	0	0	0
80DW	96	0	96	39	0	227	0	227
80FE	0	0	0	0	0	0	0	0
80FW	108	0	108	94	0	873	0	873
81AE	218	0	218	165	0	2449	0	2449
81AW	0	0	0	0	0	0	0	0
82AE	0	0	0	0	0	0	0	0
82AW	105	0	105	94	0	1258	0	1258
83AE	156	0	156	151	0	3087	0	3087
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	338	0	338	290	0	6416	0	6416
83DE	468	0	468	398	0	10810	0	10810
83DW	0	0	0	0	0	0	0	0
83EE	93	0	93	82	0	1129	0	1129
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	68	0	68	48	0	696	0	696
84AE	182	0	182	125	0	2619	0	2619
84AW	0	0	0	0	0	0	0	0
84BE	92	0	92	59	0	717	0	717
84CE	108	0	108	81	0	1586	0	1586
84CW	0	0	0	0	0	0	0	0
84DE	192	0	192	157	0	3013	0	3013
85AE	67	0	67	60	0	748	0	748
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	147	0	147	111	0	1438	0	1438
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	48	0	48	27	0	316	0	316
86AE	0	0	0	0	0	0	0	0
86AW	102	0	102	87	0	1267	0	1267
86BE	0	0	0	0	0	0	0	0
86BW	90	0	90	72	0	986	0	986
88AE	189	0	189	165	0	2173	0	2173
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	251	0	251	214	0	6189	0	6189
88CE	0	0	0	0	0	0	0	0
88CW	259	0	259	214	0	6634	0	6634
89AE	105	0	105	103	0	1378	0	1378
89AW	0	0	0	0	0	0	0	0
90AW	0	0	0	0	0	0	0	0
90BE	75	0	75	74	0	1084	0	1084
91AE	772	0	772	729	0	14604	0	14604
91AW	0	0	0	0	0	0	0	0
92AE	414	0	414	411	0	9412	0	9412
92AW	0	0	0	0	0	0	0	0
93AE	1337	0	1337	1267	0	38988	0	38988
93AW	0	0	0	0	0	0	0	0
93BE	0	0	0	0	0	0	0	0
93BW	2	0	2	2	0	12	0	12
93CE	0	0	0	0	0	0	0	0
93FAE	57	0	57	52	0	305	0	305
93FAW	0	0	0	0	0	0	0	0
95AE	0	0	0	0	0	0	0	0
95AW	56	0	56	33	0	662	0	662
96AE	70	0	70	67	0	991	0	991
96AW	0	0	0	0	0	0	0	0
97AE	31	0	31	30	0	493	0	493
97AW	0	0	0	0	0	0	0	0

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
98AE	586	0	586	449	0	8805	0	8805
98AW	0	0	0	0	0	0	0	0
101AE	489	0	489	483	0	9016	0	9016
101AW	0	0	0	0	0	0	0	0
102AE	172	0	172	169	0	3615	0	3615
102AW	0	0	0	0	0	0	0	0
103AE	145	0	145	131	0	1849	0	1849
103AW	0	0	0	0	0	0	0	0
203AE	7	0	7	7	0	37	0	37
203AW	0	0	0	0	0	0	0	0
411FAE	8	0	8	8	0	24	0	24
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	30	0	30	29	0	61	0	61
415FAE	0	0	0	0	0	0	0	0
415FAW	2	0	2	2	0	2	0	2
434XAE	567	0	567	561	0	10017	0	10017
434XAW	0	0	0	0	0	0	0	0
440XAE	259	0	259	207	0	2378	0	2378
440XAW	0	0	0	0	0	0	0	0
441XAE	522	0	522	446	0	7693	0	7693
441XAW	0	0	0	0	0	0	0	0
900FAE	5	0	5	5	0	0	0	0
900FAW	0	0	0	0	0	0	0	0
901FAE	0	0	0	0	0	0	0	0
901FAW	22	0	22	22	0	25	0	25
910FAE	16	0	16	16	0	180	0	180
910FAW	0	0	0	0	0	0	0	0
totals	228779	125393	354172			1263111	6264	811889592

Table 120. Transit Boardings and Passenger-Miles by Route – Managed Lane Alternative Two-direction Option

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
ABE	4162	2670	6832	2718	1685	42835	27622	70457
ABW	1613	1257	2870	909	736	11109	8254	19363
BAE	262	227	489	142	139	369	545	914
BAW	1299	1454	2753	667	800	1941	3207	5148
CAE	2560	0	2560	2134	0	61027	0	61027
CAW	0	0	0	0	0	0	0	0
CCE	0	3345	3345	0	2875	0	75784	75784
CCW	557	520	1077	345	301	5433	6859	12292
DAE	1529	0	1529	1313	0	28386	0	28386
DAW	0	0	0	0	0	0	0	0
DBE	0	1243	1243	0	1085	0	24687	24687
DBW	1394	455	1849	986	321	12298	4746	17044
1GE	2564	1830	4394	1341	965	6591	4769	11360
1GW	3253	1888	5141	1770	1158	9051	5525	14576
1LE	2293	1385	3678	1211	774	8839	4854	13693
1LW	5191	2734	7925	2760	1660	26590	15121	41711
2BE	5063	2715	7778	2283	1169	10675	5933	16608
2BW	5561	3038	8599	2804	1869	13061	7167	20228
3AE	4111	2202	6313	1746	1002	15019	7459	22478
3AW	2799	2385	5184	1195	1020	8522	6879	15401
3EE	831	429	1260	472	252	2332	1092	3424
3EW	805	549	1354	469	338	1807	1220	3027
4DE	2313	1283	3596	1319	630	6183	3013	9196
4DW	2417	1378	3795	1109	633	4833	2700	7533
5AE	460	166	626	379	133	1085	431	1516
5AW	670	343	1013	491	194	1615	708	2323
6AW	1467	1440	2907	817	689	3867	3367	7234
6BE	5554	3842	9396	4460	3135	10545	8061	18606
7AE	518	312	830	333	208	929	653	1582
7AW	743	371	1114	559	272	1745	808	2553
7BE	95	0	95	86	0	165	0	165
7BW	124	0	124	96	0	186	0	186
7CW	192	125	317	165	107	373	262	635
7DE	51	0	51	34	0	43	0	43
8BE	167	363	530	103	186	134	413	547
8BW	98	219	317	63	170	62	176	238
9AE	1482	933	2415	526	252	3449	1851	5300
9AW	3868	1782	5650	1520	746	11800	5833	17633
9BE	1590	0	1590	545	0	4244	0	4244
9BW	3769	0	3769	1568	0	11387	0	11387
9CE	1239	0	1239	530	0	2595	0	2595
9DE	1095	0	1095	443	0	3014	0	3014
9DW	1628	0	1628	1012	0	5264	0	5264
10AE	130	228	358	108	123	226	347	573
10AW	202	544	746	140	233	482	857	1339
11AE	194	17	211	158	8	1296	53	1349
11AW	321	24	345	308	15	2147	22	2169
13AE	3841	3789	7630	1185	1385	8757	8813	17570
13AW	5424	4730	10154	2656	2692	14031	12084	26115
15AE	171	140	311	133	91	292	261	553
15AW	35	53	88	21	30	48	104	152
15BE	176	70	246	160	59	235	99	334
15BW	17	5	22	17	5	16	6	22
17BE	2188	805	2993	946	401	4001	1526	5527
17BW	2559	996	3555	1413	652	4093	1719	5812
18BE	224	311	535	98	107	304	463	767
18BW	344	328	672	190	134	513	460	973
19AE	707	1259	1966	319	399	1494	4867	6361
19AW	2367	2254	4621	1137	880	6673	7345	14018
20AW	1211	1137	2348	510	479	3281	3033	6314
20BE	646	764	1410	207	225	1307	1702	3009
20FE	262	435	697	137	193	385	616	1001
20FW	855	717	1572	548	425	1880	1332	3212
23AE	565	456	1021	301	289	3191	2918	6109
23AW	779	623	1402	351	293	4869	4039	8908
31AE	148	119	267	129	70	368	161	529

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
31AW	424	263	687	375	221	887	754	1641
32AW	2068	371	2439	829	260	6077	1041	7118
32BE	2389	564	2953	1177	268	7184	1205	8389
40AE	2816	1465	4281	1065	425	21142	9629	30771
40AW	2626	1304	3930	545	468	13114	5159	18273
40BE	2885	1506	4391	1059	409	21167	9185	30352
40BW	2776	1268	4044	577	483	13758	4678	18436
41AE	1087	462	1549	533	197	3628	1521	5149
41AW	3158	1235	4393	2298	803	9919	4760	14679
42AE	3698	1943	5641	1829	890	21564	10979	32543
42AW	3431	1779	5210	732	504	10636	4687	15323
42LAE	2181	0	2181	1885	0	35789	0	35789
42LAW	0	0	0	0	0	0	0	0
42LBE	0	1239	1239	0	1083	0	21662	21662
42LBW	334	157	491	152	82	2832	1624	4456
43AE	322	488	810	190	312	3049	3710	6759
43AW	0	0	0	0	0	0	0	0
43BW	175	213	388	72	50	282	447	729
50AE	1693	1644	3337	937	626	7517	5907	13424
50AW	1872	1661	3533	730	586	6883	5529	12412
51AE	3840	3217	7057	2286	1508	26224	20959	47183
51AW	3853	2845	6698	1620	948	19237	11486	30723
52AE	2344	0	2344	1184	0	39302	0	39302
52AW	0	0	0	0	0	0	0	0
52BE	0	1749	1749	0	1075	0	34268	34268
52BW	2075	1089	3164	1126	540	16138	10029	26167
54CE	1140	759	1899	1000	627	8313	5393	13706
54CW	861	618	1479	646	431	5287	3770	9057
60AE	2428	1034	3462	1898	863	20567	8251	28818
60AW	1768	818	2586	1361	531	14185	5890	20075
61AE	1337	945	2282	880	632	6570	4381	10951
61AW	636	367	1003	335	184	3709	2197	5906
62CE	3326	2124	5450	2171	1514	37658	25728	63386
62CW	2641	1287	3928	1179	579	29384	12744	42128
63AE	2708	1502	4210	2045	1028	26347	14604	40951
63AW	1650	869	2519	946	491	10233	6549	16782
64AE	587	492	1079	323	215	1899	1499	3398
64AW	720	670	1390	415	303	2346	1942	4288
65FE	197	75	272	206	41	842	214	1056
65FW	288	121	409	462	55	2014	379	2393
66AE	292	100	392	243	67	3171	869	4040
66AW	417	168	585	355	137	4115	2087	6202
100XAE	2278	0	2278	1832	0	37571	0	37571
100XAW	524	0	524	301	0	5616	0	5616
100XBE	0	183	183	0	97	0	1488	1488
100XBW	0	74	74	0	35	0	143	143
101XAE	1079	0	1079	724	0	16166	0	16166
101XAW	240	0	240	89	0	737	0	737
101XBE	0	374	374	0	241	0	5562	5562
101XBW	0	86	86	0	38	0	219	219
102XAE	2730	0	2730	2059	0	39166	0	39166
102XAW	544	0	544	368	0	1972	0	1972
102XBE	0	472	472	0	305	0	6817	6817
102XBW	0	104	104	0	45	0	644	644
131AE	428	263	691	418	255	836	514	1350
131AW	259	120	379	253	117	511	236	747
133AE	645	377	1022	360	182	1057	581	1638
133AW	554	293	847	402	164	1177	557	1734
200XAE	78	0	78	38	0	80	0	80
200XAW	100	0	100	72	0	379	0	379
200XBE	0	20	20	0	10	0	18	18
200XBW	0	30	30	0	18	0	24	24
201XAE	172	0	172	121	0	267	0	267
201XAW	108	0	108	68	0	189	0	189
201XBE	0	42	42	0	24	0	67	67
201XBW	0	41	41	0	19	0	84	84
202XAE	1949	0	1949	1520	0	25922	0	25922
202XAW	455	0	455	382	0	1459	0	1459
202XBE	0	261	261	0	210	0	4421	4421
202XBW	0	51	51	0	32	0	210	210

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
231AE	228	156	384	207	144	417	282	699
231AW	95	73	168	58	49	163	143	306
232AE	67	59	126	67	59	74	52	126
232AW	37	54	91	36	54	39	51	90
300XE	673	46	719	640	39	9152	561	9713
300XW	0	20	20	0	13	0	78	78
301AE	557	666	1223	401	538	1765	2703	4468
301AW	365	321	686	246	209	974	712	1686
301XE	443	124	567	310	102	5209	1637	6846
301XW	0	37	37	0	23	0	120	120
302XE	1450	206	1656	1144	162	13364	2686	16050
302XW	0	55	55	0	32	0	203	203
401AE	198	44	242	180	44	333	73	406
401AW	328	194	522	328	194	689	403	1092
402AE	117	32	149	112	32	315	87	402
402AW	254	124	378	253	124	736	350	1086
403AE	225	132	357	214	118	473	270	743
403AW	160	167	327	116	96	353	274	627
411AE	561	326	887	273	154	1141	568	1709
411AW	2225	848	3073	1575	621	4719	1842	6561
412AE	141	94	235	125	77	304	186	490
412AW	121	65	186	107	56	195	110	305
413AE	153	146	299	104	121	261	305	566
413AW	814	631	1445	764	586	1930	1489	3419
414AE	95	107	202	81	92	195	187	382
414AW	18	22	40	11	12	10	28	38
415AE	590	585	1175	264	248	1728	1571	3299
415AW	1043	585	1628	670	332	3195	2184	5379
416AE	2312	1212	3524	1990	1039	4267	2592	6859
416AW	1384	721	2105	1092	459	2926	1504	4430
418AE	193	107	300	139	56	299	192	491
418AW	747	454	1201	506	294	1576	1011	2587
422AE	2313	503	2816	1377	266	3588	1001	4589
422AW	1682	335	2017	931	168	2473	643	3116
432AE	18	29	47	17	22	15	21	36
432AW	21	28	49	20	17	18	20	38
432BE	47	37	84	37	26	49	46	95
432BW	97	31	128	59	17	59	23	82
433AE	339	84	423	189	65	780	107	887
433AW	703	141	844	409	79	1811	383	2194
434AE	1187	671	1858	1081	605	3227	1800	5027
434AW	831	482	1313	711	420	2402	1324	3726
435AE	130	118	248	58	45	135	138	273
435AW	114	111	225	65	56	138	123	261
440AE	148	91	239	105	59	207	129	336
440AW	549	285	834	549	285	994	374	1368
441AE	1493	685	2178	1231	544	3655	1506	5161
441AW	1662	937	2599	1421	852	4866	2936	7802
501AE	325	128	453	297	107	748	295	1043
501AW	887	428	1315	599	332	1529	894	2423
502AE	296	257	553	293	256	232	223	455
502AW	267	227	494	172	142	365	333	698
503AE	6	6	12	6	6	4	3	7
503AW	19	7	26	18	6	27	11	38
504AE	100	24	124	83	9	121	14	135
504AW	173	144	317	105	97	222	184	406
505AE	17	21	38	14	20	15	20	35
505AW	159	75	234	147	68	120	49	169
511AE	147	73	220	131	66	263	124	387
511AW	499	198	697	428	186	599	279	878
512AE	120	41	161	114	33	325	95	420
512AW	199	113	312	196	108	567	315	882
513AE	1064	860	1924	769	665	1369	1044	2413
513AW	1439	897	2336	1312	794	2213	1624	3837
521AE	242	208	450	204	177	677	632	1309
521AW	104	35	139	94	26	193	65	258
522AE	177	116	293	93	57	460	329	789
522AW	270	92	362	205	54	737	241	978
523AE	5	3	8	3	2	12	5	17
523AW	21	15	36	20	14	54	43	97

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line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
541AE	704	405	1109	369	166	1986	960	2946
541AW	904	499	1403	567	297	1859	1019	2878
542AE	399	126	525	389	113	1256	324	1580
542AW	389	245	634	323	172	877	673	1550
543AE	30	30	60	30	30	61	18	79
543AW	564	241	805	495	203	1197	511	1708
544AE	37	30	67	29	19	11	15	26
544AW	46	54	100	35	24	22	37	59
545AE	425	250	675	348	217	1031	579	1610
545AW	8	21	29	8	17	14	22	36
546AE	44	54	98	41	52	70	67	137
546AW	253	178	431	214	148	326	225	551
547AE	978	430	1408	870	381	2862	1329	4191
547AW	479	168	647	426	144	856	365	1221
548AE	1130	0	1130	605	0	3109	0	3109
548AW	923	738	1661	551	518	1878	2655	4533
549AE	192	950	1142	102	838	178	2119	2297
549AW	188	592	780	118	460	182	724	906
611AE	467	372	839	265	216	1075	825	1900
611AW	586	433	1019	209	149	1060	856	1916
613AE	116	114	230	81	58	183	140	323
613AW	49	80	129	40	36	71	103	174
615AE	243	132	375	175	73	449	196	645
615AW	281	153	434	258	133	531	467	998
4FAE	1029	0	1029	968	0	3115	0	3115
4FAW	310	0	310	267	0	647	0	647
8FAE	49	0	49	40	0	137	0	137
8FAW	0	0	0	0	0	0	0	0
30FAE	12	0	12	12	0	20	0	20
30FAW	5	0	5	5	0	5	0	5
41FAE	139	0	139	123	0	476	0	476
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	294	0	294	276	0	1107	0	1107
80BE	0	0	0	0	0	0	0	0
80BW	199	0	199	122	0	948	0	948
80DE	0	0	0	0	0	0	0	0
80DW	138	0	138	79	0	239	0	239
80FE	0	0	0	0	0	0	0	0
80FW	109	0	109	99	0	886	0	886
81AE	168	0	168	163	0	2447	0	2447
81AW	0	0	0	0	0	0	0	0
82AE	0	0	0	0	0	0	0	0
82AW	216	0	216	205	0	2561	0	2561
83AE	161	0	161	148	0	2888	0	2888
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	366	0	366	311	0	6565	0	6565
83DE	488	0	488	418	0	10992	0	10992
83DW	0	0	0	0	0	0	0	0
83EE	89	0	89	81	0	1114	0	1114
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	75	0	75	49	0	921	0	921
84AE	146	0	146	100	0	2069	0	2069
84AW	0	0	0	0	0	0	0	0
84BE	98	0	98	56	0	1017	0	1017
84CE	177	0	177	103	0	2104	0	2104
84CW	0	0	0	0	0	0	0	0
84DE	193	0	193	148	0	2714	0	2714
85AE	67	0	67	55	0	776	0	776
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	152	0	152	118	0	1522	0	1522
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	42	0	42	25	0	244	0	244
86AE	0	0	0	0	0	0	0	0
86AW	101	0	101	87	0	1264	0	1264
86BE	0	0	0	0	0	0	0	0

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
86BW	93	0	93	74	0	1011	0	1011
88AE	193	0	193	168	0	2210	0	2210
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	263	0	263	236	0	6654	0	6654
88CE	0	0	0	0	0	0	0	0
88CW	287	0	287	227	0	7127	0	7127
89AE	108	0	108	106	0	1410	0	1410
89AW	0	0	0	0	0	0	0	0
90AW	0	0	0	0	0	0	0	0
90BE	53	0	53	52	0	675	0	675
91AE	488	0	488	454	0	9227	0	9227
91AW	0	0	0	0	0	0	0	0
92AE	405	0	405	396	0	8805	0	8805
92AW	0	0	0	0	0	0	0	0
93AE	1972	0	1972	1882	0	51268	0	51268
93AW	0	0	0	0	0	0	0	0
93BE	0	0	0	0	0	0	0	0
93BW	5	0	5	5	0	48	0	48
93CE	0	0	0	0	0	0	0	0
93FAE	137	0	137	78	0	478	0	478
93FAW	0	0	0	0	0	0	0	0
95AE	0	0	0	0	0	0	0	0
95AW	47	0	47	26	0	522	0	522
96AE	187	0	187	177	0	2581	0	2581
96AW	0	0	0	0	0	0	0	0
97AE	102	0	102	102	0	1652	0	1652
97AW	0	0	0	0	0	0	0	0
98AE	533	0	533	425	0	8856	0	8856
98AW	0	0	0	0	0	0	0	0
101AE	209	0	209	205	0	3834	0	3834
101AW	0	0	0	0	0	0	0	0
102AE	123	0	123	122	0	2542	0	2542
102AW	0	0	0	0	0	0	0	0
103AE	132	0	132	117	0	1724	0	1724
103AW	0	0	0	0	0	0	0	0
203AE	9	0	9	9	0	50	0	50
203AW	0	0	0	0	0	0	0	0
411FAE	58	0	58	44	0	130	0	130
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	90	0	90	90	0	202	0	202
415FAE	0	0	0	0	0	0	0	0
415FAW	80	0	80	40	0	110	0	110
434XAE	462	0	462	454	0	8046	0	8046
434XAW	0	0	0	0	0	0	0	0
440XAE	162	0	162	152	0	1747	0	1747
440XAW	0	0	0	0	0	0	0	0
441XAE	352	0	352	329	0	3767	0	3767
441XAW	0	0	0	0	0	0	0	0
900FAE	0	0	0	0	0	0	0	0
900FAW	0	0	0	0	0	0	0	0
901FAE	0	0	0	0	0	0	0	0
901FAW	23	0	23	23	0	26	0	26
910FAE	30	0	30	30	0	339	0	339
910FAW	0	0	0	0	0	0	0	0
totals	232264	127133	359397			1280400	6362061	916606

Table 121. Transit Boardings and Passenger-Miles by Route – Managed Lane Alternative Reversible Option

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
ABE	2855	2765	5620	1395	1794	23659	29026	52685
ABW	2104	1245	3349	1141	739	13749	8467	22216
BAE	249	245	494	150	152	348	593	941
BAW	1355	1439	2794	679	809	2057	3153	5210
CAE	1674	0	1674	1112	0	34740	0	34740
CAW	850	0	850	453	0	10860	0	10860
CBE	0	4003	4003	0	3495	0	91633	91633
CBW	0	651	651	0	332	0	8542	8542
CCE	0	0	0	0	0	0	0	0
CCW	0	0	0	0	0	0	0	0
DAE	1290	0	1290	1132	0	18756	0	18756
DAW	0	0	0	0	0	0	0	0
DBE	0	1290	1290	0	1140	0	25902	25902
DBW	1317	394	1711	950	299	11835	4001	15836
1GE	2846	1810	4656	1551	977	7477	4727	12204
1GW	3851	1900	5751	2045	1164	10378	5573	15951
1LE	2509	1361	3870	1400	769	9791	4722	14513
1LW	5452	2704	8156	2986	1656	27482	14992	42474
2BE	4806	2757	7563	2251	1236	10357	6064	16421
2BW	5992	2992	8984	3040	1856	14048	7109	21157
3AE	4242	2171	6413	1788	991	15285	7385	22670
3AW	3183	2367	5550	1428	1039	9625	6916	16541
3EE	802	446	1248	496	259	2414	1153	3567
3EW	749	518	1267	516	320	1878	1140	3018
4DE	2757	1265	4022	1567	618	7880	2927	10807
4DW	2433	1402	3835	1070	650	4922	2778	7700
5AE	493	182	675	405	140	1142	460	1602
5AW	695	332	1027	485	198	1579	707	2286
6AW	1512	1404	2916	821	699	4075	3354	7429
6BE	5463	3997	9460	4291	3252	10593	8320	18913
7AE	495	333	828	314	216	888	690	1578
7AW	727	379	1106	550	267	1651	810	2461
7BE	85	0	85	75	0	133	0	133
7BW	128	0	128	104	0	203	0	203
7CW	184	121	305	162	107	359	256	615
7DE	65	0	65	44	0	57	0	57
8BE	153	389	542	97	219	127	448	575
8BW	116	189	305	78	141	72	151	223
9AE	794	885	1679	302	239	1710	1715	3425
9AW	1913	1643	3556	732	693	6689	5040	11729
9BE	1071	0	1071	344	0	2789	0	2789
9BW	1598	0	1598	655	0	5194	0	5194
9CE	518	0	518	263	0	1085	0	1085
9DE	495	0	495	226	0	1409	0	1409
9DW	865	0	865	512	0	3488	0	3488
10AE	146	223	369	119	117	266	322	588
10AW	211	536	747	142	230	491	833	1324
11AE	909	16	925	848	11	7680	48	7728
11AW	233	29	262	206	15	1417	100	1517
11BE	0	0	0	0	0	0	0	0
11BW	0	0	0	0	0	0	0	0
13AE	3697	3924	7621	1108	1510	8604	9245	17849
13AW	5810	4732	10542	3014	2715	15286	12099	27385
15AE	170	155	325	134	103	317	283	600
15AW	33	45	78	21	28	46	95	141
15BE	179	59	238	157	48	227	76	303
15BW	22	4	26	21	4	21	5	26
17BE	2159	818	2977	964	402	4080	1519	5599
17BW	2759	981	3740	1556	639	4379	1659	6038
18BE	249	305	554	103	105	349	459	808
18BW	347	320	667	162	144	543	449	992
19AE	609	1288	1897	176	415	1383	4171	5554
19AW	2256	2381	4637	907	889	6152	7139	13291
20AW	1522	1231	2753	692	501	4031	3175	7206
20BE	563	812	1375	160	242	1342	1781	3123

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
20FE	261	472	733	116	205	354	646	1000
20FW	1039	737	1776	689	444	2249	1391	3640
23AE	570	457	1027	292	293	3242	2954	6196
23AW	770	631	1401	343	299	4799	4096	8895
31AE	125	145	270	108	96	307	194	501
31AW	430	256	686	374	219	875	732	1607
32AW	2079	390	2469	848	263	6247	1076	7323
32BE	2391	552	2943	1234	263	7065	1148	8213
40AE	2903	1412	4315	1129	410	21226	9037	30263
40AW	3249	1268	4517	867	441	14216	4933	19149
40BE	3024	1545	4569	1071	398	20309	8822	29131
40BW	3225	1265	4490	808	471	14388	4724	19112
41AE	1177	443	1620	610	166	3799	1405	5204
41AW	3598	1394	4992	2673	988	11063	5517	16580
42AE	3569	1825	5394	1547	852	17591	10493	28084
42AW	4334	1784	6118	1342	496	13104	4881	17985
42LAE	3322	0	3322	3040	0	54933	0	54933
42LAW	0	0	0	0	0	0	0	0
42LBE	0	1225	1225	0	1055	0	22160	22160
42LBW	427	141	568	176	77	3096	1422	4518
43AE	341	0	341	152	0	1682	0	1682
43AW	0	0	0	0	0	0	0	0
43BE	0	492	492	0	326	0	3966	3966
43BW	166	220	386	56	50	251	443	694
50AE	1988	1705	3693	1119	657	8556	6051	14607
50AW	1905	1707	3612	757	579	7106	5536	12642
51AE	3704	3183	6887	2038	1478	23039	20191	43230
51AW	4326	2811	7137	1579	909	19879	11224	31103
52AE	2453	0	2453	1265	0	39857	0	39857
52AW	2241	0	2241	1195	0	17414	0	17414
52BE	0	0	0	0	0	0	0	0
52BW	0	0	0	0	0	0	0	0
52CE	0	1940	1940	0	1287	0	37616	37616
52CW	0	1124	1124	0	572	0	10882	10882
54CE	869	729	1598	729	591	5981	5095	11076
54CW	1140	588	1728	786	406	6485	3551	10036
60AE	2446	1047	3493	1874	877	20322	8268	28590
60AW	1803	839	2642	1418	555	14722	6239	20961
61AE	1354	938	2292	882	626	6582	4334	10916
61AW	715	344	1059	358	193	4103	2272	6375
62CE	3290	2080	5370	2135	1458	36758	25273	62031
62CW	2795	1256	4051	1314	551	31858	12370	44228
63AE	2606	1434	4040	1964	1020	25586	14212	39798
63AW	1709	835	2544	1033	475	10856	6389	17245
64AE	591	498	1089	321	219	1895	1524	3419
64AW	720	653	1373	417	297	2342	1862	4204
65FE	247	92	339	209	45	981	284	1265
65FW	377	176	553	513	76	2621	647	3268
66AE	213	104	317	159	67	2097	877	2974
66AW	407	163	570	358	134	4133	2081	6214
100XAE	1893	0	1893	1417	0	29997	0	29997
100XBE	0	180	180	0	98	0	1504	1504
100XBW	0	57	57	0	43	0	182	182
100XCW	0	0	0	0	0	0	0	0
101XAE	1487	0	1487	1120	0	25522	0	25522
101XBE	0	382	382	0	276	0	6530	6530
101XBW	0	57	57	0	40	0	202	202
101XCW	0	0	0	0	0	0	0	0
102XAE	3192	0	3192	2537	0	48820	0	48820
102XBE	0	354	354	0	226	0	5194	5194
102XBW	0	131	131	0	68	0	860	860
102XCW	0	0	0	0	0	0	0	0
131AE	426	263	689	415	255	830	513	1343
131AW	256	122	378	251	117	506	238	744
133AE	643	384	1027	354	180	1055	599	1654
133AW	540	285	825	394	162	1153	545	1698
200XAE	1153	0	1153	1129	0	20476	0	20476
200XCW	0	0	0	0	0	0	0	0
201XAE	327	0	327	285	0	6070	0	6070
201XBE	0	39	39	0	33	0	653	653

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line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
201XBW	0	150	150	0	101	0	573	573
201XCW	0	0	0	0	0	0	0	0
202XAE	2354	0	2354	1915	0	33204	0	33204
202XBW	0	0	0	0	0	0	0	0
231AE	228	156	384	206	144	415	282	697
231AW	96	70	166	63	46	170	133	303
232AE	66	60	126	65	59	72	52	124
232AW	40	57	97	39	56	43	53	96
300XAE	973	0	973	922	0	13006	0	13006
300XBW	0	0	0	0	0	0	0	0
301AE	553	661	1214	391	525	1745	2657	4402
301AW	376	308	684	267	198	1064	676	1740
301XAE	588	0	588	464	0	7753	0	7753
301XBW	0	0	0	0	0	0	0	0
302XAE	1860	0	1860	1451	0	19653	0	19653
302XAW	0	44	44	0	16	0	158	158
302XBE	0	202	202	0	181	0	2999	2999
302XBW	0	0	0	0	0	0	0	0
401AE	209	41	250	190	41	351	68	419
401AW	331	192	523	329	192	694	399	1093
402AE	115	27	142	113	27	313	73	386
402AW	254	129	383	254	129	736	362	1098
403AE	225	129	354	215	117	478	267	745
403AW	155	178	333	112	95	339	287	626
411AE	546	304	850	258	130	1145	547	1692
411AW	2425	892	3317	1709	696	4958	2000	6958
412AE	148	91	239	130	76	328	186	514
412AW	127	69	196	114	59	206	120	326
413AE	160	149	309	106	122	265	307	572
413AW	888	629	1517	759	585	2048	1511	3559
414AE	100	89	189	88	75	217	170	387
414AW	23	31	54	17	20	14	33	47
415AE	552	595	1147	253	271	1376	1535	2911
415AW	1067	545	1612	671	313	3194	1853	5047
416AE	2395	1283	3678	2055	1113	4222	2703	6925
416AW	1409	720	2129	1117	469	3068	1482	4550
418AE	177	113	290	85	59	273	197	470
418AW	767	468	1235	527	299	1599	1046	2645
422AE	2065	533	2598	1107	303	3332	964	4296
422AW	1833	345	2178	1052	202	2617	669	3286
432AE	21	27	48	21	21	20	20	40
432AW	23	25	48	22	14	20	17	37
432BE	45	37	82	33	27	46	44	90
432BW	101	27	128	64	17	63	18	81
433AE	424	85	509	228	64	926	106	1032
433AW	637	80	717	371	47	1672	162	1834
434AE	1147	698	1845	1054	629	3173	1842	5015
434AW	837	498	1335	706	430	2354	1313	3667
435AE	111	127	238	48	49	114	150	264
435AW	116	108	224	73	56	146	127	273
440AE	134	105	239	98	63	192	129	321
440AW	673	363	1036	602	354	1092	614	1706
441AE	1546	724	2270	1333	566	3863	1485	5348
441AW	1506	861	2367	1252	777	4171	2543	6714
501AE	339	122	461	302	102	772	268	1040
501AW	855	436	1291	577	333	1492	903	2395
502AE	290	266	556	284	265	228	229	457
502AW	260	243	503	157	149	357	359	716
503AE	5	6	11	5	6	3	3	6
503AW	25	8	33	25	7	37	14	51
504AE	96	19	115	83	7	121	11	132
504AW	183	148	331	120	98	228	195	423
505AE	14	20	34	12	20	12	20	32
505AW	162	79	241	149	72	121	47	168
511AE	164	62	226	145	55	290	106	396
511AW	491	195	686	420	182	591	278	869
512AE	111	37	148	107	30	306	88	394
512AW	197	112	309	193	108	566	314	880
513AE	1040	864	1904	749	669	1341	1047	2388
513AW	1404	877	2281	1278	779	2175	1592	3767

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
521AE	235	212	447	196	182	653	648	1301
521AW	102	26	128	94	18	199	44	243
522AE	172	116	288	91	57	446	331	777
522AW	282	87	369	215	55	775	232	1007
523AE	4	5	9	3	3	13	10	23
523AW	21	13	34	20	12	50	34	84
541AE	746	367	1113	395	173	2112	898	3010
541AW	836	499	1335	508	295	1739	996	2735
542AE	367	114	481	353	101	1086	296	1382
542AW	370	240	610	316	170	841	658	1499
543AE	32	35	67	32	35	64	23	87
543AW	545	233	778	480	199	1197	499	1696
544AE	30	32	62	18	21	9	16	25
544AW	44	53	97	29	23	22	36	58
545AE	403	250	653	341	215	1038	575	1613
545AW	14	23	37	13	18	24	27	51
546AE	42	59	101	39	55	69	69	138
546AW	237	172	409	205	141	319	216	535
547AE	935	423	1358	839	372	2928	1283	4211
547AW	480	144	624	428	126	846	299	1145
548AE	1098	0	1098	593	0	2966	0	2966
548AW	914	728	1642	498	507	1923	2636	4559
549AE	211	932	1143	139	812	143	2052	2195
549AW	174	569	743	102	446	139	693	832
611AE	472	378	850	263	218	1057	844	1901
611AW	596	430	1026	206	152	1085	844	1929
613AE	122	114	236	82	59	192	140	332
613AW	55	82	137	42	37	80	101	181
615AE	240	132	372	174	73	421	191	612
615AW	284	148	432	260	132	537	410	947
4FAE	1239	0	1239	1145	0	3872	0	3872
4FAW	326	0	326	286	0	696	0	696
8FAE	46	0	46	37	0	126	0	126
8FAW	0	0	0	0	0	0	0	0
30FAE	14	0	14	14	0	25	0	25
30FAW	117	0	117	113	0	130	0	130
41FAE	140	0	140	125	0	481	0	481
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	395	0	395	374	0	1431	0	1431
80BE	0	0	0	0	0	0	0	0
80BW	202	0	202	120	0	1047	0	1047
80DE	0	0	0	0	0	0	0	0
80DW	138	0	138	78	0	242	0	242
80FE	0	0	0	0	0	0	0	0
80FW	109	0	109	96	0	883	0	883
81AE	177	0	177	168	0	2499	0	2499
81AW	0	0	0	0	0	0	0	0
82AE	0	0	0	0	0	0	0	0
82AW	111	0	111	101	0	1355	0	1355
83AE	201	0	201	195	0	3783	0	3783
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	418	0	418	363	0	7600	0	7600
83DE	567	0	567	494	0	12974	0	12974
83DW	0	0	0	0	0	0	0	0
83EE	84	0	84	73	0	968	0	968
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	62	0	62	42	0	698	0	698
84AE	173	0	173	118	0	2441	0	2441
84AW	0	0	0	0	0	0	0	0
84BE	102	0	102	65	0	1180	0	1180
84CE	145	0	145	94	0	1754	0	1754
84CW	0	0	0	0	0	0	0	0
84DE	249	0	249	211	0	3925	0	3925
85AE	71	0	71	60	0	806	0	806
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	148	0	148	114	0	1459	0	1459

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	51	0	51	37	0	292	0	292
86AE	0	0	0	0	0	0	0	0
86AW	98	0	98	81	0	1153	0	1153
86BE	0	0	0	0	0	0	0	0
86BW	76	0	76	59	0	791	0	791
88AE	188	0	188	168	0	2150	0	2150
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	240	0	240	214	0	5773	0	5773
88CE	0	0	0	0	0	0	0	0
88CW	260	0	260	210	0	6174	0	6174
89AE	105	0	105	103	0	1379	0	1379
89AW	0	0	0	0	0	0	0	0
90AW	0	0	0	0	0	0	0	0
90BE	95	0	95	94	0	1210	0	1210
91AE	663	0	663	628	0	12480	0	12480
91AW	0	0	0	0	0	0	0	0
92AE	402	0	402	397	0	8848	0	8848
92AW	0	0	0	0	0	0	0	0
93AE	2462	0	2462	2370	0	64438	0	64438
93AW	0	0	0	0	0	0	0	0
93BE	0	0	0	0	0	0	0	0
93BW	13	0	13	8	0	204	0	204
93CE	0	0	0	0	0	0	0	0
93FAE	140	0	140	83	0	393	0	393
93FAW	0	0	0	0	0	0	0	0
95AE	0	0	0	0	0	0	0	0
95AW	42	0	42	24	0	432	0	432
96AE	98	0	98	91	0	1364	0	1364
96AW	0	0	0	0	0	0	0	0
97AE	142	0	142	131	0	2092	0	2092
97AW	0	0	0	0	0	0	0	0
98AE	597	0	597	488	0	10162	0	10162
98AW	0	0	0	0	0	0	0	0
101AE	318	0	318	311	0	5687	0	5687
101AW	0	0	0	0	0	0	0	0
102AE	152	0	152	150	0	3156	0	3156
102AW	0	0	0	0	0	0	0	0
103AE	185	0	185	172	0	2557	0	2557
103AW	0	0	0	0	0	0	0	0
203AE	10	0	10	10	0	57	0	57
203AW	0	0	0	0	0	0	0	0
411FAE	60	0	60	48	0	127	0	127
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	79	0	79	79	0	181	0	181
415FAE	0	0	0	0	0	0	0	0
415FAW	43	0	43	19	0	71	0	71
434XAE	547	0	547	542	0	9613	0	9613
434XAW	0	0	0	0	0	0	0	0
440XAE	143	0	143	141	0	1541	0	1541
440XAW	0	0	0	0	0	0	0	0
441XAE	401	0	401	364	0	4424	0	4424
441XAW	0	0	0	0	0	0	0	0
900FAE	0	0	0	0	0	0	0	0
900FAW	1	0	1	1	0	26	0	26
901FAE	0	0	0	0	0	0	0	0
901FAW	21	0	21	21	0	24	0	24
910FAE	0	0	0	0	0	0	0	0
910FAW	0	0	0	0	0	0	0	0
totals	234367	127727	362094			1321333	6495571	970890

Table 122. Transit Boardings and Passenger-Miles by Route – Fixed Guideway Combination 1 Alternative

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
CAE	1905	804	2709	1553	693	18365	7171	25536
CAW	195	286	481	146	214	1419	2403	3822
DAE	693	0	693	533	0	3034	0	3034
DAW	0	0	0	0	0	0	0	0
DBE	0	852	852	0	770	0	4599	4599
DBW	2268	541	2809	1766	395	14509	2915	17424
1GE	2635	1505	4140	1455	806	4591	2677	7268
1GW	4392	2201	6593	2781	1535	8334	4323	12657
1LE	3102	1534	4636	2358	1223	9523	4651	14174
1LW	4495	2630	7125	2930	1950	19747	12271	32018
2BE	2290	1414	3704	1557	909	3558	2348	5906
2BW	1777	897	2674	822	391	2362	1164	3526
3AE	3208	2215	5423	2288	1350	7430	4871	12301
3AW	3445	2266	5711	1977	1328	7679	5013	12692
4DE	3116	1026	4142	2213	542	4444	2114	6558
4DW	3063	1313	4376	1328	699	5490	2577	8067
5AE	501	127	628	396	136	1233	444	1677
5AW	619	304	923	461	190	1520	680	2200
6AW	1577	1534	3111	857	626	3748	3383	7131
6BE	1374	2559	3933	817	1776	2848	4736	7584
9AE	438	205	643	394	182	842	385	1227
9AW	1823	803	2626	1577	731	4261	1987	6248
13AE	8329	3825	12154	6583	2726	12294	5942	18236
13AW	7431	5069	12500	5277	4019	12575	7356	19931
14AE	812	665	1477	720	568	993	755	1748
14AW	818	455	1273	767	398	732	437	1169
15AE	562	366	928	336	151	1134	564	1698
15AW	256	125	381	184	89	299	183	482
17BE	2255	726	2981	922	280	4086	1429	5515
17BW	2320	750	3070	1242	478	4399	1532	5931
18BE	1453	1532	2985	568	625	2176	2345	4521
18BW	2397	1756	4153	1320	676	3922	2580	6502
19AE	1192	1343	2535	604	557	3491	3548	7039
19AW	2921	2760	5681	1611	1589	8930	9925	18855
23AE	747	619	1366	402	399	3563	3461	7024
23AW	991	1170	2161	482	769	5457	5373	10830
30AE	966	344	1310	388	108	1229	422	1651
30AW	880	283	1163	421	124	1594	444	2038
31AE	1079	477	1556	648	317	1571	586	2157
31AW	436	159	595	379	127	503	170	673
40AE	0	2303	2303	0	771	0	16182	16182
40AW	0	1511	1511	0	407	0	6003	6003
40BE	0	4414	4414	0	1434	0	32495	32495
40BW	0	2421	2421	0	514	0	9114	9114
40CE	2668	0	2668	1480	0	18518	0	18518
40CW	2151	0	2151	1128	0	10523	0	10523
40DE	2130	0	2130	1102	0	13321	0	13321
40DW	2170	0	2170	1126	0	10848	0	10848
40FE	4435	0	4435	2103	0	23336	0	23336
40FW	3478	0	3478	1315	0	11352	0	11352
41AE	1232	585	1817	635	233	4844	1947	6791
41AW	4430	1526	5956	3827	1179	17971	7961	25932
42AE	1586	1130	2716	1190	922	4378	3322	7700
42AW	2016	475	2491	1100	283	6064	1525	7589
50AE	1174	1221	2395	727	748	2655	3412	6067
50AW	1354	1176	2530	667	723	4011	3051	7062
51AE	1970	2409	4379	1055	2291	8810	19146	27956
51AW	3406	1886	5292	1611	1035	16987	9007	25994
52AE	3175	0	3175	1670	0	37000	0	37000
52AW	0	0	0	0	0	0	0	0
52BE	1927	3073	5000	919	2427	8131	49072	57203
52BW	2170	1061	3231	967	812	19191	12021	31212
54CE	1131	472	1603	906	791	3243	2632	5875
54CW	712	430	1142	408	260	3137	2040	5177
60AE	2725	1128	3853	2287	874	23138	8947	32085
60AW	2561	668	3229	1504	589	17879	6946	24825

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
61AE	1688	986	2674	1098	716	6858	4310	11168
61AW	1073	836	1909	482	436	5699	4166	9865
62CE	3275	2301	5576	1981	1507	30615	26546	57161
62CW	2906	1270	4176	1119	496	29629	11599	41228
63AE	2713	1561	4274	1977	1845	25034	17111	42145
63AW	1094	816	1910	746	711	9271	7754	17025
64AE	735	541	1276	727	271	2119	1639	3758
64AW	803	662	1465	906	308	2712	1975	4687
65FE	250	116	366	151	51	915	330	1245
65FW	323	172	495	164	76	1461	656	2117
66AE	351	62	413	308	39	4115	532	4647
66AW	511	232	743	362	155	4322	2180	6502
83AE	663	0	663	651	0	5137	0	5137
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	1347	0	1347	1224	0	10627	0	10627
83DE	1749	0	1749	1489	0	20315	0	20315
83DW	0	0	0	0	0	0	0	0
83EE	155	0	155	56	0	435	0	435
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	174	0	174	77	0	738	0	738
84AE	489	0	489	356	0	2874	0	2874
84AW	0	0	0	0	0	0	0	0
84BE	479	0	479	348	0	2821	0	2821
84CE	147	0	147	76	0	524	0	524
84CW	0	0	0	0	0	0	0	0
84DE	418	0	418	354	0	2710	0	2710
98AE	2410	0	2410	1852	0	13049	0	13049
98AW	0	0	0	0	0	0	0	0
131AE	439	264	703	425	254	787	508	1295
131AW	264	123	387	258	118	528	243	771
133AE	551	366	917	215	166	1011	625	1636
133AW	309	204	513	187	120	519	305	824
134AE	226	137	363	97	95	506	306	812
134AW	392	193	585	361	162	1157	485	1642
135AE	68	76	144	58	63	125	123	248
135AW	417	205	622	411	210	746	425	1171
231AE	201	157	358	178	146	371	282	653
231AW	110	61	171	78	35	193	116	309
232AE	53	66	119	52	65	60	57	117
232AW	31	65	96	31	65	30	65	95
301AE	723	237	960	510	153	1246	372	1618
301AW	529	259	788	329	158	1341	562	1903
302AE	498	309	807	485	275	839	490	1329
302AW	530	183	713	529	180	949	354	1303
303AE	277	11	288	254	82	322	97	419
303AW	453	214	667	432	203	556	227	783
304AE	444	214	658	276	84	740	230	970
304AW	745	169	914	392	180	1255	335	1590
305AE	422	410	832	337	238	594	672	1266
305AW	688	632	1320	540	458	1903	1546	3449
306AE	38	68	106	34	54	40	87	127
306AW	92	72	164	76	54	78	64	142
311AE	3001	642	3643	1844	380	5556	1687	7243
311AW	1820	471	2291	1448	391	3371	1253	4624
312AE	992	577	1569	807	461	1701	770	2471
312AW	3191	1354	4545	2735	1099	5904	2456	8360
313AE	505	221	726	181	283	888	646	1534
313AW	361	193	554	277	163	950	479	1429
314AE	608	273	881	385	234	461	181	642
314AW	1025	558	1583	893	432	928	462	1390
401AE	193	47	240	193	47	329	77	406
401AW	382	215	597	382	213	808	445	1253
402AE	142	36	178	140	36	376	97	473
402AW	283	138	421	283	138	869	416	1285
403AE	614	0	614	435	0	3577	0	3577
403AW	614	0	614	399	0	3117	0	3117
403BE	0	157	157	0	147	0	335	335
403BW	0	216	216	0	105	0	324	324

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
411AE	746	422	1168	270	208	1499	715	2214
411AW	3331	913	4244	2423	740	8463	2450	10913
412AE	151	140	291	139	187	325	379	704
412AW	232	293	525	175	203	389	322	711
413AE	256	181	437	177	142	478	355	833
413AW	1653	444	2097	1413	729	3758	1819	5577
414AE	110	150	260	95	156	216	307	523
414AW	55	436	491	46	418	42	213	255
415AE	912	448	1360	475	166	1784	1278	3062
415AW	1682	678	2360	1281	473	5813	2232	8045
416AE	2924	1143	4067	2634	954	4428	2061	6489
416AW	1764	816	2580	1211	486	3639	1606	5245
418AE	247	234	481	128	180	306	219	525
418AW	691	343	1034	522	264	1035	546	1581
422AE	2232	549	2781	1336	323	4377	1052	5429
422AW	1583	332	1915	955	182	2203	550	2753
432AE	44	33	77	33	19	31	29	60
432AW	132	85	217	120	62	126	87	213
432BE	35	19	54	28	10	40	13	53
432BW	14	19	33	11	13	15	18	33
433AE	863	79	942	706	50	2613	120	2733
433AW	1688	189	1877	1459	120	5688	500	6188
434AE	2035	760	2795	1784	673	5433	2080	7513
434AW	1500	510	2010	855	411	3407	1568	4975
435AE	133	60	193	78	29	63	36	99
435AW	269	126	395	140	55	139	79	218
440AE	0	57	57	0	57	0	80	80
440AW	0	353	353	0	353	0	501	501
440BE	856	0	856	780	0	2461	0	2461
440BW	0	0	0	0	0	0	0	0
441AE	0	553	553	0	447	0	1516	1516
441AW	0	1323	1323	0	1174	0	3514	3514
441BE	2485	0	2485	2206	0	10166	0	10166
441BW	0	0	0	0	0	0	0	0
501AE	92	104	196	85	96	200	256	456
501AW	186	511	697	180	469	334	1169	1503
502AE	23	389	412	23	386	12	306	318
502AW	46	327	373	35	203	68	467	535
503AE	5	5	10	5	5	3	3	6
503AW	67	7	74	66	6	90	11	101
504AE	6	22	28	6	10	2	13	15
504AW	31	189	220	25	140	44	238	282
505AE	3	18	21	3	17	2	21	23
505AW	63	67	130	57	62	48	50	98
512AE	148	27	175	127	18	370	51	421
512AW	351	65	416	308	62	844	159	1003
513AE	1113	949	2062	866	759	1444	1083	2527
513AW	1486	946	2432	1409	850	2387	1591	3978
521AE	151	252	403	118	222	383	767	1150
521AW	148	30	178	138	19	275	49	324
522AE	130	129	259	76	67	344	349	693
522AW	125	83	208	108	52	376	204	580
523AE	6	5	11	5	3	23	6	29
523AW	9	13	22	7	12	19	32	51
541AE	931	349	1280	560	245	2678	1143	3821
541AW	1972	455	2427	1441	318	2892	754	3646
542AE	513	95	608	487	144	1585	395	1980
542AW	686	393	1079	514	262	1429	780	2209
543AE	41	110	151	41	107	84	60	144
543AW	738	377	1115	557	258	1565	638	2203
544AE	136	21	157	90	16	42	8	50
544AW	184	182	366	86	217	104	238	342
545AE	607	382	989	453	258	1448	736	2184
545AW	21	21	42	20	17	45	37	82
546AE	237	149	386	224	133	258	154	412
546AW	415	233	648	284	156	508	270	778
547AE	1266	512	1778	947	430	4307	1642	5949
547AW	754	129	883	572	173	1776	501	2277
548AE	1569	654	2223	804	567	3976	1771	5747
548AW	1421	646	2067	654	325	2683	1175	3858

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line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
611AE	447	399	846	238	250	1029	883	1912
611AW	562	441	1003	181	167	1056	860	1916
613AE	90	93	183	54	133	156	146	302
613AW	51	71	122	40	50	76	93	169
614AE	35	45	80	32	27	35	34	69
615AE	251	133	384	181	75	466	187	653
615AW	289	158	447	266	138	555	317	872
4FAE	64	0	64	57	0	150	0	150
4FAW	483	0	483	436	0	1039	0	1039
8FAE	255	0	255	225	0	572	0	572
8FAW	0	0	0	0	0	0	0	0
30FAE	49	0	49	29	0	89	0	89
30FAW	324	0	324	316	0	308	0	308
41FAE	84	0	84	82	0	249	0	249
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	795	0	795	668	0	6161	0	6161
82AE	0	0	0	0	0	0	0	0
82AW	272	0	272	197	0	2560	0	2560
85AE	52	0	52	40	0	584	0	584
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	253	0	253	255	0	2635	0	2635
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	35	0	35	52	0	190	0	190
88AE	438	0	438	371	0	4674	0	4674
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	413	0	413	381	0	9404	0	9404
88CE	0	0	0	0	0	0	0	0
88CW	437	0	437	356	0	9741	0	9741
89AE	223	0	223	203	0	2680	0	2680
89AW	0	0	0	0	0	0	0	0
93FAE	76	0	76	75	0	200	0	200
93FAW	0	0	0	0	0	0	0	0
411FAE	0	0	0	0	0	0	0	0
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	67	0	67	66	0	136	0	136
415FAE	0	0	0	0	0	0	0	0
415FAW	9	0	9	8	0	24	0	24
LE4	62201	25524	87725	38770	14157	720227	269895	990122
LW4	25883	14854	40737	11408	7351	118944	67225	186169
900FAE	0	0	0	0	0	0	0	0
900FAW	0	0	0	0	0	0	0	0
901FAE	0	0	0	0	0	0	0	0
901FAW	38	0	38	38	0	44	0	44
910FAE	0	0	0	0	0	0	0	0
910FAW	0	0	0	0	0	0	0	0
totals	311825	156929	468754			1671502	792601	2464103

Table 123. Transit Boardings and Passenger-Miles by Route – Fixed Guideway Combination 2 Option

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
ABE	1126	449	1575	766	358	3487	1516	5003
ABW	1424	503	1927	905	298	4240	1654	5894
CAE	1661	885	2546	1540	774	15962	8372	24334
CAW	191	236	427	144	173	1372	1933	3305
DAE	799	0	799	538	0	3560	0	3560
DAW	0	0	0	0	0	0	0	0
DBE	0	794	794	0	723	0	4523	4523
DBW	2230	502	2732	1689	353	13914	2496	16410
1GE	2668	1247	3915	1716	823	4412	2274	6686
1GW	3770	1978	5748	2251	1270	6827	3474	10301
1LE	2457	1375	3832	1855	1057	7664	4072	11736
1LW	4903	2481	7384	3538	1815	21726	11775	33501
2BE	3415	1791	5206	1674	923	4018	2501	6519
2BW	2765	1079	3844	1468	541	3827	1491	5318
3AE	3467	2246	5713	2337	1336	8159	5175	13334
3AW	3333	2434	5767	1933	1481	7501	5559	13060
4DE	3286	1066	4352	2188	562	6248	2413	8661
4DW	2949	1367	4316	1336	783	5250	2770	8020
5AE	482	187	669	382	143	1207	470	1677
5AW	646	333	979	459	209	1536	723	2259
6AW	1634	1490	3124	846	665	4022	3403	7425
6BE	1325	2571	3896	682	1861	2592	5529	8121
9AE	484	207	691	437	186	913	396	1309
9AW	1706	786	2492	1481	712	4057	1930	5987
13AE	2401	1780	4181	1456	955	5417	3701	9118
13AW	3310	2603	5913	1628	1184	5565	4346	9911
14AE	1823	1327	3150	1266	968	2375	1790	4165
14AW	1171	819	1990	861	571	1148	922	2070
15AE	685	555	1240	359	237	1232	867	2099
15AW	155	87	242	101	63	173	111	284
17BE	2017	750	2767	832	285	3913	1468	5381
17BW	2793	1013	3806	1393	643	4885	2004	6889
18BE	1702	1555	3257	649	617	2598	2395	4993
18BW	2797	1855	4652	1302	729	4374	2668	7042
19AE	1107	989	2096	580	490	2630	2455	5085
19AW	3099	2932	6031	1415	1496	6553	6231	12784
23AE	817	638	1455	422	394	4247	3656	7903
23AW	1468	1057	2525	701	512	6928	4943	11871
30AE	610	253	863	488	103	876	310	1186
30AW	816	299	1115	439	424	1505	875	2380
31AE	1392	880	2272	1256	748	2347	1240	3587
31AW	1045	394	1439	904	326	957	435	1392
40AE	0	3067	3067	0	888	0	22794	22794
40AW	0	1993	1993	0	373	0	7116	7116
40BE	0	2921	2921	0	807	0	19468	19468
40BW	0	1788	1788	0	365	0	6483	6483
40CE	2993	0	2993	1644	0	20930	0	20930
40CW	1970	0	1970	792	0	10003	0	10003
40DE	2450	0	2450	1183	0	15120	0	15120
40DW	1991	0	1991	793	0	10144	0	10144
40FE	4333	0	4333	1660	0	20040	0	20040
40FW	3433	0	3433	834	0	9491	0	9491
41AE	1248	552	1800	546	192	4393	1793	6186
41AW	3348	1353	4701	2498	990	19444	7734	27178
42AE	1693	1030	2723	1530	943	7337	4404	11741
42AW	1538	677	2215	970	276	5237	1642	6879
50AE	172	637	809	67	305	393	1829	2222
50AW	260	640	900	108	391	703	1420	2123
51AE	2052	3177	5229	1002	2274	8936	22461	31397
51AW	3411	1928	5339	1671	1049	17022	10084	27106
52AE	2584	0	2584	1243	0	41304	0	41304
52AW	0	0	0	0	0	0	0	0
52BE	0	2429	2429	0	1749	0	48463	48463
52BW	2369	1022	3391	988	461	20432	11459	31891
54CE	837	455	1292	588	289	3053	1930	4983
54CW	714	402	1116	441	285	3464	2264	5728

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
60AE	2405	1019	3424	1941	672	20732	6409	27141
60AW	2365	625	2990	1290	501	16680	4171	20851
61AE	1580	935	2515	1061	582	6349	4178	10527
61AW	959	473	1432	384	205	4492	2503	6995
62CE	3091	2093	5184	1829	1631	32188	27072	59260
62CW	2721	1609	4330	937	754	26814	13833	40647
63AE	2484	1420	3904	1870	1064	23738	14303	38041
63AW	1087	742	1829	728	478	9213	6785	15998
64AE	620	513	1133	324	403	1920	1871	3791
64AW	790	676	1466	419	329	2569	2102	4671
65FE	239	91	330	139	42	864	276	1140
65FW	341	181	522	184	87	1558	729	2287
66AE	435	88	523	398	63	5334	851	6185
66AW	619	281	900	470	212	5661	2903	8564
83AE	582	0	582	575	0	4514	0	4514
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	1387	0	1387	1257	0	10932	0	10932
83DE	1786	0	1786	1481	0	20916	0	20916
83DW	0	0	0	0	0	0	0	0
83EE	169	0	169	58	0	471	0	471
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	169	0	169	77	0	745	0	745
84AE	519	0	519	384	0	3135	0	3135
84AW	0	0	0	0	0	0	0	0
84BE	451	0	451	318	0	2560	0	2560
84CE	147	0	147	83	0	562	0	562
84CW	0	0	0	0	0	0	0	0
84DE	415	0	415	357	0	2722	0	2722
98AE	2378	0	2378	1882	0	13081	0	13081
98AW	0	0	0	0	0	0	0	0
131AE	434	270	704	418	255	767	511	1278
131AW	257	126	383	253	119	513	248	761
133AE	549	365	914	228	174	1021	630	1651
133AW	317	203	520	196	112	523	292	815
134AE	203	126	329	83	61	455	272	727
134AW	375	188	563	356	158	1124	508	1632
135AE	66	63	129	50	44	111	107	218
135AW	402	202	604	394	196	713	361	1074
231AE	226	153	379	204	141	418	276	694
231AW	107	61	168	74	36	190	114	304
232AE	59	59	118	58	59	64	52	116
232AW	29	57	86	29	57	28	55	83
301AE	1488	542	2030	690	250	2830	1074	3904
301AW	1050	336	1386	566	212	2313	798	3111
302AE	495	285	780	483	280	999	558	1557
302AW	517	189	706	512	186	917	377	1294
303AE	279	84	363	247	81	319	92	411
303AW	557	132	689	531	237	655	293	948
304AE	812	185	997	667	293	1617	573	2190
304AW	765	256	1021	441	132	1403	481	1884
305AE	165	218	383	101	132	326	381	707
305AW	673	663	1336	548	567	1815	1488	3303
306AE	13	147	160	11	105	16	86	102
306AW	135	75	210	93	59	85	50	135
311AE	1079	934	2013	835	554	3276	2739	6015
311AW	1525	581	2106	1245	458	4403	1614	6017
312AE	331	81	412	240	68	348	72	420
312AW	2081	218	2299	2057	206	2201	231	2432
313AE	645	63	708	491	48	1611	96	1707
313AW	163	22	185	148	16	213	29	242
314AE	1775	148	1923	1601	68	1489	111	1600
314AW	1403	321	1724	910	256	1171	327	1498
401AE	191	50	241	191	50	325	83	408
401AW	398	218	616	398	218	836	456	1292
402AE	134	34	168	132	34	353	91	444
402AW	288	143	431	288	142	881	434	1315
403AE	642	0	642	470	0	3864	0	3864
403AW	677	0	677	422	0	3353	0	3353

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
403BE	0	158	158	0	152	0	335	335
403BW	0	216	216	0	108	0	320	320
411AE	2029	604	2633	1287	422	4223	1374	5597
411AW	1520	621	2141	449	172	2653	1178	3831
412AE	764	261	1025	724	247	1727	433	2160
412AW	127	52	179	101	44	199	81	280
413AE	252	290	542	163	140	429	395	824
413AW	1430	836	2266	1210	714	3244	1836	5080
414AE	455	320	775	427	454	1021	803	1824
414AW	90	81	171	65	43	43	66	109
415AE	646	841	1487	349	495	1626	3027	4653
415AW	1178	623	1801	766	353	3744	2048	5792
416AE	2981	1173	4154	2685	987	4593	2147	6740
416AW	1794	798	2592	1234	471	3409	1529	4938
418AE	403	193	596	189	84	533	310	843
418AW	831	319	1150	624	188	1867	738	2605
422AE	4867	1520	6387	4236	1354	12523	3331	15854
422AW	1002	347	1349	422	190	2045	809	2854
432AE	48	31	79	37	21	35	27	62
432AW	140	93	233	123	68	136	94	230
432BE	34	24	58	31	12	32	17	49
432BW	12	16	28	7	11	11	17	28
433AE	1293	206	1499	881	130	4053	429	4482
433AW	2032	354	2386	1642	235	6694	906	7600
434AE	2156	754	2910	1786	679	5494	2077	7571
434AW	1670	453	2123	829	384	3485	1473	4958
435AE	138	71	209	71	37	75	54	129
435AW	249	96	345	124	52	129	72	201
440AE	0	53	53	0	53	0	75	75
440AW	0	355	355	0	355	0	504	504
440BE	893	0	893	780	0	2483	0	2483
440BW	0	0	0	0	0	0	0	0
441AE	0	617	617	0	507	0	1886	1886
441AW	0	1389	1389	0	1216	0	3583	3583
441BE	2563	0	2563	2219	0	10443	0	10443
441BW	0	0	0	0	0	0	0	0
501AE	153	118	271	141	102	323	282	605
501AW	159	506	665	150	463	306	1170	1476
502AE	20	207	227	20	382	10	240	250
502AW	43	202	245	35	101	64	269	333
503AE	3	5	8	3	5	2	3	5
503AW	64	5	69	62	5	85	8	93
504AE	9	199	208	8	180	4	73	77
504AW	28	296	324	22	244	41	393	434
505AE	7	12	19	4	11	5	14	19
505AW	50	63	113	44	57	47	47	94
512AE	146	37	183	122	29	359	82	441
512AW	341	67	408	310	64	860	159	1019
513AE	1107	945	2052	862	758	1436	1081	2517
513AW	1484	939	2423	1375	841	2358	1573	3931
521AE	127	257	384	95	226	326	779	1105
521AW	120	36	156	106	26	214	68	282
522AE	126	129	255	77	67	327	346	673
522AW	138	83	221	123	55	443	215	658
523AE	4	4	8	3	2	6	4	10
523AW	21	12	33	17	12	48	30	78
541AE	888	425	1313	562	234	2708	1279	3987
541AW	1683	632	2315	1137	482	2678	1119	3797
542AE	478	129	607	460	114	1492	363	1855
542AW	655	293	948	486	211	1416	688	2104
543AE	40	78	118	40	75	82	73	155
543AW	748	398	1146	568	293	1601	721	2322
544AE	132	70	202	87	42	40	25	65
544AW	185	180	365	91	231	108	189	297
545AE	626	279	905	472	247	1490	631	2121
545AW	22	15	37	21	13	45	30	75
546AE	193	141	334	184	122	195	152	347
546AW	420	225	645	288	157	522	272	794
547AE	1287	591	1878	968	495	4420	1915	6335
547AW	700	233	933	527	163	1746	554	2300

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
548AE	1574	596	2170	819	356	4045	1578	5623
548AW	1412	523	1935	681	313	2613	1180	3793
611AE	468	380	848	249	222	1067	853	1920
611AW	586	419	1005	204	148	1100	840	1940
613AE	128	122	250	87	58	196	148	344
613AW	52	76	128	43	35	84	89	173
615AE	248	134	382	172	70	450	196	646
615AW	278	151	429	254	135	529	313	842
4FAE	322	0	322	311	0	736	0	736
4FAW	359	0	359	319	0	794	0	794
8FAE	307	0	307	178	0	567	0	567
8FAW	0	0	0	0	0	0	0	0
30FAE	56	0	56	28	0	98	0	98
30FAW	66	0	66	57	0	102	0	102
41FAE	77	0	77	76	0	180	0	180
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	496	0	496	443	0	3516	0	3516
82AE	0	0	0	0	0	0	0	0
82AW	154	0	154	141	0	1783	0	1783
85AE	69	0	69	53	0	776	0	776
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	238	0	238	219	0	2597	0	2597
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	37	0	37	65	0	303	0	303
88AE	303	0	303	263	0	3112	0	3112
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	331	0	331	306	0	6939	0	6939
88CE	0	0	0	0	0	0	0	0
88CW	308	0	308	249	0	6716	0	6716
89AE	141	0	141	138	0	1809	0	1809
89AW	0	0	0	0	0	0	0	0
93FAE	75	0	75	74	0	196	0	196
93FAW	0	0	0	0	0	0	0	0
411FAE	0	0	0	0	0	0	0	0
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	68	0	68	67	0	138	0	138
415FAE	0	0	0	0	0	0	0	0
415FAW	12	0	12	11	0	32	0	32
LEU5	29944	12704	42648	20936	8169	377497	148651	526148
LEW5	27948	11413	39361	19066	6825	334806	122172	456978
LWU5	12416	6301	18717	5805	2980	62343	32398	94741
LWW5	13282	8537	21819	6690	4954	64074	42703	106777
900FAE	0	0	0	0	0	0	0	0
900FAW	0	0	0	0	0	0	0	0
901FAE	0	0	0	0	0	0	0	0
901FAW	37	0	37	37	0	42	0	42
910FAE	21	0	21	21	0	237	0	237
910FAW	0	0	0	0	0	0	0	0
totals	297986	151340	449326			1651192	7880982	439290

Table 124. Transit Boardings and Passenger-Miles by Route – Fixed Guideway Combination 3 Option

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
ABE	987	378	1365	699	309	3058	1204	4262
ABW	1470	614	2084	979	401	4676	2149	6825
CAE	1918	830	2748	1582	726	18585	7962	26547
CAW	192	274	466	142	203	1393	2274	3667
DAE	685	0	685	554	0	3127	0	3127
DAW	0	0	0	0	0	0	0	0
DBE	0	764	764	0	686	0	4341	4341
DBW	2221	515	2736	1671	374	14215	2733	16948
1GE	2603	1295	3898	1444	714	4032	2274	6306
1GW	3073	1556	4629	1622	976	5890	3258	9148
1LE	2709	1532	4241	2053	1222	8613	4618	13231
1LW	5136	2637	7773	3582	1964	23095	12458	35553
2BE	3881	1922	5803	2133	994	5067	2732	7799
2BW	3225	1348	4573	1479	501	4268	1668	5936
3AE	3263	2090	5353	2359	1368	7677	5006	12683
3AW	3461	2645	6106	1894	1533	7904	5986	13890
4DE	4970	1204	6174	3168	587	9033	2480	11513
4DW	5033	1619	6652	2197	754	10276	3601	13877
5AE	355	145	500	439	156	1362	517	1879
5AW	672	322	994	453	212	1559	706	2265
6AW	1601	1395	2996	841	521	3647	2944	6591
6BE	1260	2665	3925	560	1872	2218	5301	7519
8CE	5584	2503	8087	5032	2104	8610	4185	12795
8CW	2822	3406	6228	2883	2575	6381	6354	12735
9AE	450	193	643	416	166	841	354	1195
9AW	1738	804	2542	1534	734	4131	1990	6121
13AE	2574	1553	4127	4234	828	6426	3384	9810
13AW	3871	1781	5652	2306	905	7371	3656	11027
14AE	2214	1565	3779	1314	847	2636	1888	4524
14AW	1182	973	2155	819	565	1305	1070	2375
15AE	1038	585	1623	653	229	1528	760	2288
15AW	240	68	308	170	51	323	78	401
17BE	2287	825	3112	1092	346	4450	1793	6243
17BW	2594	1034	3628	1260	663	5251	2173	7424
18BE	1082	1179	2261	363	390	1641	1920	3561
18BW	2252	1693	3945	1343	659	3626	2415	6041
19AE	1125	1026	2151	994	610	2824	2613	5437
19AW	2185	1688	3873	1554	1798	7771	7860	15631
23AE	848	868	1716	449	510	4041	3683	7724
23AW	930	1604	2534	396	1235	5142	5895	11037
30AE	636	233	869	205	100	819	319	1138
30AW	1274	326	1600	497	183	1676	542	2218
31AE	1327	847	2174	1195	714	2262	1189	3451
31AW	977	400	1377	828	314	911	421	1332
40AE	0	2190	2190	0	741	0	15494	15494
40AW	0	1430	1430	0	332	0	6039	6039
40BE	0	3952	3952	0	1206	0	27530	27530
40BW	0	2593	2593	0	531	0	8749	8749
40CE	2830	0	2830	1477	0	18805	0	18805
40CW	2235	0	2235	1160	0	11001	0	11001
40DE	2301	0	2301	1123	0	13727	0	13727
40DW	2257	0	2257	1161	0	11311	0	11311
40FE	4106	0	4106	1617	0	19987	0	19987
40FW	3259	0	3259	836	0	9494	0	9494
41AE	1142	501	1643	575	173	4452	1653	6105
41AW	2322	1204	3526	1162	622	10192	5157	15349
42AE	2182	1503	3685	1768	1304	6224	4983	11207
42AW	2140	574	2714	1112	306	6181	1754	7935
50AE	1177	1211	2388	723	730	2646	3281	5927
50AW	1238	1192	2430	670	729	3779	3088	6867
51AE	2116	2340	4456	1009	2229	9196	18690	27886
51AW	3522	1777	5299	1633	993	17560	8530	26090
52AE	2658	0	2658	1287	0	42230	0	42230
52AW	0	0	0	0	0	0	0	0
52BE	0	3217	3217	0	2450	0	51203	51203
52BW	2178	1059	3237	980	834	20184	12812	32996

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
54CE	499	356	855	342	628	2894	2365	5259
54CW	706	392	1098	443	258	3481	2222	5703
60AE	2262	993	3255	1872	772	20471	8259	28730
60AW	2479	630	3109	1375	513	18049	6467	24516
61AE	1515	876	2391	1078	580	6412	4305	10717
61AW	1014	771	1785	419	397	5127	3283	8410
62CE	3034	2024	5058	1845	1299	32584	24594	57178
62CW	2754	1113	3867	926	447	27932	10928	38860
63AE	2465	1382	3847	1880	1383	24025	15437	39462
63AW	1081	944	2025	737	688	9391	7468	16859
64AE	681	507	1188	396	213	2062	1572	3634
64AW	802	656	1458	881	299	2713	1928	4641
65FE	235	112	347	141	47	884	289	1173
65FW	337	173	510	189	81	1574	672	2246
66AE	396	70	466	358	50	4773	676	5449
66AW	595	283	878	445	215	5355	3044	8399
83AE	586	0	586	569	0	4491	0	4491
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	1329	0	1329	1203	0	10472	0	10472
83DE	1790	0	1790	1485	0	20910	0	20910
83DW	0	0	0	0	0	0	0	0
83EE	157	0	157	53	0	434	0	434
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	182	0	182	74	0	718	0	718
84AE	478	0	478	335	0	2766	0	2766
84AW	0	0	0	0	0	0	0	0
84BE	477	0	477	342	0	2818	0	2818
84CE	148	0	148	83	0	565	0	565
84CW	0	0	0	0	0	0	0	0
84DE	426	0	426	356	0	2696	0	2696
98AE	2168	0	2168	1861	0	12491	0	12491
98AW	0	0	0	0	0	0	0	0
131AE	437	267	704	428	260	791	518	1309
131AW	262	124	386	258	122	522	247	769
133AE	568	357	925	224	160	1065	596	1661
133AW	292	192	484	173	110	477	281	758
134AE	211	133	344	102	89	517	286	803
134AW	391	199	590	372	161	1189	513	1702
135AE	55	64	119	47	52	104	111	215
135AW	409	203	612	409	206	732	420	1152
231AE	232	155	387	210	144	428	282	710
231AW	101	71	172	69	46	178	133	311
232AE	60	63	123	60	63	67	57	124
232AW	37	62	99	36	62	38	60	98
301AE	1530	497	2027	707	238	2881	1024	3905
301AW	1136	342	1478	648	229	2331	817	3148
302AE	491	304	795	478	284	989	605	1594
302AW	516	198	714	511	195	939	382	1321
303AE	299	15	314	267	62	328	68	396
303AW	507	286	793	483	280	613	279	892
304AE	856	289	1145	727	172	1645	493	2138
304AW	705	242	947	378	278	1252	516	1768
305AE	164	212	376	101	133	359	394	753
305AW	681	554	1235	552	464	1822	1478	3300
306AE	16	54	70	10	44	14	72	86
306AW	119	70	189	68	60	68	56	124
311AE	1122	935	2057	849	554	3387	2728	6115
311AW	1541	598	2139	1273	437	4456	1567	6023
312AE	686	52	738	614	38	1102	72	1174
312AW	2015	232	2247	1985	222	2162	250	2412
313AE	97	46	143	97	46	250	137	387
313AW	426	84	510	231	49	653	150	803
314AE	1881	152	2033	1706	73	1554	105	1659
314AW	1328	360	1688	852	289	1148	364	1512
401AE	194	54	248	194	54	329	89	418
401AW	387	215	602	387	214	815	445	1260
402AE	126	38	164	124	38	331	104	435
402AW	283	137	420	282	137	867	414	1281

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
403AE	616	0	616	442	0	3615	0	3615
403AW	607	0	607	388	0	3054	0	3054
403BE	0	153	153	0	146	0	319	319
403BW	0	206	206	0	105	0	308	308
411AE	734	403	1137	277	201	1406	634	2040
411AW	3372	909	4281	2475	758	7334	2180	9514
412AE	155	142	297	142	191	334	385	719
412AW	231	293	524	172	204	371	326	697
413AE	255	182	437	179	142	478	357	835
413AW	1575	453	2028	1326	751	3673	1868	5541
414AE	111	157	268	98	154	211	319	530
414AW	46	437	483	38	416	35	216	251
415AE	942	449	1391	482	171	1850	1249	3099
415AW	2264	699	2963	1866	499	7748	2313	10061
416AE	2934	1173	4107	2671	987	4444	2145	6589
416AW	1784	823	2607	1212	487	3675	1629	5304
418AE	254	204	458	136	152	326	175	501
418AW	700	346	1046	529	266	1080	557	1637
422AE	3515	1007	4522	1896	758	6177	1725	7902
422AW	1691	530	2221	1037	362	2390	791	3181
432AE	45	39	84	34	25	34	34	68
432AW	135	84	219	124	62	132	85	217
432BE	30	20	50	26	11	34	11	45
432BW	19	17	36	13	14	19	18	37
433AE	846	75	921	687	48	2541	111	2652
433AW	1682	199	1881	1460	127	5666	531	6197
434AE	1993	753	2746	1763	670	5349	2058	7407
434AW	1498	525	2023	831	433	3324	1629	4953
435AE	134	58	192	78	31	63	41	104
435AW	267	124	391	143	52	150	71	221
440AE	0	55	55	0	55	0	77	77
440AW	0	355	355	0	355	0	504	504
440BE	862	0	862	778	0	2458	0	2458
440BW	0	0	0	0	0	0	0	0
441AE	0	567	567	0	456	0	1543	1543
441AW	0	1319	1319	0	1169	0	3454	3454
441BE	2496	0	2496	2210	0	10220	0	10220
441BW	0	0	0	0	0	0	0	0
501AE	218	124	342	203	110	486	307	793
501AW	442	513	955	431	470	849	1168	2017
502AE	21	385	406	21	383	11	302	313
502AW	48	326	374	38	206	71	466	537
503AE	5	5	10	5	5	3	3	6
503AW	61	6	67	59	5	81	10	91
504AE	3	18	21	3	8	1	11	12
504AW	29	172	201	24	121	41	218	259
505AE	5	13	18	5	13	4	16	20
505AW	101	62	163	94	57	82	45	127
512AE	157	30	187	134	22	393	64	457
512AW	340	66	406	307	64	850	160	1010
513AE	1111	945	2056	869	756	1444	1078	2522
513AW	1525	916	2441	1422	816	2420	1537	3957
521AE	127	253	380	96	224	328	771	1099
521AW	119	41	160	110	33	224	88	312
522AE	125	129	254	76	67	326	346	672
522AW	142	87	229	124	55	450	228	678
523AE	5	6	11	4	3	19	7	26
523AW	19	13	32	17	12	44	35	79
541AE	893	403	1296	557	238	2712	1275	3987
541AW	1691	657	2348	1159	525	2706	1152	3858
542AE	520	121	641	498	154	1612	398	2010
542AW	670	347	1017	496	227	1422	750	2172
543AE	48	100	148	48	96	98	61	159
543AW	748	360	1108	568	235	1600	621	2221
544AE	122	23	145	80	19	37	8	45
544AW	198	169	367	96	234	118	241	359
545AE	630	384	1014	467	261	1475	749	2224
545AW	19	23	42	18	19	36	39	75
546AE	221	152	373	203	131	243	159	402
546AW	412	229	641	281	160	514	272	786

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line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
547AE	1286	508	1794	960	429	4380	1660	6040
547AW	727	117	844	548	158	1734	478	2212
548AE	1613	645	2258	827	585	4126	1788	5914
548AW	1414	623	2037	677	315	2648	1222	3870
611AE	464	370	834	252	223	1074	821	1895
611AW	569	422	991	195	149	1072	837	1909
613AE	121	119	240	85	94	190	159	349
613AW	51	81	132	42	46	77	96	173
615AE	243	130	373	172	71	441	192	633
615AW	281	154	435	257	134	537	329	866
4FAE	49	0	49	29	0	100	0	100
4FAW	366	0	366	349	0	856	0	856
8FAE	210	0	210	198	0	570	0	570
8FAW	0	0	0	0	0	0	0	0
30FAE	50	0	50	28	0	87	0	87
30FAW	49	0	49	43	0	82	0	82
41FAE	95	0	95	93	0	284	0	284
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	497	0	497	438	0	3529	0	3529
82AE	0	0	0	0	0	0	0	0
82AW	156	0	156	139	0	1774	0	1774
85AE	76	0	76	58	0	845	0	845
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	255	0	255	223	0	2697	0	2697
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	39	0	39	73	0	371	0	371
88AE	303	0	303	316	0	3542	0	3542
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	302	0	302	267	0	6283	0	6283
88CE	0	0	0	0	0	0	0	0
88CW	328	0	328	234	0	6679	0	6679
89AE	120	0	120	118	0	1550	0	1550
89AW	0	0	0	0	0	0	0	0
93FAE	72	0	72	71	0	192	0	192
93FAW	0	0	0	0	0	0	0	0
411FAE	0	0	0	0	0	0	0	0
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	70	0	70	69	0	136	0	136
415FAE	0	0	0	0	0	0	0	0
415FAW	12	0	12	11	0	32	0	32
LE7	60672	25294	85966	41867	15505	750858	2829	461033804
LW7	24067	13650	37717	10007	6522	118137	66971	185108
900FAE	0	0	0	0	0	0	0	0
900FAW	0	0	0	0	0	0	0	0
901FAE	0	0	0	0	0	0	0	0
901FAW	36	0	36	36	0	41	0	41
910FAE	4	0	4	4	0	45	0	45
910FAW	0	0	0	0	0	0	0	0
totals	311530	156732	468262			1702981	8050	862508067

Table 125. Transit Boardings and Passenger-Miles by Route – Fixed Guideway 20-mile Alignment

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
ABE	964	460	1424	645	344	3017	1457	4474
ABW	1905	943	2848	1085	585	4946	2364	7310
BAE	639	949	1588	306	578	1554	2891	4445
BAW	2067	3209	5276	785	1940	3043	7715	10758
CAE	1102	1582	2684	981	1405	2320	16690	19010
CAW	630	672	1302	532	522	3433	5090	8523
DAE	709	0	709	513	0	3199	0	3199
DAW	0	0	0	0	0	0	0	0
DBE	0	567	567	0	511	0	3236	3236
DBW	2118	260	2378	1648	188	13140	1453	14593
1GE	3019	1940	4959	1193	759	6771	4192	10963
1GW	4277	2119	6396	2426	1204	11530	5758	17288
1LE	2270	1563	3833	1458	1048	10026	6310	16336
1LW	6096	3424	9520	3095	1975	28734	16945	45679
2BE	5260	2516	7776	2636	1208	10277	5244	15521
2BW	6816	3535	10351	4207	2577	18239	9071	27310
3AE	2816	1567	4383	2041	1145	6990	3815	10805
3AW	2062	1441	3503	1315	921	3680	2552	6232
4DE	9623	1172	10795	7553	538	28092	2418	30510
4DW	4521	1437	5958	1988	655	9170	3035	12205
5AE	409	135	544	555	172	1391	535	1926
5AW	644	322	966	517	214	1588	760	2348
6AE	994	2839	3833	693	3896	2233	12028	14261
6AW	1634	1621	3255	819	963	4267	3782	8049
6BE	485	0	485	730	0	733	0	733
6BW	382	0	382	396	0	373	0	373
8BE	1759	2793	4552	2678	2536	8255	2258	10513
8BW	2582	878	3460	1386	377	5712	1812	7524
8CE	4543	1476	6019	3958	2282	7000	4135	11135
8CW	2320	2925	5245	1747	2187	3826	5164	8990
9AE	3508	1682	5190	3098	1496	2769	1096	3865
9AW	2176	1019	3195	1423	724	5141	2417	7558
13AE	2078	1395	3473	1349	802	2745	1818	4563
13AW	1020	603	1623	878	452	1291	785	2076
15AE	729	540	1269	374	231	1114	735	1849
15AW	364	198	562	203	103	367	220	587
17BE	2431	805	3236	1192	307	4414	1647	6061
17BW	2615	943	3558	1261	612	4655	1776	6431
18BE	937	1078	2015	394	388	1428	1671	3099
18BW	2053	1550	3603	1230	618	3235	2170	5405
19AE	810	722	1532	365	303	1823	1842	3665
19AW	1058	1170	2228	507	621	2781	3039	5820
23AE	700	585	1285	322	353	3370	3604	6974
23AW	977	857	1834	438	364	6149	4855	11004
30AE	226	262	488	80	120	158	313	471
30AW	277	277	554	144	163	378	453	831
31AE	1522	791	2313	1334	689	2901	1305	4206
31AW	860	377	1237	835	348	1174	532	1706
40AE	0	1940	1940	0	828	0	16933	16933
40AW	0	1413	1413	0	353	0	5973	5973
40BE	0	3148	3148	0	1152	0	25081	25081
40BW	0	2168	2168	0	444	0	9021	9021
40CE	1019	0	1019	487	0	6013	0	6013
40CW	1761	0	1761	853	0	10934	0	10934
40DE	1080	0	1080	497	0	6192	0	6192
40DW	1511	0	1511	860	0	9925	0	9925
40FE	3867	0	3867	1753	0	21465	0	21465
40FW	2979	0	2979	909	0	9434	0	9434
41AE	1951	722	2673	750	400	5194	2086	7280
41AW	3395	757	4152	2245	385	12745	3154	15899
42AE	3288	2245	5533	1958	1800	11440	10381	21821
42AW	1773	642	2415	797	289	6252	2441	8693
50AE	2498	1784	4282	1135	836	8853	6301	15154
50AW	2372	1665	4037	900	785	9387	5581	14968
51AE	2010	2088	4098	936	1503	8692	12598	21290
51AW	3297	1678	4975	1527	893	16244	8028	24272

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line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
52AE	2872	0	2872	1527	0	47980	0	47980
52AW	0	0	0	0	0	0	0	0
52BE	0	3656	3656	0	2447	0	66158	66158
52BW	2364	1618	3982	1059	1073	22064	16179	38243
54CE	517	356	873	397	1158	3359	3106	6465
54CW	740	543	1283	494	353	3975	2930	6905
60AE	2393	1058	3451	1952	802	20659	8462	29121
60AW	2599	730	3329	1380	542	17369	6536	23905
61AE	1593	943	2536	1091	585	6547	4295	10842
61AW	1103	746	1849	409	371	5110	2717	7827
62CE	3216	2107	5323	1932	1324	33457	24705	58162
62CW	2816	1187	4003	914	458	25212	10961	36173
63AE	2513	1379	3892	1875	1374	23783	15026	38809
63AW	1058	926	1984	688	651	9236	6956	16192
64AE	662	508	1170	394	214	2029	1579	3608
64AW	798	665	1463	791	301	2711	1949	4660
65FE	229	107	336	144	46	810	289	1099
65FW	325	169	494	171	75	1424	634	2058
66AE	400	78	478	360	58	4799	774	5573
66AW	566	273	839	420	205	5050	2890	7940
83AE	555	0	555	547	0	4315	0	4315
83AW	0	0	0	0	0	0	0	0
83BW	0	0	0	0	0	0	0	0
83CE	1215	0	1215	1083	0	9477	0	9477
83DE	1658	0	1658	1346	0	19196	0	19196
83DW	0	0	0	0	0	0	0	0
83EE	181	0	181	58	0	477	0	477
83EW	0	0	0	0	0	0	0	0
83FW	0	0	0	0	0	0	0	0
83GE	179	0	179	75	0	694	0	694
84AE	448	0	448	309	0	2564	0	2564
84AW	0	0	0	0	0	0	0	0
84BE	454	0	454	319	0	2616	0	2616
84CE	130	0	130	72	0	490	0	490
84CW	0	0	0	0	0	0	0	0
84DE	412	0	412	351	0	2545	0	2545
93AE	4485	0	4485	3938	0	53135	0	53135
93AW	0	0	0	0	0	0	0	0
98AE	2329	0	2329	1757	0	12468	0	12468
98AW	0	0	0	0	0	0	0	0
131AE	432	268	700	419	255	886	548	1434
131AW	261	123	384	255	118	516	236	752
133AE	658	391	1049	360	182	1113	630	1743
133AW	565	306	871	399	166	1182	568	1750
231AE	225	156	381	203	145	412	283	695
231AW	83	59	142	47	36	140	118	258
232AE	66	59	125	65	59	70	53	123
232AW	39	56	95	38	56	40	53	93
301AE	1253	312	1565	720	218	2325	875	3200
301AW	760	260	1020	507	207	2013	690	2703
302AE	491	294	785	479	278	978	581	1559
302AW	501	184	685	499	182	896	356	1252
303AE	250	21	271	214	81	264	82	346
303AW	420	162	582	384	154	549	164	713
304AE	802	318	1120	648	202	1510	481	1991
304AW	732	229	961	423	154	1288	476	1764
305AE	166	198	364	78	115	280	317	597
305AW	682	584	1266	536	501	1737	1419	3156
306AE	42	56	98	35	39	37	52	89
306AW	135	85	220	84	46	97	70	167
311AE	1207	1012	2219	845	653	3498	2891	6389
311AW	1440	540	1980	1228	420	4267	1510	5777
312AE	691	49	740	607	36	1079	67	1146
312AW	1874	187	2061	1843	175	2003	197	2200
313AE	91	45	136	91	45	229	136	365
313AW	473	100	573	270	52	662	162	824
314AE	1770	653	2423	1604	415	1484	621	2105
314AW	1329	1418	2747	856	945	1157	1359	2516
401AE	181	52	233	181	52	308	86	394
401AW	369	208	577	369	207	775	432	1207

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
402AE	113	37	150	111	37	300	98	398
402AW	265	129	394	265	129	726	387	1113
403AE	252	135	387	243	126	529	290	819
403AW	157	191	348	112	101	327	308	635
411AE	1730	629	2359	827	286	2994	1160	4154
411AW	4107	1195	5302	2614	902	9383	2964	12347
412AE	140	93	233	125	79	303	187	490
412AW	143	220	363	109	184	192	218	410
413AE	182	152	334	138	121	348	296	644
413AW	1177	616	1793	1079	586	2872	1478	4350
414AE	89	94	183	79	80	186	176	362
414AW	9	36	45	5	27	5	26	31
415AE	496	615	1111	256	233	1383	2001	3384
415AW	1054	516	1570	598	325	3918	2270	6188
416AE	2693	1014	3707	2637	940	10242	3026	13268
416AW	523	291	814	392	205	1738	851	2589
418AE	190	105	295	149	400	302	738	1040
418AW	775	390	1165	491	243	1681	839	2520
419AE	1241	535	1776	1179	473	3721	1437	5158
419AW	175	79	254	126	42	533	197	730
422AE	2930	750	3680	1597	350	5293	1134	6427
422AW	1624	332	1956	606	117	2813	663	3476
432AE	54	31	85	45	14	37	26	63
432AW	200	103	303	182	81	148	91	239
432BE	20	15	35	16	9	23	15	38
432BW	15	10	25	10	6	18	9	27
433AE	736	73	809	576	46	2164	114	2278
433AW	1449	192	1641	1222	116	4818	566	5384
434AE	1853	743	2596	1729	651	5118	1947	7065
434AW	1280	457	1737	842	389	3152	1501	4653
440AE	0	59	59	0	59	0	82	82
440AW	0	353	353	0	353	0	502	502
440BE	849	0	849	771	0	2402	0	2402
440BW	0	0	0	0	0	0	0	0
441AE	0	581	581	0	471	0	1559	1559
441AW	0	1247	1247	0	1102	0	3245	3245
441BE	2467	0	2467	2183	0	9804	0	9804
441BW	0	0	0	0	0	0	0	0
501AE	78	129	207	70	115	170	306	476
501AW	216	448	664	210	425	405	1040	1445
502AE	23	380	403	23	379	12	304	316
502AW	49	320	369	39	205	77	472	549
503AE	4	6	10	4	6	2	3	5
503AW	54	5	59	51	4	72	6	78
504AE	6	20	26	5	10	2	13	15
504AW	28	169	197	23	126	41	213	254
505AE	7	21	28	5	19	5	24	29
505AW	66	44	110	62	38	48	23	71
512AE	159	38	197	136	32	400	95	495
512AW	330	78	408	299	76	828	186	1014
513AE	1087	927	2014	844	738	1406	1057	2463
513AW	1492	960	2452	1394	863	2371	1578	3949
521AE	134	249	383	102	218	348	760	1108
521AW	126	41	167	114	32	234	78	312
522AE	125	122	247	73	65	324	344	668
522AW	140	79	219	123	51	443	218	661
523AE	4	3	7	3	2	10	4	14
523AW	17	11	28	16	10	41	26	67
541AE	880	409	1289	539	243	2684	1304	3988
541AW	1628	639	2267	1125	513	2630	1152	3782
542AE	481	117	598	464	140	1505	399	1904
542AW	647	338	985	473	215	1378	729	2107
543AE	47	95	142	46	93	94	59	153
543AW	732	351	1083	558	233	1566	612	2178
544AE	126	24	150	81	18	37	10	47
544AW	181	162	343	89	225	109	229	338
545AE	592	367	959	450	255	1433	728	2161
545AW	22	23	45	20	19	44	33	77
546AE	199	151	350	186	133	216	165	381
546AW	405	222	627	285	159	511	270	781

line	boardings peak	boardings offp	boardings 24hr	max load point vol peak	max load point vol offp	pass-miles peak	pass-miles offp	pass-miles 24hr
547AE	1262	494	1756	937	419	4293	1625	5918
547AW	719	116	835	537	140	1761	406	2167
548AE	1542	616	2158	802	560	3983	1729	5712
548AW	1381	598	1979	660	309	2585	1202	3787
611AE	451	368	819	251	224	1057	825	1882
611AW	592	418	1010	194	150	1093	831	1924
613AE	116	120	236	83	94	185	159	344
613AW	49	75	124	45	51	74	99	173
615AE	247	131	378	173	71	441	192	633
615AW	280	152	432	257	135	533	333	866
4FAE	56	0	56	46	0	87	0	87
4FAW	231	0	231	229	0	536	0	536
8FAE	136	0	136	124	0	313	0	313
8FAW	0	0	0	0	0	0	0	0
30FAE	50	0	50	27	0	88	0	88
30FAW	91	0	91	85	0	153	0	153
41FAE	23	0	23	22	0	71	0	71
41FAW	0	0	0	0	0	0	0	0
80AE	0	0	0	0	0	0	0	0
80AW	446	0	446	405	0	3582	0	3582
80BE	0	0	0	0	0	0	0	0
80BW	162	0	162	101	0	1094	0	1094
80DE	0	0	0	0	0	0	0	0
80DW	73	0	73	60	0	221	0	221
80FE	0	0	0	0	0	0	0	0
80FW	127	0	127	106	0	961	0	961
82AE	0	0	0	0	0	0	0	0
82AW	133	0	133	115	0	1471	0	1471
85AE	61	0	61	53	0	699	0	699
85AW	0	0	0	0	0	0	0	0
85BW	0	0	0	0	0	0	0	0
85CE	253	0	253	226	0	2701	0	2701
85DW	0	0	0	0	0	0	0	0
85FW	0	0	0	0	0	0	0	0
85GE	28	0	28	66	0	287	0	287
88AE	315	0	315	325	0	3687	0	3687
88AW	0	0	0	0	0	0	0	0
88BE	0	0	0	0	0	0	0	0
88BW	298	0	298	272	0	6464	0	6464
88CE	0	0	0	0	0	0	0	0
88CW	306	0	306	221	0	6090	0	6090
89AE	132	0	132	127	0	1668	0	1668
89AW	0	0	0	0	0	0	0	0
93FAE	28	0	28	24	0	115	0	115
93FAW	0	0	0	0	0	0	0	0
95AE	0	0	0	0	0	0	0	0
95AW	65	0	65	35	0	591	0	591
411FAE	0	0	0	0	0	0	0	0
411FAW	0	0	0	0	0	0	0	0
413FAE	0	0	0	0	0	0	0	0
413FAW	20	0	20	19	0	41	0	41
415FAE	0	0	0	0	0	0	0	0
415FAW	0	0	0	0	0	0	0	0
LEME	51940	20422	72362	37911	13090	578179	206613	784792
LWME	14657	7950	22607	6444	3800	73378	41434	114812
900FAE	0	0	0	0	0	0	0	0
900FAW	1	0	1	1	0	17	0	17
901FAE	0	0	0	0	0	0	0	0
901FAW	43	0	43	43	0	49	0	49
910FAE	1	0	1	1	0	11	0	11
910FAW	0	0	0	0	0	0	0	0
totals	301974	153309	455283			1563026	758514	2321540

Table 126. AM Peak Hour Fixed Guideway Combination 1 Station Volumes by Mode of Arrival & Departure

Station	Mode of Arrival				Mode of Departure		
	Walk	Bus	Drive	Total	Walk	Bus	Total
Kapolei Parkway & Hanua Street	16	811	552	1,379	40	74	114
Kapolei Parkway & Wākea Street	106	184	0	290	36	429	465
Saratoga Avenue & Wākea Street	72	0	0	72	58	0	58
Saratoga Ave & Fort Barrette Road	3	5	0	8	53	50	103
Saratoga Ave & North-South Road	19	184	742	945	32	22	54
North-South Road between Kapolei Parkway & Farrington Highway	42	278	0	320	8	95	103
Farrington Hwy & North-South Road	168	745	758	1,671	217	49	266
Farrington Highway between North-South Road & Fort Weaver Road	66	59	0	125	82	28	110
Farrington Highway & Leokū Street	106	439	0	545	127	235	362
Farrington Highway & Mokuola Street	58	338	0	396	88	142	230
Leeward Community College	32	0	0	32	316	0	316
Kamehameha Hwy & Kuala Street	153	1,366	634	2,153	103	171	274
Kamehameha Hwy & Kaonohi Street	32	637	0	669	177	565	742
Salt Lake Blvd. & Kahuapaʻani Street	48	241	515	804	451	618	1,069
Salt Lake Boulevard & Ala Inoi Place	177	228	0	405	139	446	585
N. King Street & Owen Street	34	237	0	271	185	274	459
N. King Street & Waiakamilo Street	108	16	0	124	321	26	347
N. King Street at Dillingham Boulevard. & Liliha Street	75	124	0	199	330	523	853
Hotel Street & Kekaulike Street	61	0	0	61	121	17	138
Hotel Street & Nuʻuanu Avenue	165	0	0	165	372	0	372
Hotel Street & Fort Street Mall	78	507	0	585	1,257	100	1,357
Honolulu Hale	68	5	0	73	382	16	398
Kawaiahaʻo Street & Cooke Street	328	0	0	328	562	0	562
Ala Moana Center	92	96	0	188	565	267	832
Hawaiʻi Convention Center or Kapiʻolani Blvd & McCully Street	337	498	0	835	466	890	1,356
University Avenue & Date Street	248	191	0	439	131	203	334
University Avenue & S. King Street	129	269	0	398	124	246	370
UH Mānoa	106	59	0	165	1,145	266	1,411
Totals	2,927	7,517	3,201	13,645	7,888	5,752	13,640

Table 127. AM Peak Hour Fixed Guideway Combination 2 Station Volumes by Mode of Arrival & Departure

Station	Mode of Arrival				Mode of Departure		
	Walk	Bus	Drive	Total	Walk	Bus	Total
Kapolei Parkway & Hanua Street	16	854	551	1421	27	43	70
Kamokila Blvd & Wākea Street	15	633	0	648	149	358	507
Farrington Hwy at UH West Oʻahu	11	308	761	1,080	5	13	18
Farrington Hwy & North-South Road	187	0	0	187	202	1	203
Farrington Highway between North-South Road & Fort Weaver Road	77	559	0	636	65	58	123
Farrington Highway & Leokū Street	110	362	0	472	122	217	339
Farrington Highway & Mokuola Street	116	442	0	558	101	111	212
Leeward Community College	32	0	0	32	300	0	300
Kamehameha Hwy & Kuala Street	158	1,366	635	2,159	99	153	252
Kamehameha Hwy & Kaonohi Street	30	684	0	714	157	473	630
Aloha Stadium	11	105	565	681	62	150	212
Kamehameha Hwy & Radford Drive	30	206	0	236	389	534	923
Honolulu International Airport	95	56	0	151	456	16	472
Aolele Street & Lagoon Drive	37	137	0	174	237	284	521
Middle Street Transit Center	16	339	0	355	96	262	358
Dillingham Blvd. & Mokauea Street	164	25	0	189	309	64	373
Dillingham Boulevard & Kōkea Street	107	0	0	107	354	39	393
Kaʻaahi Street	14	226	0	240	117	358	475
King Street & Bethel Street	289	5	0	294	1,457	74	1,531
King Street & Punchbowl Street	186	38	0	224	547	233	780
Waimanu Street & Cummins Street	208	0	0	208	366	0	366
Kona Street & Keʻeaumoku Street	102	166	0	268	540	247	787
Hawaiʻi Convention Center or Kapiʻolani Boulevard & McCully Street	152	1	0	153	68	0	68
University Avenue & Date Street	162	140	0	302	89	160	249
University Avenue & S. King Street	108	267	0	375	81	163	244
UH Lower Campus	84	42	0	126	966	157	1,123
Waikīkī Branch							
Convention Center from Kalākaua Avenue	223	3	0	226	164	2	166
Kūhiō Avenue & Kālaimoku Street	163	106	0	269	466	0	466
Kūhiō Avenue & Liliʻuokalani Avenue	247	130	0	377	529	170	699
Totals	3,150	7,200	2,512	12,862	8,520	4,340	12,860

Table 128. AM Peak Hour Fixed Guideway Combination 3 Station Volumes by Mode of Arrival & Departure

Station	Mode of Arrival				Mode of Departure		
	Walk	Bus	Drive	Total	Walk	Bus	Total
Kapolei Parkway & Hanua Street	16	823	536	1,375	35	67	102
Kapolei Parkway & Wākea Street	101	149	0	250	34	385	419
Saratoga Avenue. & Wākea Street	72	0	0	72	56	0	56
Saratoga Avenue & Fort Barrette Road	3	5	0	8	51	50	101
Saratoga Avenue & North-South Road	19	274	892	1,185	33	22	55
North-South Road between Kapolei Parkway & Farrington Highway	43	285	0	328	8	107	115
Farrington Hwy & North-South Road	152	410	545	1,107	133	76	209
Farrington Highway between North-South Road & Fort Weaver Road	62	219	0	281	80	21	101
Farrington Highway & Leokū Street	107	523	0	630	126	241	367
Farrington Highway & Mokuola Street	58	341	0	399	87	142	229
Leeward Community College	32	0	0	32	309	0	309
Kamehameha Hwy & Kuala Street	157	1,345	638	2,140	101	167	268
Kamehameha Hwy & Kaonohi Street	30	671	0	701	157	498	655
Aloha Stadium	12	105	586	703	56	159	215
Kamehameha Hwy & Radford Drive	51	177	0	228	396	547	943
Honolulu International Airport	98	54	0	152	549	50	599
Aolele Street & Lagoon Drive	28	130	0	158	155	274	429
Middle Street Transit Center	16	324	0	340	102	293	395
Dillingham Blvd. & Mokauea Street	154	24	0	178	298	71	369
Dillingham Boulevard & Kōkea Street	86	0	0	86	324	47	371
Ka‘aahi Street	85	216	0	301	148	464	612
Nimitz Highway & Kekaulike Streets	195	0	0	195	272	0	272
Nimitz Highway & Fort Street Mall	79	35	0	114	990	69	1,059
Halekauwila Street & South Street	141	72	0	213	442	221	663
Halekauwila Street & Ward Avenue	217	8	0	225	350	29	379
Kona Street & Ke‘eaumoku Street	107	264	0	371	552	1,058	1,610
Hawai‘i Convention Center or Kapi‘olani Boulevard & McCully Street	449	0	0	449	358	1	359
University Avenue & Date Street	167	180	0	347	102	202	304
University Avenue & South King Street	125	316	0	441	97	221	318
UH Lower Campus	59	81	0	140	986	291	1277
Totals	2,921	7,031	3,197	13,149	7,387	5,773	13,160

Table 129. AM Peak Hour Fixed Guideway 20-mile Alignment Station Volumes by Mode of Arrival & Departure

Station	Mode of Arrival				Mode of Departure		
	Walk	Bus	Drive	Total	Walk	Bus	Total
UH West O‘ahu Campus Waianae of North-South Road between Kapolei Parkway and Farrington Highway	31	311	947	1,289	18	52	70
UH West O’ahu at North-South Road and makai of Farrington Highway	144	,1275	0	1,419	187	210	397
Between North-South Road & Fort Weaver Road	368	437	0	805	36	36	72
Farrington Highway & Leokū Street	96	548	0	644	72	320	392
Farrington Highway & Mokuola Street	52	314	0	366	71	153	224
Leeward Community College	32	0	0	32	304	0	304
Kamehameha Highway & Kuala Street	154	1,260	637	2,051	99	141	240
Kamehameha Highway & Kaonohi Street	29	639	0	668	152	457	609
Aloha Stadium	11	101	565	677	55	147	202
Kamehameha Highway & Radford Drive	50	171	0	221	387	504	891
Honolulu International Airport	96	51	0	147	532	63	595
Aolele Street & Lagoon Drive	31	0	0	31	205	135	340
Middle Street Transit Center	16	464	0	480	75	310	385
Dillingham Boulevard & Mokauea Street	148	16	0	164	285	48	333
Dillingham Boulevard & Kōkea Street	69	0	0	69	292	39	331
Ka‘aahi Street	63	213	0	276	90	374	464
Nimitz Highway & Kekaulike Streets	132	0	0	132	200	0	200
Nimitz Highway & Fort Street Mall	56	19	0	75	692	57	749
Halekauwila Street & South Street	156	69	0	225	375	940	1,315
Halekauwila Street & Ward Avenue	147	7	0	154	303	13	316
Kona Street & Ke‘eaumoku Street	46	508	0	554	419	1,619	2,068
Totals	1,927	6,403	2,149	10,479	4,849	5,618	10,467

Table 130. Fixed Guideway Alternative Combination 1 Link Volumes

		AM PEAK HOUR			Daily		
		east	west		east	west	
A Station	B Station	Volume A to B	Volume B to A	Two-way Volume	Volume A to B	Volume B to A	Two-way Volume
Kapolei Parkway & Hanua Street	Kapolei Pkwy & Wākea Street	1,377	113	1,490	12,335	1,152	13,487
Kapolei Pkwy & Wākea Street	Saratoga Avenue & Wākea Street	1,612	521	2,133	14,575	4,643	19,218
Saratoga Avenue & Wākea Street	Saratoga Ave. & Fort Barrette Road	1,651	546	2,197	14,874	4,798	19,672
Saratoga Ave. & Fort Barrette Road	Kapolei Pkwy & North-South Road	1,627	617	2,244	14,713	5,375	20,088
Kapolei Pkwy & North-South Road	North-South Road between Kapolei Parkway & Farrington Highway	2,417	516	2,933	21,435	4,494	25,929
North-South Road between Kapolei Parkway & Farrington Highway	Farrington Hwy & North-South Road	2,654	535	3,189	23,144	4,598	27,742
Farrington Hwy & North-South Road	Farrington Hwy between North-South Road & Fort Weaver Road	4,016	495	4,511	34,867	3,776	38,643
Farrington Hwy between North-South Road & Fort Weaver Road	Farrington Highway & Leokū Street	4,070	533	4,603	35,166	4,065	39,231
Farrington Highway & Leokū Street	Farrington Hwy & Mokuola Street	4,397	677	5,074	38,008	5,123	43,131
Farrington Hwy & Mokuola Street	Leeward Community College	4,627	743	5,370	40,119	5,773	45,892
Leeward Community College	Kamehameha Hwy & Kuala Street	4,522	922	5,444	39,130	7,255	46,385
Kamehameha Hwy & Kuala Street	Kamehameha Highway & Kaonohi Street	6,070	590	6,660	51,176	4,547	55,723
Kamehameha Highway & Kaonohi Street	Salt Lake Boulevard & Kahuapaʻani Street	6,102	694	6,796	52,683	6,013	58,696
Salt Lake Boulevard & Kahuapaʻani Street	Salt Lake Blvd. & Ala Inoi Place	6,027	883	6,910	52,148	8,031	60,179
Salt Lake Blvd. & Ala Inoi Place	N. King Street & Owen Street	5,872	907	6,779	51,427	8,385	59,812

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		AM PEAK HOUR			Daily		
		east	west		east	west	
A Station	B Station	Volume A to B	Volume B to A	Two-way Volume	Volume A to B	Volume B to A	Two-way Volume
N. King Street & Owen Street	N. King Street & Waiakamilo Street	5,696	920	6,616	49,987	8,642	58,629
N. King Street & Waiakamilo Street	N. King Street at Dillingham Boulevard. & Liliha Street	5,573	1,024	6,597	49,008	9,840	58,848
N. King Street at Dillingham Boulevard. & Liliha Street	Hotel Street & Kekaulike Street	5,024	1,126	6,150	45,325	11,173	56,498
Hotel Street & Kekaulike Street	Hotel Street & Nuʻuanu Avenue	4,948	1,130	6,078	44,603	11,251	55,854
Hotel Street & Nuʻuanu Avenue	Hotel Street & Fort Street Mall	4,874	1,261	6,135	44,071	14,033	58,104
Hotel Street & Fort Street Mall	Honolulu Hale	4,369	1,529	5,898	40,026	17,478	57,504
Honolulu Hale	Kawaiahaʻo Street & Cooke Street	4,157	1,643	5,800	38,311	18,690	57,001
Kawaiahaʻo Street & Cooke Street	Ala Moana Center	3,907	1,628	5,535	35,849	18,748	54,597
Ala Moana Center	Hawaiʻi Convention Center or Kapiʻolani Blvd	3,254	1,619	4,873	29,494	18,635	48,129
Hawaiʻi Convention Center or Kapiʻolani Blvd	University Avenue & Date Street	2,072	957	3,029	19,218	9,534	28,752
University Avenue & Date Street	University Avenue & S. King Street	1,779	556	2,335	16,565	5,749	22,314
University Avenue & S. King Street	UH Lower Campus	1,414	163	1,577	12,254	1,598	13,852

Table 131. Fixed Guideway Alternative Combination 2 Link Volumes

		AM PEAK HOUR			Daily		
		eastbound	Westbound		eastbound	Westbound	
A Station	B Station	Volume A to B		Two-way Volume	Volume A to B		Two-way Volume
Kapolei Parkway & Hanua Street	Kamokila Blvd. & Wākea Street	1,420	69	1,489	12,960	757	13,717
Kamokila Blvd. & Wākea Street	Farrington Hwy at UH West Oʻahu	2,010	521	2,531	17,819	4,522	22,341
Farrington Hwy at UH West Oʻahu	Farrington Hwy & North-South Road	2,915	364	3,279	25,458	2,983	28,441
Farrington Hwy & North-South Road	Farrington Hwy between North-South Road & Fort Weaver Road	3,012	476	3,488	26,387	3,771	30,158
Farrington Hwy between North-South Road & Fort Weaver Road	Farrington Highway & Leokū Street	3,577	529	4,106	30,900	4,091	34,991
Farrington Highway & Leokū Street	Farrington Hwy & Mokuola Street	3,865	682	4,547	33,662	5,172	38,834
Farrington Hwy & Mokuola Street	Leeward Community College	4,276	746	5,022	37,484	5,830	43,314
Leeward Community College	Kamehameha Hwy & Kuala Street	4,182	919	5,101	36,616	7,273	43,889
Kamehameha Hwy & Kuala Street	Kamehameha Highway & Kaonohi Street	5,748	578	6,326	48,766	4,446	53,212
Kamehameha Highway & Kaonohi Street	Aloha Stadium	5,886	630	6,516	51,432	5,041	56,473
Aloha Stadium	Kamehameha Hwy & Radford Drive	6,274	552	6,826	54,996	4,749	59,745
Kamehameha Hwy & Radford Drive	Honolulu International Airport	5,850	815	6,665	51,600	7,545	59,145
Honolulu International Airport	Aolele Street & Lagoon Drive	5,652	939	6,591	50,064	8,846	58,910
Aolele Street & Lagoon Drive	Middle Street Transit Center	5,448	1,083	6,531	48,240	10,545	58,785
Middle Street Transit Center	Dillingham Blvd. & Mokauea Street	5,346	982	6,328	47,439	9,812	57,251
Dillingham Blvd. & Mokauea Street	Dillingham Blvd. & Kōkea Street	5,229	1,050	6,279	46,584	10,511	57,095
Dillingham Blvd. & Kōkea Street	Kaʻaahi Street	5,044	1,152	6,196	44,928	11,694	56,622

		AM PEAK HOUR			Daily		
		eastbound	Westbound		eastbound	Westbound	
A Station	B Station	Volume A to B		Two-way Volume	Volume A to B		Two-way Volume
Ka'aahi Street	King Street & Bethel Street	4,797	1,139	5,936	43,008	11,703	54,711
King Street & Bethel Street	King Street & Punchbowl Street	4,038	1,616	5,654	36,497	18,572	55,069
King Street & Punchbowl Street	Waimanu Street & Cummins Street	3,565	1,699	5,264	32,567	19,628	52,195
Waimanu Street & Cummins Street	Ala Moana Center	3,404	1,698	5,102	30,898	19,784	50,682
Ala Moana Center	Hawai'i Convention Center or Kapi'olani Blvd. & McCully Street	1,623	892	2,515	14,847	8,664	23,511
Hawai'i Convention Center or Kapi'olani Blvd. & McCully Street	University Avenue & Date Street	1,599	784	2,383	14,659	7,416	22,075
University Avenue & Date Street	University Avenue & S. King Street	1,367	501	1,868	12,593	4,864	17,457
University Avenue & S. King Street	UH Lower Campus	1,123	126	1,249	9,809	1,163	10,972
Waikīkī Branch							
Ala Moana Center	Convention Center from Kalākaua Avenue	1,294	836	2,130	11,367	11,644	23,011
Convention Center from Kalākaua Avenue	Kūhiō Avenue & Kālaimoku Street	1,163	644	1,807	10,254	9,588	19,842
Kūhiō Avenue & Kālaimoku Street	Kūhiō Avenue & Lili'uokalani Avenue	698	377	1,075	5,994	5,530	11,524

Table 132. Fixed Guideway Alternative Combination 3 Link Volumes

		AM PEAK HOUR			Daily		
		east	west		east	west	
A Station	**B Station**	**Volume A to B**	**Volume B to A**	**Two-way Volume**	**Volume A to B**	**Volume B to A**	**Two-way Volume**
Kapolei Parkway & Hanua Street	Kapolei Pkwy & Wākea Street	1,377	103	1,480	12,439	1,020	13,459
Kapolei Pkwy & Wākea Street	Saratoga Avenue & Wākea Street	1,570	465	2,035	14,417	4,112	18,529
Saratoga Avenue & Wākea Street	Saratoga Ave. & Fort Barrette Road	1,607	486	2,093	14,693	4,237	18,930
Saratoga Ave. & Fort Barrette Road	Kapolei Pkwy & North-South Road	1,585	556	2,141	14,556	4,800	19,356
Kapolei Pkwy & North-South Road	North-South Road between Kapolei Parkway & Farrington Highway	2,590	430	3,020	22,942	3,638	26,580
North-South Road between Kapolei Parkway & Farrington Highway	Farrington Hwy & North-South Road	2,806	434	3,240	24,623	3,597	28,220
Farrington Hwy & North-South Road	Farrington Hwy between North-South Road & Fort Weaver Road	3,734	462	4,196	32,296	3,562	35,858
Farrington Hwy between North-South Road & Fort Weaver Road	Farrington Highway & Leokū Street	3,961	509	4,470	34,128	3,864	37,992
Farrington Highway & Leokū Street	Farrington Hwy & Mokuola Street	4,376	661	5,037	37,999	4,968	42,967
Farrington Hwy & Mokuola Street	Leeward Community College	4,615	730	5,345	40,228	5,657	45,885
Leeward Community College	Kamehameha Hwy & Kuala Street	4,512	903	5,415	39,261	7,084	46,345
Kamehameha Hwy & Kuala Street	Kamehameha Highway & Kaonohi Street	6,055	575	6,630	51,343	4,402	55,745
Kamehameha Highway & Kaonohi Street	Aloha Stadium	6,157	631	6,788	53,704	5,077	58,781
Aloha Stadium	Kamehameha Hwy & Radford Drive	6,563	548	7,111	57,372	4,726	62,098
Kamehameha Hwy & Radford Drive	Honolulu International Airport	6,114	816	6,930	53,772	7,527	61,299
Honolulu International Airport	Aolele Street & Lagoon Drive	5,788	934	6,722	50,988	8,795	59,783
Aolele Street & Lagoon Drive	Middle Street Transit Center	5,677	1,091	6,768	50,078	10,641	60,719
Middle Street Transit Center	Dillingham Blvd. & Mokauea Street	5,533	1,002	6,535	49,020		59,038

		AM PEAK HOUR			Daily		
		east	west		east	west	
A Station	**B Station**	**Volume A to B**	**Volume B to A**	**Two-way Volume**	**Volume A to B**	**Volume B to A**	**Two-way Volume**
						10,018	
Dillingham Blvd. & Mokauea Street	Dillingham Blvd. & Kōkea Street	5,395	1,058	6,453	48,026	10,548	58,574
Dillingham Blvd. & Kōkea Street	Ka‘aahi Street	5,183	1,133	6,316	46,059	11,471	57,530
Ka‘aahi Street	Nimitz Hwy & Kekaulike Street	4,867	1,130	5,997	43,738	11,485	55,223
Nimitz Hwy & Kekaulike Street	Nimitz Highway & Fort Street Mall	4,813	1,153	5,966	43,254	12,040	55,294
Nimitz Highway & Fort Street Mall	Halekauwila Street & South Street	4,180	1,465	5,645	37,875	16,280	54,155
Halekauwila Street & South Street	Halekauwila Street & Ward Avenue	3,727	1,464	5,191	34,128	16,529	50,657
Halekauwila Street & Ward Avenue	Ala Moana Center	3,550	1,441	4,991	32,341	16,353	48,694
Ala Moana Center	Hawai‘i Convention Center or Kapi‘olani Blvd. & McCully Street	2,133	1,260	3,393	19,762	13,482	33,244
Hawai‘i Convention Center or Kapi‘olani Blvd. & McCully Street	University Avenue & Date Street	1,864	903	2,767	17,332	8,909	26,241
University Avenue & Date Street	University Avenue & S. King Street	1,588	581	2,169	14,839	5,844	20,683
University Avenue & S. King Street	UH Lower Campus	1,276	141	1,417	10,970	1,387	12,357

Table 133. Fixed Guideway 20-mile Alignment Link Volumes

		AM PEAK HOUR			Daily		
		east	west		east	west	
A Station	B Station	Volume A to B	Volume B to A	Two-way Volume	Volume A to B	Volume B to A	Two-way Volume
UH, West Oʻahu Campus Waiʻanae of North-South Road between Kapolei Parkway and Farrington Highway	North-South Road & Makai of Farrington Hwy	1,289	70	1,359	11,125	595	11,720
North-South Road & Makai of Farrington Hwy	Between North-South Road & Fort Weaver Road	2,574	333	2,907	21,694	2,704	24,398
Between North-South Road & Fort Weaver Road	Farrington Highway & Leokū Street	3,285	313	3,598	27,487	2,217	29,704
Farrington Highway & Leokū Street	Farrington Hwy & Mokuola Street	3,770	546	4,316	32,508	3,848	36,356
Farrington Hwy & Mokuola Street	Leeward Community College	4,063	699	4,762	35,245	5,194	40,439
Leeward Community College	Kamehameha Hwy & Kuala Street	3,965	874	4,839	34,335	6,695	41,030
Kamehameha Hwy & Kuala Street	Kamehameha Highway & Kaonohi Street	5,466	562	6,028	46,047	4,204	50,251
Kamehameha Highway & Kaonohi Street	Aloha Stadium	5,571	608	6,179	47,762	4,839	52,601
Aloha Stadium	Kamehameha Hwy & Radford Drive	5,962	523	6,485	51,001	4,308	55,309
Kamehameha Hwy & Radford Drive	Honolulu International Airport	5,540	772	6,312	48,019	7,097	55,116
Honolulu International Airport	Aolele Street & Lagoon Drive	5,208	887	6,095	45,172	8,343	53,515
Aolele Street & Lagoon Drive	Middle Street Transit Center	5,063	1,049	6,112	43,963	10,244	54,207
Middle Street Transit Center	Dillingham Blvd. & Mokauea Street	4,987	879	5,866	43,419	8,852	52,271
Dillingham Blvd. & Mokauea Street	Dillingham Blvd. & Kōkea Street	4,850	916	5,766	42,267	9,057	51,324
Dillingham Blvd. & Kōkea Street	Kaʻaahi Street	4,627	953	5,580	40,226	9,469	49,695
Kaʻaahi Street	Nimitz Hwy & Kekaulike Street	4,281	798	5,079	37,237	7,951	45,188
Nimitz Hwy & Kekaulike Street	Nimitz Highway & Fort Street Mall	4,167	752	4,919	36,218	7,592	43,810
Nimitz Highway & Fort Street Mall	Halekauwila Street & South Street	3,500	760	4,260	30,572	7,932	38,504
Halekauwila Street & South Street	Halekauwila Street & Ward Avenue	2,291	642	2,933	22,125	7,049	29,174
Halekauwila Street & Ward Avenue	Ala Moana Center	2,041	553	2,594	19,759	6,222	25,981

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Figure 5. Fixed Guideway Alternative Combination 1 AM Peak Hour Volume on Rail Line

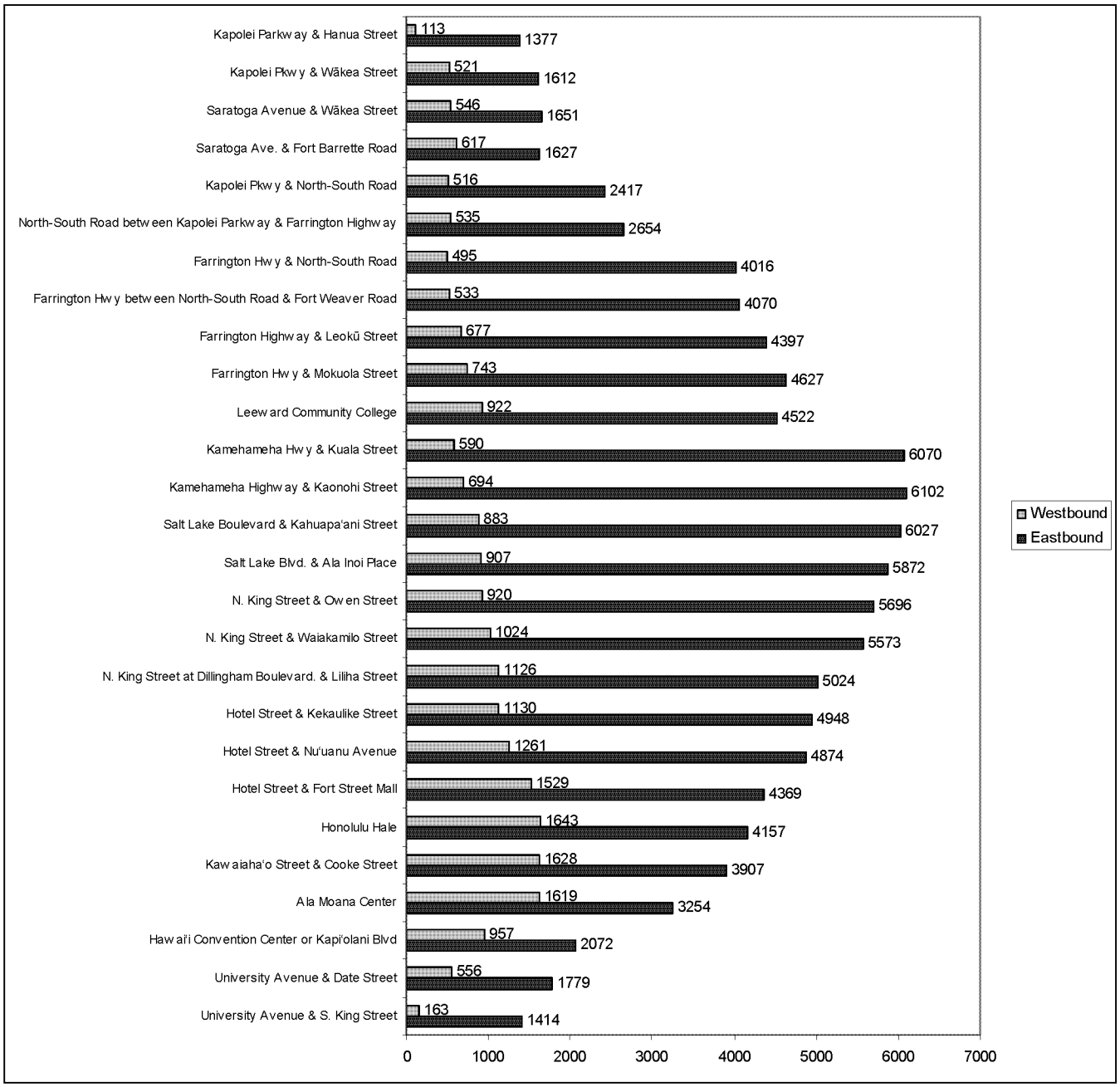

Figure 6. Fixed Guideway Alternative Combination 2 AM Peak Hour Volume on Rail Line

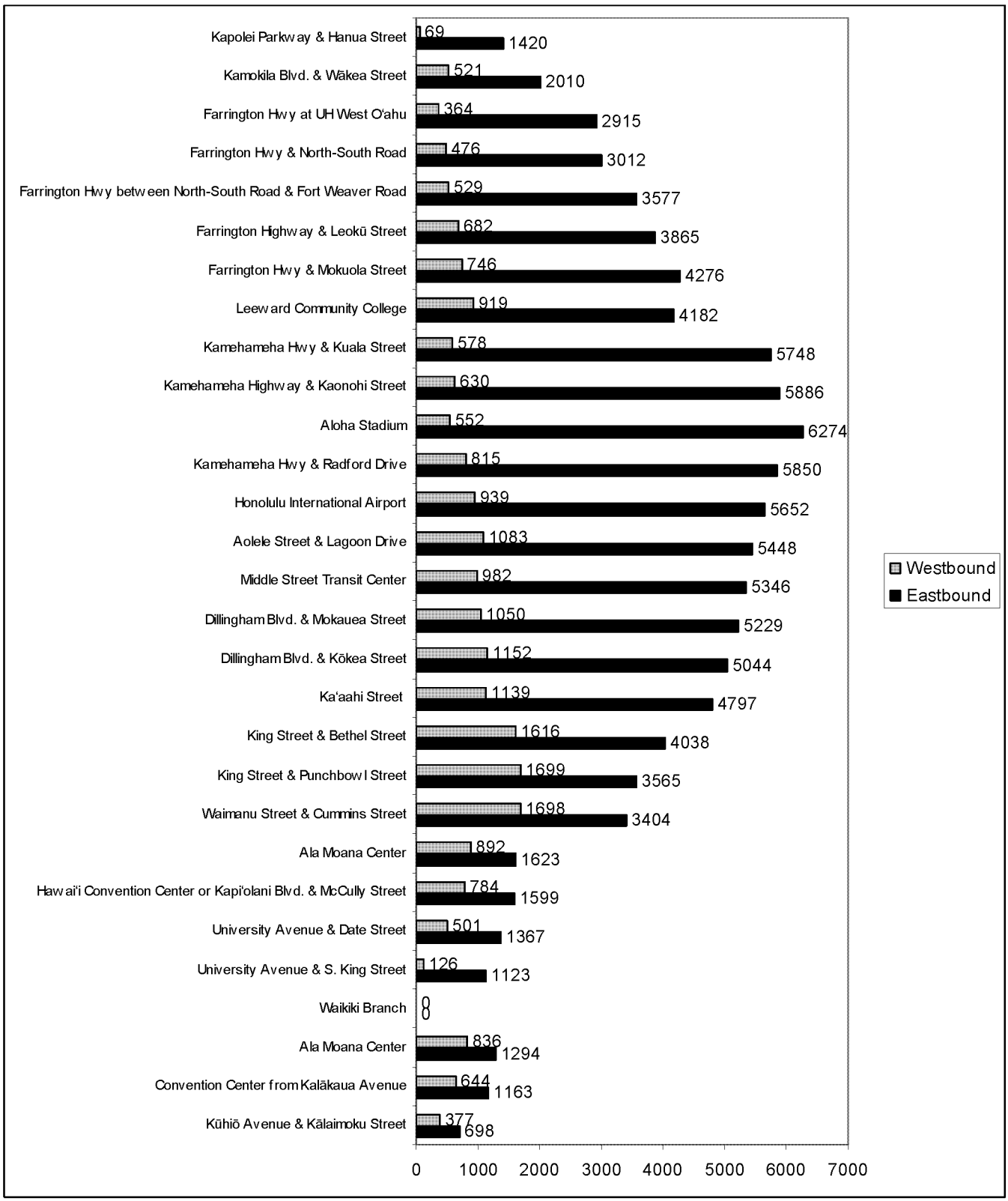

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Figure 7. Fixed Guideway Alternative Combination 3 AM Peak Hour Volume on Rail Line

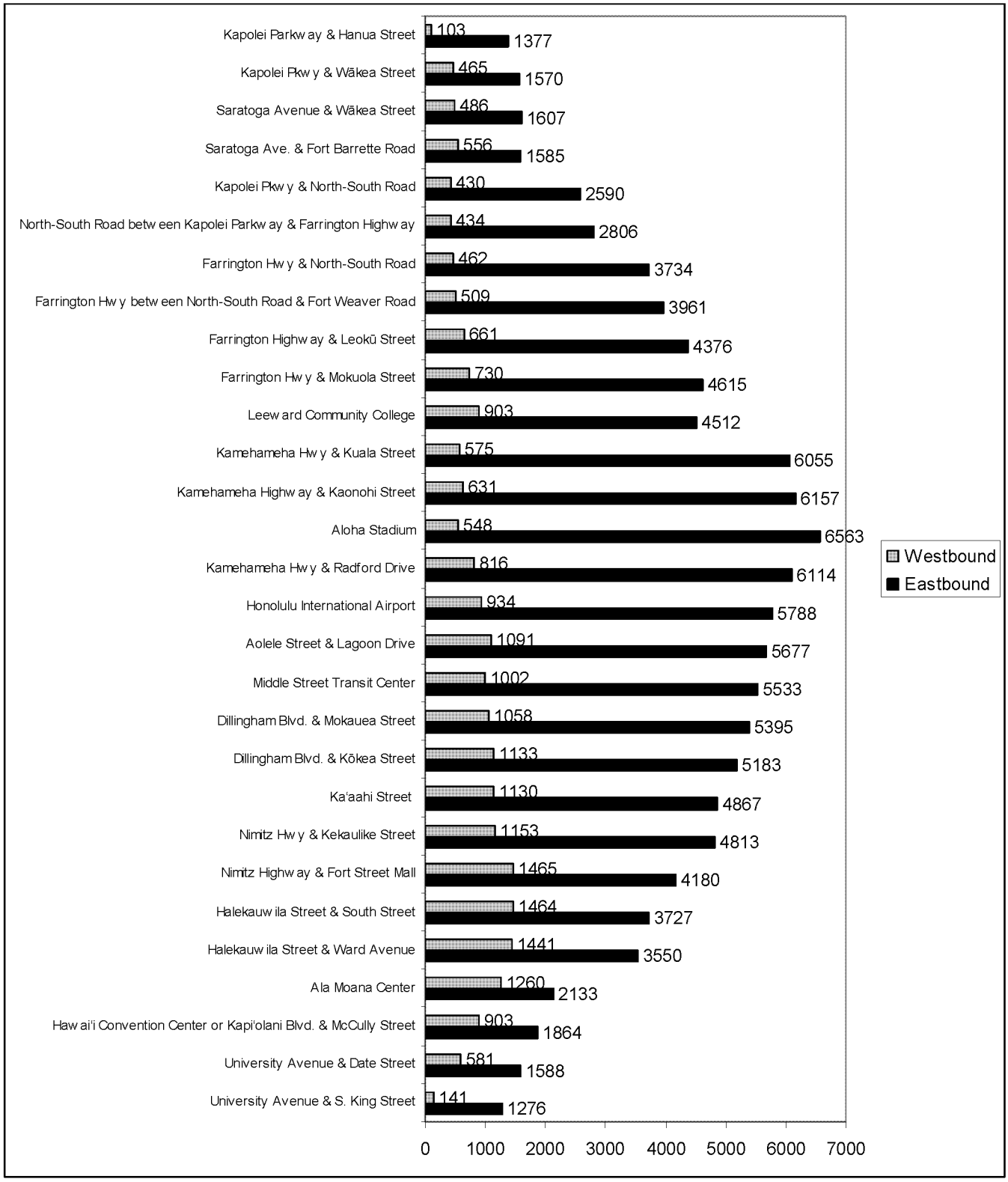
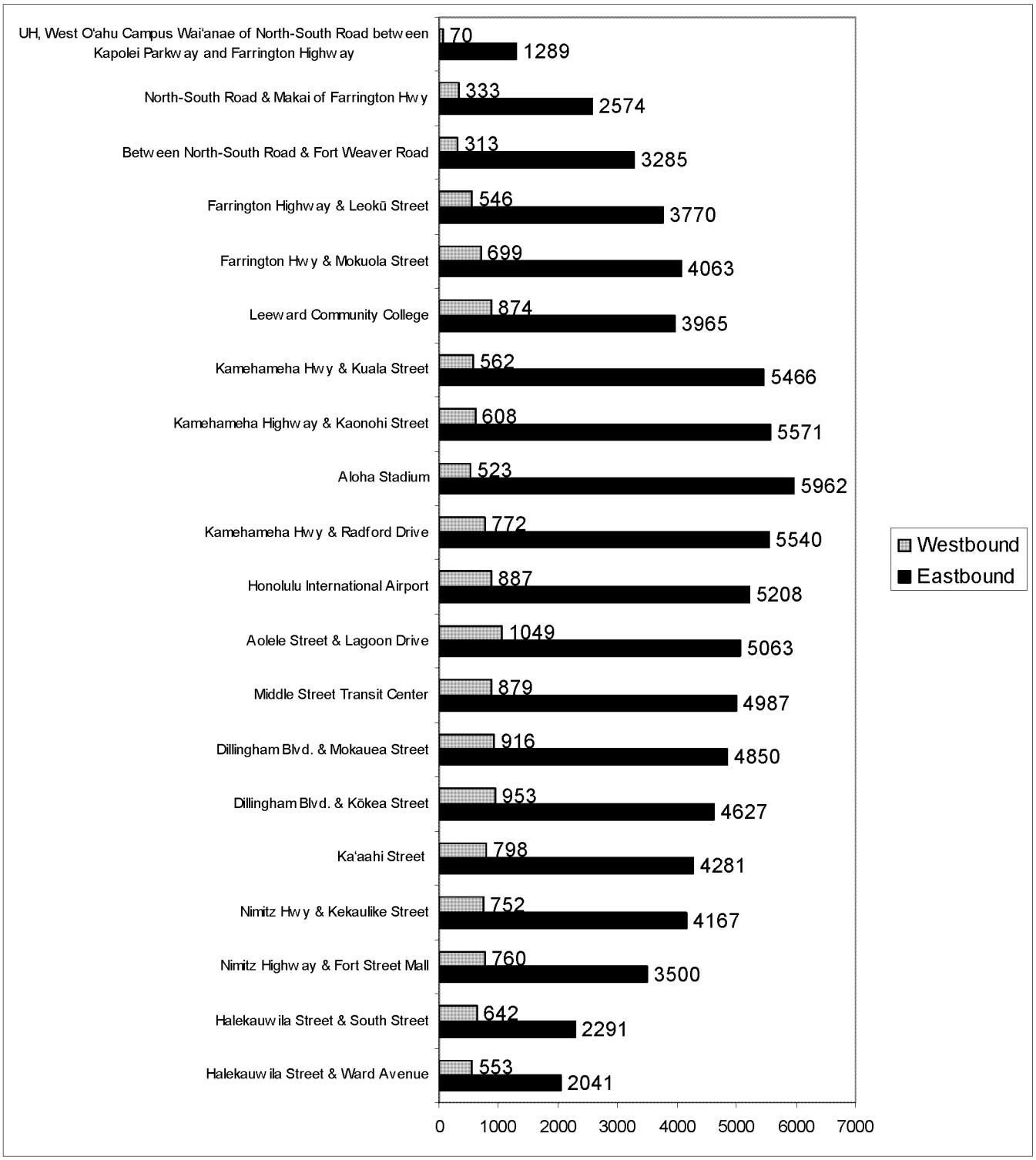


Figure 8. Fixed Guideway Alternative 20-mile Alignment AM Peak Hour Volume on Rail Line


UH, West O'ahu Campus Wai'anae of North-South Road between Kapolei Parkway and Farrington Highway
170
1289
North-South Road & Makai of Farrington Hwy
333
2574
Between North-South Road & Fort Weaver Road
313
3285
Farrington Highway & Leokū Street
546
3770
Farrington Hwy & Mokuola Street
699
4063
Leeward Community College
874
3965
Kamehameha Hwy & Kuala Street
562
5466
Kamehameha Highway & Kaonohi Street
608
5571
Aloha Stadium
523
5962
Kamehameha Hwy & Radford Drive
772
5540
Honolulu International Airport
887
5208
Aolele Street & Lagoon Drive
1049
5063
Middle Street Transit Center
879
4987
Dillingham Blvd. & Mokauea Street
916
4850
Dillingham Blvd. & Kōkea Street
953
4627
Ka'aahi Street
798
4281
Nimitz Hwy & Kekaulike Street
752
4167
Nimitz Highway & Fort Street Mall
760
3500
Halekauwila Street & South Street
642
2291
Halekauwila Street & Ward Avenue
553
2041
0
1000
2000
3000
4000
5000
6000
7000
Westbound
Eastbound

AR00066525

AR00066526

Table 134. Fixed Guideway Combination 1 Station-to-Station Volumes – AM 2-Hour Peak Period

Origin	Destination: Kapolei Pkwy & Hanua Street	Kapolei Pkwy & Wākea Street	Saratoga Ave. & Wākea Street	Saratoga Ave. & Fort Barrette Road	Kapolei Pkwy & North-South Road	North-South Road between Kapolei Pkwy & Farrington Hwy	Farrington Hwy & North-South Road	Farrington Hwy between North-South Road & Fort Weaver Road	Farrington Hwy & Leokū Street	Farrington Hwy & Mokuola Street	Leeward Community College	Kamehameha Hwy & Kuala Street	Kamehameha Hwy & Kaonohi Street	Salt Lake Blvd. & Kahuapa'ani Street	Salt Lake Blvd. & Ala Inoi Place	N. King Street & Owen Street	N. King Street & Waiakamilo Street	N. King Street at Dillingham Blvd. & Liliha Street	Hotel Street & Kekaulike Street	Hotel Street & Nu'uanu Ave.	Hotel Street & Fort Street Mall	Honolulu Hale	Kawaiaha'o Street & Cooke Street	Ala Moana Center	Hawai'i Convention Center or Kapi'olani Blvd. & McCully Street	University Ave & Date Street	University Ave. & S. King Street	UH Mānoa	**Total**
Kapolei Pkwy & Hanua Street		102	18	42	18	25	67	16	78	49	51	71	136	171	125	75	38	180	18	42	195	58	82	147	264	51	62	318	**2,504**
Kapolei Pkwy & Wākea Street	0		24	13	4	7	16	2	24	15	15	22	47	35	24	13	16	38	4	7	22	9	16	16	40	13	13	76	**529**
Saratoga Ave. & Wākea Street	5	15		5	2	4	9	2	5	2	4	4	5	5	5	2	2	7	0	2	5	4	4	4	13	2	2	16	**131**
Saratoga Ave. & Fort Barrette Road	0	2	0		0	0	2	0	0	0	0	2	2	2	0	0	0	2	0	0	2	0	0	0	2	0	0	2	**15**
Kapolei Pkwy & North-South Road	38	193	0	27		45	84	35	75	25	25	40	82	91	62	45	16	111	9	22	122	20	29	104	200	29	31	158	**1,718**
North-South Road between Kapolei Pkwy & Farrington Hwy	18	33	11	9	0		18	2	9	11	22	22	47	38	25	15	15	44	4	5	27	13	20	18	53	15	11	76	**582**
Farrington Hwy & North-South Road	45	158	22	49	44	45		51	125	69	60	95	218	189	131	87	53	218	20	40	196	55	76	153	347	64	67	358	**3,036**
Farrington Hwy between North-South Road & Fort Weaver Road	2	2	2	2	2	2	9		16	11	7	9	22	15	11	5	5	16	2	2	13	5	7	7	20	5	5	25	**227**
Farrington Hwy & Leokū Street	9	11	4	5	4	7	20	9		9	25	40	58	62	40	27	25	65	7	20	73	29	31	62	173	24	29	125	**993**
Farrington Hwy & Mokuola Street	9	33	4	4	2	7	25	9	11		27	20	44	56	27	20	15	35	5	13	56	20	20	38	111	13	15	75	**718**
Leeward Community College	2	2	0	0	0	0	2	0	4	7		5	9	4	2	0	0	2	0	2	2	0	0	2	7	0	2	2	**58**
Kamehameha Hwy & Kuala Street	44	136	9	18	15	18	98	42	156	96	135		289	358	182	104	56	196	33	82	344	93	118	242	433	80	85	456	**3,915**
Kamehameha Hwy & Kaonohi Street	7	29	2	5	4	5	29	7	27	18	53	13		198	60	69	51	71	20	29	116	36	58	51	65	31	25	136	**1,216**
Salt Lake Blvd. & Kahuapa'ani Street	7	24	0	4	2	4	22	7	36	42	35	51	144		127	120	44	155	24	40	205	33	42	76	78	27	27	87	**1,464**
Salt Lake Blvd. & Ala Inoi Place	4	11	0	2	0	2	11	2	9	11	16	16	42	73		36	33	69	13	25	104	31	45	40	42	20	15	67	**736**
N. King Street & Owen Street	2	9	0	0	0	2	7	2	7	5	13	13	25	85	24		13	16	9	11	42	15	35	36	45	18	16	45	**491**
N. King Street & Waiakamilo Street	0	2	0	0	0	0	4	0	2	2	5	4	9	24	9	5		5	5	9	29	9	16	20	20	9	11	24	**224**
N. King Street at Dillingham Blvd. & Liliha Street	2	5	0	0	0	0	5	0	5	4	7	4	13	51	13	7	11		4	5	7	9	27	36	53	24	25	44	**362**
Hotel Street & Kekaulike Street	0	2	0	0	0	0	2	0	2	2	4	2	7	22	5	11	11	2		0	2	2	5	9	7	4	4	5	**111**
Hotel Street & Nu'uanu Ave.	0	4	0	0	0	0	2	0	2	2	4	4	7	24	5	13	11	4	0		2	7	16	42	58	27	29	42	**302**
Hotel Street & Fort Street Mall	5	25	2	2	2	4	20	4	18	11	31	16	38	133	44	22	35	4	5	0		18	38	76	167	58	62	224	**1,064**
Honolulu Hale	0	4	0	0	0	0	2	0	2	2	2	2	5	13	4	5	4	5	2	2	4		4	15	25	9	11	11	**131**
Kawaiaha'o Street & Cooke Street	2	7	0	0	0	2	7	2	5	5	5	7	16	55	22	31	42	53	9	15	60	15		35	78	25	55	47	**595**
Ala Moana Center	2	7	2	0	0	0	5	2	7	4	5	7	16	44	15	16	18	20	7	18	67	16	22		4	7	18	13	**342**
Hawai'i Convention Center or Kapi'olani Blvd. & McCully Street	4	11	0	0	0	2	11	2	16	11	11	13	25	100	49	44	53	115	22	196	380	105	125	67		20	47	89	**1,518**
University Ave & Date Street	0	5	0	0	0	0	4	2	4	4	5	5	15	42	24	27	27	55	18	38	185	60	76	91	65		5	38	**800**
University Ave. & S. King Street	2	5	0	2	0	0	4	2	5	4	5	7	15	44	22	24	31	47	13	38	147	51	82	95	60	16		5	**722**
UH Mānoa	2	7	0	0	0	2	5	0	5	2	2	4	9	15	7	9	9	18	5	13	62	18	22	29	33	11	2		**296**
Total	**205**	**844**	**105**	**189**	**100**	**185**	**485**	**198**	**660**	**420**	**576**	**496**	**1,345**	**1,945**	**1,062**	**836**	**635**	**1,547**	**256**	**676**	**2,469**	**724**	**1,022**	**1,513**	**2,464**	**605**	**673**	**2,571**	

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Table 135. Fixed Guideway Combination 2 Station-to-Station Volumes – AM 2-Hour Peak Period

Origin	Destination: Kapolei Pkwy & Hanua Street	Kamokila Blvd. & Wākea Street	Farrington Hwy at UH West O'ahu	Farrington Hwy & North-South Road	South Road & Fort Weaver Road	Farrington Hwy & Leokū Street	Farrington Hwy & Mokuola Street	Leeward Community College	Kamehameha Hwy & Kuala Street	Kamehameha Hwy & Kaonohi Street	Aloha Stadium	Kamehameha Hwy & Radford Drive	Honolulu International Airport	Aolele Street & Lagoon Drive	Middle Street Transit Center	Dillingham Blvd. & Mokauea Street	Dillingham Blvd. & Kōkea Street	Ka'aahi Street	King Street & Bethel Street	King Street & Punchbowl Street	Waimanu Street & Cummins Street	Ala Moana Center	Kapi'olani Blvd. & McCully Street	University Ave & Date Street	University Ave. & S. King Street	UH Lower Campus	**Waikīkī Branch**	Convention Center from Kalākaua Ave.	Kūhiō Ave. & Kālaimoku Street	Kūhiō Ave. & Lili'uokalani Ave.	**Total**
Kapolei Pkwy & Hanua Street		104	7	69	29	91	49	53	78	136	40	151	98	96	58	51	53	98	220	167	56	164	11	51	53	304		35	91	162	**2,582**
Kamokila Blvd. & Wākea Street	0		0	9	11	38	29	31	44	95	24	62	35	45	33	22	29	71	93	69	25	40	5	29	25	165		18	62	69	**1,178**
Farrington Hwy at UH West O'ahu	22	287		45	45	91	33	29	51	107	25	89	45	55	38	33	33	56	129	113	25	122	4	33	29	184		24	73	144	**1,964**
Farrington Hwy & North-South Road	9	31	0		7	29	13	7	15	29	5	16	7	11	9	5	7	18	15	15	5	9	2	7	5	40		2	9	11	**342**
Farrington Hwy between North-South Road & Fort Weaver Road	11	16	0	7		13	29	38	47	98	22	65	33	42	31	22	31	64	91	65	24	42	4	31	25	167		16	58	64	**1,156**
Farrington Hwy & Leokū Street	7	35	0	20	9		11	22	35	47	13	42	22	27	22	13	20	36	76	45	15	49	5	22	20	89		16	67	71	**858**
Farrington Hwy & Mokuola Street	9	47	2	24	11	13		33	27	56	20	65	31	35	24	20	25	36	98	49	22	51	5	20	22	111		20	69	69	**1,016**
Leeward Community College	0	2	0	0	0	4	7		5	9	2	4	0	2	0	0	2	2	4	2	0	2	0	0	2	2		0	4	4	**58**
Kamehameha Hwy & Kuala Street	33	198	11	95	47	167	93	133		269	80	289	135	138	82	71	78	102	360	216	76	227	15	69	65	418		60	145	251	**3,925**
Kamehameha Hwy & Kaonohi Street	7	38	2	27	13	29	18	53	13		18	198	80	80	44	55	55	38	138	71	33	44	4	27	20	125		13	25	31	**1,298**
Aloha Stadium	5	25	4	15	7	31	35	29	42	89		113	56	60	62	67	53	53	162	95	20	75	2	22	13	56		9	9	33	**1,235**
Kamehameha Hwy & Radford Drive	2	9	2	4	4	13	11	9	16	31	5		24	18	18	22	20	25	64	29	13	15	2	9	7	31		7	15	7	**427**
Honolulu International Airport	2	7	0	2	2	7	5	5	7	9	4	13		4	4	13	16	15	49	20	13	18	2	5	5	20		5	7	9	**273**
Aolele Street & Lagoon Drive	0	5	0	2	2	4	4	5	5	13	2	20	13		4	16	20	20	62	27	15	18	2	7	5	22		5	9	9	**316**
Middle Street Transit Center	4	18	2	9	4	11	9	22	13	24	20	105	53	55		15	16	4	38	24	20	24	2	11	9	33		5	20	16	**584**
Dillingham Blvd. & Mokauea Street	0	4	0	4	2	4	2	5	2	13	7	40	16	24	7		5	11	56	31	16	25	2	9	7	22		5	11	9	**345**
Dillingham Blvd. & Kōkea Street	0	4	0	2	2	2	2	2	2	7	4	15	9	13	5	2		2	25	20	11	15	2	9	7	15		4	9	9	**195**
Ka'aahi Street	2	13	0	7	4	9	4	16	5	2	9	69	38	40	4	9	2		0	0	20	35	5	18	16	44		9	25	27	**438**
King Street & Bethel Street	2	13	0	4	4	7	4	9	5	15	7	47	24	33	20	31	9	0		5	29	58	7	27	33	47		15	35	44	**536**
King Street & Punchbowl Street	0	9	0	4	2	5	2	5	4	11	5	35	16	24	18	24	22	9	13		5	22	4	13	18	22		5	44	67	**407**
Waimanu Street & Cummins Street	2	4	0	2	2	4	2	4	2	7	5	22	11	15	13	20	29	16	55	13		15	7	11	24	29		5	24	36	**376**
Ala Moana Center	2	11	0	4	4	9	4	9	9	16	13	53	25	33	15	40	27	11	62	18	9		2	13	16	40		2	24	91	**556**
Hawai'i Convention Center or Kapi'olani Blvd. & McCully Street	0	2	0	0	0	0	0	2	2	5	2	9	5	7	5	9	11	13	82	25	20	22		2	13	35		0	0	0	**276**
University Ave & Date Street	0	4	0	2	2	4	2	5	5	11	4	33	13	16	16	24	35	31	149	53	38	78	5		2	18		0	0	0	**547**
University Ave. & S. King Street	0	11	0	4	2	7	4	7	7	15	11	38	24	29	18	31	36	36	169	53	62	89	18	11		0		0	0	0	**684**
UH Lower Campus	2	9	0	2	4	5	2	2	4	7	2	9	4	5	5	9	9	11	60	20	15	31	7	4	0			0	0	0	**229**
Waikīkī Branch																															
Convention Center from Kalākaua Ave.	2	4	0	2	2	4	5	4	4	7	7	22	13	15	11	18	27	18	145	36	13	15	0	0	0	0			13	31	**413**
Kūhiō Ave. & Kālaimoku Street	2	7	0	2	2	9	4	2	4	7	13	27	16	15	9	18	18	31	155	56	31	55	0	0	0	0		4		2	**489**
Kūhiō Ave. & Lili'uokalani Ave.	0	5	0	2	2	5	4	4	4	9	20	25	11	11	9	20	29	33	213	84	36	138	0	0	0	0		15	0		**685**
Total	**125**	**925**	**33**	**367**	**225**	**615**	**384**	**544**	**458**	**1,144**	**385**	**1,678**	**858**	**947**	**585**	**680**	**718**	**862**	**2,784**	**1,416**	**667**	**1,500**	**122**	**456**	**444**	**2,042**		**302**	**849**	**1,269**	

Table 136. Fixed Guideway Combination 3 Station-to-Station Volumes – AM 2-Hour Peak Period

Origin	Destination: Kapolei Pkwy & Hanua Street	Kapolei Pkwy & Wākea Street	Saratoga Ave. & Wākea Street	Saratoga Ave. & Fort Barrette Road	Kapolei Pkwy & North-South Road	North-South Road between Kapolei Pkwy & Farrington Hwy	Farrington Hwy & North-South Road	Farrington Hwy between North-South Road & Fort Weaver Road	Farrington Hwy & Leokū Street	Farrington Hwy & Mokuola Street	Leeward Community College	Kamehameha Hwy & Kuala Street	Kamehameha Hwy & Kaonohi Street	Aloha Stadium	Kamehameha Hwy & Radford Drive	Honolulu International Airport	Aolele Street & Lagoon Drive	Middle Street Transit Center	Dillingham Blvd. & Mokauea Street	Dillingham Blvd. & Kōkea Street	Ka'aahi Street	Nimitz Hwy & Kekaulike Streets	Nimitz Hwy & Fort Street Mall	Halekauwila Street & South Street	Halekauwila Street & Ward Ave.	Ala Moana Center	Kapi'olani Blvd. & McCully Street	University Ave & Date Street	University Ave. & S. King Street	UH Mānoa	**Total**
Kapolei Pkwy & Hanua Street		104	20	38	20	31	40	15	80	47	51	71	129	36	142	122	62	60	44	51	118	36	155	135	60	353	53	55	56	320	**2,504**
Kapolei Pkwy & Wākea Street	0		25	11	5	7	5	2	22	13	11	18	40	9	22	13	11	15	7	11	24	5	25	16	7	33	13	11	13	62	**455**
Saratoga Ave. & Wākea Street	5	15		4	2	4	7	2	5	2	4	4	5	2	4	4	2	2	2	4	4	2	7	4	2	13	4	2	2	16	**131**
Saratoga Ave. & Fort Barrette Road	0	2	0		0	0	0	0	0	0	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	2	**16**
Kapolei Pkwy & North-South Road	44	225	0	31		71	89	29	91	31	35	49	96	25	91	58	45	42	33	33	98	22	93	111	38	349	27	38	38	222	**2,155**
North-South Road between Kapolei Pkwy & Farrington Hwy	20	33	18	16	0		2	2	7	11	22	24	45	13	31	24	13	16	9	16	31	5	35	25	9	49	16	15	9	75	**595**
Farrington Hwy & North-South Road	18	45	9	33	42	35		35	105	51	40	64	140	33	100	65	51	53	36	40	109	20	102	96	36	287	44	42	44	235	**2,015**
Farrington Hwy between North-South Road & Fort Weaver Road	2	2	2	2	2	2	2		16	20	16	27	53	13	29	18	13	18	9	15	33	5	29	20	9	40	15	15	13	75	**513**
Farrington Hwy & Leokū Street	9	11	4	5	2	7	15	11		9	29	47	67	15	62	42	27	31	20	31	51	18	93	55	25	187	64	31	29	151	**1,145**
Farrington Hwy & Mokuola Street	9	33	4	5	2	7	22	9	13		29	18	40	16	47	33	13	16	15	16	20	13	58	25	13	109	38	15	15	71	**725**
Leeward Community College	2	2	0	0	0	0	0	0	4	7		5	9	2	4	2	0	2	0	0	2	0	2	2	0	5	4	0	0	2	**58**
Kamehameha Hwy & Kuala Street	42	135	11	18	15	22	87	38	158	96	135		264	78	291	182	93	93	73	80	140	58	253	189	82	558	85	82	80	451	**3,889**
Kamehameha Hwy & Kaonohi Street	9	31	2	5	2	5	25	7	27	18	53	13		20	187	111	44	51	56	53	33	31	109	60	35	80	25	31	20	135	**1,275**
Aloha Stadium	7	18	0	2	2	4	15	7	33	36	29	40	91		113	93	55	64	69	53	109	22	89	82	31	107	7	20	16	65	**1,280**
Kamehameha Hwy & Radford Drive	2	7	0	0	0	2	5	4	13	11	9	16	31	5		29	7	18	20	20	22	13	53	22	13	29	15	9	7	35	**415**
Honolulu International Airport	2	9	0	0	0	2	4	2	9	5	5	7	13	5	11		2	4	13	16	11	13	38	18	11	35	7	7	7	22	**278**
Aolele Street & Lagoon Drive	0	4	0	0	0	0	2	0	2	2	5	5	11	0	9	11		4	16	20	18	13	47	24	15	31	11	9	7	25	**289**
Middle Street Transit Center	4	11	0	2	0	2	9	4	11	7	22	15	22	22	98	51	51		16	15	2	9	20	22	20	40	18	13	15	35	**556**
Dillingham Blvd. & Mokauea Street	0	4	0	0	0	0	4	0	4	4	5	4	13	7	38	16	24	7		5	9	11	35	24	16	38	9	11	7	24	**320**
Dillingham Blvd. & Kōkea Street	0	2	0	0	0	0	2	0	2	2	2	2	5	4	13	7	13	4	2		2	4	9	13	11	20	5	7	7	13	**155**
Ka'aahi Street	2	11	0	2	0	2	7	2	9	5	16	7	7	11	85	40	44	5	18	7		4	7	15	25	73	36	24	27	51	**547**
Nimitz Hwy & Kekaulike Streets	2	4	0	0	0	0	2	0	2	4	7	4	7	4	38	18	24	11	18	7	0		2	5	16	69	22	22	27	40	**355**
Nimitz Hwy & Fort Street Mall	0	7	0	0	0	0	4	2	7	2	4	4	7	4	16	9	13	4	9	4	2	2		2	5	24	15	15	18	29	**205**
Halekauwila Street & South Street	0	5	0	0	0	0	4	0	5	4	5	4	11	7	40	18	27	20	25	25	18	9	13		4	55	22	15	27	18	**385**
Halekauwila Street & Ward Ave.	2	5	0	0	0	0	4	2	4	4	5	4	11	5	29	15	20	16	24	18	31	15	25	7		36	25	25	36	42	**409**
Ala Moana Center	4	15	2	0	0	2	7	2	16	7	7	11	24	33	78	33	40	27	42	44	65	47	69	40	13		4	9	18	16	**678**
Kapi'olani Blvd. & McCully Street	2	4	0	0	0	0	4	2	5	7	5	5	11	11	36	25	25	22	29	27	53	47	236	69	47	38		7	29	60	**815**
University Ave & Date Street	2	4	0	0	0	2	2	2	4	4	5	5	11	7	35	15	20	18	24	24	45	29	124	53	51	100	24		4	22	**633**
University Ave. & S. King Street	2	7	0	2	0	0	5	2	7	5	7	11	16	7	47	25	29	25	29	31	51	33	151	58	75	133	29	16		5	**807**
UH Mānoa	2	9	0	0	0	2	4	2	7	2	2	4	9	4	15	5	9	7	13	9	15	9	45	15	18	31	15	7	2		**256**
Total	**187**	**762**	**102**	**184**	**98**	**209**	**378**	**184**	**669**	**415**	**562**	**485**	**1,191**	**391**	**1,716**	**1,087**	**778**	**656**	**673**	**678**	**1,115**	**495**	**1,924**	**1,207**	**689**	**2,925**	**653**	**549**	**575**	**2,320**	

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Table 137. Fixed Guideway 20-mile Alignment Station-to-Station Volumes – AM 2-Hour Peak Period

Origin	UH, West O'ahu Campus Wai'anae of North-South Road between Kapolei Parkway and Farrington Hwy	North-South Road & Makai of Farrington Hwy	Between North-South Road & Fort Weaver Road	Farrington Hwy & Leokū Street	Farrington Hwy & Mokuola Street	Leeward Community College	Kamehameha Hwy & Kuala Street	Kamehameha Hwy & Kaonohi Street	Aloha Stadium	Kamehameha Hwy & Radford Drive	Honolulu International Airport	Aolele Street & Lagoon Drive	Middle Street Transit Center	Dillingham Blvd. & Mokauea Street	Dillingham Blvd. & Kōkea Street	Ka'aahi Street	Nimitz Hwy & Kekaulike Streets	Nimitz Hwy & Fort Street Mall	Halekauwila Street & South Street	Halekauwila Street & Ward Ave.	Ala Moana Center	**Total**
UH, West O'ahu Campus Wai'anae of North-South Road between Kapolei Parkway and Farrington Highway		231	49	149	48	45	72	146	37	117	91	34	63	39	46	135	22	113	322	43	541	**2,344**
North-South Road & Makai of Farrington Hwy	12		12	51	30	67	89	169	45	169	143	64	81	53	72	124	46	216	465	90	581	**2,579**
Between North-South Road & Fort Weaver Road	32	76		46	30	46	54	104	29	76	56	32	42	25	39	71	20	99	245	39	302	**1,464**
Farrington Hwy & Leokū Street	6	34	4		3	33	48	71	19	66	43	27	35	22	31	53	21	97	180	33	343	**1,170**
Farrington Hwy & Mokuola Street	3	11	3	4		30	23	41	14	49	33	14	17	17	16	23	12	63	87	16	188	**665**
Leeward Community College	1	2	0	3	8		6	9	1	3	2	0	1	1	1	0	0	3	3	1	11	**58**
Kamehameha Hwy & Kuala Street	30	179	22	209	137	135		287	79	287	202	58	107	67	85	150	61	248	505	91	792	**3,732**
Kamehameha Hwy & Kaonohi Street	10	47	5	45	23	53	13		20	186	103	39	53	54	56	29	31	109	149	37	155	**1,216**
Aloha Stadium	5	27	5	34	44	29	41	90		112	95	33	71	67	52	112	23	90	119	26	155	**1,231**
Kamehameha Hwy & Radford Drive	3	10	3	17	14	9	14	30	4		30	6	21	19	20	20	13	51	44	15	62	**402**
Honolulu International Airport	2	7	3	14	8	5	7	12	4	13		3	5	13	15	10	12	39	31	13	53	**268**
Aolele Street & Lagoon Drive	0	1	0	2	1	0	1	2	0	2	2		4	3	3	5	3	5	5	2	16	**57**
Middle Street Transit Center	5	19	3	24	13	28	18	35	25	114	66	75		36	33	7	22	64	65	36	99	**786**
Dillingham Blvd. & Mokauea Street	1	5	1	5	3	5	3	11	7	37	14	22	11		6	14	13	33	31	18	54	**292**
Dillingham Blvd. & Kōkea Street	1	3	1	4	1	3	1	6	2	14	8	9	5	1		2	3	10	15	10	29	**128**
Ka'aahi Street	3	20	4	24	9	22	12	9	15	100	55	51	7	34	12		3	7	20	23	71	**501**
Nimitz Hwy & Kekaulike Streets	1	5	1	5	3	7	4	7	4	32	17	23	11	15	7	1		2	7	15	75	**240**
Nimitz Hwy & Fort Street Mall	2	5	2	12	4	4	2	8	3	15	9	11	5	10	6	1	1		3	5	29	**136**
Halekauwila Street & South Street	3	12	4	17	6	7	6	14	9	50	22	27	24	34	31	29	8	9		6	91	**409**
Halekauwila Street & Ward Ave.	1	4	1	6	3	4	3	9	4	22	12	13	20	18	16	29	15	26	11		64	**281**
Ala Moana Center	7	27	8	43	24	21	19	46	43	157	79	74	34	80	55	33	35	79	86	56		**1,006**
Total	**126**	**723**	**132**	**713**	**410**	**553**	**437**	**1,109**	**367**	**1,620**	**1,082**	**616**	**615**	**609**	**602**	**846**	**365**	**1,363**	**2,392**	**575**	**3,711**	**18,965**

6 Chapter 6 Preliminary Assessment of Transit User Benefits Results

Transit-user benefits generally represent the amount of travel-time savings a transit user will experience with a given transit alternative in comparison to a baseline alternative. This chapter assesses the transit user benefits results. It describes the analysis distinctions, system, and district level summaries of user benefits.

Analysis Distinctions

There are two highlights of the analysis that are described here. The first is the distinction between the TSM Alternative as it is presented in this analysis and the second is a discussion about fixed guideway non-included attributes.

TSM versus Baseline

For the transit user benefit analysis, build alternatives were compared against both the TSM Alternative and the No Build Alternative. The TSM Alternative used in this Alternatives Analysis was not intended to serve as the official FTA Baseline Alternative, and has not been sanctioned by FTA as the official Baseline Alternative. However the TSM Alternative is the closest alternative analyzed that might be considered a baseline alternative from the FTA New Starts criteria perspective, hence using it as a comparison base in addition to the No Build Alternative provides added insight into the performance of the different alternatives.

Representation of Fixed Guideway Non-Included Attributes

Through research and industry applications, it has been identified that there are additional benefits of a fixed guideway system that are not evidenced in other transit modes. Research has indicated that there are positive attributes, both perceived and real, that are associated with use of a fixed guideway system and make the system relatively more attractive than general bus transit. These benefits include such things as improved safety, security, visibility, hours of operation, comfort and reliability and are not captured by the standard travel demand forecasting process; hence they have been termed "non-included" attributes. To account for these attributes in this analysis, an additional factor equivalent to a 12-minute savings[1] of "in-vehicle time" (IVT) has been incorporated in the fixed guideway benefit calculations to account for this benefit.

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[1] This factor is based on several regions where existing Light Rail Transit (LRT) or fixed guideway service has been a part of the transit system and where these systems have been recently surveyed. This survey data, when used to calibrate the local region's models, have generally indicated that the LRT mode-specific constant is equivalent to about 12 minutes of IVT. The 12 minute equivalent of IVT value for LRT mode-specific constant has evolved to become a generally accepted value for mode choice modeling where LRT is a separate mode.

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System Level Summary of Transit User Benefits

The system level summary of user benefits is captured in three ways. First, calculations are applied to quantify the user benefits for the build alternatives compared to both the No Build Alternative and the TSM Alternative. Second, thematic maps are used to graphically illustrate the travel-time benefits or disbenefits of each alternative for every Transportation Analysis Zone (TAZ) islandwide. Finally, a district-to-district summary is presented to show the travel-time benefits or disbenefits for the 25 transportation districts islandwide.

Table 138 and Table 139 present the quantitative summary features of each of the alternatives. Table 138 provides data comparing the build alternatives to the No Build Alternative, and Table 139 provides data comparing the build alternatives to the TSM Alternative. In both instances, the Fixed Guideway Alternative options provide a much greater benefit to transit users than the Managed Lane Alternative options.

Table 138. Summary of Transit User Benefits by Alternative Compared to the No-Build Alternative

Alternative	User Benefits Per Existing Rider	User Benefits Per New Rider	Annual Hours of Capped[1] Benefits
Alternative 3: 2030 Managed Lane			
Two-direction Option	3.8	20.7	5,139,124
Reversible Option	3.8	21.7	5,289,099
Alternative 4: 2030 Fixed Guideway			
Kalaeloa - Salt Lake - North King - Hotel	17.5	25.8	18,770,167
Kamokila - Airport - Dillingham - King with a Waikīkī Branch	15.9	24.8	16,963,875
Kalaeloa - Airport - Dillingham - Halekauwila	17.3	25.7	18,573,904
20-mile Alignment East Kapolei to Ala Moana Center	14.0	25.4	15,153,590

[1]Travel time benefits per transit trip are capped at a maximum level as specified by FTA.

Table 139. Summary of Transit User Benefits by Alternative Compared to the TSM Alternative

Alternative	User Benefits Per Existing Rider	User Benefits Per New Rider	Annual Hours of Capped [1] Benefits
Alternative 3: 2030 Managed Lane			
Two-direction Option	0.8	11.5	983,203
Reversible Option	1.0	13.5	1,168,229
Alternative 4: 2030 Fixed Guideway			
Kalaeloa - Salt Lake - North King - Hotel	16.8	23.5	15,633,346
Kamokila - Airport - Dillingham - King with a Waikīkī Branch	15.0	22.1	13,723,263
Kalaeloa - Airport - Dillingham - Halekauwila	16.8	23.1	15,504,458
20-mile Alignment East Kapolei to Ala Moana Center	13.5	23.2	11,638,458

[1]Travel time benefits per transit trip are capped at a maximum level as specified by FTA.

Transit User Benefits Thematic Maps

Figure 9 to Figure 32 present the transit-user benefits for each of the Build Alternatives compared to both the No Build Alternative and the TSM Alternative. The maps show the island broken into 762 TAZs, which were evaluated for the benefits that were assessed for each TAZ as an origin and destination. The main factor in determining the benefits to TAZs is transit trip travel time. The actual user benefits measure is presented in minutes, but it is a summary measure that incorporates travel time changes for all modes. Areas that experience an improvement in transit trip travel time (that is a decrease in estimated travel time) as a result of the alternative considered are shown in green. Two shades of green are presented to illustrate moderate benefits (in light green) and major benefits (in dark green). Areas that experience a disbenefit in travel time are shaded orange for moderate disbenefits and red for major disbenefits. Areas that are shaded white do not experience either a benefit or disbenefit as a result of the alternative evaluated. Two separate maps are generated for each alternative pair comparison: one map with the TAZs as origins (from), and one map with the TAZs as destinations (to).

When considering the maps, it is important to recognize the variance in range for major benefits and major disbenefits. The major disbenefits and major benefits have differing minimum and maximum outside values. The range of values for light green, white, and orange remain constant, but the outside minimum for red and green vary depending on the benefit changes of the alternative. This provides additional insight while interpreting the maps and can illustrate a higher degree of major benefit or disbenefit depending on the range. For example, the range of dark green for Figure 17 is from 1,000 – 79,706 minutes, whereas the range of dark green for Figure 12 is from 1,000 – 9,927 minutes. Based simply on the range of positive benefit, it is clear that the positive benefit seen in Figure 17 is much greater than that seen in Figure 12.

In general, the Managed Lane Alternative options show fewer benefits and more disbenefits than the Fixed Guideway Alternative options. The Managed Lane Alternative options show disbenefits to origins and destinations within the corridor of this study. Specifically, disbenefits are seen in Kalaeloa and Pearl City, and much of the Primary Urban Center does not have any change. There are also consistent disbenefits outside the corridor in Wai‘anae and on the Windward side. Also, there are no changes for East Honolulu travel times. The disbenefits that are seen within and outside of the corridor most likely stem from choke points to access the managed lane facility and upon exiting the managed lane facility.

For all of the Fixed Guideway Alternative combinations, there is only slight variation in the positive user benefits compared to both the No Build and TSM Alternatives. The vast majority of TAZs islandwide experience some benefit from each of the fixed guideway combinations. There are two notable exceptions to the islandwide positive benefits of the Fixed Guideway Alternative. Specifically, Koa Ridge in Central O‘ahu and two TAZs mauka of Kailua (near Maunawili) consistently experience disbenefit for the Fixed Guideway Alternative.

In the case of Koa Ridge, the disbenefit stems from a change in bus routing. The No Build and TSM Alternatives have community circulator buses operating in both directions throughout the day. For the Fixed Guideway Alternative, the community circulator buses only operate in the

peak-period direction of traffic. This decrease in overall bus service creates a disbenefit for users in the Koa Ridge TAZ. The service plan for this area could be changed so that these transit customers do not experience a disbenefit. However, a more detailed consideration reveals that Koa Ridge is planned primarily as a residential area and it is unlikely that there would be a high demand for transit users to access this area in an off-peak direction of traffic.

Disbenefits in the Maunawili area also stem from a change in bus routing. For the No Build and Managed Lane Alternatives, the community circulator buses run throughout the small neighborhoods in that area. For the Fixed Guideway Alternative, the buses do not run as comprehensively through those areas. If there is a demand for more buses in this area, the plan for this would also be changed to accommodate those transit users.

Also of note is the consistent positive user benefit of the Fixed Guideway Alternative options to access major employment centers within the corridor. The maps that show "to" TAZs illustrate a positive benefit of varying degrees for areas in Downtown, Waikīkī , Ala Moana, Honolulu International Airport, and Pearl Harbor. This is an indication that each of the Fixed Guideway Alternative options would improve access to places people want to go.

Among the Fixed Guideway Alternative options, there is not a clear best or least effective option. The benefits and disbenefits are relatively consistent and are more closely aligned with each TAZ as an origin or destination, as discussed previously. Even the 20-mile Alignment provides very similar benefits, despite being eight miles shorter than the other fixed guideway alignments.

Transportation Analysis Area Level Summaries and Analysis

At the larger Transportation Analysis Area (TAA) level summary it is easier to see the benefits of the transit system in light of a larger geographical area. The transit-user benefits presented in Table 141 through Table 152 illustrate the user benefits calculated for TAA to TAA home-based work trips (see Figure 4 for locations of the 25 TAAs on the island). Although these data only represent one trip purpose, it is a significant one and is a good indicator of how the general performance of each alternative would affect the transportation system. It also provides a reasonable indicator of peak-period trips, since home-based work trips represent the majority of peak-period travel. Side-by-side comparisons of these data are available in Appendix B to compare the performance of each alternative against another for a specific TAA pairings. One set of data presented in the appendix are relative to the No Build Alternative and the second set of data are relative to the TSM Alternative.

Overall, it is clear that the Managed Lane Alternative options both provide significantly less user benefit than the Fixed Guideway Alternative options. Among the Fixed Guideway options, Combinations 1 and 3 provide the best user benefits with more than 1.5 million and 1.3 million minutes of user benefit islandwide against the No Build and TSM Alternatives. The 20-mile Alignment also shows significant improvement over the No Build and TSM Alternatives and provides far more user benefits than either of the Managed Lane Alternative options.

Table 140: Summary of Daily Transit-User Benefits for Home-based Work Trips by Alternative

Alternative	Daily Minutes of Transit-User Benefit vs. No Build	Daily Minutes of Transit-User Benefit vs. TSM
Alternative 3: 2030 Managed Lane		
Two-direction Option	439,860	167,371
Reversible Option	449,642	180,774
Alternative 4: 2030 Fixed Guideway		
Combination 1 Kalaeloa – Salt Lake - North King - Hotel	1,535,902	1,347,259
Combination 2 Kamokila - Airport - Dillingham - King with a Waikīkī Branch	1,409,475	1,208,439
Combination 3 Kalaeloa - Airport - Dillingham - Halekauwila	1,529,717	1,346,017
20-mile Alignment East Kapolei to Ala Moana Center	1,245,861	1,025,359

The best Managed Lane Alternative only provides 449,600 and 180,700 user benefit minutes compared to the No Build and TSM Alternatives. The Fixed Guideway Alternative options, each with more than a million daily hours of transit-user benefit, clearly provide much higher user benefits than the Managed Lane Alternative options.

Areas receiving consistent benefits for the Fixed Guideway Alternative options are within the corridor. As origins of trips, the greatest benefits are seen for ‘Aiea, Pearl City, Waipahu, Kapolei, and ‘‘Ewa. Since these areas are the most densely populated and are heavily residential, this is a good indication that the Fixed Guideway options provide good service from these areas. As trip destinations, the Downtown, Waikīkī, Hickam Air Force Base, Pearl Harbor, and Moanalua-Hālawa areas have the greatest user benefits. Therefore, it is apparent that the Fixed Guideway Alternative in particular would provide substantial user benefits where the benefits are needed.

Figure 9. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Managed Lane Alternative Two-direction Option vs. No Build Alternative

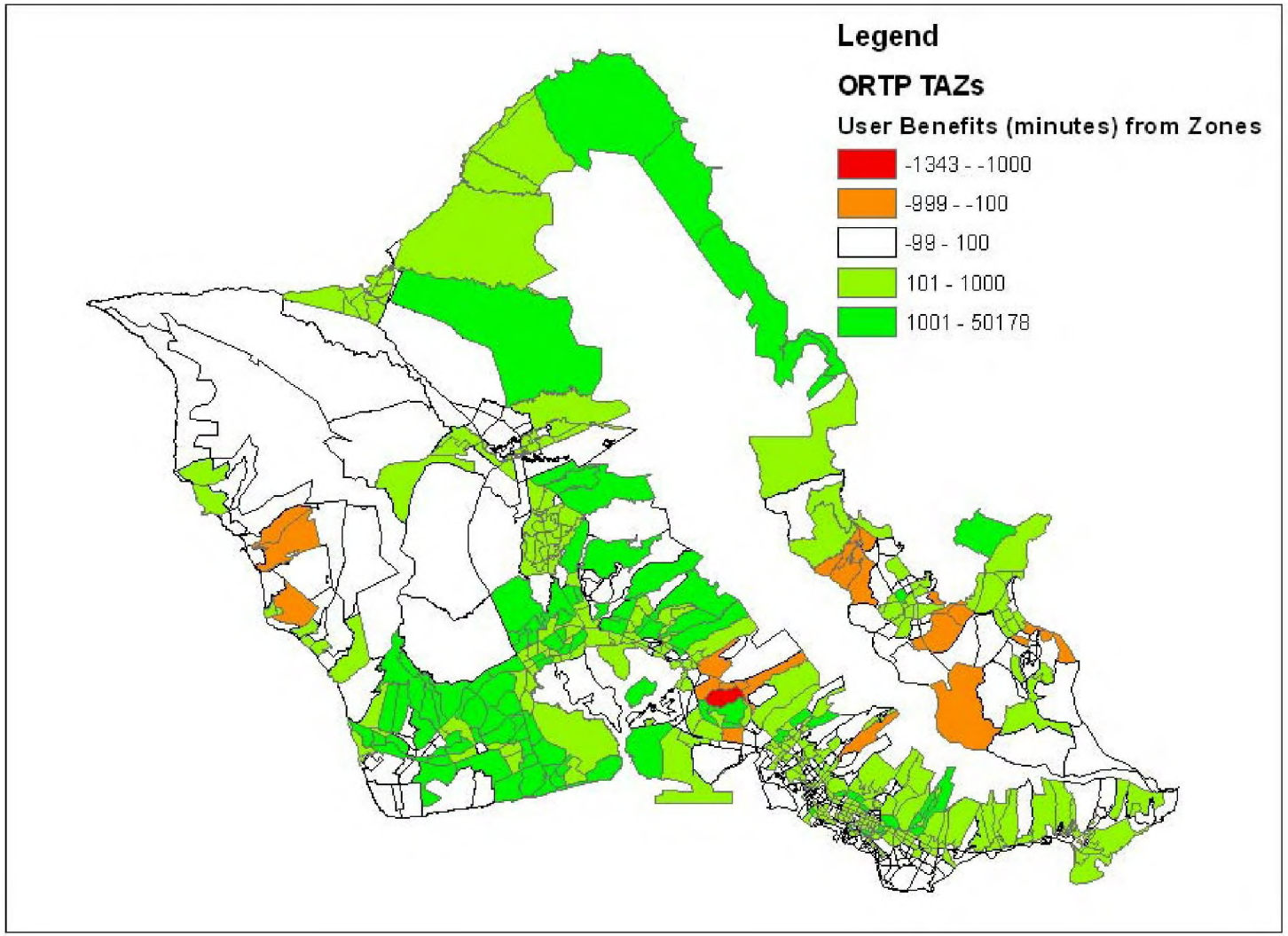

Figure 10. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Managed Lane Alternative Two-direction Option vs. No Build Alternative

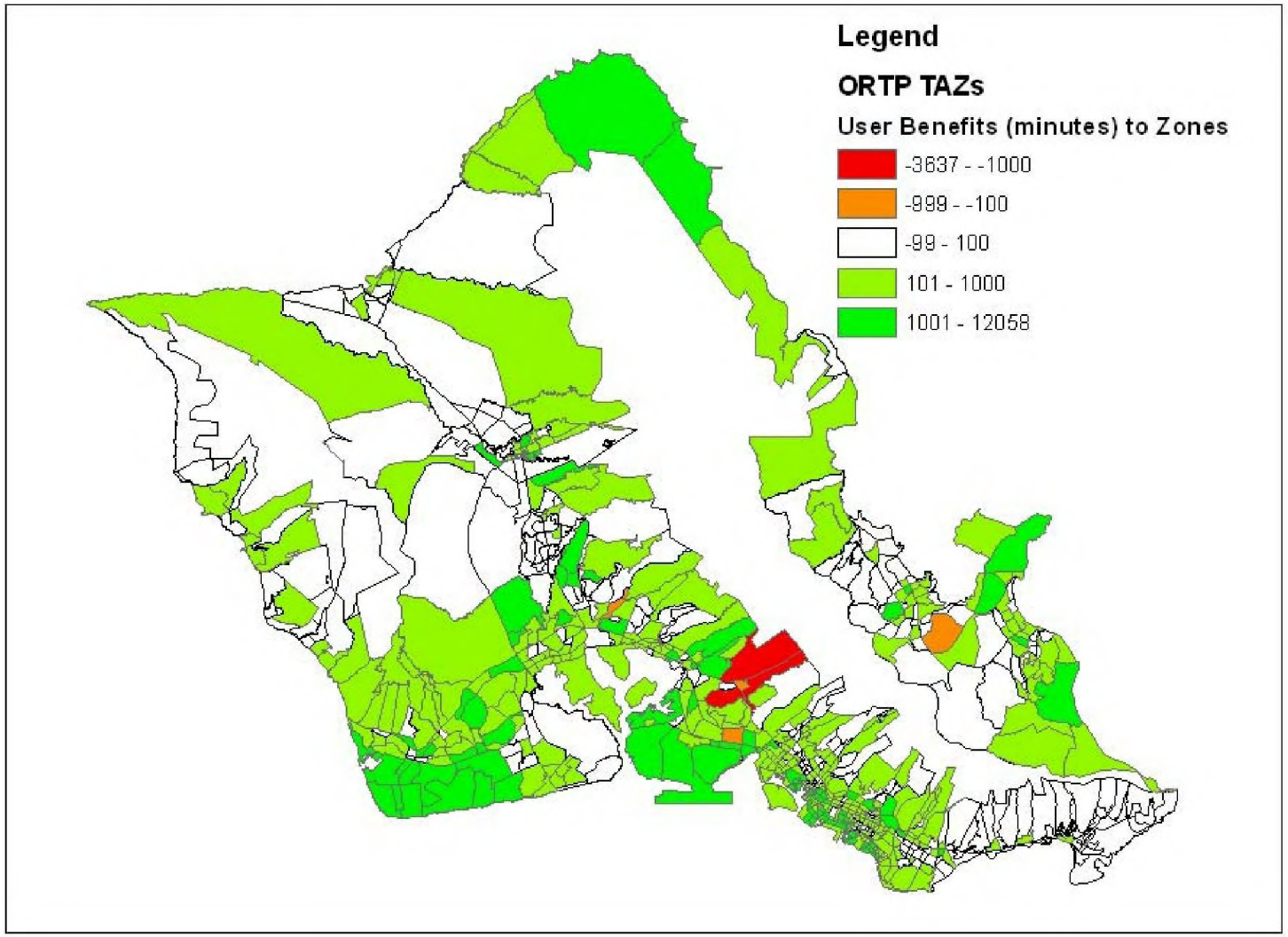

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Figure 11. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Managed Lane Alternative Two-direction Option vs. TSM Alternative

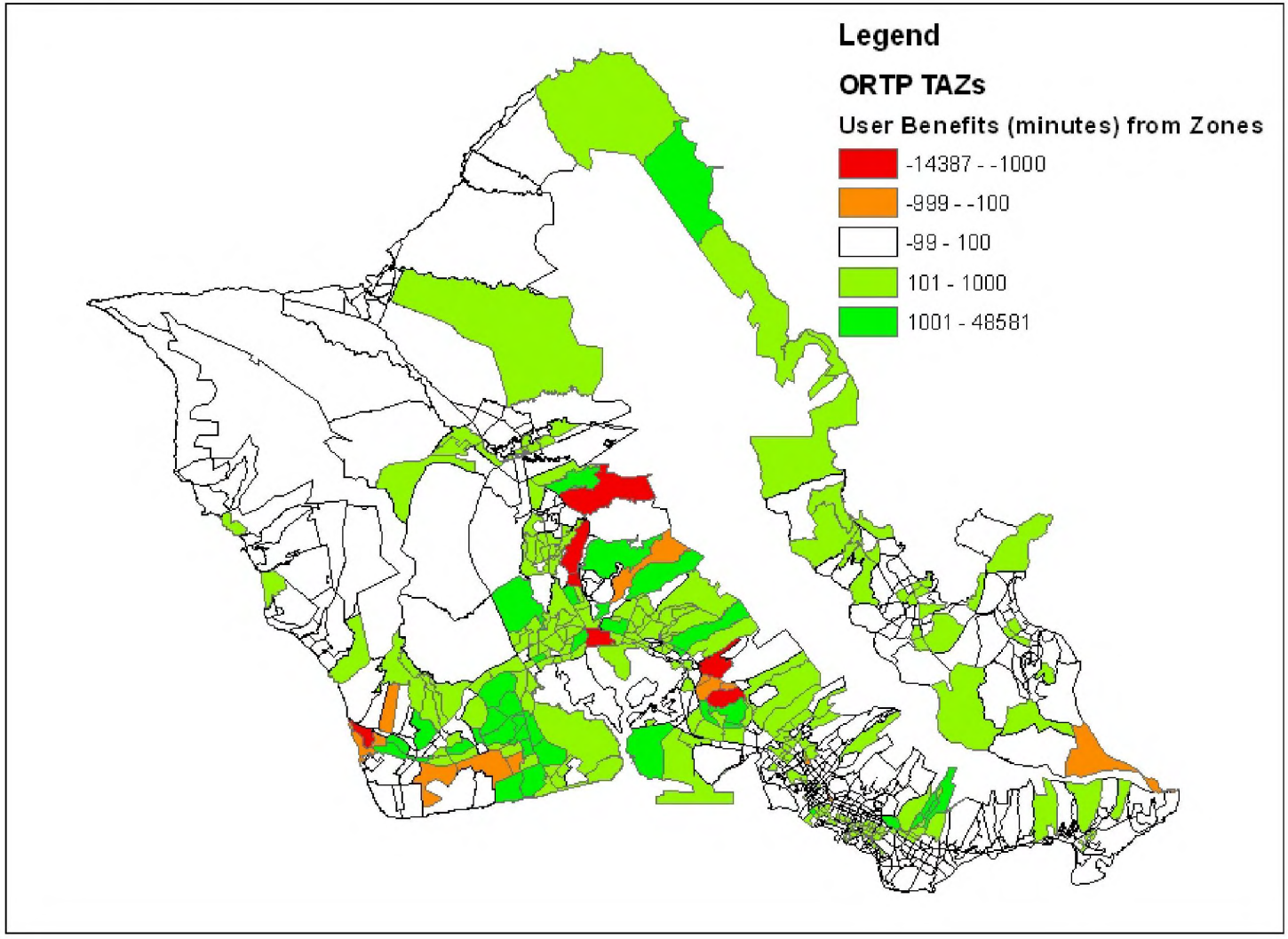

Figure 12. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Managed Lane Alternative Two-direction Option vs. TSM Alternative

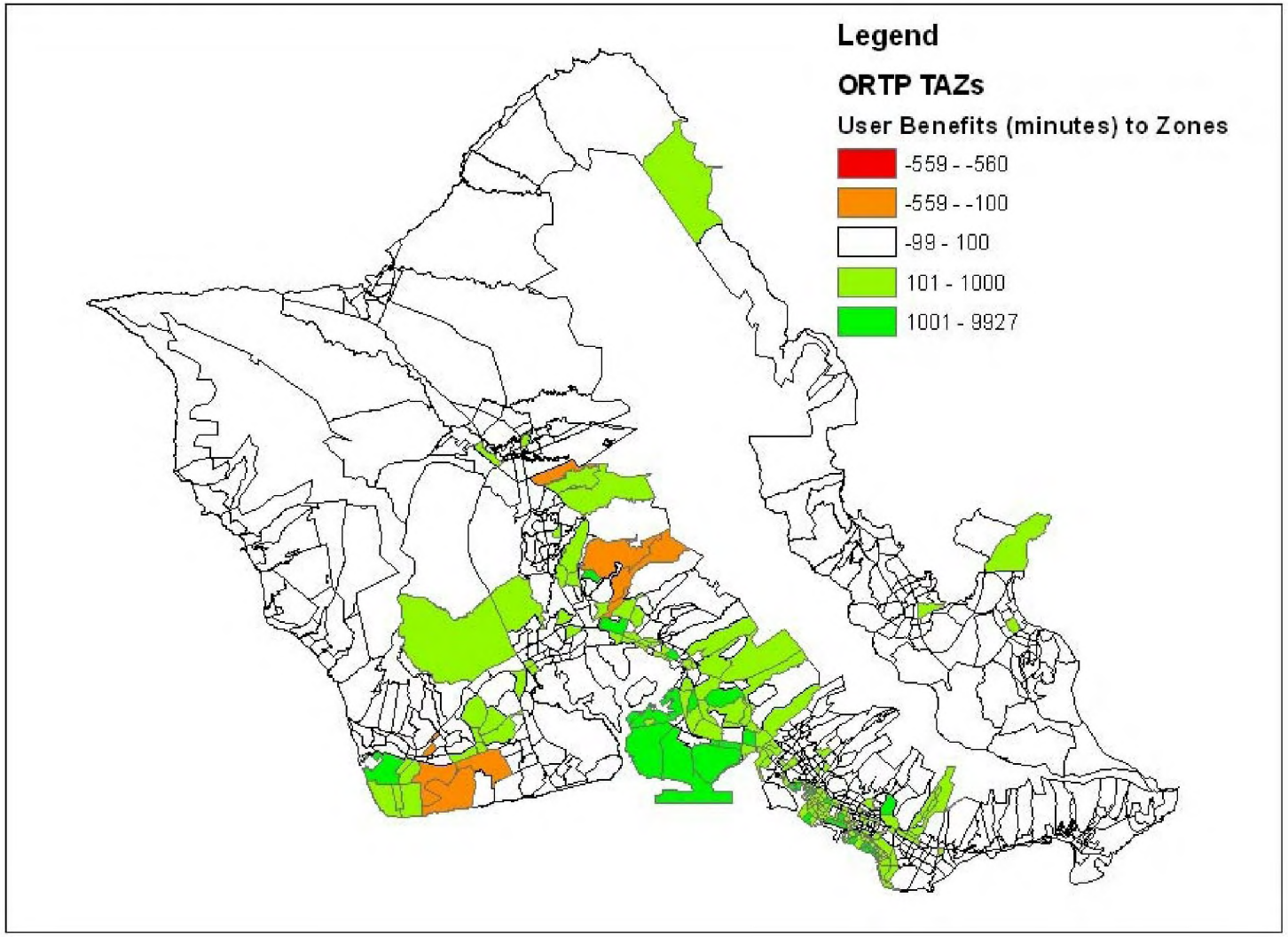

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Figure 13. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Managed Lane Alternative Reversible Option vs. No Build Alternative

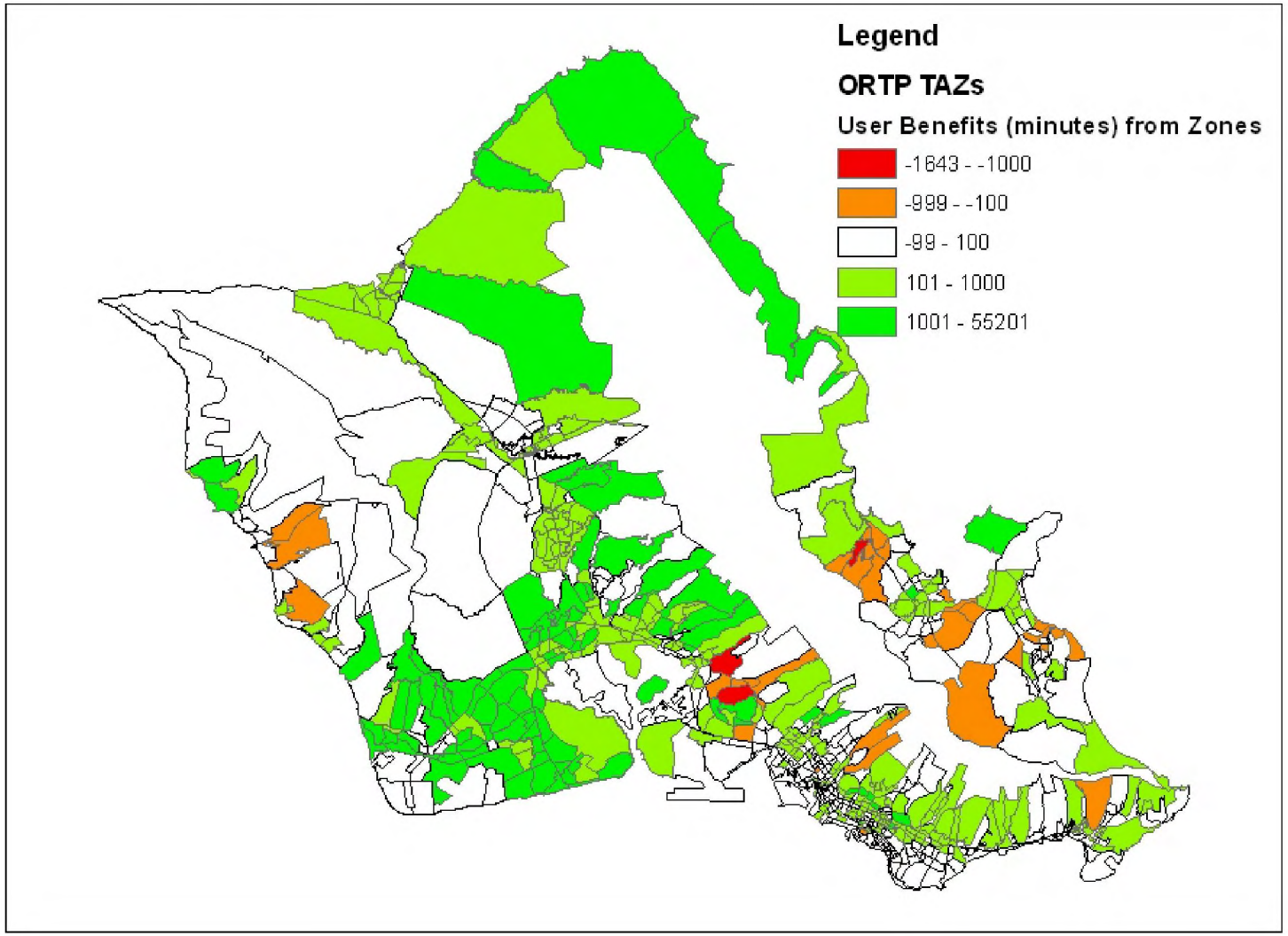

Figure 14. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Managed Lane Alternative Reversible Option vs. No Build Alternative

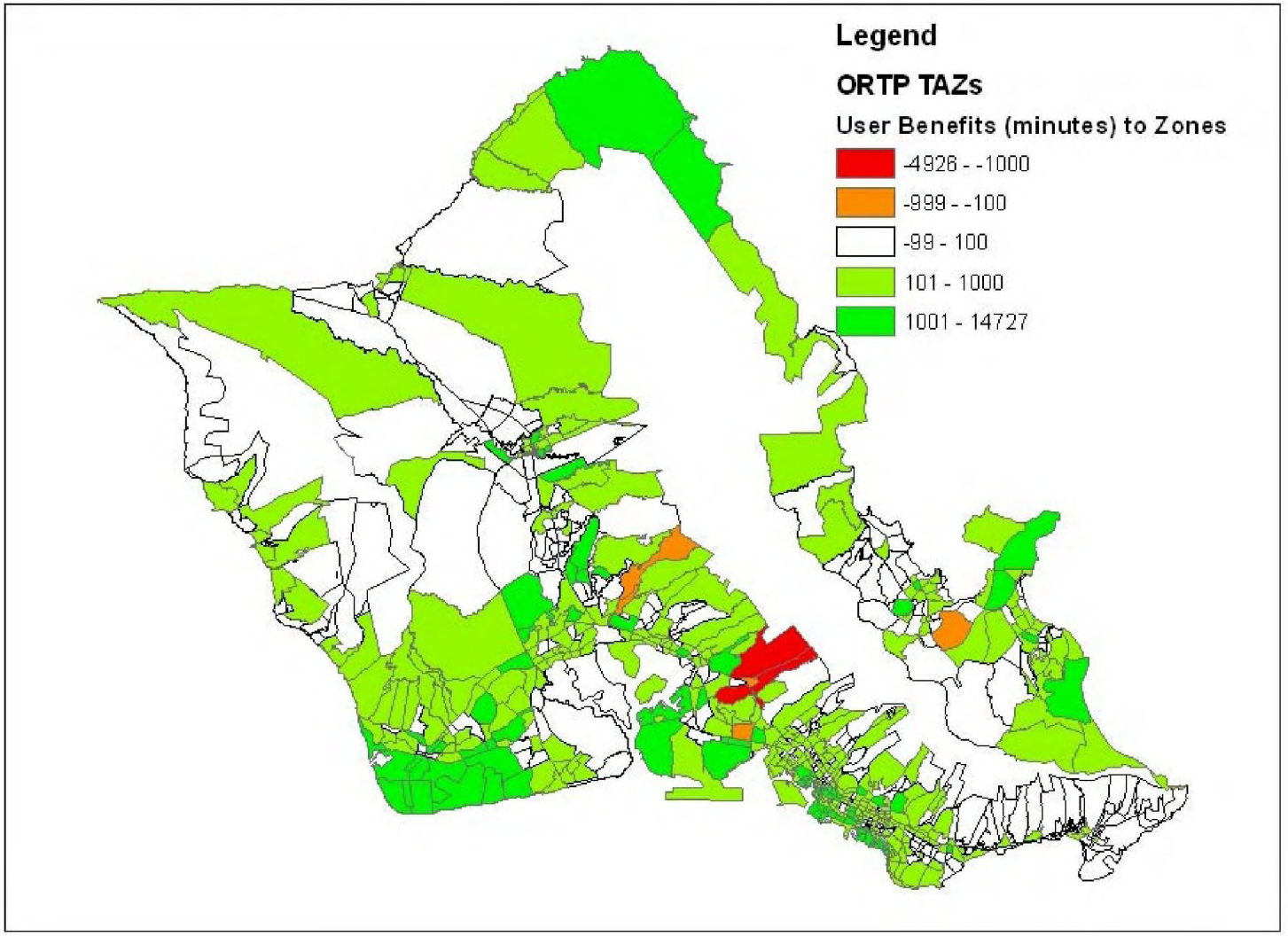

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Figure 15. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Managed Lane Alternative Reversible Option vs. TSM Alternative

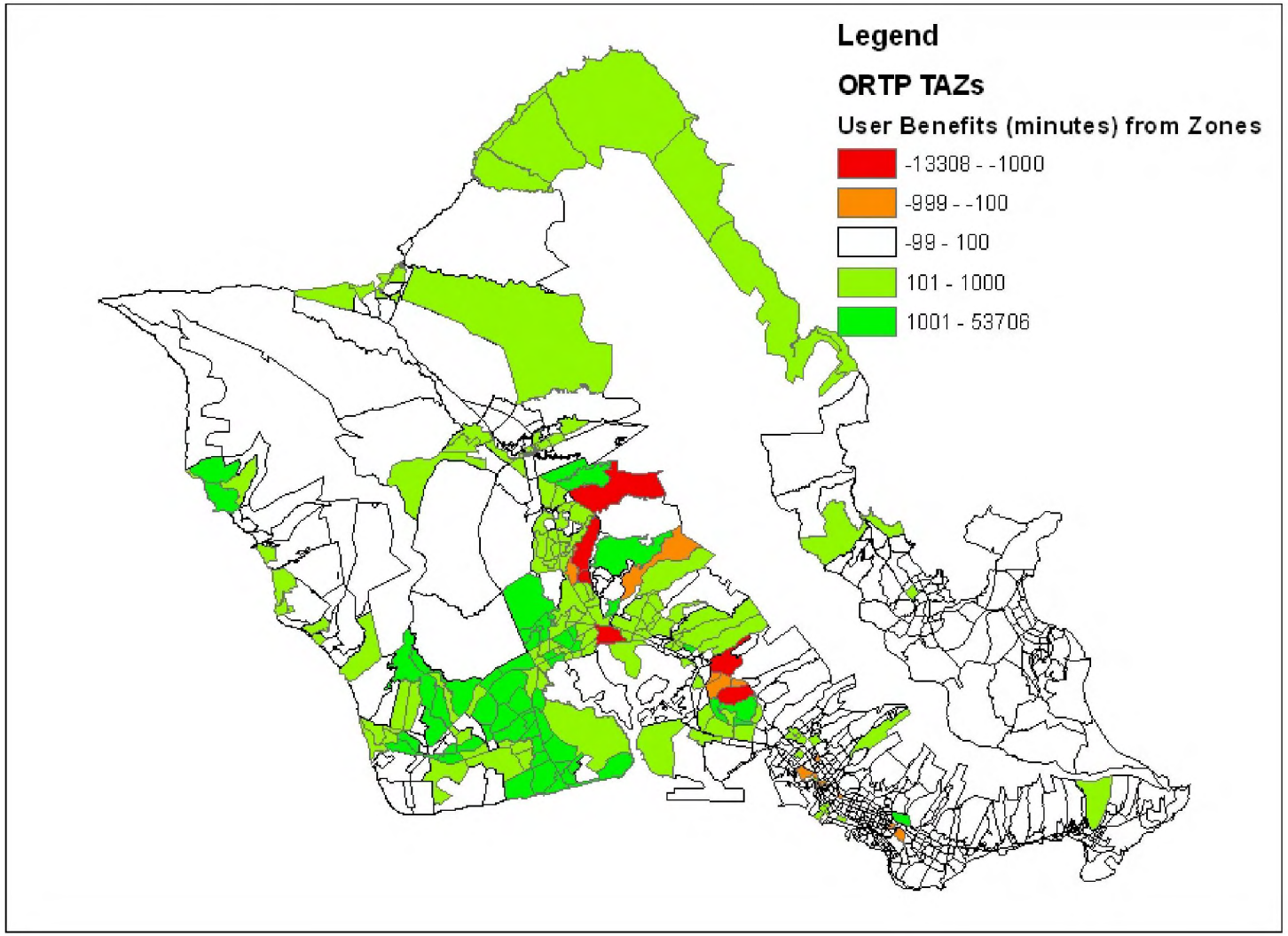

Figure 16. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Managed Lane Alternative Reversible Option vs. TSM Alternative

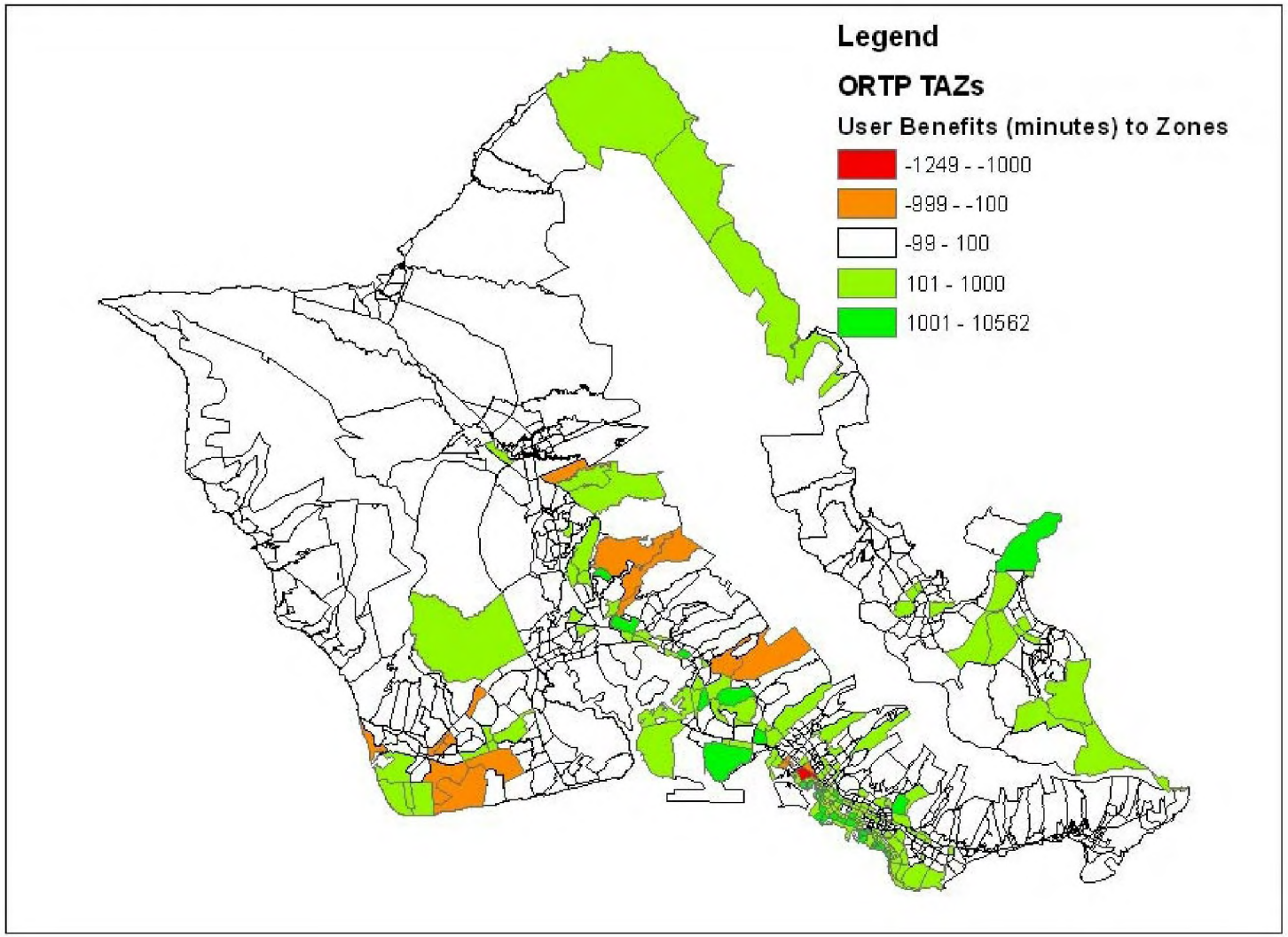

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Figure 17. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway Combination 1 Alternative vs. No Build Alternative

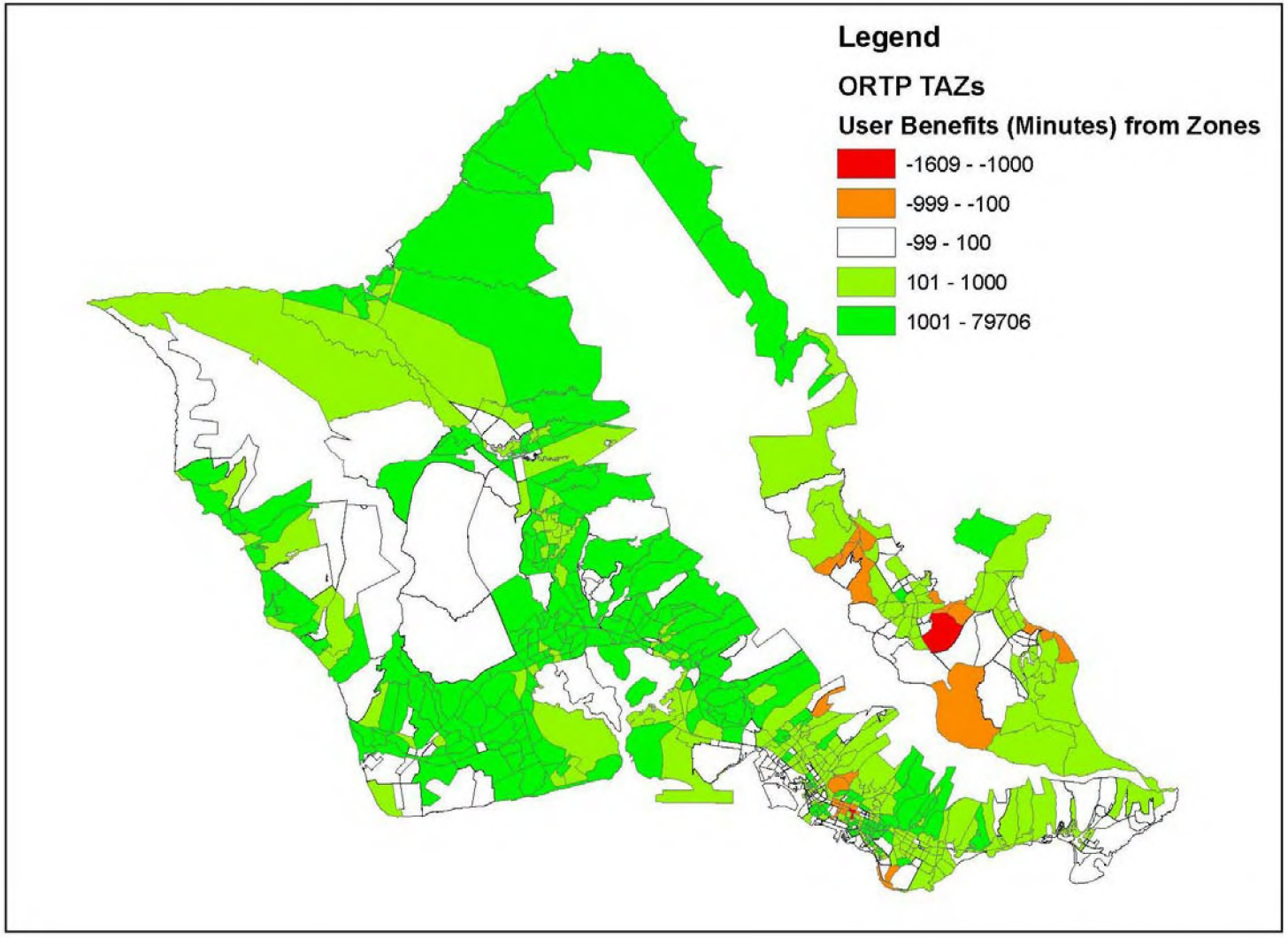

Figure 18. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway Combination 1 Alternative vs. No Build Alternative

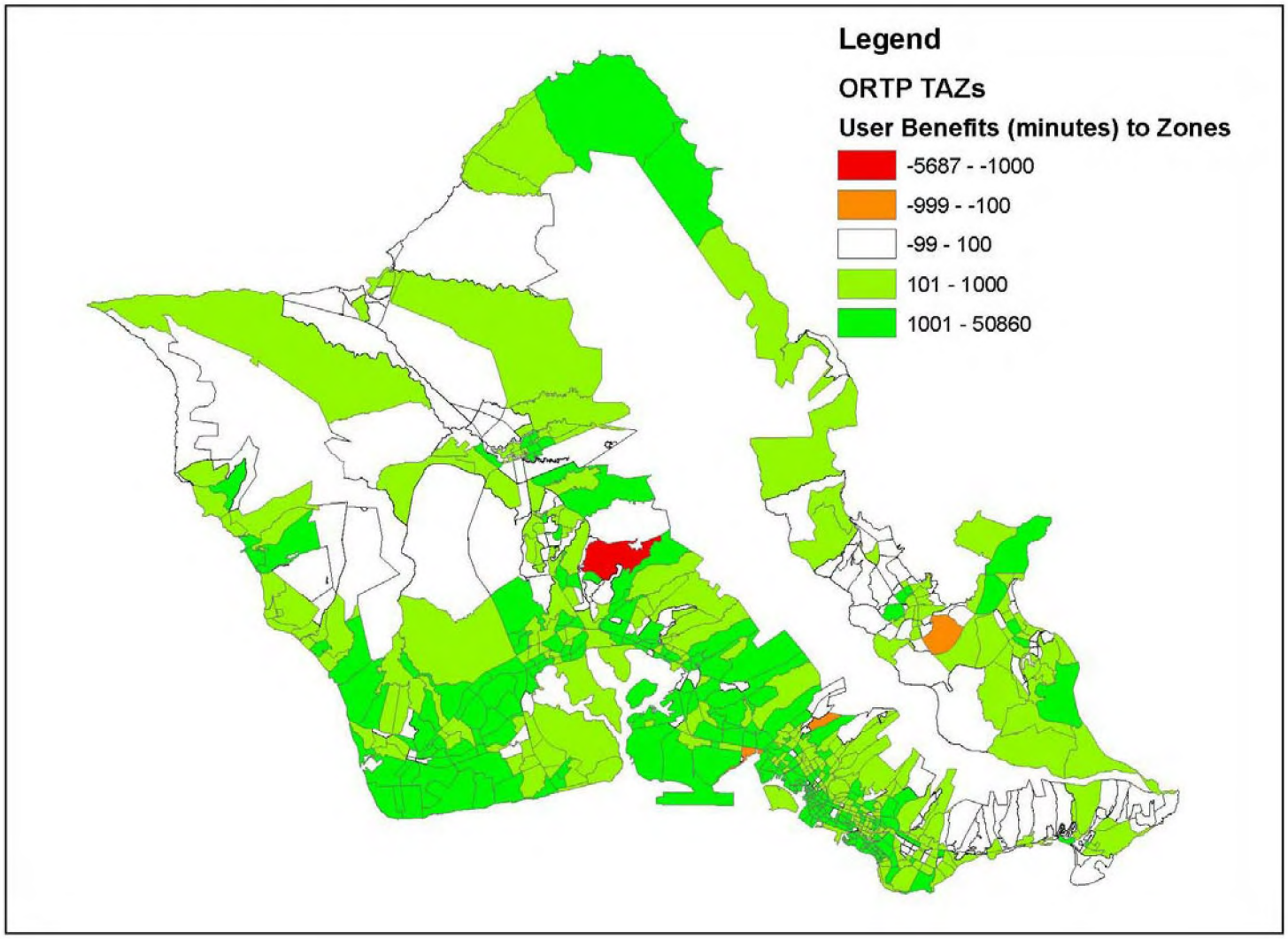

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Figure 19. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway Combination 1 Alternative vs. TSM Alternative

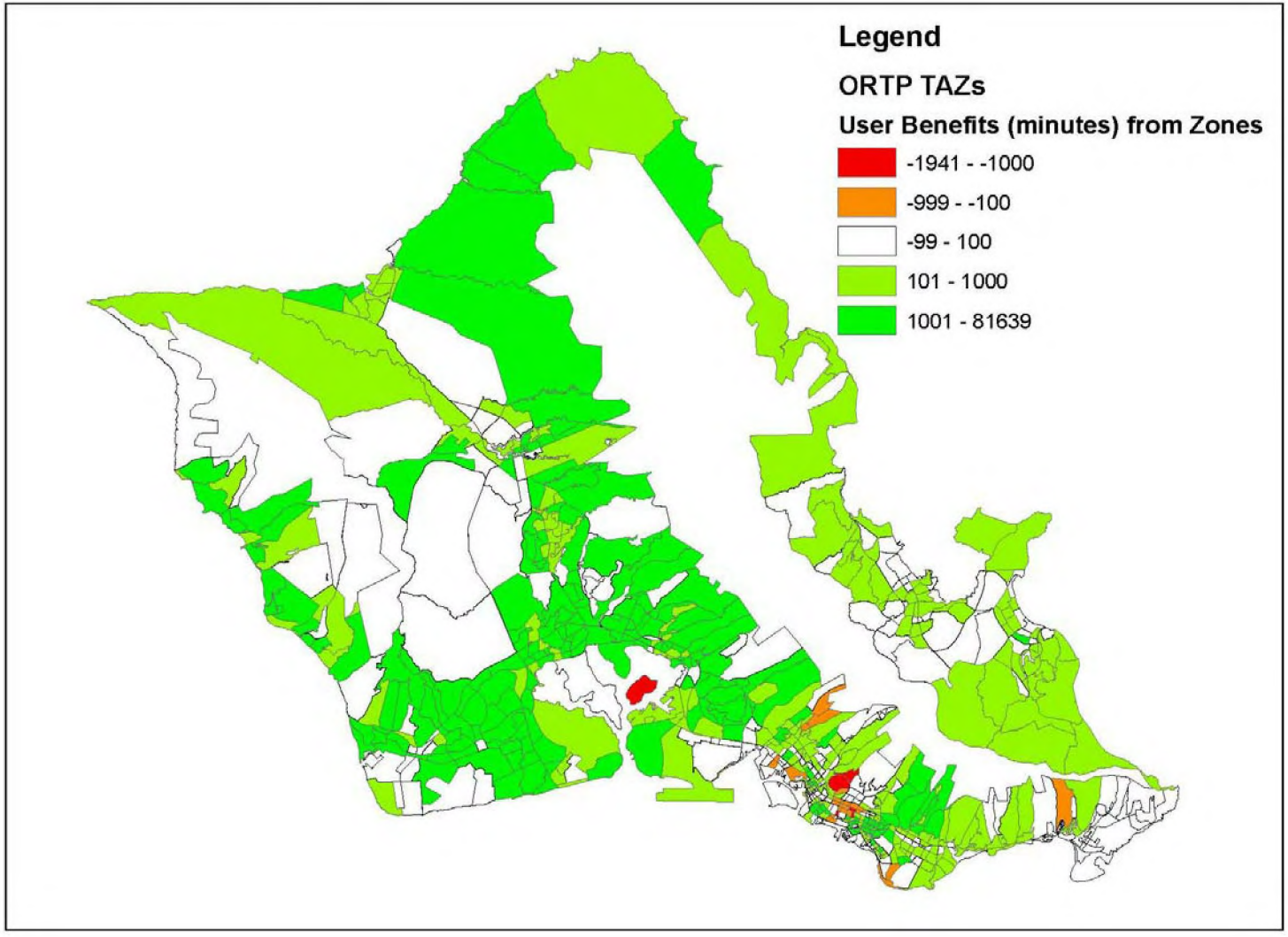

Figure 20. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway Combination 1 Alternative vs. TSM Alternative

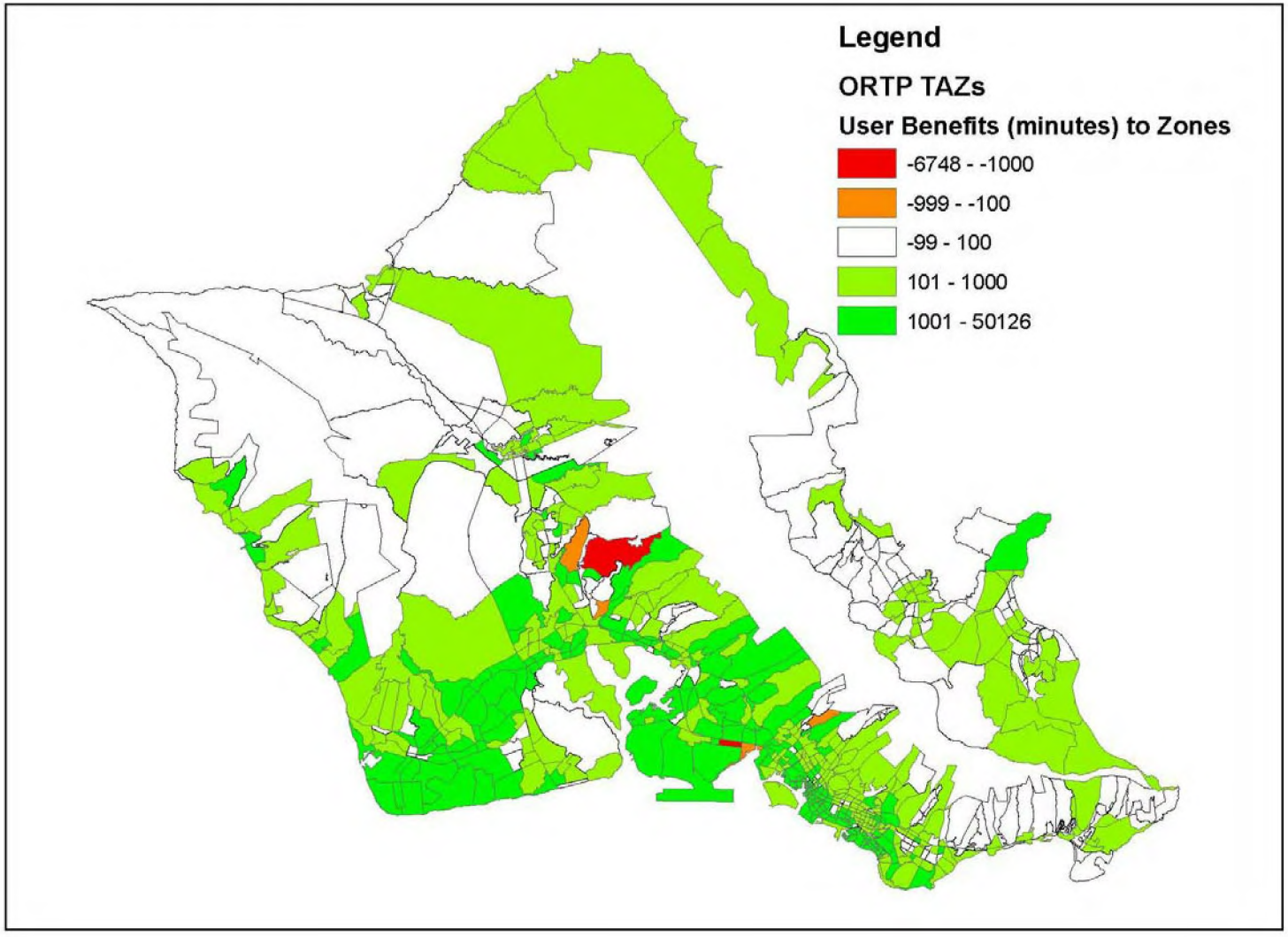

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Figure 21. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway Combination 2 Option vs. No Build Alternative

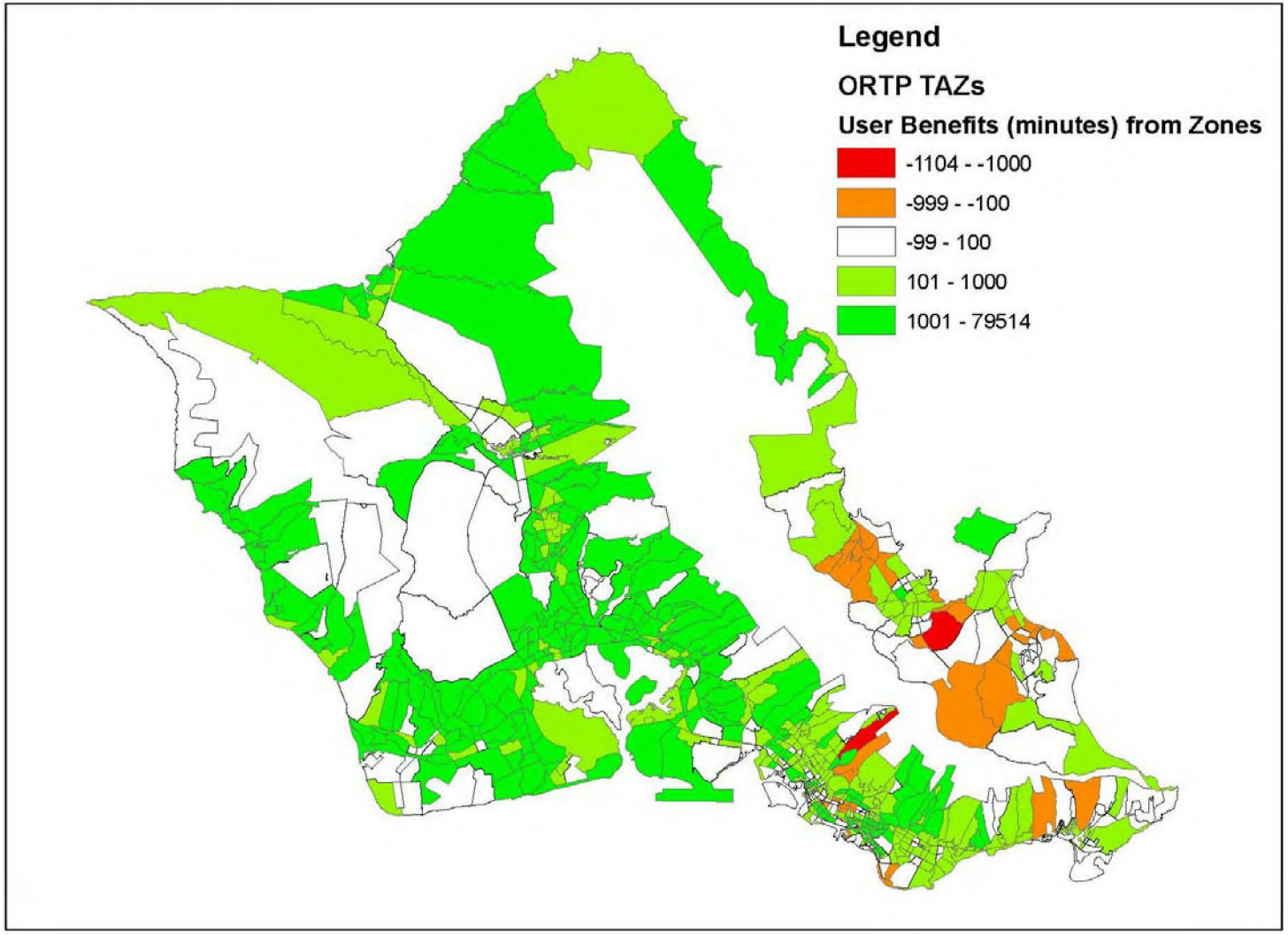

Figure 22. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway Combination 2 Option Vs. No Build Alternative

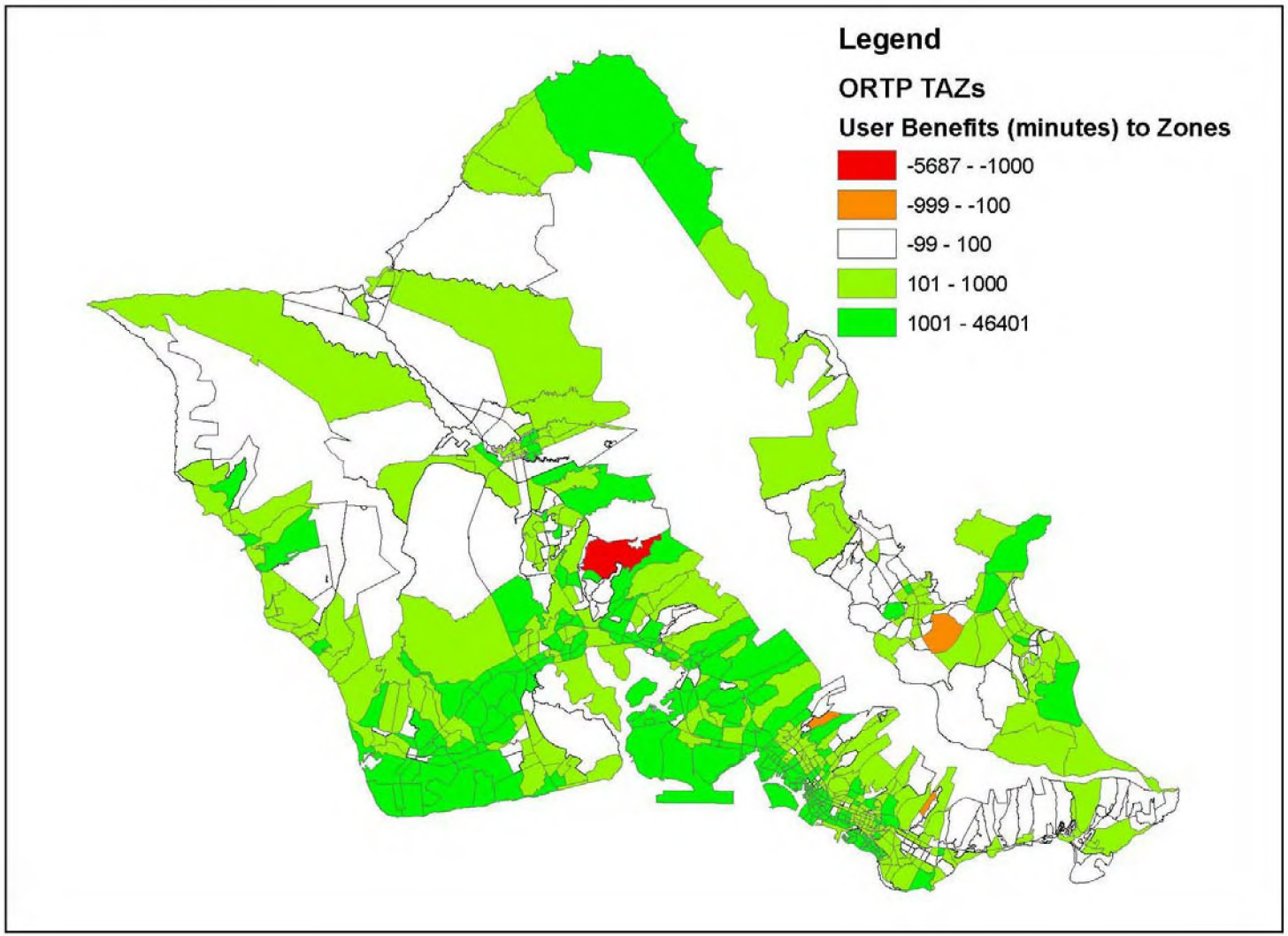

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Figure 23. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway Combination 2 Option vs. TSM Alternative

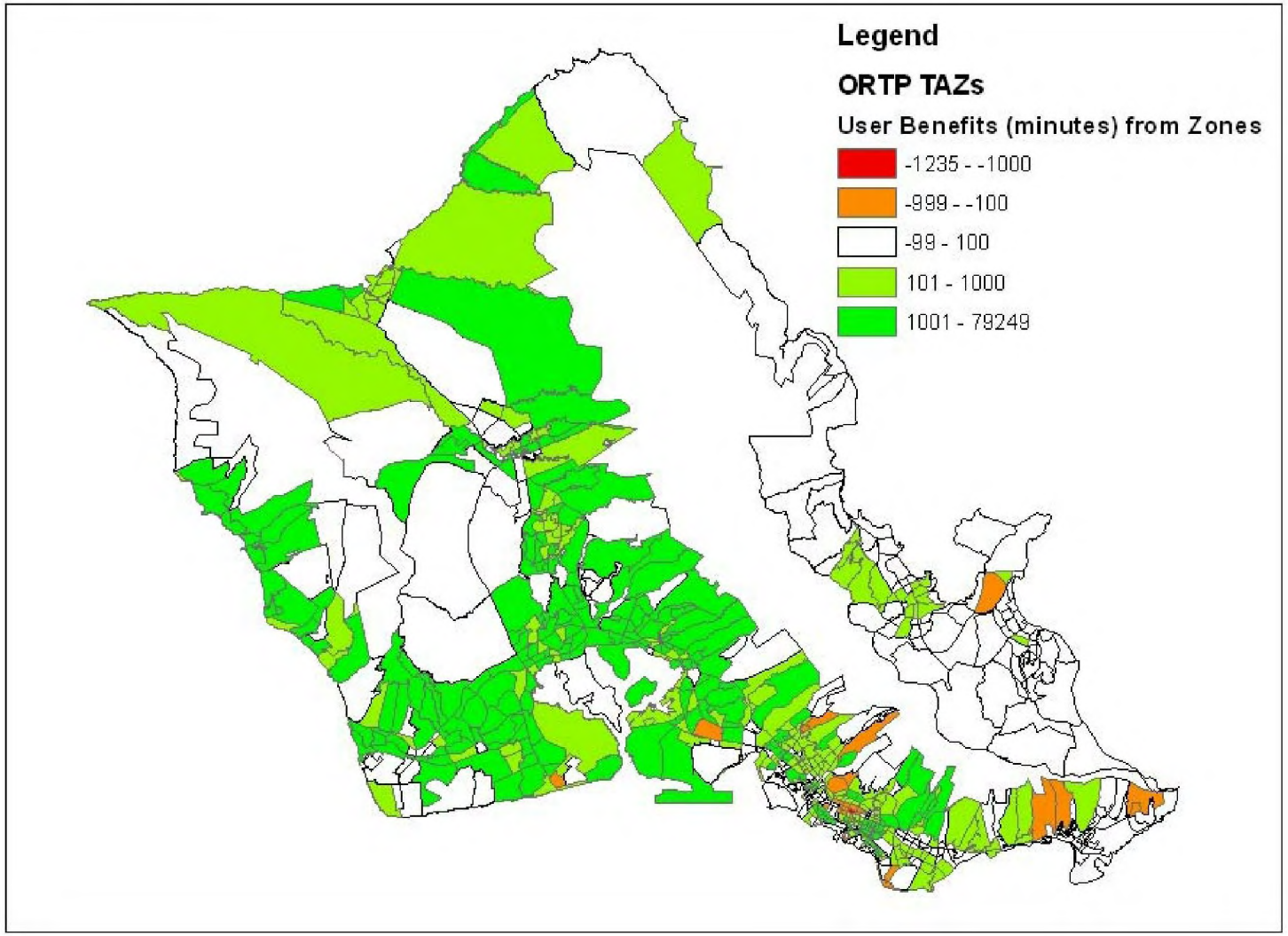

Figure 24. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway Combination 2 Option vs. TSM Alternative

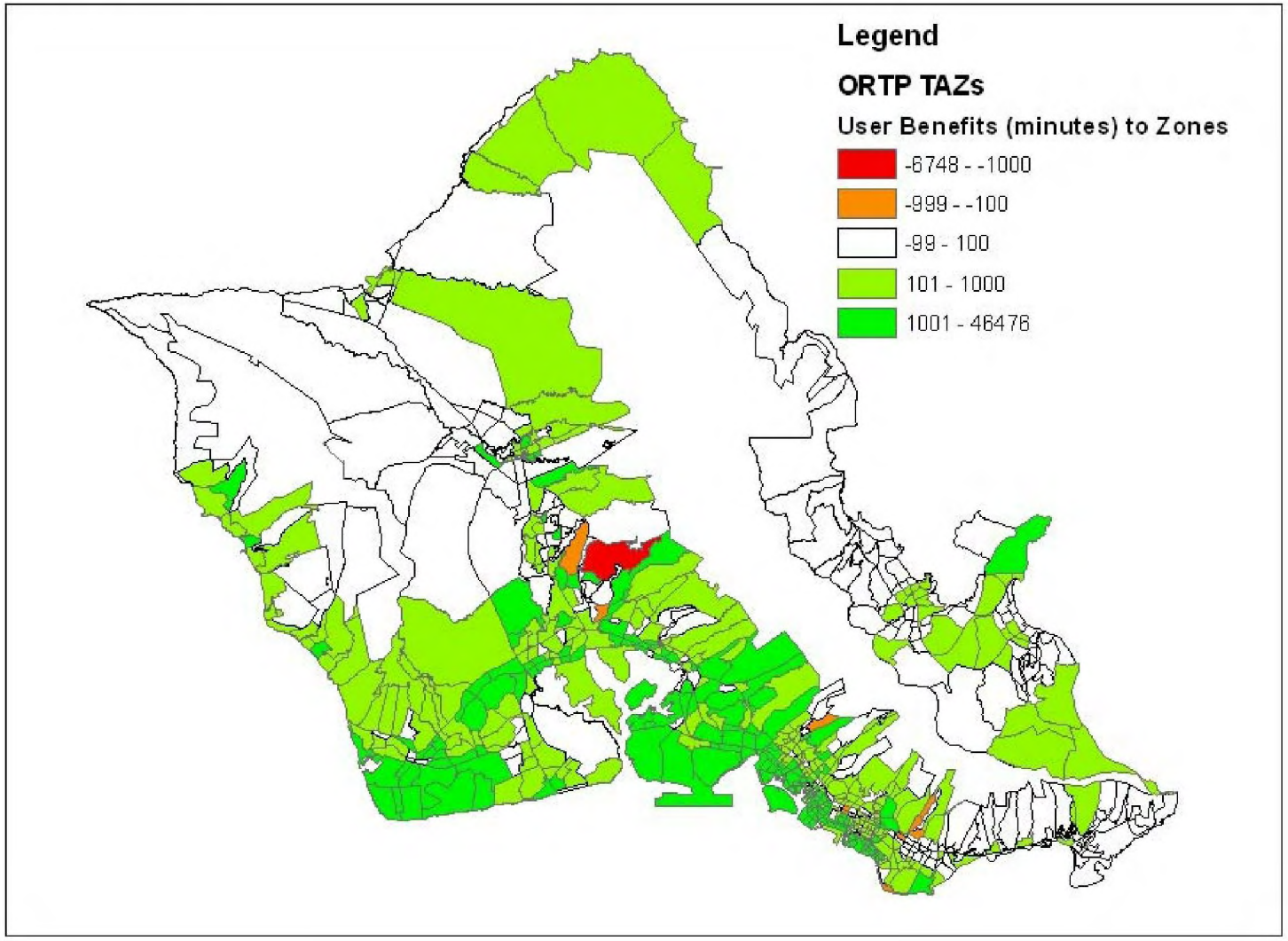

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Figure 25. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway Combination 3 Option vs. No Build Alternative

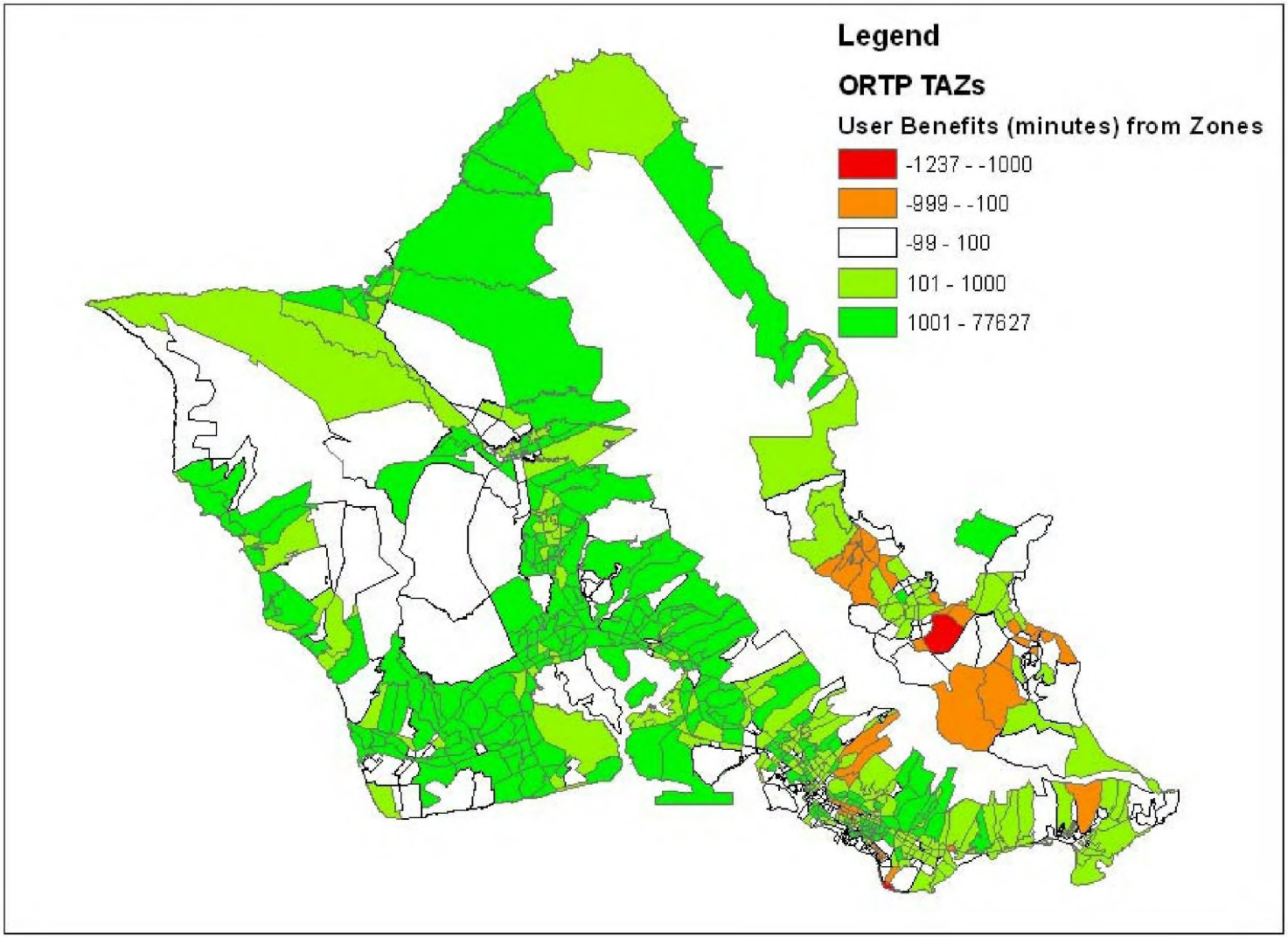

Figure 26. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway Combination 3 Option Vs. No Build Alternative

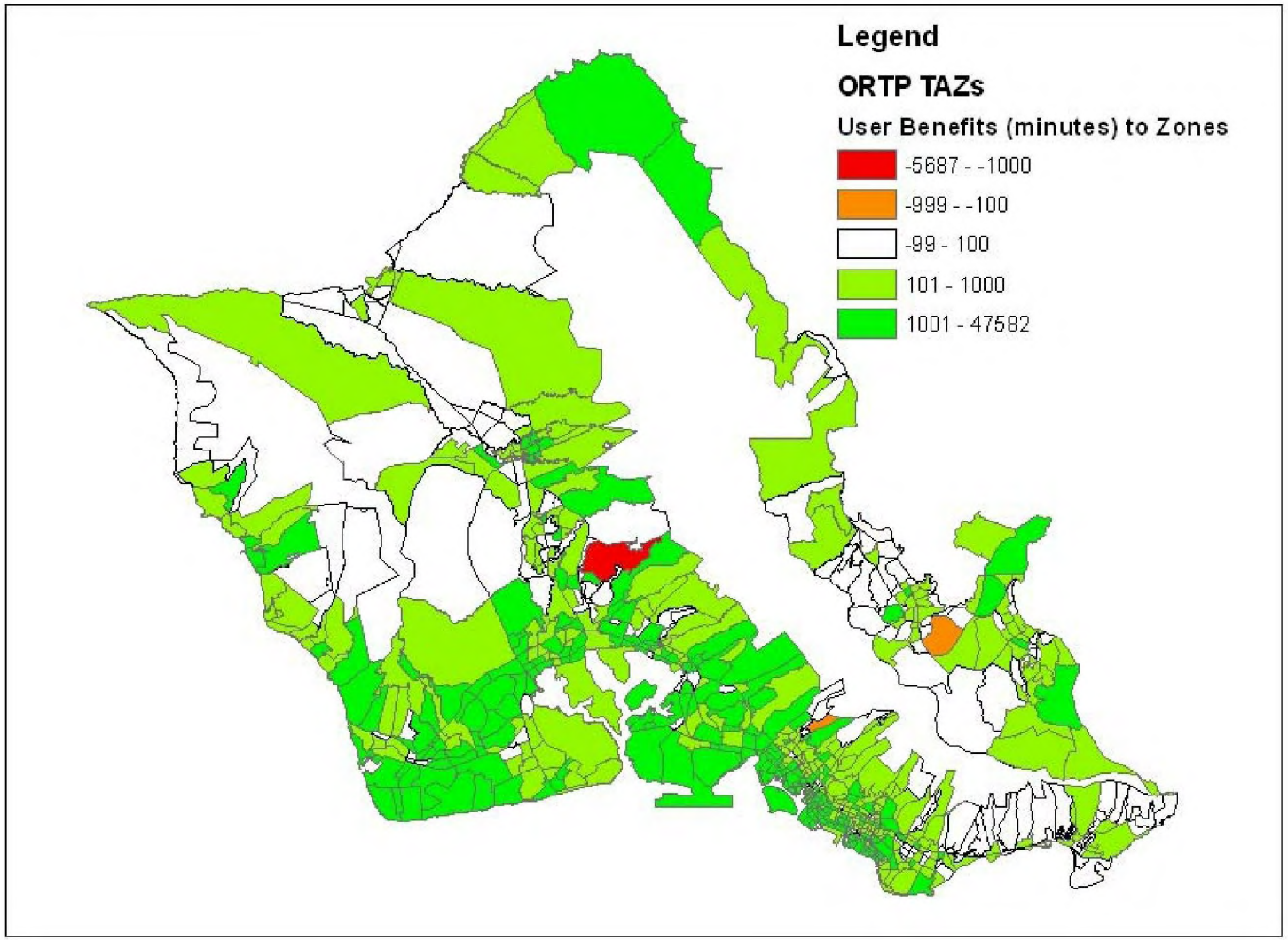

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Figure 27. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway Combination 3 Option vs. TSM Alternative

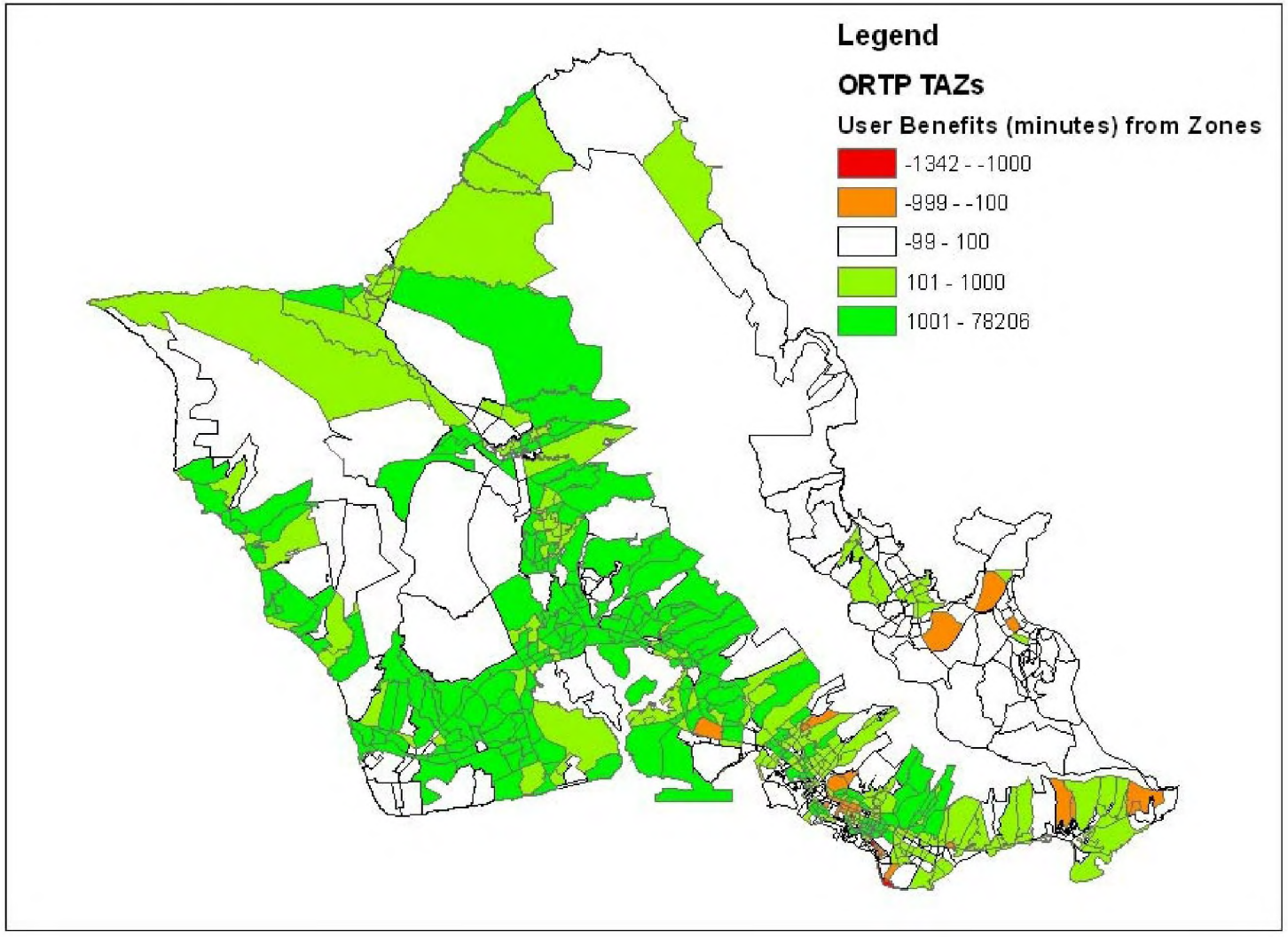

Figure 28. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway Combination 3 Option vs. TSM Alternative

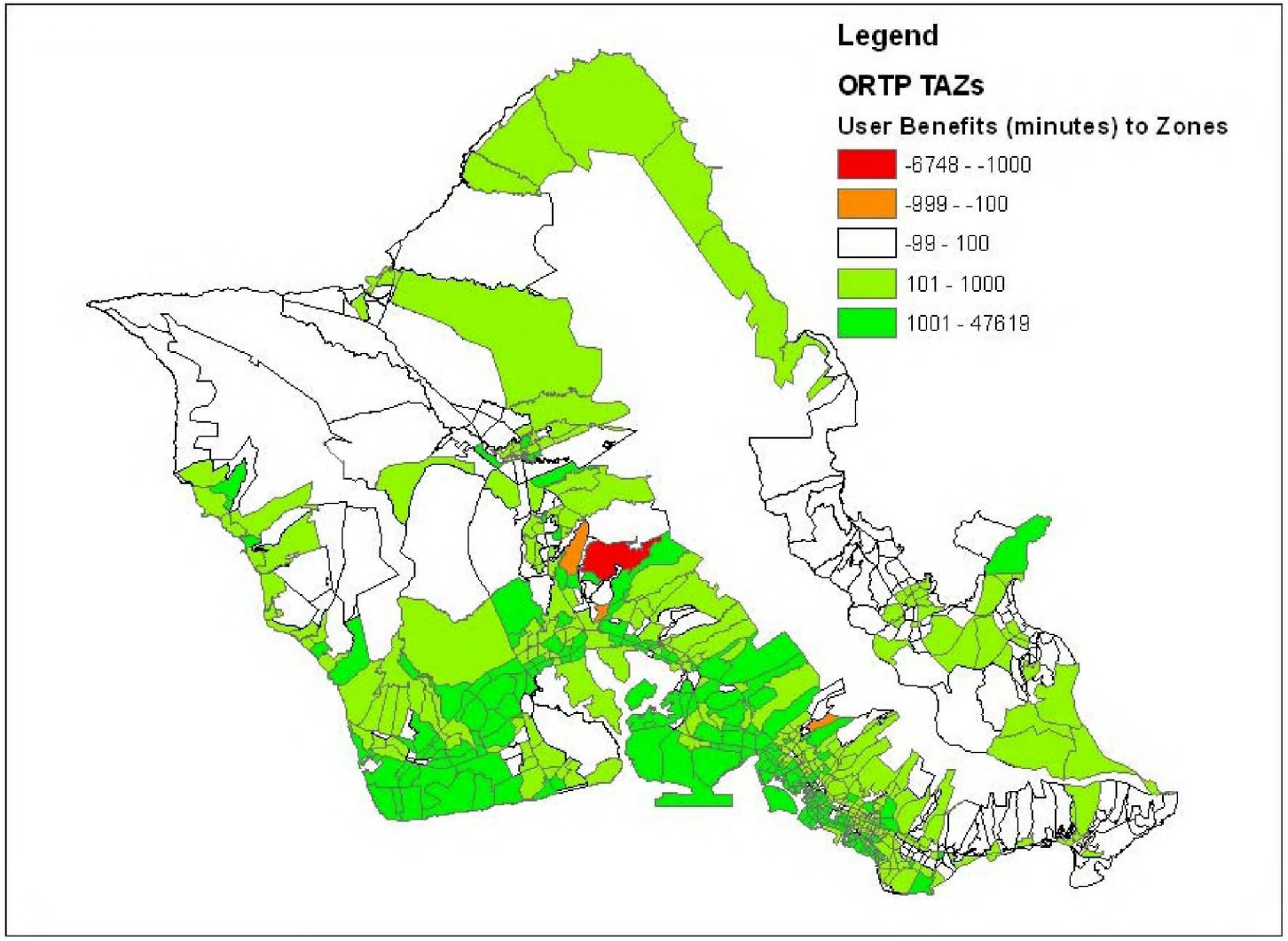

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Figure 29. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway 20-mile Alignment Alternative vs. No Build Alternative

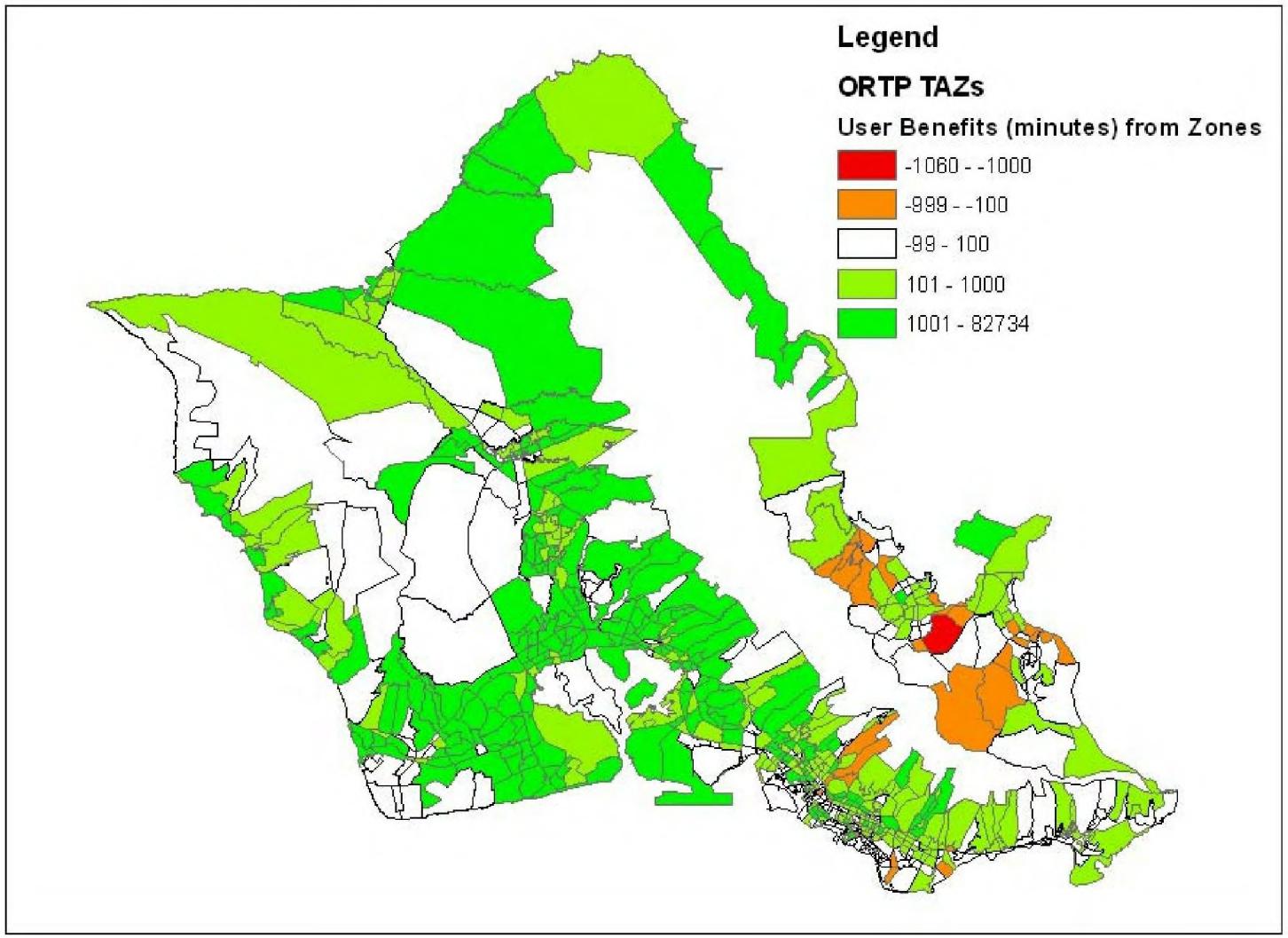

Figure 30. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway 20-mile Alignment Alternative vs. No Build Alternative

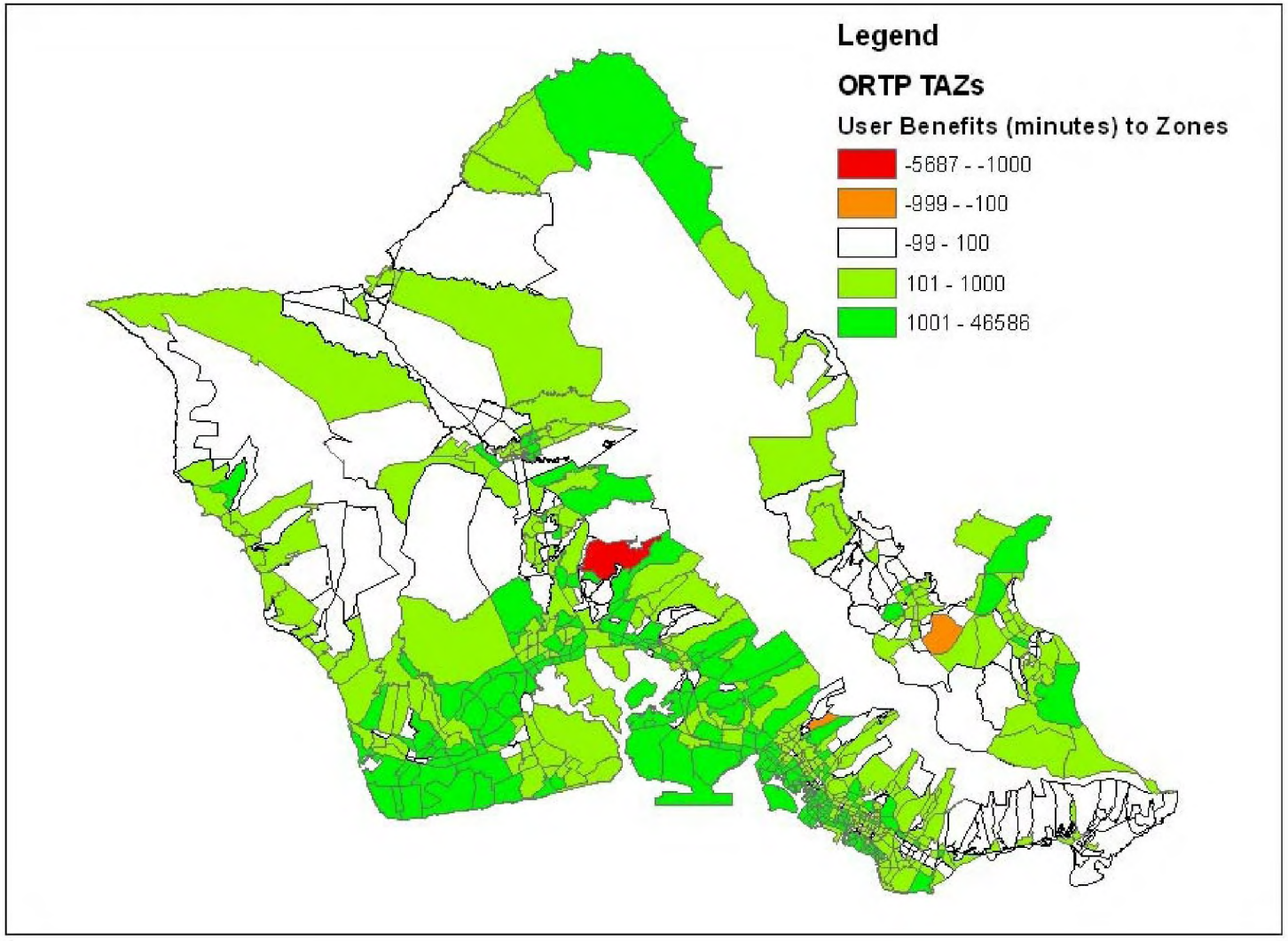

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Figure 31. Home-Based Work Transit User Benefits from Transportation Analysis Zone – Fixed Guideway 20-mile Alignment Alternative vs. TSM Alternative

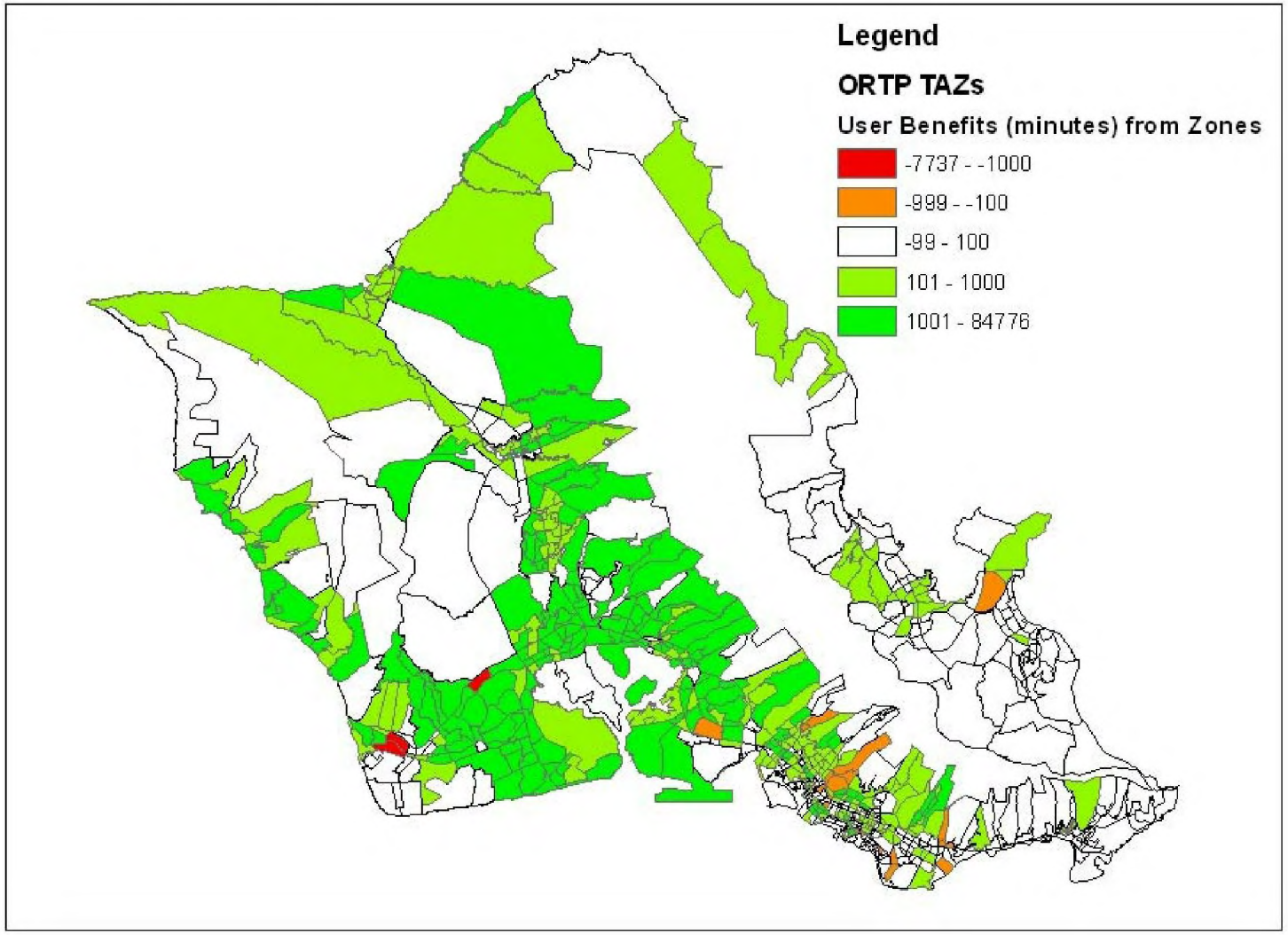

Figure 32. Home-Based Work Transit User Benefits to Transportation Analysis Zone – Fixed Guideway 20-mile Alignment Alternative vs. TSM Alternative

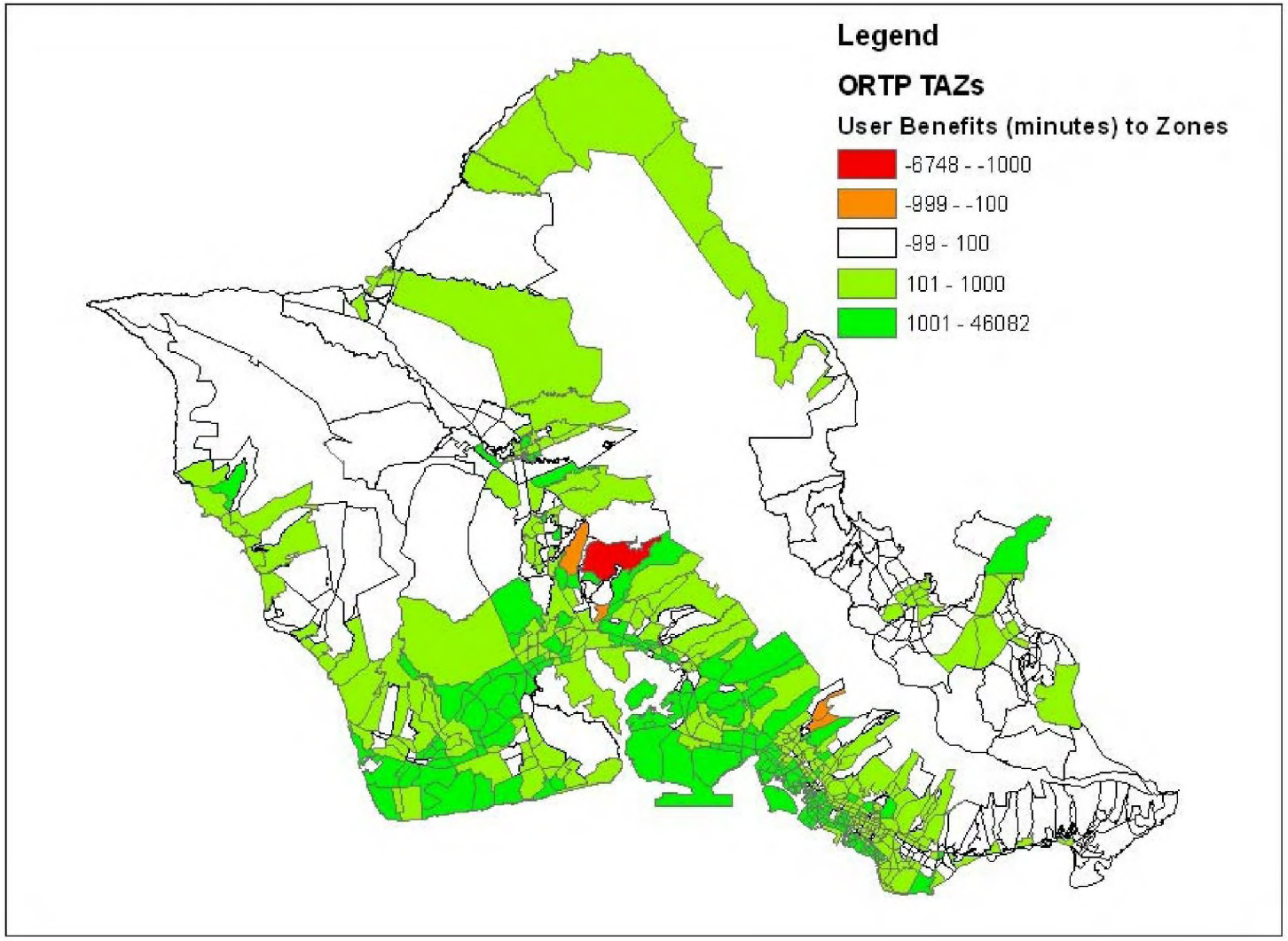

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Table 141: Managed Lane Option 1 vs. No Build for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. ʻAiea-Pearl City	11. Honoʻuliʻuli - ʻEwa Beach	12. Kapolei-Ko ʻOlina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāneʻohe - Kahaluʻu - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Koʻolauloa	22. North Shore	23. Waiʻanae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	491	582	284	229	118	237	360	457	-1,639	399	80	180	6	74	253	54	99	-70	37	689	9	4	0	411	72	**3,416**
2. Kaka 'ako	912	605	842	1,684	652	130	204	477	-1,266	325	46	168	29	122	180	61	74	20	101	578	6	12	7	681	137	**6,787**
3. Punchbowl-Sheridan-Date	5,567	3,194	3,697	747	1,364	478	1,521	1,069	-1,111	651	78	176	2	159	296	105	99	316	201	971	30	45	6	390	296	**20,347**
4. Waikīkī	622	422	42	-183	428	100	-5	317	-691	290	25	150	4	137	204	50	71	-5	70	372	29	11	3	463	11	**2,937**
5. Kāhala- Tantalus	4,086	2,149	3,658	1,902	1,659	447	999	516	-371	372	27	134	4	165	161	82	121	294	128	402	33	16	2	1,083	771	**18,840**
6. Pauoa-Kalihi	2,903	1,441	600	545	192	579	1,079	1,384	-906	774	55	187	12	240	377	127	170	-1	442	852	45	24	-1	277	59	**11,456**
7. Iwilei-Māpunapuna-Airport	1,255	777	373	232	87	177	237	563	-517	385	14	47	1	68	179	57	59	-6	186	327	21	6	0	210	56	**4,794**
8. Hickam-Pearl Harbor	724	164	154	52	31	104	381	1,159	881	379	7	32	3	467	241	33	18	4	54	77	9	5	1	20	19	**5,019**
9. Moanalua-Hālawa	-669	-126	-139	-58	-36	-94	203	4,014	3,351	481	51	107	18	174	191	44	38	-9	221	308	30	18	0	49	-8	**8,159**
10. ʻAiea-Pearl City	4,526	1,310	1,402	1,193	505	762	2,746	4,529	870	5,181	329	754	75	1,673	335	265	276	85	1,273	1,121	139	79	34	252	793	**30,507**
11. Honoʻuliʻuli - ʻEwa Beach	6,886	2,912	2,609	15,964	1,192	1,011	1,990	4,190	2,713	2,686	5,189	18,416	1,326	3,023	573	502	609	133	615	1,960	298	134	781	593	2,327	**78,632**
12. Kapolei-Ko ʻOlina - Kalaeloa	6,222	2,317	1,725	9,989	708	573	1,272	1,990	972	2,072	2,954	20,170	1,289	2,086	534	402	436	78	302	1,329	216	102	1,533	388	1,375	**61,034**
13. Makakilo - Makaiwa	190	546	282	5,520	327	81	-30	401	282	455	971	4,040	293	665	206	210	235	27	138	425	109	38	197	155	589	**16,352**
14. Waipahu - Waikele - Kunia	3,837	921	2,852	7,495	448	359	1,293	2,317	1,470	2,007	676	1,483	192	2,529	1,025	331	366	53	376	601	89	112	39	196	919	**31,986**
15. Waiawa-Koa Ridge	10,146	1,975	4,554	18,756	662	768	2,542	3,081	1,646	4,393	476	1,159	83	2,884	3,381	2,423	2,558	88	474	719	95	179	26	246	1,197	**64,511**
16. Mililani - Meleman-Kīpapa	-275	518	491	918	230	102	621	2,563	777	1,945	313	1,277	109	1,329	2,071	1,878	2,055	8	360	685	203	309	25	113	257	**18,882**
17. Wahiawā-Whitmore-Schofield	-117	62	15	90	16	2	234	1,049	361	538	45	183	26	282	598	415	599	-1	90	332	102	233	3	40	-80	**5,117**
18. East Honolulu	603	593	2,212	-548	1,300	0	19	250	-621	265	38	119	13	87	249	99	134	618	94	270	56	21	3	305	341	**6,520**
19. Kāneʻohe - Kahaluʻu - Kualoa	-3,169	-496	-367	-127	-47	290	-17	1,113	216	1,884	53	172	7	332	390	165	196	-55	1,126	1,650	-50	40	-3	102	-88	**3,317**
20. Kailua - Mokapu-Waimānalo	304	75	39	241	128	72	236	609	-1,044	623	68	250	24	229	457	137	194	29	168	2,863	113	29	2	192	56	**6,094**
21. Koʻolauloa	1,271	427	414	575	143	163	327	415	-11	209	20	122	6	81	102	63	133	17	146	512	1,262	350	7	96	297	**7,147**
22. North Shore	712	284	230	386	113	87	261	556	133	367	36	115	7	180	298	230	709	7	106	449	454	602	7	63	113	**6,505**
23. Waiʻanae Coast	-1,452	-36	-594	-177	-54	-231	-390	1,141	-254	549	149	1,235	114	548	188	84	95	-70	60	930	43	42	609	52	-519	**2,062**
24. Mānoa - Tantalus	4,208	2,319	1,263	1,364	1,376	296	1,388	933	-503	463	54	154	9	143	304	74	103	95	183	627	34	12	5	611	771	**16,286**
25. University	1,274	282	496	-19	179	124	276	119	-7	60	1	12	1	6	44	3	2	54	48	76	0	0	0	78	44	**3,153**
Total	**51,057**	**23,217**	**27,134**	**66,770**	**11,721**	**6,617**	**17,747**	**35,212**	**4,731**	**27,753**	**11,755**	**50,842**	**3,653**	**17,683**	**12,837**	**7,894**	**9,449**	**1,709**	**6,999**	**19,125**	**3,375**	**2,423**	**3,286**	**7,066**	**9,805**	**439,860**

AR00066561

Table 142: Managed Lane Option 1 vs. TSM for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Hono'uli'uli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāne'ohe - Kahalu'u - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Ko'olauloa	22. North Shore	23. Wai'anae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	286	85	-77	154	57	-39	293	424	-1,055	-44	46	34	-2	12	149	1	3	-9	-15	-27	-1	0	-1	-9	-28	**237**
2. Kaka 'ako	1,420	230	595	1,422	428	-10	189	435	480	-66	27	29	4	23	130	3	9	12	-7	-24	2	1	1	58	59	**5,450**
3. Punchbowl-Sheridan-Date	2,339	1,477	1,774	815	513	-19	638	736	681	-81	24	-45	0	9	180	5	12	21	10	7	0	3	3	10	-1	**9,111**
4. Waikīkī	622	594	187	95	286	-15	-107	252	213	-38	14	41	2	41	138	2	4	-3	-2	1	-1	1	1	-11	-55	**2,262**
5. Kāhala- Tantalus	2,034	1,558	2,367	1,716	1,142	193	600	302	431	26	16	-14	-2	32	67	23	14	73	14	47	5	1	1	155	555	**11,356**
6. Pauoa-Kalihi	1,044	323	3	296	88	85	571	1,031	677	-101	20	-76	-3	16	186	10	14	-1	17	10	1	2	-2	21	12	**4,244**
7. Iwilei-Māpunapuna-Airport	609	486	53	159	61	77	330	580	113	-15	-4	-51	0	8	99	8	-1	-4	1	-7	0	1	0	1	-9	**2,495**
8. Hickam-Pearl Harbor	486	103	76	-8	20	54	194	756	721	99	2	-14	-1	117	106	12	3	2	7	37	1	1	0	4	-9	**2,769**
9. Moanalua-Hālawa	119	57	7	113	-16	17	335	1,269	1,978	400	12	-76	-13	86	174	6	20	5	22	-65	1	3	-1	-15	-2	**4,436**
10. "Aiea-Pearl City	2,359	555	508	566	211	267	1,412	3,027	2,429	991	3	-30	4	65	-77	29	9	36	171	234	24	4	-6	65	291	**13,147**
11. Hono'uli'uli - "Ewa Beach	2,879	1,222	483	9,420	515	271	130	3,017	2,398	1,639	168	1,582	62	461	182	210	258	49	288	595	94	32	-15	180	1,015	**27,135**
12. Kapolei-Ko "Olina - Kalaeloa	2,784	1,117	124	5,664	161	54	37	273	827	1,057	382	1,729	67	438	136	140	162	3	87	178	41	15	176	64	95	**15,811**
13. Makakilo - Makaiwa	566	196	-134	2,751	-3	-39	-299	-83	179	273	14	60	-4	93	18	39	33	-17	21	62	12	5	-18	-24	-188	**3,513**
14. Waipahu - Waikele - Kunia	1,914	512	1,583	2,550	249	206	796	1,884	1,394	842	-53	-166	-3	-159	-114	-23	25	35	120	172	18	11	-13	69	606	**12,455**
15. Waiawa-Koa Ridge	6,412	1,252	2,516	11,963	390	439	1,213	2,113	1,634	2,981	33	-19	-11	85	1,318	196	304	50	197	482	15	-24	-15	100	639	**34,263**
16. Mililani - Meleman-Kīpapa	-1,796	-150	-390	-204	-86	-218	-317	2,147	1,283	1,626	118	275	20	289	253	-76	-421	-27	3	-157	22	38	14	-66	-408	**1,772**
17. Wahiawā-Whitmore-Schofield	-276	6	-94	-14	-40	-40	7	987	688	363	0	-5	-1	-3	479	38	86	-10	16	-46	5	12	-3	-16	-139	**2,000**
18. East Honolulu	520	368	411	88	238	26	85	251	336	-2	20	-44	-4	12	127	11	11	41	-39	-108	2	3	-2	15	152	**2,518**
19. Kāne'ohe - Kahalu'u - Kualoa	861	208	198	262	96	119	213	563	793	80	15	-26	-2	41	157	22	18	-7	77	-66	1	-1	2	27	77	**3,728**
20. Kailua - Mokapu-Waimānalo	612	234	118	189	91	32	66	573	522	-23	31	-60	-5	83	238	12	17	-11	-275	-276	-13	0	-1	14	46	**2,214**
21. Ko'olauloa	690	240	239	306	88	77	143	265	223	34	12	16	1	25	40	0	0	10	67	66	27	13	2	29	163	**2,776**
22. North Shore	-110	-10	-88	14	1	-32	-67	277	301	163	1	-7	-1	11	122	11	62	-4	19	6	23	-20	-1	-20	-148	**503**
23. Wai'anae Coast	-925	157	-433	296	-93	-171	-304	1,246	818	464	-15	196	15	95	87	65	88	-31	-11	-111	-8	13	7	-55	-317	**1,073**
24. Mānoa - Tantalus	-85	27	6	21	89	-19	-150	371	320	-52	13	-34	-3	11	181	7	3	-6	-7	-22	-1	0	-2	-10	2	**660**
25. University	532	179	299	-58	117	53	88	75	61	1	0	-4	0	0	35	1	1	24	11	12	0	0	0	-14	30	**1,443**
Total	**25,896**	**11,026**	**10,331**	**38,576**	**4,603**	**1,368**	**6,096**	**22,771**	**18,445**	**10,617**	**899**	**3,291**	**120**	**1,891**	**4,411**	**752**	**734**	**231**	**792**	**1,000**	**270**	**114**	**127**	**572**	**2,438**	**167,371**

Table 143: Managed Lane Option 2 vs. No Build for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Honoʻuliʻuli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāneʻohe - Kahaluʻu - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Koʻolauloa	22. North Shore	23. Waiʻanae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	352	477	52	211	26	251	7	84	-1915	374	38	26	-6	56	239	49	91	-70	47	690	9	3	-3	409	63	**1560**
2. Kaka 'ako	-448	483	428	1552	299	90	-77	27	-1569	332	19	35	15	89	177	51	63	7	99	575	6	10	-3	640	89	**2989**
3. Punchbowl-Sheridan-Date	3041	1623	1879	56	739	417	511	297	-1456	611	55	49	3	145	273	89	84	261	181	930	29	40	-3	361	227	**10442**
4. Waikīkī	-74	-215	-175	-286	35	92	-3	50	-801	283	9	31	1	88	195	45	65	-3	68	366	29	9	-2	459	-22	**244**
5. Kāhala- Tantalus	1712	466	1118	-256	450	223	245	190	-603	298	12	33	3	122	158	56	103	206	106	366	27	13	-2	887	452	**6385**
6. Pauoa-Kalihi	2589	1259	449	487	112	554	373	529	-1299	745	32	50	8	204	364	120	157	-2	437	845	44	21	-4	262	42	**8378**
7. Iwilei-Māpunapuna-Airport	576	397	145	153	13	93	-59	198	-799	358	15	15	0	54	246	51	55	-10	176	316	20	5	-2	190	39	**2245**
8. Hickam-Pearl Harbor	297	71	71	59	13	43	183	455	560	263	5	54	2	321	180	22	14	1	47	56	7	5	1	17	26	**2773**
9. Moanalua-Hālawa	-978	-198	-224	-142	-75	-150	-254	2842	3179	437	40	51	12	125	160	37	28	-16	213	303	29	15	-1	39	-20	**5452**
10. "Aiea-Pearl City	3527	1095	1065	1182	335	548	1901	2285	-187	4564	316	715	74	1620	319	245	261	57	1189	1043	123	76	33	211	580	**23177**
11. Honoʻuliʻuli - "Ewa Beach	13889	5196	4723	22316	2273	1715	2634	2146	1959	1634	5086	16781	1300	2668	463	356	440	349	896	2782	500	118	1054	1002	4930	**97210**
12. Kapolei-Ko "Olina - Kalaeloa	10617	4011	3406	15050	1287	1199	1662	1209	650	1407	2862	19650	1291	1885	485	328	322	220	542	1845	347	91	1508	596	3192	**75662**
13. Makakilo - Makaiwa	2886	1392	732	5773	706	315	144	112	86	230	957	4052	294	607	213	175	192	99	267	642	189	35	199	286	1551	**22134**
14. Waipahu - Waikele - Kunia	8160	1774	4236	14843	589	544	1278	953	904	1078	661	1437	191	2416	982	273	292	93	448	782	128	107	36	272	1169	**43646**
15. Waiawa-Koa Ridge	12319	2438	5512	20776	879	983	2700	2177	1288	3552	477	1240	95	2848	3700	2855	2684	126	528	892	121	242	23	316	1566	**70337**
16. Mililani - Meleman-Kīpapa	2109	1088	909	2283	339	312	972	1118	275	1148	316	1279	109	1342	2391	1876	2011	34	376	769	196	306	25	195	477	**22255**
17. Wahiawā-Whitmore-Schofield	449	310	35	529	11	35	339	423	68	278	45	174	26	282	606	408	571	-4	73	341	98	226	3	49	-146	**5229**
18. East Honolulu	211	230	1812	-751	1127	-33	-141	18	-797	233	22	13	7	70	234	89	123	603	131	367	54	18	-5	288	434	**4357**
19. Kāneʻohe - Kahaluʻu - Kualoa	-3585	-630	-499	-213	-126	245	-269	727	27	1825	43	65	2	304	366	151	184	-46	1083	1703	-48	41	-12	87	-121	**1304**
20. Kailua - Mokapu-Waimānalo	-36	-102	-37	188	45	44	-17	85	-1304	596	44	60	15	157	434	122	176	37	399	3043	123	28	-5	181	33	**4309**
21. Koʻolauloa	936	298	282	443	84	126	217	234	-91	187	13	55	4	63	104	63	135	12	115	482	1251	353	4	80	213	**5663**
22. North Shore	1576	588	274	1217	143	123	415	321	21	274	38	117	7	184	309	237	716	15	100	457	435	600	7	95	-83	**8186**
23. Waiʻanae Coast	1369	1657	-285	2734	122	-40	-506	-963	-904	244	233	1245	117	471	157	51	37	-41	173	1260	81	38	608	133	-353	**7638**
24. Mānoa - Tantalus	4071	2188	1215	1426	1327	278	1356	531	-663	450	41	56	7	127	292	69	95	101	182	626	34	11	2	620	795	**15237**
25. University	1202	225	466	-48	143	121	259	75	-26	58	1	6	1	5	42	3	1	54	45	76	0	0	0	77	44	**2830**
Total	**66767**	**26121**	**27589**	**89582**	**10896**	**8128**	**13870**	**16123**	**-3397**	**21459**	**11380**	**47289**	**3578**	**16253**	**13089**	**7821**	**8900**	**2083**	**7921**	**21557**	**3832**	**2411**	**3461**	**7752**	**15177**	**449,642**

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Table 144: Managed Lane Option 2 vs. TSM for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Hono'uli'uli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāne'ohe - Kahalu'u - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Ko'olauloa	22. North Shore	23. Wai'anae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	147	-20	-309	136	-36	-24	-59	51	-1331	-68	4	-120	-14	-6	135	-5	-5	-8	-6	-24	-1	0	-4	-11	-36	**-1614**
2. Kaka 'ako	60	108	181	1290	76	-50	-92	-15	176	-59	0	-105	-11	-10	127	-7	-2	0	-9	-28	2	-1	-10	17	10	**1648**
3. Punchbowl-Sheridan-Date	-187	-94	-44	124	-112	-79	-372	-36	336	-122	1	-172	1	-5	157	-11	-3	-33	-9	-36	-1	-2	-6	-20	-70	**-795**
4. Waikīkī	-74	-44	-30	-9	-107	-23	-105	-15	104	-45	-1	-79	-2	-7	129	-3	-2	-2	-4	-7	-1	-1	-3	-15	-87	**-433**
5. Kāhala- Tantalus	-340	-125	-173	-441	-66	-32	-155	-24	199	-48	1	-115	-4	-11	63	-3	-5	-15	-9	-22	-1	-1	-3	-42	236	**-1136**
6. Pauoa-Kalihi	730	141	-148	238	7	60	-134	175	284	-130	-3	-214	-8	-20	173	3	0	-2	12	-2	1	-1	-5	5	-4	**1158**
7. Iwilei-Māpunapuna-Airport	-71	106	-175	81	-13	-7	34	214	-169	-42	-3	-82	-2	-6	165	1	-5	-7	-8	-10	-2	0	-1	-19	-26	**-47**
8. Hickam-Pearl Harbor	51	10	-7	-1	2	-8	-8	12	398	-18	0	8	-2	-31	45	1	-1	0	0	1	-1	0	1	0	-2	**450**
9. Moanalua-Hālawa	-190	-14	-77	29	-54	-39	-122	97	1807	355	2	-132	-18	38	143	-1	9	-2	13	-73	0	0	-2	-25	-15	**1729**
10. "Aiea-Pearl City	1360	339	170	555	40	53	567	783	1372	373	-11	-69	3	12	-93	9	-7	9	59	127	8	0	-7	24	79	**5755**
11. Hono'uli'uli - "Ewa Beach	10244	3617	2645	15866	1597	986	812	973	1646	577	65	-53	36	106	71	63	89	265	592	1812	302	15	258	595	3620	**46799**
12. Kapolei-Ko "Olina - Kalaeloa	7772	3049	1881	11423	782	724	499	-508	508	385	289	1189	69	236	88	65	47	151	362	993	202	4	151	314	1929	**32604**
13. Makakilo - Makaiwa	3262	1041	316	3003	376	195	-125	-372	-16	47	0	72	-3	36	25	4	-10	55	156	495	92	2	-16	108	774	**9517**
14. Waipahu - Waikele - Kunia	6237	1365	2967	9898	390	391	780	519	828	-89	-67	-211	-5	-272	-156	-81	-49	75	197	532	57	6	-16	146	856	**24298**
15. Waiawa-Koa Ridge	8586	1723	3332	14039	607	661	1414	1209	1276	2139	33	62	1	49	1635	624	430	88	267	793	44	44	-17	175	1008	**40222**
16. Mililani - Meleman-Kīpapa	588	420	28	1162	24	-8	34	702	781	826	121	277	20	302	573	-77	-466	-1	18	-8	15	35	14	15	-189	**5206**
17. Wahiawā-Whitmore-Schofield	290	254	-74	426	-45	-7	112	361	394	99	0	-15	-1	-4	487	31	57	-13	-2	-39	1	5	-4	-8	-205	**2100**
18. East Honolulu	129	5	12	-116	65	-8	-75	19	160	-34	5	-150	-10	-5	112	1	-1	26	-1	-20	0	0	-10	-2	246	**348**
19. Kāne'ohe - Kahalu'u - Kualoa	444	75	65	176	17	74	-39	177	604	19	5	-134	-8	13	133	8	6	2	35	-30	2	0	-7	12	44	**1693**
20. Kailua - Mokapu-Waimānalo	262	52	39	134	8	3	-189	43	245	-52	5	-262	-15	8	214	-3	-2	-4	-44	-97	-3	-1	-7	3	21	**358**
21. Ko'olauloa	356	110	106	174	29	40	33	84	143	11	5	-52	-2	7	42	1	2	4	35	33	17	15	-1	13	79	**1284**
22. North Shore	753	293	-45	845	31	4	88	42	188	68	2	-5	0	14	132	17	69	4	14	14	4	-21	-1	12	-344	**2178**
23. Wai'anae Coast	1896	1849	-124	3208	84	19	-421	-857	169	157	69	206	18	19	56	33	31	-3	101	294	30	10	7	26	-151	**6726**
24. Mānoa - Tantalus	-222	-103	-42	82	40	-37	-182	-31	160	-64	0	-131	-4	-4	169	2	-4	-1	-8	-25	-1	-1	-5	-1	25	**-388**
25. University	461	122	268	-87	82	49	70	31	41	-1	-1	-10	0	-1	33	1	0	24	7	11	0	0	0	-15	29	**1114**
Total	**42544**	**14279**	**10762**	**62235**	**3824**	**2937**	**2365**	**3634**	**10303**	**4284**	**521**	**-297**	**39**	**458**	**4658**	**673**	**178**	**612**	**1768**	**4684**	**766**	**107**	**306**	**1307**	**7827**	**180774**

Table 145: Fixed Guideway Alternative Combination 1 vs. No Build for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Hono'uli'uli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāne'ohe - Kahalu'u - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Ko'olauloa	22. North Shore	23. Wai'anae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	-61	1,498	4,373	2,734	988	210	-437	-683	2,031	1,690	188	400	22	379	-78	68	14	134	51	692	9	5	8	529	1,088	**15,852**
2. Kaka 'ako	3,440	569	2,393	1,105	746	1,103	2,206	400	2,750	1,719	156	426	49	433	63	139	114	280	73	534	2	10	6	1,280	1,332	**21,328**
3. Punchbowl-Sheridan-Date	20,474	8,243	5,862	989	-1,307	1,198	4,036	749	4,140	2,716	355	630	15	761	97	287	51	322	234	1,050	31	55	29	656	1,361	**53,034**
4. Waikīkī	10,051	476	24	-3,995	37	206	1,899	558	2,074	1,198	54	262	6	336	89	87	74	218	-26	218	7	6	10	259	1,048	**15,176**
5. Kāhala- Tantalus	14,397	3,678	2,392	1,117	957	1,032	2,942	435	2,098	1,463	74	303	7	498	55	116	119	342	94	381	20	17	0	709	502	**33,748**
6. Pauoa-Kalihi	2,807	2,878	3,384	2,285	990	738	-1,471	-1,451	3,910	2,697	212	512	35	950	49	179	119	192	443	879	59	25	11	343	948	**21,723**
7. Iwilei-Māpunapuna-Airport	3,288	2,451	2,299	1,749	574	1	-690	-1,520	2,324	1,310	131	329	6	401	-30	86	59	104	186	295	18	10	2	370	597	**14,350**
8. Hickam-Pearl Harbor	1,366	408	366	317	103	196	130	-187	1,980	277	18	157	10	957	165	-4	15	3	53	67	5	4	1	57	92	**6,556**
9. Moanalua-Hālawa	25,158	7,001	6,553	5,037	1,744	3,703	10,017	10,352	14,604	9,624	609	1,780	145	2,816	1,197	835	722	307	822	1,061	97	59	71	793	1,694	**106,801**
10. "Aiea-Pearl City	33,207	8,880	8,739	7,721	2,548	4,550	16,824	13,188	24,084	14,237	2,212	7,113	420	9,835	2,226	1,994	1,790	489	1,782	2,137	204	171	283	903	3,737	**169,274**
11. Hono'uli'uli - "Ewa Beach	36,806	12,189	14,435	45,004	4,738	4,527	11,964	13,646	12,478	11,329	16,634	57,417	3,178	10,882	2,438	3,178	3,521	978	1,333	3,551	541	449	5,287	1,710	12,582	**290,795**
12. Kapolei-Ko "Olina - Kalaeloa	31,701	10,641	12,690	40,223	4,302	4,152	10,811	12,053	11,056	10,260	13,088	68,810	3,721	9,898	2,301	2,998	3,166	903	1,157	3,026	591	387	6,755	1,648	10,865	**277,203**
13. Makakilo - Makaiwa	5,630	2,172	2,534	7,608	845	626	1,559	1,895	3,172	2,582	1,794	6,951	398	1,930	378	620	664	178	192	486	105	76	541	330	3,098	**46,364**
14. Waipahu - Waikele - Kunia	19,664	3,982	12,989	25,072	1,488	1,719	5,209	5,816	7,757	7,878	2,538	8,486	565	5,786	1,890	1,844	1,729	265	579	909	125	211	175	568	4,166	**121,410**
15. Waiawa-Koa Ridge	15,903	3,426	9,955	23,082	1,196	1,440	4,484	4,780	6,597	4,317	2,036	6,604	420	6,519	-354	3,066	2,910	232	481	940	111	243	237	421	2,807	**101,853**
16. Mililani - Meleman-Kīpapa	11,177	4,068	4,983	5,082	1,483	1,452	3,753	4,628	8,846	6,560	2,224	7,484	435	3,517	775	3,585	3,329	311	515	1,041	220	440	304	572	4,453	**81,237**
17. Wahiawā-Whitmore-Schofield	3,599	1,413	1,320	1,353	348	377	1,283	1,137	3,077	1,517	610	2,487	137	1,014	-211	2,352	1,454	81	108	497	108	300	118	149	1,250	**25,878**
18. East Honolulu	-1,958	1,804	3,394	1,142	863	-283	188	-709	1,182	853	77	312	24	277	-38	78	29	443	28	289	10	5	12	-69	-104	**7,849**
19. Kāne'ohe - Kahalu'u - Kualoa	-3,953	-521	989	1,423	196	133	-852	-794	1,766	2,175	165	622	15	809	96	144	140	42	1,028	1,709	-51	82	20	106	819	**6,308**
20. Kailua - Mokapu-Waimānalo	205	360	1,501	1,607	389	121	-217	-617	1,393	1,832	87	352	19	525	47	100	38	84	426	3,751	124	39	-12	259	821	**13,234**
21. Ko'olauloa	735	255	484	705	211	96	-8	32	292	267	22	165	7	185	98	118	249	43	79	448	1,235	623	-3	90	1,022	**7,450**
22. North Shore	4,681	1,610	1,984	2,117	566	397	931	1,054	2,006	1,042	298	925	36	748	169	608	1,562	138	106	537	457	937	51	265	1,997	**25,222**
23. Wai'anae Coast	4,802	2,427	2,825	2,803	1,085	453	537	1,866	5,283	2,446	710	3,746	150	2,630	687	612	761	237	220	1,019	8	117	2,413	409	4,684	**42,930**
24. Mānoa - Tantalus	3,554	4,966	2,360	1,812	997	-73	618	9	1,852	1,248	90	340	11	355	-43	38	-10	152	89	520	23	8	-3	643	954	**20,510**
25. University	3,305	1,365	1,459	885	52	348	800	204	563	285	33	68	1	30	33	6	0	74	65	89	0	0	0	100	52	**9,817**
Total	**249,978**	**86,239**	**110,287**	**178,977**	**26,139**	**28,422**	**76,516**	**66,841**	**127,315**	**91,522**	**44,415**	**176,681**	**9,832**	**62,471**	**12,099**	**23,134**	**22,619**	**6,552**	**10,118**	**26,126**	**4,059**	**4,279**	**16,316**	**13,100**	**61,865**	**1,535,902**

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Table 146: Fixed Guideway Alternative Combination 1 vs. TSM for Home-based Work TAA to TAA User Benefits

Origin	Destination: 1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Honoʻuliʻuli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāneʻohe - Kahaluʻu - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Koʻolauloa	22. North Shore	23. Waiʻanae Coast	24. Mānoa - Tantalus	25. University	Total
1. Ward-Chinatown	-266	1,001	4,012	2,659	927	-66	-503	-716	2,612	1,247	155	254	14	317	-182	15	-82	196	-1	-16	0	2	6	109	989	**12,683**
2. Kaka 'ako	3,948	195	2,147	843	523	963	2,191	358	4,473	1,328	137	286	23	334	13	81	50	272	-35	-65	-2	-1	0	656	1,254	**19,972**
3. Punchbowl-Sheridan-Date	17,245	6,526	3,939	1,057	-2,158	701	3,152	417	5,892	1,996	301	416	12	610	-19	187	-36	28	43	125	1	14	26	275	1,064	**41,814**
4. Waikīkī	10,051	648	169	-3,717	-105	91	1,797	493	2,956	891	44	152	4	241	23	39	7	219	-98	-243	-22	-4	8	-214	983	**14,413**
5. Kāhala- Tantalus	12,345	3,087	1,101	932	440	777	2,542	221	2,888	1,133	63	155	0	368	-39	57	12	120	-20	-52	-8	3	-2	-219	286	**26,190**
6. Pauoa-Kalihi	947	1,760	2,788	2,036	885	249	-1,978	-1,805	5,474	1,838	177	249	20	726	-142	62	-38	192	19	58	15	3	10	86	901	**14,532**
7. Iwilei-Māpunapuna-Airport	2,642	2,160	1,980	1,676	548	-99	-596	-1,504	2,946	913	114	234	5	341	-111	37	0	106	4	-41	-4	4	2	161	532	**12,050**
8. Hickam-Pearl Harbor	1,099	358	302	259	95	144	-94	-704	1,668	-48	13	110	6	593	20	-27	0	2	3	17	-3	-1	0	41	63	**3,916**
9. Moanalua-Hālawa	24,898	6,946	6,539	4,991	1,767	3,729	9,994	7,806	13,343	9,352	627	1,790	141	2,939	1,193	773	691	298	707	1,223	67	51	66	723	1,604	**102,258**
10. "Aiea-Pearl City	33,330	8,872	8,511	7,348	2,361	4,380	16,312	11,854	24,707	10,443	1,999	6,787	397	8,928	1,847	1,778	1,550	468	934	2,109	95	105	257	882	3,574	**159,828**
11. Honoʻuliʻuli - "Ewa Beach	35,167	12,431	14,982	44,660	5,034	4,597	11,209	13,031	12,685	11,469	12,184	47,044	2,358	9,306	2,116	3,073	3,277	1,030	1,447	3,514	573	435	4,667	1,904	13,509	**271,702**
12. Kapolei-Ko "Olina - Kalaeloa	31,495	11,140	13,045	42,188	4,695	4,217	9,892	12,195	11,128	11,023	11,732	54,258	2,699	9,872	2,266	3,028	3,151	994	1,277	2,999	565	425	5,711	1,879	11,987	**263,861**
13. Makakilo - Makaiwa	5,960	1,910	2,222	5,151	565	526	1,277	1,516	3,031	2,503	874	3,089	103	1,424	205	462	481	143	91	80	17	54	327	167	2,451	**34,629**
14. Waipahu - Waikele - Kunia	18,480	3,708	12,218	22,184	1,398	1,635	4,988	5,590	7,613	7,207	1,912	7,211	399	3,334	784	1,512	1,390	261	431	851	63	120	126	502	4,164	**108,081**
15. Waiawa-Koa Ridge	12,263	2,721	8,574	17,465	979	1,126	3,250	4,114	6,705	3,683	1,828	6,567	398	4,242	-2,416	878	623	197	308	728	43	51	228	311	2,367	**77,233**
16. Mililani - Meleman-Kīpapa	9,656	3,400	4,101	3,961	1,168	1,133	2,822	4,224	8,264	6,485	2,074	7,144	397	2,579	-1,043	1,632	852	276	175	418	39	181	302	392	3,787	**64,419**
17. Wahiawā-Whitmore-Schofield	3,440	1,357	1,211	1,249	292	335	1,055	1,075	3,189	1,394	565	2,342	110	728	-331	1,975	940	72	36	134	11	79	112	93	1,191	**22,654**
18. East Honolulu	-2,040	1,579	1,594	1,778	-199	-257	253	-708	2,117	593	60	150	7	204	-160	-10	-94	-134	-104	-211	-44	-13	8	-359	-293	**3,717**
19. Kāneʻohe - Kahaluʻu - Kualoa	76	183	1,553	1,812	340	-38	-622	-1,343	2,315	373	127	427	6	520	-141	0	-37	90	-21	-9	-1	42	25	31	984	**6,692**
20. Kailua - Mokapu-Waimānalo	529	533	1,619	1,650	359	87	-391	-667	3,054	1,263	69	43	-12	395	-188	-25	-143	54	-15	584	-2	11	-15	84	860	**9,736**
21. Koʻolauloa	154	68	308	436	157	10	-192	-118	527	89	13	60	2	129	36	56	116	36	0	-4	0	300	-8	22	888	**3,085**
22. North Shore	3,858	1,315	1,666	1,745	453	278	603	778	2,051	895	274	892	29	606	-8	389	915	127	21	101	26	315	43	182	1,736	**19,290**
23. Waiʻanae Coast	5,329	2,619	2,986	3,276	1,046	513	622	1,974	5,884	2,401	546	2,707	51	2,177	586	595	755	276	153	-11	-43	92	1,812	302	4,886	**41,534**
24. Mānoa - Tantalus	-739	2,674	1,102	468	-290	-387	-920	-553	2,665	733	49	153	0	224	-166	-29	-110	50	-100	-157	-11	-4	-10	22	184	**4,848**
25. University	2,564	1,262	1,262	846	-10	276	611	161	617	240	31	56	1	24	23	5	-1	44	28	37	0	0	0	8	37	**8,122**
Total	**232,431**	**78,453**	**99,931**	**166,953**	**21,270**	**24,920**	**67,274**	**57,689**	**138,804**	**79,444**	**35,968**	**142,576**	**7,170**	**51,161**	**4,166**	**16,543**	**14,269**	**5,417**	**5,283**	**12,169**	**1,375**	**2,264**	**13,701**	**8,040**	**59,988**	**1,347,259**

Table 147: Fixed Guideway Alternative Combination 2 vs. No Build for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. ʻʻAiea-Pearl City	11. Honoʻuliʻuli - ʻʻEwa Beach	12. Kapolei-Ko ʻʻOlina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāneʻohe - Kahaluʻu - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Koʻolauloa	22. North Shore	23. Waiʻanae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	-1,050	1,644	3,849	4,769	508	117	1,449	4,360	911	1,089	145	387	17	287	-87	38	-3	45	53	694	10	6	8	593	934	**20,773**
2. Kaka 'ako	1,389	107	280	3,570	-444	743	3,573	4,949	1,780	1,312	128	348	31	312	-5	83	70	93	74	540	3	11	9	949	880	**20,785**
3. Punchbowl-Sheridan-Date	17,303	6,871	3,615	1,652	-2,527	1,743	7,387	7,331	3,417	2,356	300	553	9	663	71	257	37	69	210	988	27	74	39	596	561	**53,602**
4. Waikīkī	11,581	2,779	1,474	-5,233	-1,093	1,192	4,352	4,496	2,185	1,261	77	304	5	374	89	99	88	57	125	425	27	9	14	466	177	**25,330**
5. Kāhala- Tantalus	9,329	2,573	872	-2,486	241	1,244	3,867	3,597	1,596	1,241	61	297	6	416	39	99	100	170	56	316	16	23	1	660	358	**24,692**
6. Pauoa-Kalihi	2,375	2,823	2,929	3,476	468	702	-673	7,222	2,024	1,941	170	462	22	748	-40	126	84	117	421	838	53	25	16	377	696	**27,402**
7. Iwilei-Māpunapuna-Airport	3,917	2,568	2,471	2,913	303	157	-610	4,288	1,369	1,050	111	267	4	337	-26	43	45	61	201	274	15	10	7	416	548	**20,739**
8. Hickam-Pearl Harbor	4,054	1,008	938	1,001	252	566	2,032	3,920	2,964	1,182	72	277	19	2,331	905	131	112	28	120	128	14	11	8	122	212	**22,407**
9. Moanalua-Hālawa	12,795	3,728	3,763	3,580	849	1,369	6,278	14,204	6,011	4,766	409	1,243	95	2,015	652	487	390	131	300	528	37	42	43	507	995	**65,217**
10. ʻʻAiea-Pearl City	32,110	8,495	8,608	8,381	2,332	4,373	18,529	29,954	20,453	13,974	2,270	7,824	392	9,801	2,312	2,101	1,886	437	1,719	1,828	175	167	349	914	3,595	**182,979**
11. Honoʻuliʻuli - ʻʻEwa Beach	20,249	6,294	8,819	25,441	2,729	2,721	7,646	14,194	8,949	7,805	8,653	34,086	2,048	5,569	1,361	1,782	1,924	555	760	2,072	258	294	2,747	1,140	8,526	**176,622**
12. Kapolei-Ko ʻʻOlina - Kalaeloa	29,269	9,823	11,968	39,061	3,859	3,845	10,931	14,712	10,030	10,034	11,071	60,373	3,426	9,537	2,190	2,919	3,082	790	1,063	2,501	479	376	6,589	1,531	9,996	**259,455**
13. Makakilo - Makaiwa	3,754	1,540	1,881	8,097	560	432	1,480	4,101	2,214	2,326	1,650	5,767	399	1,681	313	537	569	110	131	369	69	67	541	252	2,258	**41,098**
14. Waipahu - Waikele - Kunia	17,358	3,483	11,857	27,938	1,291	1,557	5,345	10,267	6,844	7,574	2,286	8,945	522	5,077	1,587	1,718	1,600	220	499	769	106	181	216	527	3,694	**121,461**
15. Waiawa-Koa Ridge	14,699	3,212	9,547	24,954	1,065	1,365	4,864	8,368	5,971	4,394	2,014	6,785	397	6,175	-505	2,810	2,876	208	447	809	101	242	285	409	2,531	**104,023**
16. Mililani - Meleman-Kīpapa	9,196	3,532	4,602	6,172	1,183	1,217	4,181	11,466	7,414	6,692	2,215	8,070	421	3,388	113	3,370	3,328	227	446	834	220	440	373	534	3,839	**83,473**
17. Wahiawā-Whitmore-Schofield	2,869	1,149	1,144	1,786	237	334	1,583	3,718	2,532	1,537	601	2,681	139	992	-345	1,888	1,585	51	87	420	108	300	153	141	1,009	**26,699**
18. East Honolulu	-2,687	1,531	1,960	9	862	-202	427	1,766	391	451	43	170	19	171	-49	2	-13	443	14	289	7	8	6	-67	-131	**5,420**
19. Kāneʻohe - Kahaluʻu - Kualoa	-4,092	-842	-863	223	-601	132	-1,085	3,146	680	1,926	145	538	13	750	83	123	125	-89	1,026	1,709	-51	43	32	67	-153	**2,985**
20. Kailua - Mokapu-Waimānalo	-474	-303	-410	141	-513	89	-933	1,950	-448	411	3	70	-4	130	5	13	10	-16	425	3,751	124	32	-23	161	-55	**4,136**
21. Koʻolauloa	555	140	64	60	-92	97	-71	995	59	180	13	125	5	139	50	64	138	-19	79	448	1,235	366	-3	69	64	**4,760**
22. North Shore	2,904	1,159	1,616	2,427	417	285	858	2,669	1,471	1,011	286	913	35	663	59	434	1,169	90	97	473	457	721	61	224	1,608	**22,107**
23. Waiʻanae Coast	5,194	2,616	3,310	5,620	1,024	592	1,694	12,245	4,770	2,918	916	2,396	147	2,913	795	723	930	195	241	1,010	6	134	2,413	501	4,621	**57,924**
24. Mānoa - Tantalus	4,692	2,835	2,197	4,134	749	141	2,936	3,769	1,370	1,140	80	280	10	320	-50	34	-15	86	169	602	33	10	1	643	947	**27,113**
25. University	2,728	1,093	1,134	326	10	350	896	617	473	254	29	43	2	23	24	5	0	27	50	76	0	0	0	87	26	**8,273**
Total	**200,017**	**69,858**	**87,625**	**168,012**	**13,669**	**25,161**	**86,936**	**178,304**	**95,430**	**78,825**	**33,748**	**143,204**	**8,179**	**54,812**	**9,541**	**19,886**	**20,117**	**4,086**	**8,813**	**22,691**	**3,529**	**3,592**	**13,885**	**11,819**	**47,736**	**1,409,475**

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Table 148: Fixed Guideway Alternative Combination 2 vs. TSM for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Hono'uli'uli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāne'ohe - Kahalu'u - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Ko'olauloa	22. North Shore	23. Wai'anae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	-1,255	1,147	3,487	4,694	446	-159	1,383	4,327	1,494	647	111	241	9	225	-191	-15	-99	107	0	-8	0	2	7	174	834	**17,608**
2. Kaka 'ako	1,897	-268	33	3,308	-667	603	3,558	4,901	3,525	920	109	209	5	213	-56	25	5	85	-35	-57	-2	0	3	326	801	**19,441**
3. Punchbowl-Sheridan-Date	14,075	5,154	1,692	1,720	-3,379	1,246	6,504	7,015	5,209	1,629	245	332	7	512	-45	156	-51	-226	19	39	-3	34	37	215	263	**42,399**
4. Waikīkī	11,581	2,951	1,620	-4,956	-1,235	1,077	4,251	4,431	3,089	956	67	195	3	279	22	50	21	58	53	99	-2	-1	13	-7	111	**24,726**
5. Kāhala- Tantalus	7,276	1,982	-419	-2,672	-275	989	3,468	3,383	2,398	905	50	149	-1	284	-56	40	-8	-52	-59	-160	-12	9	0	-269	141	**17,091**
6. Pauoa-Kalihi	515	1,705	2,332	3,226	363	212	-1,180	6,868	3,606	1,077	135	198	6	524	-232	10	-72	117	-3	3	9	4	16	120	649	**20,208**
7. Iwilei-Māpunapuna-Airport	3,270	2,277	2,152	2,840	278	57	-516	4,304	1,999	653	94	170	3	277	-106	-6	-15	63	19	-63	-7	4	7	207	483	**18,444**
8. Hickam-Pearl Harbor	4,075	1,012	952	1,022	253	563	2,000	3,668	2,931	1,000	71	312	22	2,265	780	113	100	29	90	138	9	9	9	138	220	**21,781**
9. Moanalua-Hālawa	13,469	3,828	3,873	3,669	896	1,493	6,449	11,650	4,681	4,836	395	1,183	77	2,042	661	452	375	144	122	245	8	30	45	452	1,007	**62,082**
10. "Aiea-Pearl City	31,950	8,400	8,401	8,060	2,111	4,165	18,177	29,084	21,472	10,113	2,051	7,487	362	8,866	1,929	1,887	1,648	403	799	1,479	61	100	324	890	3,355	**173,574**
11. Hono'uli'uli - "Ewa Beach	17,129	5,465	7,785	23,344	2,384	2,225	6,336	13,916	9,148	7,453	3,741	18,615	876	3,259	1,013	1,547	1,589	524	558	677	78	221	1,985	992	8,208	**139,068**
12. Kapolei-Ko "Olina - Kalaeloa	29,219	10,062	12,388	41,822	4,085	3,880	10,251	16,523	10,407	10,936	9,341	43,997	2,404	9,469	2,153	2,963	3,086	851	1,119	2,089	362	418	5,519	1,737	10,826	**245,907**
13. Makakilo - Makaiwa	4,094	1,274	1,590	5,673	276	333	1,192	3,934	2,134	2,237	722	1,851	105	1,189	144	382	384	76	31	-135	-23	45	327	91	1,610	**29,536**
14. Waipahu - Waikele - Kunia	16,142	3,187	11,056	25,021	1,178	1,473	5,151	10,391	6,940	6,871	1,654	7,697	354	2,611	480	1,386	1,262	213	327	537	35	89	170	456	3,600	**108,281**
15. Waiawa-Koa Ridge	10,952	2,531	8,082	20,288	834	1,052	3,592	8,488	6,125	3,757	1,786	6,898	371	3,888	-2,568	616	589	169	247	524	27	50	292	298	2,081	**80,969**
16. Mililani - Meleman-Kīpapa	7,675	2,863	3,721	5,051	868	897	3,249	11,306	7,392	6,586	2,053	7,823	381	2,447	-1,705	1,417	852	192	98	61	39	181	377	354	3,174	**67,352**
17. Wahiawā-Whitmore-Schofield	2,710	1,093	1,035	1,682	181	292	1,356	3,665	2,838	1,395	556	2,497	114	707	-465	1,511	1,071	42	13	42	11	79	147	85	951	**23,608**
18. East Honolulu	-2,770	1,307	160	644	-200	-177	492	1,767	1,348	185	25	7	2	95	-170	-86	-137	-133	-118	-217	-47	-10	1	-357	-320	**1,291**
19. Kāne'ohe - Kahalu'u - Kualoa	-62	-137	-299	612	-457	-39	-855	2,597	1,259	120	107	342	4	460	-154	-21	-53	-41	-22	-9	-1	2	37	-9	13	**3,394**
20. Kailua - Mokapu-Waimānalo	-181	-154	-351	128	-569	52	-1,131	2,005	1,127	-235	-28	-257	-35	-25	-231	-118	-173	-62	-17	584	-2	3	-26	-17	-71	**216**
21. Ko'olauloa	-26	-47	-112	-209	-146	11	-255	845	292	2	5	19	-1	83	-12	2	5	-26	0	-4	0	29	-7	2	-71	**379**
22. North Shore	2,081	865	1,297	2,056	305	165	530	2,448	1,563	852	264	876	31	520	-118	215	523	79	11	33	26	100	55	141	1,347	**16,265**
23. Wai'anae Coast	5,721	2,808	3,471	6,094	985	652	1,779	12,355	5,574	2,883	752	1,357	49	2,460	694	708	924	234	173	-24	-46	110	1,812	394	4,823	**56,742**
24. Mānoa - Tantalus	398	544	940	2,790	-538	-174	1,398	3,211	2,193	626	39	92	-2	188	-173	-33	-114	-16	-21	-29	-2	-2	-6	22	178	**11,509**
25. University	1,986	990	937	287	-52	278	708	573	540	203	27	27	1	17	14	4	-2	-3	13	14	0	0	0	-5	11	**6,568**
Total	**181,921**	**60,839**	**75,823**	**156,194**	**7,925**	**21,166**	**77,887**	**173,655**	**109,284**	**66,607**	**24,372**	**102,317**	**5,147**	**42,855**	**1,608**	**13,205**	**11,710**	**2,827**	**3,417**	**5,858**	**518**	**1,506**	**11,144**	**6,430**	**44,224**	**1,208,439**

Table 149: Fixed Guideway Alternative Combination 3 vs. No Build for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Hono'uli'uli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāne'ohe - Kahalu'u - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Ko'olauloa	22. North Shore	23. Wai'anae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	33	1,315	2,519	2,041	291	207	1,003	4,052	457	956	141	271	20	271	-84	41	14	16	44	691	9	5	2	607	947	**15,869**
2. Kaka 'ako	1,773	20	2,874	998	602	1,510	5,628	6,007	2,566	1,620	147	412	50	429	61	132	99	243	74	538	2	19	4	1,287	1,336	**28,431**
3. Punchbowl-Sheridan-Date	12,333	9,653	6,066	1,270	-1,927	1,619	7,916	7,563	3,628	2,446	324	559	15	707	89	270	44	149	212	955	20	67	30	777	1,062	**55,847**
4. Waikīkī	-2,875	-38	-1,624	-2,075	394	43	2,143	3,194	1,207	859	30	179	4	209	47	55	56	108	42	330	20	9	1	454	809	**3,581**
5. Kāhala- Tantalus	7,007	4,687	2,296	3,135	1,113	1,312	4,429	3,827	1,758	1,348	67	268	6	455	45	111	109	233	106	398	19	24	-3	954	641	**34,345**
6. Pauoa-Kalihi	2,710	3,162	2,930	1,666	726	798	250	7,855	2,468	2,360	193	448	35	840	-7	161	93	161	442	865	57	27	7	453	920	**29,620**
7. Iwilei-Māpunapuna-Airport	3,488	4,064	3,131	2,441	558	190	155	4,934	1,931	1,271	130	307	6	386	-21	69	45	96	220	290	16	10	4	614	705	**25,040**
8. Hickam-Pearl Harbor	3,753	1,067	935	972	256	574	2,039	4,084	2,905	1,155	72	283	20	2,341	901	131	111	28	119	125	14	11	8	125	220	**22,249**
9. Moanalua-Hālawa	10,700	4,184	3,735	3,042	869	1,444	6,537	14,982	6,037	4,784	421	1,208	101	2,062	670	498	390	142	311	525	38	42	40	560	1,105	**64,427**
10. "Aiea-Pearl City	30,231	8,895	8,629	7,790	2,382	4,466	18,884	30,962	20,516	13,978	2,298	7,303	434	10,109	2,376	2,108	1,887	460	1,724	1,821	174	168	290	956	3,780	**182,621**
11. Hono'uli'uli - "Ewa Beach	32,640	11,777	13,685	43,213	4,381	4,303	12,201	18,366	11,425	11,187	16,044	55,255	3,215	10,628	2,348	3,116	3,383	895	1,248	2,949	461	440	5,104	1,688	12,031	**281,983**
12. Kapolei-Ko "Olina - Kalaeloa	30,080	10,629	12,563	40,224	4,032	4,076	11,613	15,352	10,429	10,295	12,801	67,164	3,742	9,817	2,271	2,980	3,113	848	1,085	2,582	509	387	6,639	1,653	10,884	**275,768**
13. Makakilo - Makaiwa	4,157	2,259	2,464	7,819	753	615	2,059	4,756	2,699	2,708	1,909	7,164	399	2,014	398	658	695	157	180	421	91	79	541	364	3,064	**48,423**
14. Waipahu - Waikele - Kunia	16,573	3,975	12,360	24,718	1,345	1,653	5,753	10,766	7,120	7,968	2,547	8,361	577	5,786	1,891	1,860	1,729	239	532	786	108	211	175	589	4,036	**121,658**
15. Waiawa-Koa Ridge	13,766	3,451	9,543	22,968	1,082	1,372	4,978	8,476	6,019	4,401	2,040	6,554	427	6,519	-354	3,087	2,910	216	448	807	102	243	237	440	2,762	**102,494**
16. Mililani - Meleman-Kīpapa	7,299	4,107	4,655	5,122	1,239	1,281	4,522	11,765	7,476	6,704	2,233	7,437	441	3,565	762	3,649	3,453	255	459	838	220	440	304	620	4,465	**83,311**
17. Wahiawā-Whitmore-Schofield	2,243	1,361	1,157	1,324	262	343	1,698	3,779	2,551	1,538	614	2,498	140	1,009	-255	1,888	1,585	61	89	418	108	300	118	169	1,178	**26,176**
18. East Honolulu	-2,972	2,623	2,856	1,445	1,086	-157	886	2,025	610	528	51	206	20	208	-41	10	21	427	-17	275	-5	8	-1	41	-62	**10,071**
19. Kāne'ohe - Kahalu'u - Kualoa	-4,193	-841	-934	-1,050	-599	131	-884	3,307	771	1,969	154	575	14	778	89	129	125	-78	1,026	1,709	-51	43	17	94	-60	**2,241**
20. Kailua - Mokapu-Waimānalo	-597	-299	-480	-838	-485	59	-767	2,094	-369	425	11	61	3	219	7	15	10	-15	425	3,751	124	32	-30	181	1	**3,538**
21. Ko'olauloa	519	137	33	-152	-77	96	-36	1,058	83	181	17	135	6	151	56	64	138	-3	79	448	1,235	366	-5	77	98	**4,704**
22. North Shore	2,438	1,257	1,628	1,953	439	285	897	2,711	1,484	1,011	288	876	34	693	62	434	1,169	100	103	472	457	721	48	262	1,788	**21,610**
23. Wai'anae Coast	1,005	2,343	2,377	2,627	769	324	1,148	10,655	3,974	2,502	710	3,766	156	2,630	687	629	761	167	174	835	-13	117	2,413	467	4,284	**45,507**
24. Mānoa - Tantalus	5,541	3,990	2,434	2,884	1,185	293	3,459	4,309	1,864	1,306	102	350	11	378	-32	54	-7	116	88	522	24	11	0	936	1,070	**30,888**
25. University	2,394	1,412	1,331	801	59	353	1,005	661	512	271	31	65	1	28	29	6	1	31	66	89	0	0	0	106	63	**9,315**
Total	**180,046**	**85,190**	**97,163**	**174,338**	**20,735**	**27,190**	**97,516**	**187,540**	**100,121**	**83,771**	**43,375**	**171,705**	**9,877**	**62,232**	**11,995**	**22,155**	**21,934**	**5,052**	**9,279**	**23,440**	**3,739**	**3,780**	**15,943**	**14,474**	**57,127**	**1,529,717**

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Table 150: Fixed Guideway Alternative Combination 3 vs. TSM for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Honoʻuliʻuli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāneʻohe - Kahaluʻu - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Koʻolauloa	22. North Shore	23. Waiʻanae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	-173	818	2,157	1,967	229	-68	937	4,019	1,040	514	107	125	11	209	-189	-13	-82	78	-8	-15	0	2	0	188	848	**12,701**
2. Kaka 'ako	2,281	-355	2,628	736	379	1,370	5,613	5,962	4,311	1,229	129	272	25	330	10	74	35	236	-35	-50	-2	8	-3	665	1,257	**27,105**
3. Punchbowl-Sheridan-Date	9,105	7,936	4,143	1,338	-2,778	1,123	7,032	7,259	5,419	1,723	270	343	12	554	-26	170	-43	-146	22	19	-10	26	27	396	765	**44,679**
4. Waikīkī	-2,875	134	-1,479	-1,797	252	-71	2,041	3,129	2,111	535	19	69	2	114	-20	6	-11	109	-30	-67	-10	-1	0	-20	744	**2,884**
5. Kāhala- Tantalus	4,955	4,095	1,005	2,949	597	1,057	4,030	3,615	2,560	1,013	56	120	0	324	-49	52	1	11	-9	-22	-9	10	-5	25	425	**26,806**
6. Pauoa-Kalihi	851	2,045	2,333	1,417	621	309	-257	7,501	4,051	1,497	157	185	19	616	-198	44	-63	161	18	45	13	5	6	196	873	**22,445**
7. Iwilei-Māpunapuna-Airport	2,842	3,774	2,812	2,368	533	91	248	4,951	2,561	874	113	210	4	326	-102	20	-14	99	38	-30	-6	4	4	405	640	**22,765**
8. Hickam-Pearl Harbor	3,736	1,094	944	977	261	572	2,021	3,857	2,873	972	71	309	27	2,294	776	113	99	29	91	133	9	9	8	144	246	**21,665**
9. Moanalua-Hālawa	11,416	4,278	3,847	3,135	920	1,567	6,705	12,454	4,707	4,854	410	1,156	88	2,095	677	464	376	156	138	238	9	31	41	507	1,097	**61,366**
10. "Aiea-Pearl City	29,639	8,966	8,424	7,370	2,163	4,281	18,602	30,129	21,538	10,117	2,093	6,973	416	9,215	1,996	1,895	1,648	432	841	1,466	60	101	263	958	3,640	**173,226**
11. Honoʻuliʻuli - "Ewa Beach	30,486	12,069	14,151	42,730	4,592	4,333	11,713	18,616	11,789	11,294	11,511	44,323	2,433	8,975	2,045	2,997	3,129	939	1,288	2,322	352	421	4,460	1,906	12,943	**261,817**
12. Kapolei-Ko "Olina - Kalaeloa	28,544	11,175	12,793	42,591	4,262	4,060	10,795	17,257	10,897	11,084	11,373	52,227	2,731	9,776	2,232	3,016	3,099	915	1,139	2,072	376	422	5,594	1,951	12,091	**262,472**
13. Makakilo - Makaiwa	4,495	2,006	2,145	5,394	464	510	1,770	4,782	2,613	2,628	987	3,286	104	1,509	226	502	513	121	76	-27	-4	57	327	201	2,417	**37,102**
14. Waipahu - Waikele - Kunia	15,342	3,696	11,572	21,820	1,241	1,568	5,566	10,920	7,219	7,273	1,921	7,074	414	3,334	785	1,528	1,390	234	367	572	38	120	126	532	3,997	**108,649**
15. Waiawa-Koa Ridge	10,037	2,751	8,072	17,450	849	1,059	3,724	8,687	6,176	3,765	1,831	6,482	408	4,242	-2,416	899	623	177	256	524	28	51	228	336	2,321	**78,560**
16. Mililani - Meleman-Kīpapa	5,778	3,440	3,774	4,000	924	962	3,591	11,611	7,453	6,601	2,086	7,090	408	2,630	-1,056	1,695	976	221	113	63	39	181	302	440	3,800	**67,122**
17. Wahiawā-Whitmore-Schofield	2,083	1,305	1,048	1,220	206	301	1,471	3,726	2,857	1,396	569	2,354	113	723	-374	1,511	1,071	52	16	40	11	79	112	112	1,119	**23,121**
18. East Honolulu	-3,054	2,399	1,055	2,080	24	-132	952	2,026	1,568	261	34	43	3	133	-163	-78	-103	-150	-149	-248	-59	-10	-6	-249	-250	**5,927**
19. Kāneʻohe - Kahaluʻu - Kualoa	-164	-136	-370	-660	-455	-40	-654	2,759	1,350	165	116	380	5	489	-147	-15	-52	-30	-22	-9	-1	2	22	18	105	**2,656**
20. Kailua - Mokapu-Waimānalo	-306	-150	-424	-898	-541	22	-961	2,152	1,211	-220	-19	-261	-28	73	-229	-117	-173	-60	-17	584	-2	3	-32	3	0	**-390**
21. Koʻolauloa	-62	-51	-143	-421	-131	10	-219	907	316	3	8	29	0	95	-6	2	5	-11	0	-4	0	29	-10	10	-36	**320**
22. North Shore	1,615	963	1,309	1,582	327	166	569	2,490	1,577	852	266	835	27	551	-115	215	523	89	17	33	26	100	40	179	1,527	**15,763**
23. Waiʻanae Coast	1,532	2,535	2,538	3,101	730	384	1,234	10,763	4,894	2,449	546	2,727	58	2,177	586	611	755	206	105	-239	-65	92	1,812	359	4,486	**44,376**
24. Mānoa - Tantalus	1,248	1,699	1,176	1,541	-102	-22	1,921	3,755	2,687	794	61	162	0	246	-155	-13	-106	14	-102	-153	-11	0	-7	315	301	**15,249**
25. University	1,653	1,309	1,133	762	-2	281	817	619	580	222	30	51	1	22	19	5	-1	1	29	38	0	0	0	14	48	**7,631**
Total	**161,004**	**77,795**	**86,643**	**162,752**	**15,565**	**23,693**	**89,261**	**183,946**	**114,358**	**71,895**	**34,745**	**136,564**	**7,281**	**51,052**	**4,107**	**15,583**	**13,595**	**3,883**	**4,182**	**7,285**	**782**	**1,742**	**13,309**	**9,591**	**55,404**	**1,346,017**

Table 151: Fixed Guideway 20-mile Alignment vs. No Build for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. ‘Aiea-Pearl City	11. Hono‘uli‘uli - ‘Ewa Beach	12. Kapolei-Ko ‘Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāne‘ohe - Kahalu‘u - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Ko‘olauloa	22. North Shore	23. Wai‘anae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	-126	1,070	2,008	1,099	81	185	902	3,695	349	956	163	132	15	294	-85	41	14	-62	52	693	10	5	-3	547	79	**12,114**
2. Kaka 'ako	1,462	-1,215	1,959	1,013	426	1,682	5,731	6,140	2,468	1,667	179	220	45	459	71	134	103	45	78	547	3	23	-6	1,231	-74	**24,391**
3. Punchbowl-Sheridan-Date	3,190	2,412	2,808	-628	467	-105	2,633	5,671	1,406	1,692	246	154	6	551	-41	116	-20	275	167	875	28	43	1	592	-44	**22,495**
4. Waikīkī	-3,536	-916	-351	-481	-50	-284	819	3,172	995	837	61	86	4	238	7	59	1	-59	60	357	24	10	-6	527	-14	**1,560**
5. Kāhala- Tantalus	2,491	793	2,358	674	1,002	276	2,108	2,683	771	894	53	38	1	333	1	71	62	250	87	348	24	19	-12	1,071	669	**17,065**
6. Pauoa-Kalihi	2,407	3,435	2,060	1,296	255	794	1,008	8,341	3,223	2,478	228	217	35	950	-3	156	112	-7	419	839	53	28	-3	391	0	**28,712**
7. Iwilei-Māpunapuna-Airport	3,410	4,033	2,526	2,622	269	226	62	4,929	1,864	1,270	139	139	4	403	-22	66	45	-6	218	287	16	10	1	549	68	**23,128**
8. Hickam-Pearl Harbor	3,726	1,060	917	1,002	228	583	2,023	4,051	2,831	1,131	73	218	19	2,362	900	129	111	20	119	124	14	11	7	124	181	**21,964**
9. Moanalua-Hālawa	11,009	4,194	3,595	3,276	679	1,552	6,693	14,215	5,879	4,730	408	965	90	2,096	667	482	387	53	279	431	27	43	35	564	559	**62,908**
10. ‘Aiea-Pearl City	30,049	8,861	8,444	8,169	2,217	4,518	18,848	30,835	20,208	13,928	2,303	5,523	407	10,410	2,374	2,182	1,886	302	1,723	1,785	174	168	229	954	2,732	**179,229**
11. Hono‘uli‘uli - ‘Ewa Beach	28,843	10,530	12,254	37,564	3,684	3,937	11,464	17,377	10,699	10,289	14,399	40,315	2,466	9,624	2,227	2,868	3,319	626	1,133	3,014	425	409	2,886	1,604	8,440	**240,396**
12. Kapolei-Ko ‘Olina - Kalaeloa	14,640	6,059	6,661	22,642	1,997	2,163	5,818	10,899	6,906	6,857	8,136	29,072	1,980	5,916	1,380	1,860	1,992	306	592	1,307	278	280	1,911	1,012	4,628	**145,292**
13. Makakilo - Makaiwa	2,736	1,838	1,753	7,007	473	471	1,562	4,306	2,321	2,398	1,489	3,842	331	1,688	284	588	637	38	139	279	73	81	301	312	1,043	**35,990**
14. Waipahu - Waikele - Kunia	16,739	4,007	11,991	26,830	1,255	1,687	5,809	10,888	7,053	8,027	2,312	4,815	413	5,954	2,021	1,952	1,769	162	541	743	106	203	129	600	2,729	**118,735**
15. Waiawa-Koa Ridge	13,736	3,423	9,162	23,832	973	1,392	4,980	8,448	5,951	4,397	2,056	4,926	389	6,629	-354	3,139	2,910	154	446	781	102	243	178	440	1,785	**100,118**
16. Mililani - Meleman-Kīpapa	7,129	3,993	4,349	5,515	1,102	1,311	4,534	11,673	7,288	6,713	2,143	5,348	402	3,655	657	3,396	3,329	88	454	802	220	440	229	609	2,225	**77,604**
17. Wahiawā-Whitmore-Schofield	2,236	1,354	1,104	1,536	218	354	1,696	3,775	2,494	1,537	649	1,736	121	1,125	-255	1,888	1,585	11	89	394	108	300	86	180	238	**24,559**
18. East Honolulu	90	291	1,847	-842	802	-127	-662	1,492	-16	204	64	-9	7	190	-26	-15	2	585	132	376	54	20	-23	309	274	**5,019**
19. Kāne‘ohe - Kahalu‘u - Kualoa	-4,174	-832	-865	-865	-272	141	-758	3,635	997	2,064	181	276	12	841	93	130	131	-48	1,026	1,709	-51	43	3	80	-165	**3,332**
20. Kailua - Mokapu-Waimānalo	-570	-292	-409	-618	-138	42	-746	2,448	-302	454	38	-162	2	288	10	14	10	40	425	3,751	124	32	-35	162	-18	**4,550**
21. Ko‘olauloa	523	145	61	-102	-1	96	-17	1,191	155	227	27	88	6	165	64	64	138	8	79	448	1,235	366	-8	70	101	**5,129**
22. North Shore	2,430	1,257	1,513	2,161	388	289	895	2,706	1,451	1,011	303	695	29	722	62	434	1,169	24	102	467	457	721	39	269	762	**20,356**
23. Wai‘anae Coast	1,012	2,365	1,982	3,333	535	364	1,176	10,689	3,853	2,510	674	2,185	188	2,644	578	651	807	-21	170	758	-11	128	2,940	488	963	**40,961**
24. Mānoa - Tantalus	4,602	3,369	2,155	2,807	1,627	-125	2,962	4,087	1,452	1,236	106	96	8	372	-46	50	-13	147	131	567	28	11	-6	896	1,002	**27,521**
25. University	856	201	345	123	104	61	179	315	151	129	7	6	0	10	-8	1	-6	32	29	64	0	0	0	92	42	**2,733**
Total	**144,910**	**61,435**	**80,227**	**148,965**	**18,321**	**21,483**	**79,719**	**177,661**	**90,447**	**77,636**	**36,437**	**100,921**	**6,980**	**57,919**	**10,556**	**20,456**	**20,480**	**2,963**	**8,690**	**21,746**	**3,521**	**3,637**	**8,873**	**13,673**	**28,205**	**1,245,861**

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Table 152: Fixed Guideway 20-mile Alignment vs. TSM for Home-based Work TAA to TAA User Benefits

Origin	Destination																									Total
	1. Ward-Chinatown	2. Kaka 'ako	3. Punchbowl-Sheridan-Date	4. Waikīkī	5. Kāhala- Tantalus	6. Pauoa-Kalihi	7. Iwilei-Māpunapuna-Airport	8. Hickam-Pearl Harbor	9. Moanalua-Hālawa	10. "Aiea-Pearl City	11. Hono'uli'uli - "Ewa Beach	12. Kapolei-Ko "Olina - Kalaeloa	13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kīpapa	17. Wahiawā-Whitmore-Schofield	18. East Honolulu	19. Kāne'ohe - Kahalu'u - Kualoa	20. Kailua - Mokapu-Waimānalo	21. Ko'olauloa	22. North Shore	23. Wai'anae Coast	24. Mānoa - Tantalus	25. University	
1. Ward-Chinatown	-332	574	1,646	1,025	20	-90	836	3,663	932	513	130	-15	6	232	-189	-13	-82	0	0	-13	0	2	-4	127	-20	**8,948**
2. Kaka 'ako	1,970	-1,590	1,712	751	202	1,542	5,716	6,094	4,214	1,276	160	80	19	359	21	76	39	37	-30	-47	-2	12	-13	607	-152	**23,053**
3. Punchbowl-Sheridan-Date	-39	695	885	-560	-385	-601	1,749	5,338	3,198	960	192	-67	3	400	-156	16	-107	-20	-24	-106	-2	1	-2	211	-341	**11,238**
4. Waikīkī	-3,536	-744	-205	-204	-192	-399	717	3,108	1,899	521	51	-23	2	143	-59	11	-66	-58	-12	-20	-5	0	-8	53	-79	**895**
5. Kāhala- Tantalus	438	202	1,067	488	485	21	1,708	2,469	1,573	554	42	-110	-6	200	-93	12	-46	28	-27	-50	-4	4	-13	142	452	**9,536**
6. Pauoa-Kalihi	547	2,317	1,463	1,046	150	305	500	7,988	4,806	1,615	193	-46	19	726	-194	39	-44	-7	-5	2	9	6	-4	134	-47	**21,518**
7. Iwilei-Māpunapuna-Airport	2,763	3,742	2,207	2,549	243	127	155	4,946	2,494	873	122	42	3	343	-102	17	-14	-4	36	-36	-6	4	1	340	3	**20,848**
8. Hickam-Pearl Harbor	3,702	1,079	925	1,015	227	583	2,004	3,819	2,776	948	75	216	25	2,322	776	110	99	20	90	131	8	9	7	144	164	**21,274**
9. Moanalua-Hālawa	11,722	4,294	3,705	3,366	714	1,674	6,861	11,655	4,549	4,799	400	871	76	2,127	674	448	372	67	105	98	-1	31	36	512	568	**59,723**
10. "Aiea-Pearl City	29,401	8,899	8,193	7,787	1,981	4,333	18,562	29,992	21,174	10,067	2,131	5,001	381	9,532	1,994	1,971	1,648	256	838	1,414	60	101	197	951	2,335	**169,199**
11. Hono'uli'uli - "Ewa Beach	26,270	10,508	12,373	37,246	3,839	3,877	10,713	17,340	10,866	10,289	9,675	25,000	1,603	8,436	1,910	2,792	3,139	640	1,183	2,179	379	391	2,120	1,727	9,059	**213,554**
12. Kapolei-Ko "Olina - Kalaeloa	11,214	5,149	5,352	20,075	1,574	1,720	4,695	9,940	6,625	6,343	6,052	10,048	776	4,669	1,054	1,655	1,772	239	459	455	109	250	546	887	3,618	**105,276**
13. Makakilo - Makaiwa	3,112	1,487	1,337	4,238	142	351	1,294	4,188	2,218	2,258	532	-138	34	1,115	95	417	438	-6	22	-200	-24	52	86	133	266	**23,447**
14. Waipahu - Waikele - Kunia	15,498	3,727	11,188	23,975	1,126	1,602	5,620	11,023	7,142	7,337	1,720	3,299	237	3,516	915	1,620	1,430	151	374	524	36	111	78	538	2,552	**105,339**
15. Waiawa-Koa Ridge	10,009	2,722	7,667	18,547	730	1,080	3,725	8,634	6,081	3,755	1,853	4,308	356	4,365	-2,416	951	623	116	253	491	27	51	154	335	1,328	**75,745**
16. Mililani - Meleman-Kīpapa	5,608	3,326	3,467	4,394	786	991	3,602	11,517	7,273	6,608	2,068	4,522	349	2,716	-1,161	1,442	852	54	108	22	39	181	222	430	1,560	**60,976**
17. Wahiawā-Whitmore-Schofield	2,077	1,298	995	1,432	161	312	1,468	3,722	2,800	1,395	605	1,554	94	839	-374	1,511	1,071	2	15	15	11	79	80	123	179	**21,464**
18. East Honolulu	8	66	46	-207	-260	-101	-597	1,493	941	-62	47	-172	-11	115	-148	-103	-122	8	0	-6	0	2	-28	19	85	**1,013**
19. Kāne'ohe - Kahalu'u - Kualoa	-145	-128	-301	-475	-128	-30	-529	3,087	1,576	260	144	78	3	552	-144	-14	-47	0	-22	-9	-1	2	9	4	0	**3,742**
20. Kailua - Mokapu-Waimānalo	-279	-142	-349	-660	-181	4	-939	2,517	1,282	-190	5	-492	-29	144	-226	-118	-173	-1	-17	584	-2	3	-38	-16	-31	**656**
21. Ko'olauloa	-58	-42	-115	-371	-55	10	-201	1,041	388	49	19	-18	1	109	2	2	5	0	0	-4	0	29	-13	3	-34	**747**
22. North Shore	1,608	962	1,194	1,789	276	170	567	2,484	1,545	852	285	592	21	579	-115	215	523	14	16	26	26	100	32	186	501	**14,448**
23. Wai'anae Coast	1,539	2,557	2,143	3,806	496	424	1,261	10,798	4,755	2,455	510	1,146	89	2,191	477	637	801	18	99	-313	-63	104	2,339	381	1,165	**39,815**
24. Mānoa - Tantalus	308	1,077	897	1,463	340	-439	1,424	3,525	2,275	724	70	-91	-3	240	-169	-17	-112	45	-58	-98	-7	-1	-13	275	232	**11,887**
25. University	115	98	148	84	43	-11	-9	271	219	71	5	-9	-1	5	-17	0	-7	2	-8	-9	0	0	0	1	27	**1,018**
Total	**123,520**	**52,133**	**67,640**	**132,599**	**12,334**	**17,455**	**70,902**	**170,652**	**103,601**	**64,270**	**27,086**	**55,576**	**4,047**	**45,975**	**2,355**	**13,677**	**11,992**	**1,601**	**3,395**	**5,030**	**587**	**1,524**	**5,771**	**8,247**	**23,390**	**1,025,359**

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Appendix A Statistics for All Alternatives Evaluated

Table 153. System Wide Transit Summary by Alternative

Year	Total transit trips	Transit Mode Share	Fixed Guidewa y	Total Boardings
2005 Base Year	178,400	5.8%	-	243,100
2030 NoBuild	232,100	5.9%	-	330,600
2030 TSM	243,100	6.2%	-	354,200
2030 Build 1	292,800	7.4%	125,002	459,300
2030 Build 2	287,500	7.3%	116,455	459,300
2030 Build 3	288,700	7.3%	124,879	448,300
2030 Build 4	293,600	7.5%	128,462	468,800
2030 Build 5	287,800	7.3%	122,545	449,300
2030 Build 6	291,200	7.4%	122,132	461,900
2030 Build 7	294,100	7.5%	123,683	468,300
2030 MOS Option A	263,600	6.7%	68,425	420,100
2030 MOS Option B	270,800	6.9%	78,807	432,800
2030 MOS Option C	264,200	6.7%	76,126	424,700
2031 MOS Option D	278,400	7.1%	90,080	449,700
2032 MOS Option E	281,900	7.2%	94,969	455,300
2030 Managed Lanes 1	247,000	6.3%	-	363,700
2030 Managed Lanes 2	244,400	6.2%	-	363,700

Key to Option Alignments
Option 1 - Saratoga - Ft Weaver Rd/Makai Airport Viaduct/King St/Halekauwila - w/Waikīkī
Option 2 - Kapolei Pkwy/N-S Rd/Mauka Airport Viaduct/Dillingham/Beretania - S.King
Option 3 - Kamokila Blvd/Airport Aolele St/Dillingham St/Hotel - Waimanu - w/Waikīkī
Option 4 - Saratoga - N-S Rd/Salt Lake Blvd/King St/Hotel St/Kawaiaha‘o
Option 5 - Kamokila Blvd/Airport Aolele St/Dillingham St/King St Tunnel - Waimanu - w/Waikīkī
Option 6 - Kapolei Pkwy/N-S Rd/Makai Airport Viaduct/Dillingham/Halekauwila
Option 7 - Kapolei Pkwy/N-S Rd/Airport Aolele St/Dillingham/Halekauwila
MOS A - Mokuola TC - Airport Aolele St/Dillingham/Halekauwila
MOS B - UHWO (Farrington/N-S Rd) - Airport Aolele St/Dillingham/Hotel Street to Alakea/Richards
MOS C - Mokuola TC - Airport Aolele St/Dillingham/Halekauwila/Ala Moana Center
MOS D - UHWO (Farrington/N-S Rd) - Mokuola TC - Airport Aolele St/Dillingham/Halekauwila/Ala Moana Center
MOS E - UHWO (Just above Kapolei Pkwy/N-S Rd) - Mokuola TC - Airport Aolele St/Dillingham/Halekauwila/Ala Moana Center

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Table 154. AM Peak Hour Fixed Guideway Build Option #1 Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4442 Hanua	16	821	546	1383	40	54	94
4444 Wākea	100	475	0	575	51	417	468
4446 SaratWakea	72	0	0	72	61	0	61
4447 SaratBarr	3	0	0	3	44	38	82
4449 SaratNS	1	24	0	25	20	15	35
4450 FWeavGeig	39	120	0	159	9	56	65
4451 FWeavRent	76	587	805	1468	17	39	56
4454 LeokuFarr	106	566	0	672	118	298	416
4456 MokuoFarr	59	343	0	402	85	135	220
4499 LCC	32	0	0	32	308	0	308
4458 PearlHigh	156	1344	645	2145	103	159	262
4460 Kaonohi	30	677	0	707	162	472	634
4463 AlohaSta	11	107	633	751	63	327	390
4465 RadfordDr	52	113	0	165	404	374	778
4468 KamAolele	72	171	0	243	472	28	500
4470 KamLagoon	37	187	0	224	396	308	704
4472 KalihiTC	24	329	0	353	133	245	378
4475 NKingWaia	122	26	0	148	316	13	329
4477 KinDiLiha	120	223	0	343	347	403	750
4479 NimiRiKe	306	0	0	306	343	0	343
4481 HalekFort	85	43	0	128	1048	79	1127
4482 HalekSouth	136	124	0	260	507	210	717
4483 HalekWard	195	9	0	204	392	27	419
4486 KonaKeeau	102	115	0	217	584	291	875
4489 KapiMcCul	148	0	0	148	77	0	77
4491 DateUniver	151	128	0	279	90	161	251
4492 KingUniver	107	238	0	345	96	208	304
4494 UH Mānoa	53	72	0	125	1011	220	1231
4496 KalakAlaWa	198	1	0	199	176	0	176
4497 KuhiOlohan	155	96	0	251	509	0	509
4498 KuhiKaiula	193	172	0	365	549	186	735
total	2957	7111	2629	12697	8531	4763	13294

Table 155. AM Peak Hour Fixed Guideway Build Option #2 Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4401 Hanua	17	831	516	1364	38	63	101
4403 Wākea	103	334	0	437	55	391	446
4405 KapoNSRd	74	100	0	174	48	24	72
4407 UH-WO	0	251	0	251	0	52	52
4408 FarrNSRd	171	801	931	1903	186	39	225
4410 FarrEwaRd	67	41	0	108	74	23	97
4412 LeokuFarr	106	497	0	603	125	228	353
4413 MokuoFarr	59	339	0	398	85	137	222
4445 LCC	32	0	0	32	311	0	311
4415 PearlHigh	159	1329	615	2103	99	160	259
4417 Kaonohi	31	678	0	709	162	491	653
4419 AlohaSta	11	109	562	682	63	170	233
4422 RadfordDr	52	166	0	218	403	571	974
4424 PaieaSt	132	145	0	277	583	218	801
4426 DlnghmMid	16	429	0	445	100	374	474
4427 DlnghmMok	147	19	0	166	304	71	375
4428 DlnghmKok	101	0	0	101	384	42	426
4429 Ka'aahi	8	207	0	215	134	696	830
4431 BeretFort	296	54	0	350	1220	1	1221
4433 AlapaiTC	144	33	0	177	614	7	621
4435 SKingPensa	246	18	0	264	423	73	496
4436 KingPunKal	190	428	0	618	253	998	1251
4437 KingMcCull	193	0	0	193	218	1	219
4438 Hausten	222	220	0	442	149	219	368
4441 UH Mānoa	85	75	0	160	1075	230	1305
total	2662	7104	2624	12390	7106	5279	12385

Table 156. AM Peak Hour Fixed Guideway Build Option #3 Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4499 Hanua	16	845	549	1410	27	43	70
4501 Kamokila	15	628	0	643	147	362	509
4502 UHWOFarr	11	304	758	1073	4	14	18
4503 UHWONSRd	187	0	0	187	203	1	204
4505 FarrEwaRd	76	554	0	630	66	56	122
4506 LeokuFarr	108	356	0	464	123	217	340
4507 MokuoFarr	114	437	0	551	104	108	212
4538 LCC	32	0	0	32	301	0	301
4508 PearlHigh	158	1334	632	2124	96	152	248
4509 Kaonohi	30	661	0	691	164	478	642
4511 AlohaSta	11	104	566	681	57	152	209
4512 RadfordDr	29	205	0	234	389	548	937
4514 Airport	94	54	0	148	457	17	474
4515 AoleleLag	34	135	0	169	237	287	524
4516 DlnghmMid	16	261	0	277	99	260	359
4517 DlnghmMok	161	20	0	181	327	66	393
4518 DlnghmKok	98	0	0	98	352	40	392
4519 Ka'aahi	5	131	0	136	73	425	498
4520 HotelRiver	54	0	0	54	87	5	92
4521 HotelNuuan	177	0	0	177	277	0	277
4522 HotelBish	97	593	0	690	1364	102	1466
4523 HNLHaleWat	258	4	0	262	519	133	652
4524 WaimCummin	166	0	0	166	309	6	315
4526 KonaKeeau	108	131	0	239	560	183	743
4528 KapiMcCul	157	1	0	158	70	0	70
4530 DateUniver	163	134	0	297	95	163	258
4531 KingUniver	111	254	0	365	92	172	264
4533 UH Mānoa	82	43	0	125	1034	151	1185
4534 KalakAlaWa	228	2	0	230	170	1	171
4535 KuhiOlohan	163	101	0	264	479	0	479
4536 KuhiKaiula	233	144	0	377	524	178	702
total	3192	7436	2505	13133	8806	4320	13126

Table 157. AM Peak Hour Fixed Guideway Build Option #6 Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4401 Hanua	17	834	529	1380	39	64	103
4403 Wākea	103	336	0	439	53	390	443
4405 KapoNSRd	73	101	0	174	49	23	72
4407 UH-WO	0	251	0	251	0	51	51
4408 FarrNSRd	168	799	954	1921	187	39	226
4410 FarrEwaRd	67	41	0	108	75	22	97
4412 LeokuFarr	106	505	0	611	128	223	351
4413 MokuoFarr	58	341	0	399	88	137	225
4445 LCC	32	0	0	32	309	0	309
4415 PearlHigh	157	1350	640	2147	100	165	265
4417 Kaonohi	30	677	0	707	155	492	647
4419 AlohaSta	12	108	615	735	59	157	216
4422 RadfordDr	51	113	0	164	401	530	931
4424 KamAolele	71	160	0	231	459	27	486
4425 KamLagoon	39	164	0	203	391	222	613
4426 DlnghmMid	17	331	0	348	99	267	366
4427 DlnghmMok	156	25	0	181	310	54	364
4428 DlnghmKok	85	0	0	85	331	39	370
4429 Ka'aahi	85	219	0	304	152	445	597
4430 NimiRiKe	199	0	0	199	262	0	262
4431 HalekFort	79	35	0	114	1018	71	1089
4432 HalekSouth	142	74	0	216	449	205	654
4433 HalekWard	220	8	0	228	352	24	376
4436 KonaKeeau	109	267	0	376	555	1008	1563
4439 KapiMcCul	448	0	0	448	377	0	377
4441 DateUniver	169	180	0	349	100	207	307
4442 KingUniver	125	317	0	442	98	216	314
4444 UH Mānoa	60	82	0	142	1018	249	1267
total	2878	7318	2738	12934	7614	5327	12941

Table 158. AM Peak Hour Fixed Guideway MOS Option A Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4507 MokuoFarr	45	2813	0	2858	49	544	593
4538 LCC	30	0	0	30	275	0	275
4508 PearlHigh	151	1051	586	1788	85	89	174
4509 Kaonohi	28	590	0	618	137	364	501
4511 AlohaSta	8	93	524	625	47	128	175
4512 RadfordDr	27	183	0	210	363	468	831
4514 Airport	91	42	0	133	498	8	506
4515 AoleleLag	25	0	0	25	184	129	313
4516 DlnghmMid	14	400	0	414	58	272	330
4517 DlnghmMok	124	10	0	134	242	37	279
4518 DlnghmKok	50	0	0	50	239	25	264
4519 Ka‘aahi	42	417	0	459	55	887	942
4521 NimiRiKe	97	0	0	97	366	0	366
4523 HalekFort	23	19	0	42	343	68	411
4524 HalekSouth	125	101	0	226	388	1343	1731
total	880	5719	1110	7709	3329	4362	7691

Table 159. AM Peak Hour Fixed Guideway MOS Option B Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4504 UHWONSRd	0	1666	492	2158	98	277	375
4505 FarrEwaRd	59	410	0	469	57	40	97
4506 LeokuFarr	91	745	0	836	93	173	266
4507 MokuoFarr	104	229	0	333	89	127	216
4538 LCC	31	0	0	31	293	0	293
4508 PearlHigh	153	1092	598	1843	99	131	230
4509 Kaonohi	29	598	0	627	153	447	600
4511 AlohaSta	9	95	540	644	51	140	191
4512 RadfordDr	29	186	0	215	378	511	889
4514 Airport	92	38	0	130	523	14	537
4515 AoleleLag	20	114	0	134	142	259	401
4516 DlnghmMid	14	225	0	239	72	238	310
4517 DlnghmMok	121	9	0	130	251	43	294
4518 DlnghmKok	60	0	0	60	262	30	292
4519 Ka'aahi	2	318	0	320	39	1130	1169
4520 HotelRiver	57	26	0	83	70	7	77
4521 HotelNuuan	58	0	0	58	170	0	170
4522 HotelBish	32	298	0	330	615	841	1456
4523 HotelRich	14	111	0	125	244	649	893
total	975	6160	1630	8765	3699	5057	8756

Table 160. AM Peak Hour Fixed Guideway MOS Option C Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4507 MokuoFarr	46	2915	0	2961	49	549	598
4538 LCC	31	0	0	31	277	0	277
4508 PearlHigh	149	1138	606	1893	86	93	179
4509 Kaonohi	29	606	0	635	140	366	506
4511 AlohaSta	9	94	533	636	47	126	173
4512 RadfordDr	29	190	0	219	367	466	833
4514 Airport	95	47	0	142	501	8	509
4515 AoleleLag	28	0	0	28	189	130	319
4516 DlnghmMid	15	435	0	450	67	281	348
4517 DlnghmMok	136	14	0	150	267	37	304
4518 DlnghmKok	64	0	0	64	258	27	285
4519 Ka'aahi	57	199	0	256	78	319	397
4521 NimiRiKe	121	0	0	121	395	0	395
4523 HalekFort	42	17	0	59	395	44	439
4524 HalekSouth	146	50	0	196	315	777	1092
4525 HalekWard	145	6	0	151	269	5	274
4528 KonaKeeau	43	442	0	485	374	1174	1548
total	1185	6153	1139	8477	4074	4402	8476

Table 161. AM Peak Hour Fixed Guideway MOS Option D Station Volumes by Mode of Arrival & Departure

summary of station access/egress

station	person trips in walk	bus	drive	total	person trips out walk	bus	total
4504 UHWONSRd	0	1757	523	2280	74	263	337
4505 FarrEwaRd	51	416	0	467	47	45	92
4506 LeokuFarr	92	785	0	877	64	169	233
4507 MokuoFarr	54	311	0	365	69	140	209
4538 LCC	32	0	0	32	297	0	297
4508 PearlHigh	155	1262	639	2056	100	130	230
4509 Kaonohi	29	640	0	669	154	438	592
4511 AlohaSta	11	101	565	677	52	146	198
4512 RadfordDr	51	171	0	222	385	490	875
4514 Airport	96	50	0	146	531	56	587
4515 AoleleLag	31	0	0	31	202	131	333
4516 DlnghmMid	16	466	0	482	76	303	379
4517 DlnghmMok	147	16	0	163	284	45	329
4518 DlnghmKok	69	0	0	69	284	33	317
4519 Ka'aahi	62	215	0	277	90	354	444
4521 NimiRiKe	133	0	0	133	197	0	197
4523 HalekFort	58	18	0	76	695	53	748
4524 HalekSouth	156	69	0	225	365	903	1268
4525 HalekWard	148	7	0	155	302	13	315
4528 KonaKeeau	45	509	0	554	417	1554	1971
total	1436	6793	1727	9956	4685	5266	9951

Figure 33. Fixed Guideway Build Option #1 AM Peak Hour Volume on Rail Line

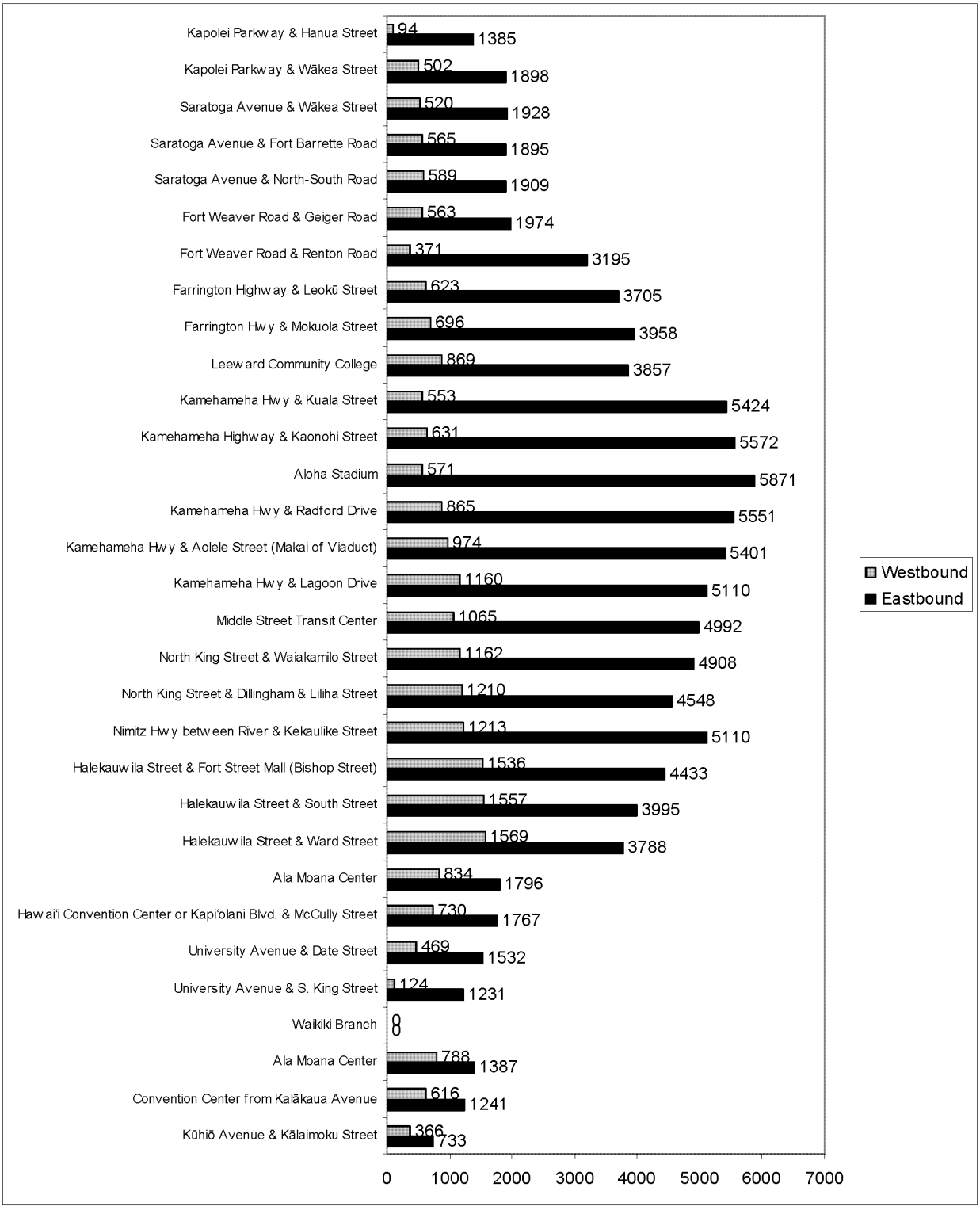
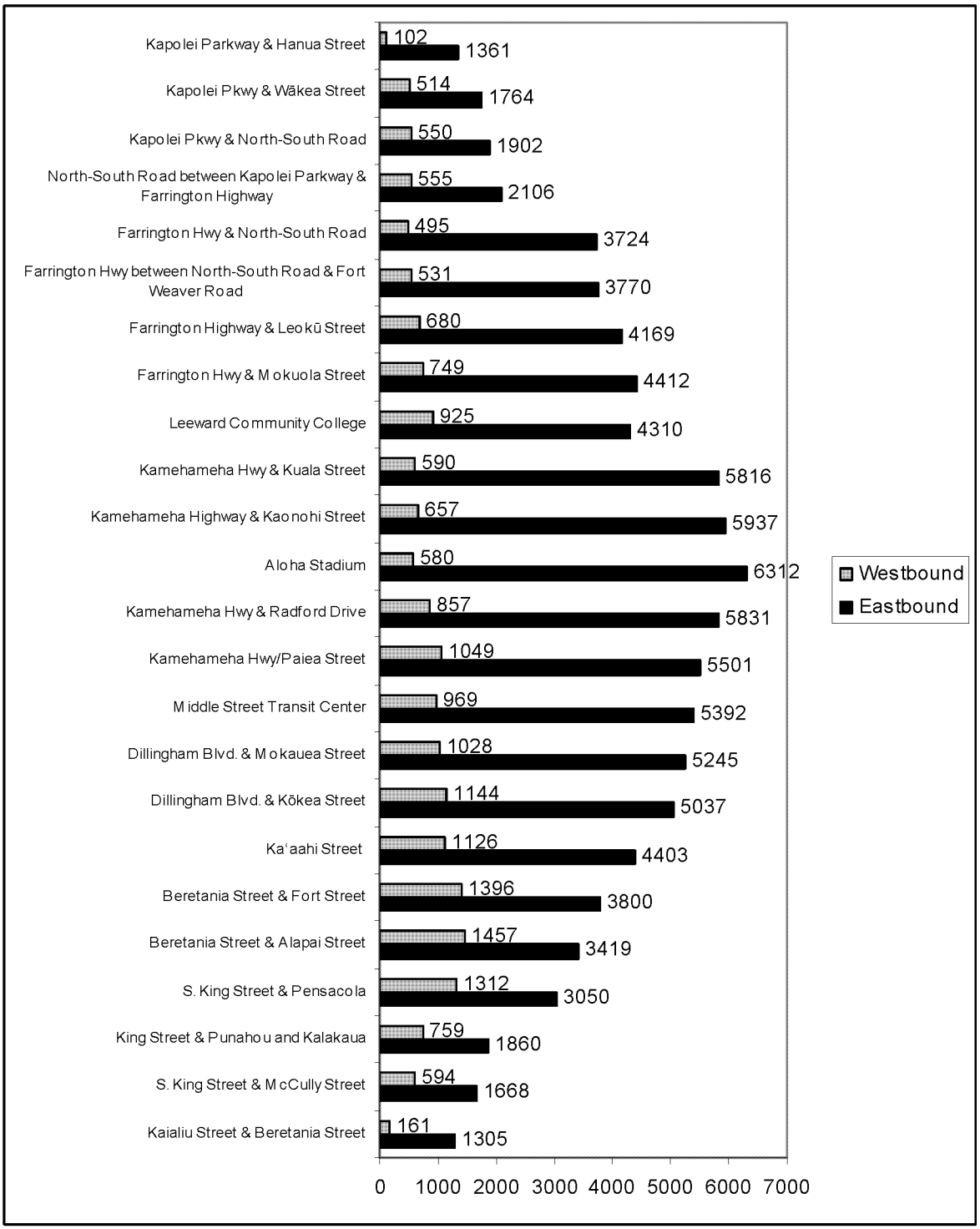
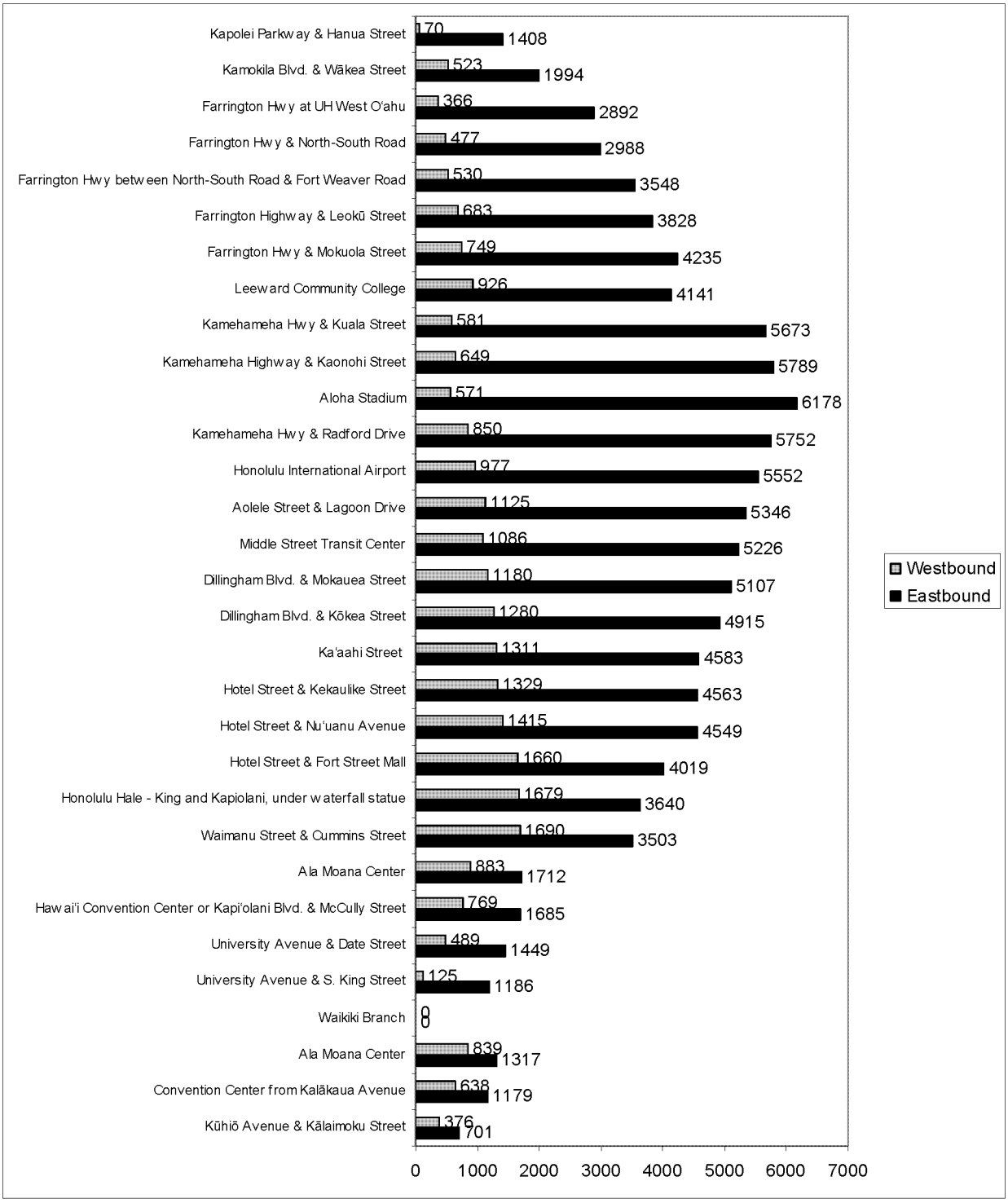


Figure 34. Fixed Guideway Build Option #2 AM Peak Hour Volume on Rail Line


Kapolei Parkway & Hanua Street
102
1361
Kapolei Pkwy & Wākea Street
514
1764
Kapolei Pkwy & North-South Road
550
1902
North-South Road between Kapolei Parkway & Farrington Highway
555
2106
Farrington Hwy & North-South Road
495
3724
Farrington Hwy between North-South Road & Fort Weaver Road
531
3770
Farrington Highway & Leokū Street
680
4169
Farrington Hwy & Mokuola Street
749
4412
Leeward Community College
925
4310
Kamehameha Hwy & Kuala Street
590
5816
Kamehameha Highway & Kaonohi Street
657
5937
Aloha Stadium
580
6312
Kamehameha Hwy & Radford Drive
857
5831
Kamehameha Hwy/Paiea Street
1049
5501
Middle Street Transit Center
969
5392
Dillingham Blvd. & Mokauea Street
1028
5245
Dillingham Blvd. & Kōkea Street
1144
5037
Ka'aahi Street
1126
4403
Beretania Street & Fort Street
1396
3800
Beretania Street & Alapai Street
1457
3419
S. King Street & Pensacola
1312
3050
King Street & Punahou and Kalakaua
759
1860
S. King Street & McCully Street
594
1668
Kaialiu Street & Beretania Street
161
1305
0
1000
2000
3000
4000
5000
6000
7000
Westbound
Eastbound

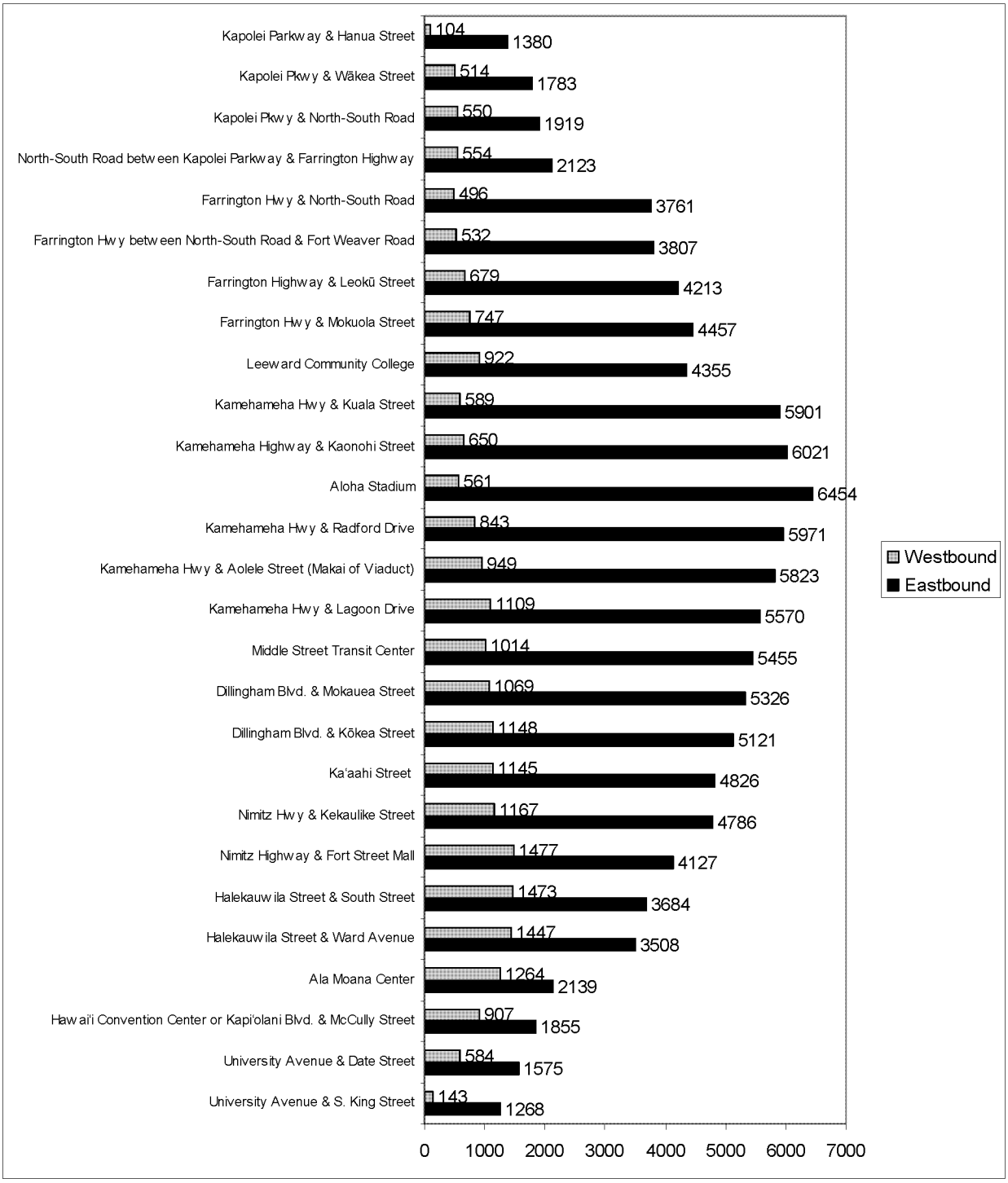
AR00066584

Figure 35. Fixed Guideway Build Option #3 AM Peak Hour Volume on Rail Line



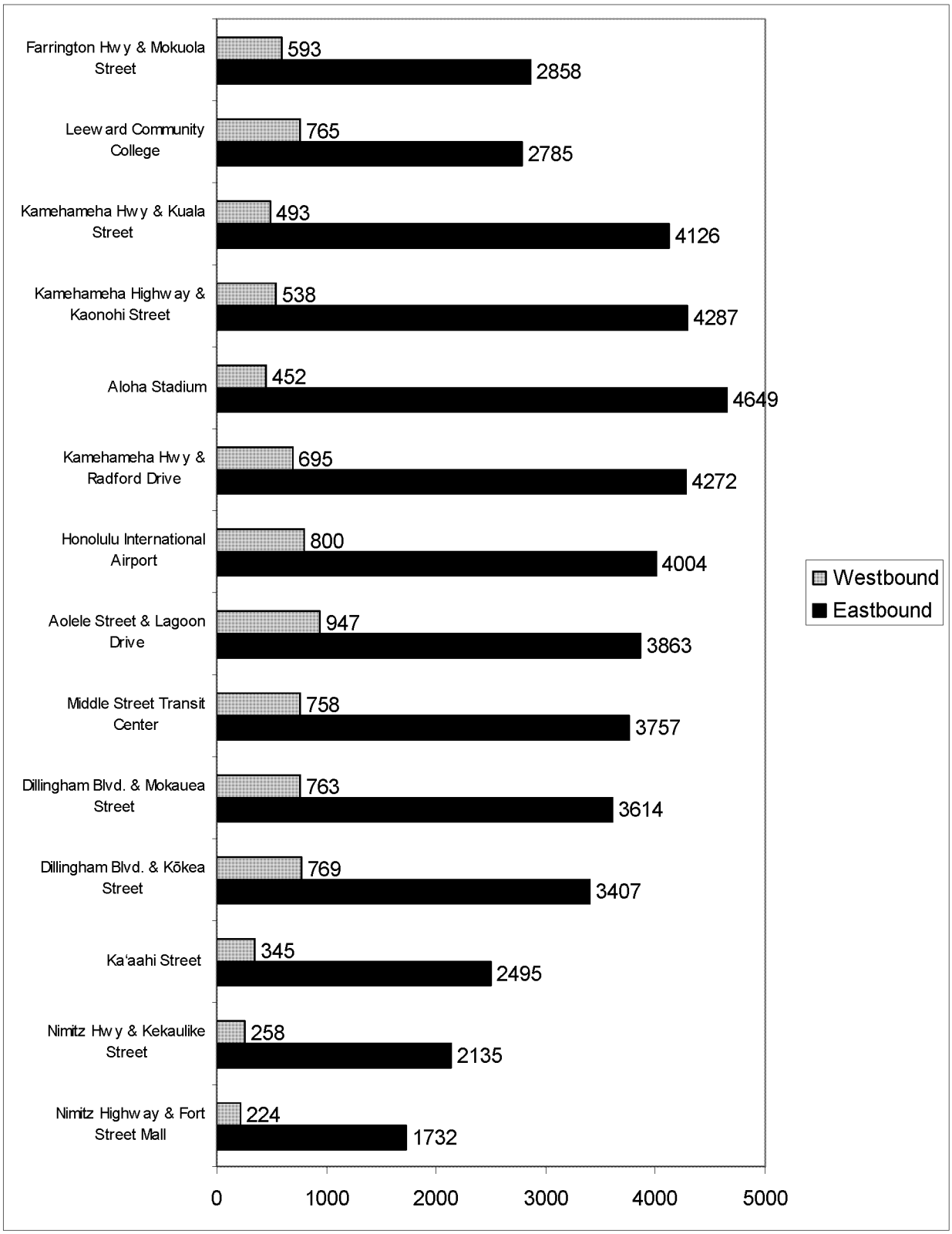
AR00066585

Figure 36. Fixed Guideway Build Option #6 AM Peak Hour Volume on Rail Line



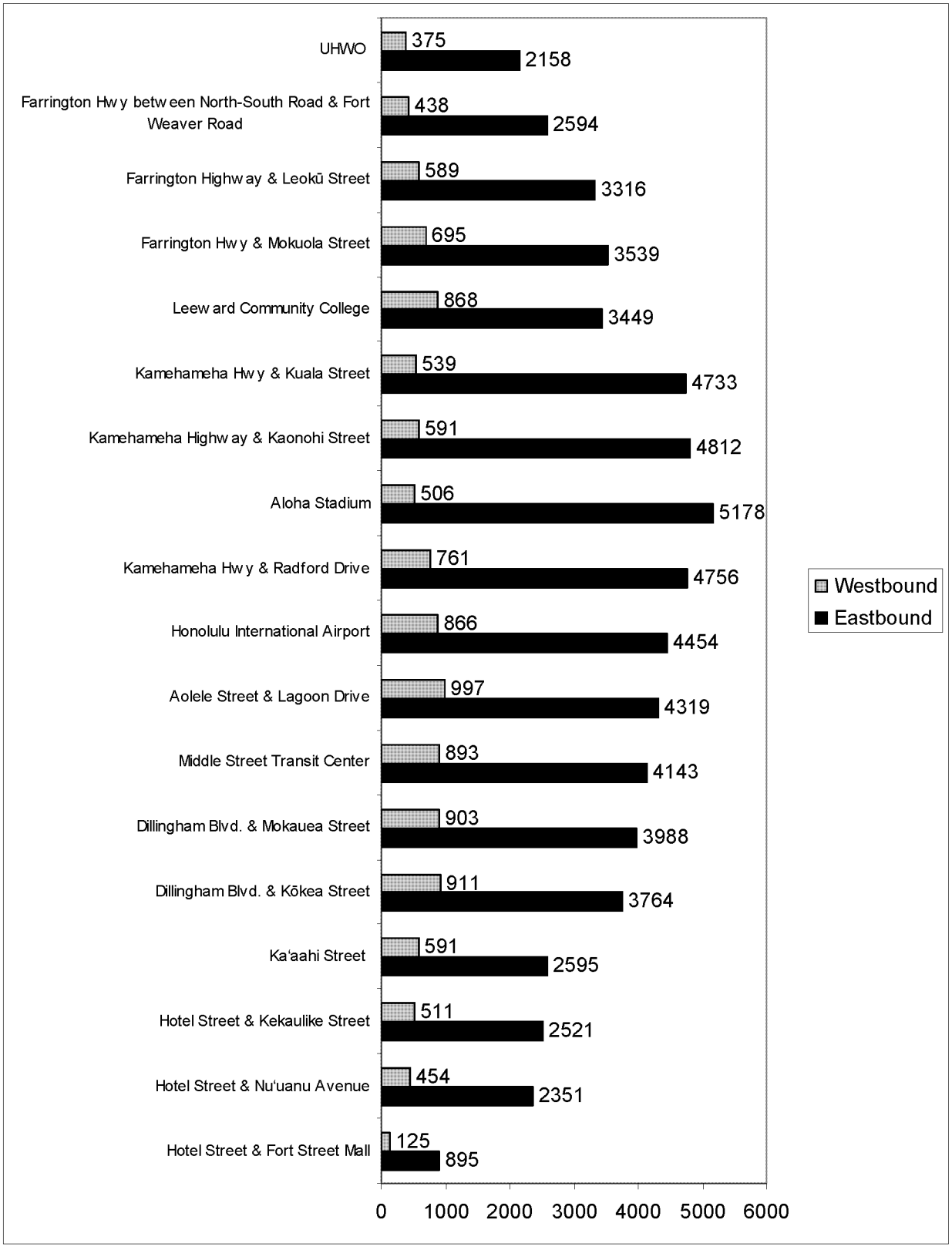
AR00066586

Figure 37. Fixed Guideway MOS Option A AM Peak Hour Volume on Rail Line



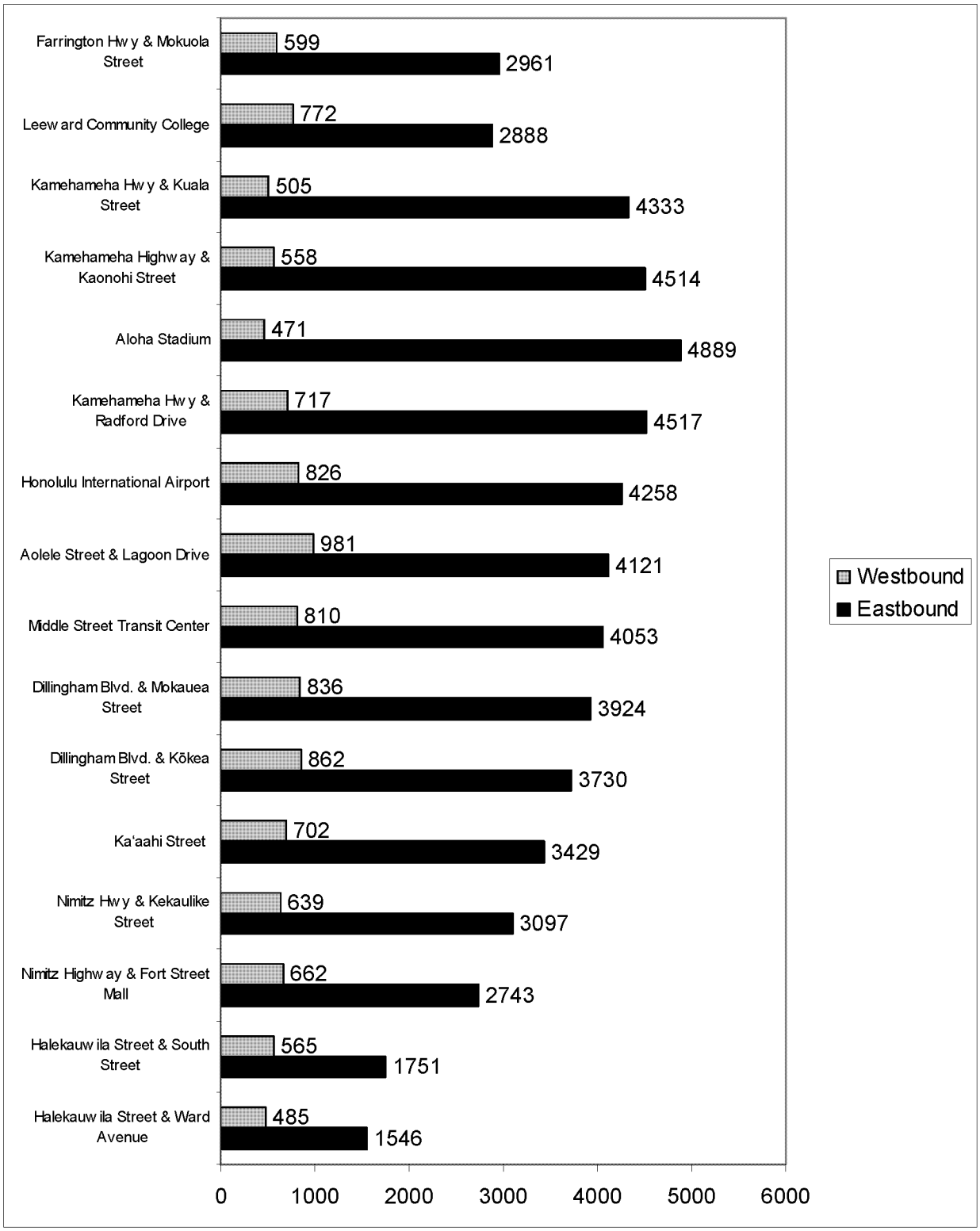
AR00066587

Figure 38. Fixed Guideway MOS Option B AM Peak Hour Volume on Rail Line



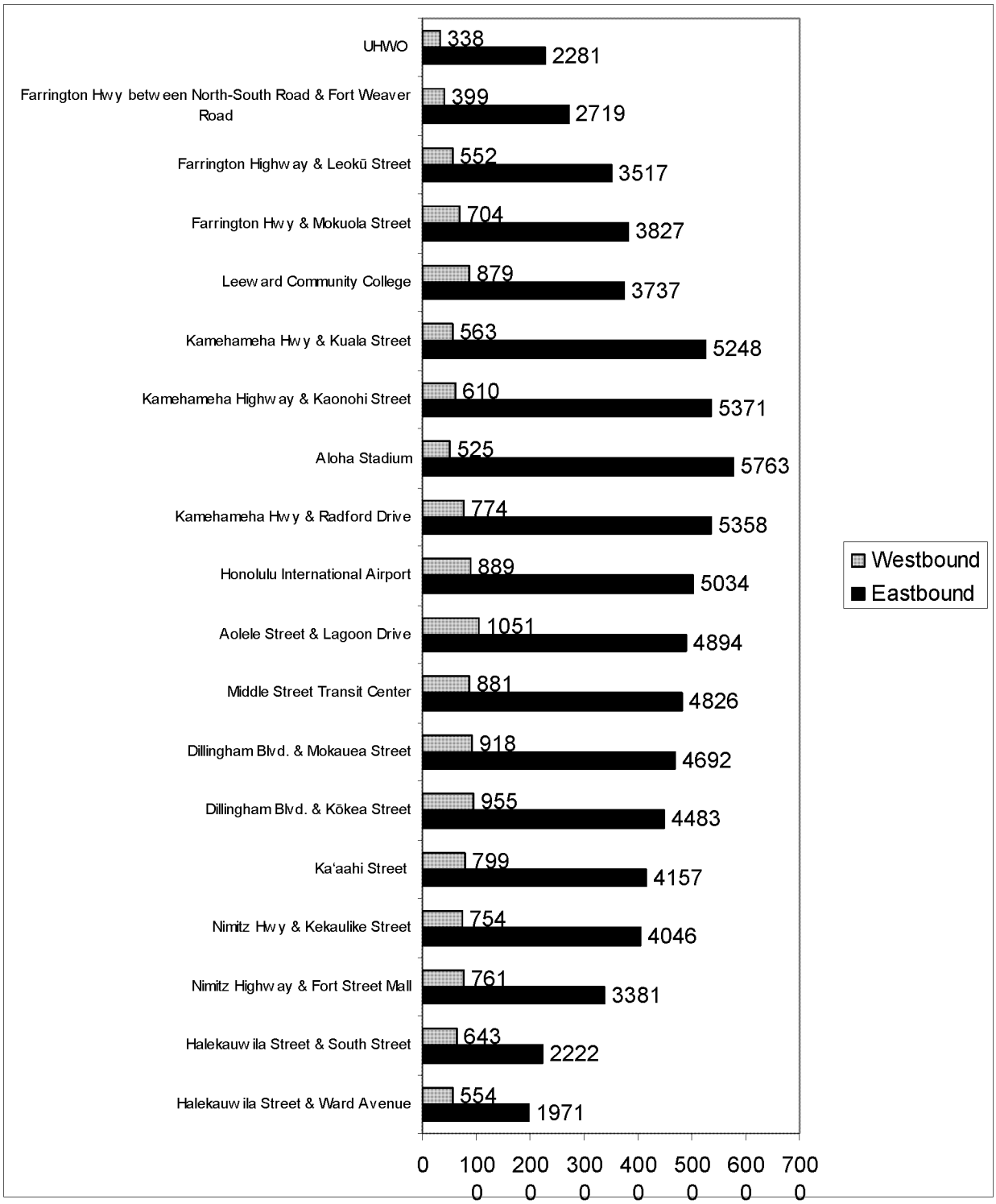
AR00066588

Figure 39. Fixed Guideway MOS Option C AM Peak Hour Volume on Rail Line



AR00066589

Figure 40. Fixed Guideway MOS Option D AM Peak Hour Volume on Rail Line



AR00066590

Appendix BTransit User Benefits Comparison Tables

AR00066591

FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
1. Ward-Chinatown	1. Ward-Chinatown	-61	-1,050	33	-126	491	374
1. Ward-Chinatown	2. Kaka 'ako	1,498	1,644	1,315	1,070	582	474
1. Ward-Chinatown	3. Punchbowl-Sheridan-Date	4,373	3,849	2,519	2,008	284	42
1. Ward-Chinatown	4. Waikiki	2,734	4,769	2,041	1,099	229	244
1. Ward-Chinatown	5. Kahala- Tantalus	988	508	291	81	118	28
1. Ward-Chinatown	6. Pauoa-Kalihi	210	117	207	185	237	251
1. Ward-Chinatown	7. Iwilei-Mapunapuna-Airport	-437	1,449	1,003	902	360	0
1. Ward-Chinatown	8. Hickam-Pearl Harbor	-683	4,360	4,052	3,695	457	95
1. Ward-Chinatown	9. Moanalua-Halawa	2,031	911	457	349	-1,639	-1,903
1. Ward-Chinatown	10. ʻAiea-Pearl City	1,690	1,089	956	956	399	376
1. Ward-Chinatown	11. Honoʻuliʻuli - ʻEwa Beach	188	145	141	163	80	41
1. Ward-Chinatown	12. Kapolei-Ko ʻOlina - Kalaeloa	400	387	271	132	180	37
1. Ward-Chinatown	13. Makakilo - Makaiwa	22	17	20	15	6	-5
1. Ward-Chinatown	14. Waipahu - Waikele - Kunia	379	287	271	294	74	70
1. Ward-Chinatown	15. Waiawa-Koa Ridge	-78	-87	-84	-85	253	253
1. Ward-Chinatown	16. Mililani - Meleman-Kipapa	68	38	41	41	54	54
1. Ward-Chinatown	17. Wahiawa-Whitmore-Schofield	14	-3	14	14	99	102
1. Ward-Chinatown	18. East Honolulu	134	45	16	-62	-70	-70
1. Ward-Chinatown	19. Kaneʻohe - Kahaluʻu - Kualoa	51	53	44	52	37	47
1. Ward-Chinatown	20. Kailua - Mokapu-Waimanalo	692	694	691	693	689	691
1. Ward-Chinatown	21. Koʻolauloa	9	10	9	10	9	9
1. Ward-Chinatown	22. North Shore	5	6	5	5	4	4
1. Ward-Chinatown	23. Waiʻanae Coast	8	8	2	-3	0	-2
1. Ward-Chinatown	24. Manoa - Tantalus	529	593	607	547	411	411
1. Ward-Chinatown	25. University	1,088	934	947	79	72	67
2. Kaka 'ako	1. Ward-Chinatown	3,440	1,389	1,773	1,462	912	-448
2. Kaka 'ako	2. Kaka 'ako	569	107	20	-1,215	605	483
2. Kaka 'ako	3. Punchbowl-Sheridan-Date	2,393	280	2,874	1,959	842	427
2. Kaka 'ako	4. Waikiki	1,105	3,570	998	1,013	1,684	1,615
2. Kaka 'ako	5. Kahala- Tantalus	746	-444	602	426	652	304
2. Kaka 'ako	6. Pauoa-Kalihi	1,103	743	1,510	1,682	130	92
2. Kaka 'ako	7. Iwilei-Mapunapuna-Airport	2,206	3,573	5,628	5,731	204	-88
2. Kaka 'ako	8. Hickam-Pearl Harbor	400	4,949	6,007	6,140	477	33
2. Kaka 'ako	9. Moanalua-Halawa	2,750	1,780	2,566	2,468	-1,266	-1,558
2. Kaka 'ako	10. ʻAiea-Pearl City	1,719	1,312	1,620	1,667	325	333
2. Kaka 'ako	11. Honoʻuliʻuli - ʻEwa Beach	156	128	147	179	46	22
2. Kaka 'ako	12. Kapolei-Ko ʻOlina - Kalaeloa	426	348	412	220	168	44
2. Kaka 'ako	13. Makakilo - Makaiwa	49	31	50	45	29	16
2. Kaka 'ako	14. Waipahu - Waikele - Kunia	433	312	429	459	122	100
2. Kaka 'ako	15. Waiawa-Koa Ridge	63	-5	61	71	180	186
2. Kaka 'ako	16. Mililani - Meleman-Kipapa	139	83	132	134	61	57
2. Kaka 'ako	17. Wahiawa-Whitmore-Schofield	114	70	99	103	74	69
2. Kaka 'ako	18. East Honolulu	280	93	243	45	20	10
2. Kaka 'ako	19. Kaneʻohe - Kahaluʻu - Kualoa	73	74	74	78	101	99
2. Kaka 'ako	20. Kailua - Mokapu-Waimanalo	534	540	538	547	578	576
2. Kaka 'ako	21. Koʻolauloa	2	3	2	3	6	6
2. Kaka 'ako	22. North Shore	10	11	19	23	12	12
2. Kaka 'ako	23. Waiʻanae Coast	6	9	4	-6	7	-2
2. Kaka 'ako	24. Manoa - Tantalus	1,280	949	1,287	1,231	681	648

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
2. Kaka 'ako	25. University	1,332	880	1,336	-74	137	97
3. Punchbowl-Sheridan-Date	1. Ward-Chinatown	20,474	17,303	12,333	3,190	5,567	3,055
3. Punchbowl-Sheridan-Date	2. Kaka 'ako	8,243	6,871	9,653	2,412	3,194	1,667
3. Punchbowl-Sheridan-Date	3. Punchbowl-Sheridan-Date	5,862	3,615	6,066	2,808	3,697	1,888
3. Punchbowl-Sheridan-Date	4. Waikiki	989	1,652	1,270	-628	747	147
3. Punchbowl-Sheridan-Date	5. Kahala- Tantalus	-1,307	-2,527	-1,927	467	1,364	749
3. Punchbowl-Sheridan-Date	6. Pauoa-Kalihi	1,198	1,743	1,619	-105	478	420
3. Punchbowl-Sheridan-Date	7. Iwilei-Mapunapuna-Airport	4,036	7,387	7,916	2,633	1,521	512
3. Punchbowl-Sheridan-Date	8. Hickam-Pearl Harbor	749	7,331	7,563	5,671	1,069	306
3. Punchbowl-Sheridan-Date	9. Moanalua-Halawa	4,140	3,417	3,628	1,406	-1,111	-1,439
3. Punchbowl-Sheridan-Date	10. ʻAiea-Pearl City	2,716	2,356	2,446	1,692	651	615
3. Punchbowl-Sheridan-Date	11. Honoʻuliʻuli - ʻEwa Beach	355	300	324	246	78	58
3. Punchbowl-Sheridan-Date	12. Kapolei-Ko ʻOlina - Kalaeloa	630	553	559	154	176	61
3. Punchbowl-Sheridan-Date	13. Makakilo - Makaiwa	15	9	15	6	2	2
3. Punchbowl-Sheridan-Date	14. Waipahu - Waikele - Kunia	761	663	707	551	159	150
3. Punchbowl-Sheridan-Date	15. Waiawa-Koa Ridge	97	71	89	-41	296	287
3. Punchbowl-Sheridan-Date	16. Mililani - Meleman-Kipapa	287	257	270	116	105	99
3. Punchbowl-Sheridan-Date	17. Wahiawa-Whitmore-Schofield	51	37	44	-20	99	96
3. Punchbowl-Sheridan-Date	18. East Honolulu	322	69	149	275	316	263
3. Punchbowl-Sheridan-Date	19. Kaneʻohe - Kahaluʻu - Kualoa	234	210	212	167	201	182
3. Punchbowl-Sheridan-Date	20. Kailua - Mokapu-Waimanalo	1,050	988	955	875	971	932
3. Punchbowl-Sheridan-Date	21. Koʻolauloa	31	27	20	28	30	29
3. Punchbowl-Sheridan-Date	22. North Shore	55	74	67	43	45	44
3. Punchbowl-Sheridan-Date	23. Waiʻanae Coast	29	39	30	1	6	-1
3. Punchbowl-Sheridan-Date	24. Manoa - Tantalus	656	596	777	592	390	375
3. Punchbowl-Sheridan-Date	25. University	1,361	561	1,062	-44	296	235
4. Waikiki	1. Ward-Chinatown	10,051	11,581	-2,875	-3,536	622	-65
4. Waikiki	2. Kaka 'ako	476	2,779	-38	-916	422	-206
4. Waikiki	3. Punchbowl-Sheridan-Date	24	1,474	-1,624	-351	42	-174
4. Waikiki	4. Waikiki	-3,995	-5,233	-2,075	-481	-183	-276
4. Waikiki	5. Kahala- Tantalus	37	-1,093	394	-50	428	40
4. Waikiki	6. Pauoa-Kalihi	206	1,192	43	-284	100	92
4. Waikiki	7. Iwilei-Mapunapuna-Airport	1,899	4,352	2,143	819	-5	-9
4. Waikiki	8. Hickam-Pearl Harbor	558	4,496	3,194	3,172	317	57
4. Waikiki	9. Moanalua-Halawa	2,074	2,185	1,207	995	-691	-796
4. Waikiki	10. ʻAiea-Pearl City	1,198	1,261	859	837	290	284
4. Waikiki	11. Honoʻuliʻuli - ʻEwa Beach	54	77	30	61	25	12
4. Waikiki	12. Kapolei-Ko ʻOlina - Kalaeloa	262	304	179	86	150	36

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
4. Waikiki	13. Makakilo - Makaiwa	6	5	4	4	4	1
4. Waikiki	14. Waipahu - Waikele - Kunia	336	374	209	238	137	99
4. Waikiki	15. Waiawa-Koa Ridge	89	89	47	7	204	203
4. Waikiki	16. Mililani - Meleman-Kipapa	87	99	55	59	50	50
4. Waikiki	17. Wahiawa-Whitmore-Schofield	74	88	56	1	71	72
4. Waikiki	18. East Honolulu	218	57	108	-59	-5	-2
4. Waikiki	19. Kane'ohe - Kahalu'u - Kualoa	-26	125	42	60	70	68
4. Waikiki	20. Kailua - Mokapu-Waimanalo	218	425	330	357	372	367
4. Waikiki	21. Ko'olauloa	7	27	20	24	29	28
4. Waikiki	22. North Shore	6	9	9	10	11	10
4. Waikiki	23. Wai'anae Coast	10	14	1	-6	3	-1
4. Waikiki	24. Manoa - Tantalus	259	466	454	527	463	460
4. Waikiki	25. University	1,048	177	809	-14	11	-24
5. Kahala- Tantalus	1. Ward-Chinatown	14,397	9,329	7,007	2,491	4,086	1,700
5. Kahala- Tantalus	2. Kaka 'ako	3,678	2,573	4,687	793	2,149	466
5. Kahala- Tantalus	3. Punchbowl-Sheridan-Date	2,392	872	2,296	2,358	3,658	1,111
5. Kahala- Tantalus	4. Waikiki	1,117	-2,486	3,135	674	1,902	-228
5. Kahala- Tantalus	5. Kahala- Tantalus	957	241	1,113	1,002	1,659	453
5. Kahala- Tantalus	6. Pauoa-Kalihi	1,032	1,244	1,312	276	447	222
5. Kahala- Tantalus	7. Iwilei-Mapunapuna-Airport	2,942	3,867	4,429	2,108	999	243
5. Kahala- Tantalus	8. Hickam-Pearl Harbor	435	3,597	3,827	2,683	516	190
5. Kahala- Tantalus	9. Moanalua-Halawa	2,098	1,596	1,758	771	-371	-599
5. Kahala- Tantalus	10. 'Aiea-Pearl City	1,463	1,241	1,348	894	372	299
5. Kahala- Tantalus	11. Hono'uli'uli - 'Ewa Beach	74	61	67	53	27	13
5. Kahala- Tantalus	12. Kapolei-Ko 'Olina - Kalaeloa	303	297	268	38	134	43
5. Kahala- Tantalus	13. Makakilo - Makaiwa	7	6	6	1	4	3
5. Kahala- Tantalus	14. Waipahu - Waikele - Kunia	498	416	455	333	165	125
5. Kahala- Tantalus	15. Waiawa-Koa Ridge	55	39	45	1	161	163
5. Kahala- Tantalus	16. Mililani - Meleman-Kipapa	116	99	111	71	82	60
5. Kahala- Tantalus	17. Wahiawa-Whitmore-Schofield	119	100	109	62	121	110
5. Kahala- Tantalus	18. East Honolulu	342	170	233	250	294	207
5. Kahala- Tantalus	19. Kane'ohe - Kahalu'u - Kualoa	94	56	106	87	128	106
5. Kahala- Tantalus	20. Kailua - Mokapu-Waimanalo	381	316	398	348	402	366
5. Kahala- Tantalus	21. Ko'olauloa	20	16	19	24	33	27
5. Kahala- Tantalus	22. North Shore	17	23	24	19	16	15
5. Kahala- Tantalus	23. Wai'anae Coast	0	1	-3	-12	2	-1
5. Kahala- Tantalus	24. Manoa - Tantalus	709	660	954	1,071	1,083	890
5. Kahala- Tantalus	25. University	502	358	641	669	771	448
6. Pauoa-Kalihi	1. Ward-Chinatown	2,807	2,375	2,710	2,407	2,903	3,181
6. Pauoa-Kalihi	2. Kaka 'ako	2,878	2,823	3,162	3,435	1,441	1,405
6. Pauoa-Kalihi	3. Punchbowl-Sheridan-Date	3,384	2,929	2,930	2,060	600	573
6. Pauoa-Kalihi	4. Waikiki	2,285	3,476	1,666	1,296	545	599
6. Pauoa-Kalihi	5. Kahala- Tantalus	990	468	726	255	192	138
6. Pauoa-Kalihi	6. Pauoa-Kalihi	738	702	798	794	579	608
6. Pauoa-Kalihi	7. Iwilei-Mapunapuna-Airport	-1,471	-673	250	1,008	1,079	514
6. Pauoa-Kalihi	8. Hickam-Pearl Harbor	-1,451	7,222	7,855	8,341	1,384	564
6. Pauoa-Kalihi	9. Moanalua-Halawa	3,910	2,024	2,468	3,223	-906	-1,283
6. Pauoa-Kalihi	10. 'Aiea-Pearl City	2,697	1,941	2,360	2,478	774	770
6. Pauoa-Kalihi	11. Hono'uli'uli - 'Ewa Beach	212	170	193	228	55	35

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
6. Pauoa-Kalihi	12. Kapolei-Ko 'Olina - Kalaeloa	512	462	448	217	187	72
6. Pauoa-Kalihi	13. Makakilo - Makaiwa	35	22	35	35	12	9
6. Pauoa-Kalihi	14. Waipahu - Waikele - Kunia	950	748	840	950	240	214
6. Pauoa-Kalihi	15. Waiawa-Koa Ridge	49	-40	-7	-3	377	384
6. Pauoa-Kalihi	16. Mililani - Meleman-Kipapa	179	126	161	156	127	129
6. Pauoa-Kalihi	17. Wahiawa-Whitmore-Schofield	119	84	93	112	170	177
6. Pauoa-Kalihi	18. East Honolulu	192	117	161	-7	-1	-2
6. Pauoa-Kalihi	19. Kane'ohe - Kahalu'u - Kualoa	443	421	442	419	442	453
6. Pauoa-Kalihi	20. Kailua - Mokapu-Waimanalo	879	838	865	839	852	859
6. Pauoa-Kalihi	21. Ko'olauloa	59	53	57	53	45	46
6. Pauoa-Kalihi	22. North Shore	25	25	27	28	24	24
6. Pauoa-Kalihi	23. Wai'anae Coast	11	16	7	-3	-1	-4
6. Pauoa-Kalihi	24. Manoa - Tantalus	343	377	453	391	277	280
6. Pauoa-Kalihi	25. University	948	696	920	0	59	54
7. Iwilei-Mapunapuna-Airport	1. Ward-Chinatown	3,288	3,917	3,488	3,410	1,255	843
7. Iwilei-Mapunapuna-Airport	2. Kaka 'ako	2,451	2,568	4,064	4,033	777	490
7. Iwilei-Mapunapuna-Airport	3. Punchbowl-Sheridan-Date	2,299	2,471	3,131	2,526	373	228
7. Iwilei-Mapunapuna-Airport	4. Waikiki	1,749	2,913	2,441	2,622	232	223
7. Iwilei-Mapunapuna-Airport	5. Kahala- Tantalus	574	303	558	269	87	36
7. Iwilei-Mapunapuna-Airport	6. Pauoa-Kalihi	1	157	190	226	177	124
7. Iwilei-Mapunapuna-Airport	7. Iwilei-Mapunapuna-Airport	-690	-610	155	62	237	-8
7. Iwilei-Mapunapuna-Airport	8. Hickam-Pearl Harbor	-1,520	4,288	4,934	4,929	563	208
7. Iwilei-Mapunapuna-Airport	9. Moanalua-Halawa	2,324	1,369	1,931	1,864	-517	-790
7. Iwilei-Mapunapuna-Airport	10. 'Aiea-Pearl City	1,310	1,050	1,271	1,270	385	366
7. Iwilei-Mapunapuna-Airport	11. Hono'uli'uli - 'Ewa Beach	131	111	130	139	14	17
7. Iwilei-Mapunapuna-Airport	12. Kapolei-Ko 'Olina - Kalaeloa	329	267	307	139	47	18
7. Iwilei-Mapunapuna-Airport	13. Makakilo - Makaiwa	6	4	6	4	1	0
7. Iwilei-Mapunapuna-Airport	14. Waipahu - Waikele - Kunia	401	337	386	403	68	66
7. Iwilei-Mapunapuna-Airport	15. Waiawa-Koa Ridge	-30	-26	-21	-22	179	261
7. Iwilei-Mapunapuna-Airport	16. Mililani - Meleman-Kipapa	86	43	69	66	57	57
7. Iwilei-Mapunapuna-Airport	17. Wahiawa-Whitmore-Schofield	59	45	45	45	59	66
7. Iwilei-Mapunapuna-Airport	18. East Honolulu	104	61	96	-6	-6	-7
7. Iwilei-Mapunapuna-Airport	19. Kane'ohe - Kahalu'u - Kualoa	186	201	220	218	186	184
7. Iwilei-Mapunapuna-Airport	20. Kailua - Mokapu-Waimanalo	295	274	290	287	327	323
7. Iwilei-Mapunapuna-Airport	21. Ko'olauloa	18	15	16	16	21	21
7. Iwilei-Mapunapuna-Airport	22. North Shore	10	10	10	10	6	6
7. Iwilei-Mapunapuna-Airport	23. Wai'anae Coast	2	7	4	1	0	-1

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
7. Iwilei-Mapunapuna-Airport	24. Manoa - Tantalus	370	416	614	549	210	202
7. Iwilei-Mapunapuna-Airport	25. University	597	548	705	68	56	49
8. Hickam-Pearl Harbor	1. Ward-Chinatown	1,366	4,054	3,753	3,726	724	417
8. Hickam-Pearl Harbor	2. Kaka 'ako	408	1,008	1,067	1,060	164	102
8. Hickam-Pearl Harbor	3. Punchbowl-Sheridan-Date	366	938	935	917	154	94
8. Hickam-Pearl Harbor	4. Waikiki	317	1,001	972	1,002	52	88
8. Hickam-Pearl Harbor	5. Kahala- Tantalus	103	252	256	228	31	21
8. Hickam-Pearl Harbor	6. Pauoa-Kalihi	196	566	574	583	104	56
8. Hickam-Pearl Harbor	7. Iwilei-Mapunapuna-Airport	130	2,032	2,039	2,023	381	236
8. Hickam-Pearl Harbor	8. Hickam-Pearl Harbor	-187	3,920	4,084	4,051	1,159	464
8. Hickam-Pearl Harbor	9. Moanalua-Halawa	1,980	2,964	2,905	2,831	881	563
8. Hickam-Pearl Harbor	10. ‘Aiea-Pearl City	277	1,182	1,155	1,131	379	266
8. Hickam-Pearl Harbor	11. Hono‘uli‘uli - ‘Ewa Beach	18	72	72	73	7	5
8. Hickam-Pearl Harbor	12. Kapolei-Ko ‘Olina - Kalaeloa	157	277	283	218	32	56
8. Hickam-Pearl Harbor	13. Makakilo - Makaiwa	10	19	20	19	3	2
8. Hickam-Pearl Harbor	14. Waipahu - Waikele - Kunia	957	2,331	2,341	2,362	467	328
8. Hickam-Pearl Harbor	15. Waiawa-Koa Ridge	165	905	901	900	241	198
8. Hickam-Pearl Harbor	16. Mililani - Meleman-Kipapa	-4	131	131	129	33	23
8. Hickam-Pearl Harbor	17. Wahiawa-Whitmore-Schofield	15	112	111	111	18	15
8. Hickam-Pearl Harbor	18. East Honolulu	3	28	28	20	4	2
8. Hickam-Pearl Harbor	19. Kane‘ohe - Kahalu‘u - Kualoa	53	120	119	119	54	49
8. Hickam-Pearl Harbor	20. Kailua - Mokapu-Waimanalo	67	128	125	124	77	61
8. Hickam-Pearl Harbor	21. Ko‘olauloa	5	14	14	14	9	7
8. Hickam-Pearl Harbor	22. North Shore	4	11	11	11	5	5
8. Hickam-Pearl Harbor	23. Wai‘anae Coast	1	8	8	7	1	1
8. Hickam-Pearl Harbor	24. Manoa - Tantalus	57	122	125	124	20	18
8. Hickam-Pearl Harbor	25. University	92	212	220	181	19	31
9. Moanalua-Halawa	1. Ward-Chinatown	25,158	12,795	10,700	11,009	-669	-309
9. Moanalua-Halawa	2. Kaka 'ako	7,001	3,728	4,184	4,194	-126	-50
9. Moanalua-Halawa	3. Punchbowl-Sheridan-Date	6,553	3,763	3,735	3,595	-139	-59
9. Moanalua-Halawa	4. Waikiki	5,037	3,580	3,042	3,276	-58	-27
9. Moanalua-Halawa	5. Kahala- Tantalus	1,744	849	869	679	-36	-34
9. Moanalua-Halawa	6. Pauoa-Kalihi	3,703	1,369	1,444	1,552	-94	-55
9. Moanalua-Halawa	7. Iwilei-Mapunapuna-Airport	10,017	6,278	6,537	6,693	203	34
9. Moanalua-Halawa	8. Hickam-Pearl Harbor	10,352	14,204	14,982	14,215	4,014	2,821
9. Moanalua-Halawa	9. Moanalua-Halawa	14,604	6,011	6,037	5,879	3,351	3,161
9. Moanalua-Halawa	10. ‘Aiea-Pearl City	9,624	4,766	4,784	4,730	481	451
9. Moanalua-Halawa	11. Hono‘uli‘uli - ‘Ewa Beach	609	409	421	408	51	43
9. Moanalua-Halawa	12. Kapolei-Ko ‘Olina - Kalaeloa	1,780	1,243	1,208	965	107	71
9. Moanalua-Halawa	13. Makakilo - Makaiwa	145	95	101	90	18	13
9. Moanalua-Halawa	14. Waipahu - Waikele - Kunia	2,816	2,015	2,062	2,096	174	125
9. Moanalua-Halawa	15. Waiawa-Koa Ridge	1,197	652	670	667	191	196
9. Moanalua-Halawa	16. Mililani - Meleman-Kipapa	835	487	498	482	44	44
9. Moanalua-Halawa	17. Wahiawa-Whitmore-Schofield	722	390	390	387	38	40
9. Moanalua-Halawa	18. East Honolulu	307	131	142	53	-9	-8
9. Moanalua-Halawa	19. Kane‘ohe - Kahalu‘u - Kualoa	822	300	311	279	221	232
9. Moanalua-Halawa	20. Kailua - Mokapu-Waimanalo	1,061	528	525	431	308	316

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
9. Moanalua-Halawa	21. Ko'olauloa	97	37	38	27	30	32
9. Moanalua-Halawa	22. North Shore	59	42	42	43	18	18
9. Moanalua-Halawa	23. Wai'anae Coast	71	43	40	35	0	-1
9. Moanalua-Halawa	24. Manoa - Tantalus	793	507	560	564	49	57
9. Moanalua-Halawa	25. University	1,694	995	1,105	559	-8	20
10. 'Aiea-Pearl City	1. Ward-Chinatown	33,207	32,110	30,231	30,049	4,526	3,754
10. 'Aiea-Pearl City	2. Kaka 'ako	8,880	8,495	8,895	8,861	1,310	1,093
10. 'Aiea-Pearl City	3. Punchbowl-Sheridan-Date	8,739	8,608	8,629	8,444	1,402	1,234
10. 'Aiea-Pearl City	4. Waikiki	7,721	8,381	7,790	8,169	1,193	983
10. 'Aiea-Pearl City	5. Kahala- Tantalus	2,548	2,332	2,382	2,217	505	404
10. 'Aiea-Pearl City	6. Pauoa-Kalihi	4,550	4,373	4,466	4,518	762	648
10. 'Aiea-Pearl City	7. Iwilei-Mapunapuna-Airport	16,824	18,529	18,884	18,848	2,746	2,171
10. 'Aiea-Pearl City	8. Hickam-Pearl Harbor	13,188	29,954	30,962	30,835	4,529	2,474
10. 'Aiea-Pearl City	9. Moanalua-Halawa	24,084	20,453	20,516	20,208	870	67
10. 'Aiea-Pearl City	10. 'Aiea-Pearl City	14,237	13,974	13,978	13,928	5,181	4,777
10. 'Aiea-Pearl City	11. Hono'uli'uli - 'Ewa Beach	2,212	2,270	2,298	2,303	329	325
10. 'Aiea-Pearl City	12. Kapolei-Ko 'Olina - Kalaeloa	7,113	7,824	7,303	5,523	754	750
10. 'Aiea-Pearl City	13. Makakilo - Makaiwa	420	392	434	407	75	76
10. 'Aiea-Pearl City	14. Waipahu - Waikele - Kunia	9,835	9,801	10,109	10,410	1,673	1,649
10. 'Aiea-Pearl City	15. Waiawa-Koa Ridge	2,226	2,312	2,376	2,374	335	324
10. 'Aiea-Pearl City	16. Mililani - Meleman-Kipapa	1,994	2,101	2,108	2,182	265	260
10. 'Aiea-Pearl City	17. Wahiawa-Whitmore-Schofield	1,790	1,886	1,887	1,886	276	281
10. 'Aiea-Pearl City	18. East Honolulu	489	437	460	302	85	70
10. 'Aiea-Pearl City	19. Kane'ohe - Kahalu'u - Kualoa	1,782	1,719	1,724	1,723	1,273	1,222
10. 'Aiea-Pearl City	20. Kailua - Mokapu-Waimanalo	2,137	1,828	1,821	1,785	1,121	1,064
10. 'Aiea-Pearl City	21. Ko'olauloa	204	175	174	174	139	128
10. 'Aiea-Pearl City	22. North Shore	171	167	168	168	79	80
10. 'Aiea-Pearl City	23. Wai'anae Coast	283	349	290	229	34	33
10. 'Aiea-Pearl City	24. Manoa - Tantalus	903	914	956	954	252	231
10. 'Aiea-Pearl City	25. University	3,737	3,595	3,780	2,732	793	704
11. Hono'uli'uli - 'Ewa Beach	1. Ward-Chinatown	36,806	20,249	32,640	28,843	6,886	5,798
11. Hono'uli'uli - 'Ewa Beach	2. Kaka 'ako	12,189	6,294	11,777	10,530	2,912	2,528
11. Hono'uli'uli - 'Ewa Beach	3. Punchbowl-Sheridan-Date	14,435	8,819	13,685	12,254	2,609	2,190
11. Hono'uli'uli - 'Ewa Beach	4. Waikiki	45,004	25,441	43,213	37,564	15,964	14,127
11. Hono'uli'uli - 'Ewa Beach	5. Kahala- Tantalus	4,738	2,729	4,381	3,684	1,192	905
11. Hono'uli'uli - 'Ewa Beach	6. Pauoa-Kalihi	4,527	2,721	4,303	3,937	1,011	931
11. Hono'uli'uli - 'Ewa Beach	7. Iwilei-Mapunapuna-Airport	11,964	7,646	12,201	11,464	1,990	1,467
11. Hono'uli'uli - 'Ewa Beach	8. Hickam-Pearl Harbor	13,646	14,194	18,366	17,377	4,190	2,394
11. Hono'uli'uli - 'Ewa Beach	9. Moanalua-Halawa	12,478	8,949	11,425	10,699	2,713	1,783
11. Hono'uli'uli - 'Ewa Beach	10. 'Aiea-Pearl City	11,329	7,805	11,187	10,289	2,686	1,852
11. Hono'uli'uli - 'Ewa Beach	11. Hono'uli'uli - 'Ewa Beach	16,634	8,653	16,044	14,399	5,189	5,129
11. Hono'uli'uli - 'Ewa Beach	12. Kapolei-Ko 'Olina - Kalaeloa	57,417	34,086	55,255	40,315	18,416	17,067
11. Hono'uli'uli - 'Ewa Beach	13. Makakilo - Makaiwa	3,178	2,048	3,215	2,466	1,326	1,311
11. Hono'uli'uli - 'Ewa Beach	14. Waipahu - Waikele - Kunia	10,882	5,569	10,628	9,624	3,023	2,851

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
11. Hono'uli'uli - 'Ewa Beach	15. Waiawa-Koa Ridge	2,438	1,361	2,348	2,227	573	514
11. Hono'uli'uli - 'Ewa Beach	16. Mililani - Meleman-Kipapa	3,178	1,782	3,116	2,868	502	412
11. Hono'uli'uli - 'Ewa Beach	17. Wahiawa-Whitmore-Schofield	3,521	1,924	3,383	3,319	609	492
11. Hono'uli'uli - 'Ewa Beach	18. East Honolulu	978	555	895	626	133	101
11. Hono'uli'uli - 'Ewa Beach	19. Kane'ohe - Kahalu'u - Kualoa	1,333	760	1,248	1,133	615	495
11. Hono'uli'uli - 'Ewa Beach	20. Kailua - Mokapu-Waimanalo	3,551	2,072	2,949	3,014	1,960	1,795
11. Hono'uli'uli - 'Ewa Beach	21. Ko'olauloa	541	258	461	425	298	262
11. Hono'uli'uli - 'Ewa Beach	22. North Shore	449	294	440	409	134	123
11. Hono'uli'uli - 'Ewa Beach	23. Wai'anae Coast	5,287	2,747	5,104	2,886	781	1,072
11. Hono'uli'uli - 'Ewa Beach	24. Manoa - Tantalus	1,710	1,140	1,688	1,604	593	505
11. Hono'uli'uli - 'Ewa Beach	25. University	12,582	8,526	12,031	8,440	2,327	1,862
12. Kapolei-Ko 'Olina - Kalaeloa	1. Ward-Chinatown	31,701	29,269	30,080	14,640	6,222	5,178
12. Kapolei-Ko 'Olina - Kalaeloa	2. Kaka 'ako	10,641	9,823	10,629	6,059	2,317	1,999
12. Kapolei-Ko 'Olina - Kalaeloa	3. Punchbowl-Sheridan-Date	12,690	11,968	12,563	6,661	1,725	1,279
12. Kapolei-Ko 'Olina - Kalaeloa	4. Waikiki	40,223	39,061	40,224	22,642	9,989	8,470
12. Kapolei-Ko 'Olina - Kalaeloa	5. Kahala- Tantalus	4,302	3,859	4,032	1,997	708	497
12. Kapolei-Ko 'Olina - Kalaeloa	6. Pauoa-Kalihi	4,152	3,845	4,076	2,163	573	433
12. Kapolei-Ko 'Olina - Kalaeloa	7. Iwilei-Mapunapuna-Airport	10,811	10,931	11,613	5,818	1,272	331
12. Kapolei-Ko 'Olina - Kalaeloa	8. Hickam-Pearl Harbor	12,053	14,712	15,352	10,899	1,990	585
12. Kapolei-Ko 'Olina - Kalaeloa	9. Moanalua-Halawa	11,056	10,030	10,429	6,906	972	233
12. Kapolei-Ko 'Olina - Kalaeloa	10. 'Aiea-Pearl City	10,260	10,034	10,295	6,857	2,072	1,465
12. Kapolei-Ko 'Olina - Kalaeloa	11. Hono'uli'uli - 'Ewa Beach	13,088	11,071	12,801	8,136	2,954	2,866
12. Kapolei-Ko 'Olina - Kalaeloa	12. Kapolei-Ko 'Olina - Kalaeloa	68,810	60,373	67,164	29,072	20,170	19,751
12. Kapolei-Ko 'Olina - Kalaeloa	13. Makakilo - Makaiwa	3,721	3,426	3,742	1,980	1,289	1,294
12. Kapolei-Ko 'Olina - Kalaeloa	14. Waipahu - Waikele - Kunia	9,898	9,537	9,817	5,916	2,086	1,943
12. Kapolei-Ko 'Olina - Kalaeloa	15. Waiawa-Koa Ridge	2,301	2,190	2,271	1,380	534	495
12. Kapolei-Ko 'Olina - Kalaeloa	16. Mililani - Meleman-Kipapa	2,998	2,919	2,980	1,860	402	333
12. Kapolei-Ko 'Olina - Kalaeloa	17. Wahiawa-Whitmore-Schofield	3,166	3,082	3,113	1,992	436	354
12. Kapolei-Ko 'Olina - Kalaeloa	18. East Honolulu	903	790	848	306	78	50
12. Kapolei-Ko 'Olina - Kalaeloa	19. Kane'ohe - Kahalu'u - Kualoa	1,157	1,063	1,085	592	302	242
12. Kapolei-Ko 'Olina - Kalaeloa	20. Kailua - Mokapu-Waimanalo	3,026	2,501	2,582	1,307	1,329	1,216
12. Kapolei-Ko 'Olina - Kalaeloa	21. Ko'olauloa	591	479	509	278	216	191
12. Kapolei-Ko 'Olina - Kalaeloa	22. North Shore	387	376	387	280	102	97

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
12. Kapolei-Ko ‘Olina - Kalaeloa	23. Wai'anae Coast	6,755	6,589	6,639	1,911	1,533	1,513
12. Kapolei-Ko ‘Olina - Kalaeloa	24. Manoa - Tantalus	1,648	1,531	1,653	1,012	388	319
12. Kapolei-Ko ‘Olina - Kalaeloa	25. University	10,865	9,996	10,884	4,628	1,375	999
13. Makakilo - Makaiwa	1. Ward-Chinatown	5,630	3,754	4,157	2,736	190	-281
13. Makakilo - Makaiwa	2. Kaka 'ako	2,172	1,540	2,259	1,838	546	465
13. Makakilo - Makaiwa	3. Punchbowl-Sheridan-Date	2,534	1,881	2,464	1,753	282	151
13. Makakilo - Makaiwa	4. Waikiki	7,608	8,097	7,819	7,007	5,520	5,106
13. Makakilo - Makaiwa	5. Kahala- Tantalus	845	560	753	473	327	224
13. Makakilo - Makaiwa	6. Pauoa-Kalihi	626	432	615	471	81	82
13. Makakilo - Makaiwa	7. Iwilei-Mapunapuna-Airport	1,559	1,480	2,059	1,562	-30	-268
13. Makakilo - Makaiwa	8. Hickam-Pearl Harbor	1,895	4,101	4,756	4,306	401	-105
13. Makakilo - Makaiwa	9. Moanalua-Halawa	3,172	2,214	2,699	2,321	282	-28
13. Makakilo - Makaiwa	10. ‘Aiea-Pearl City	2,582	2,326	2,708	2,398	455	282
13. Makakilo - Makaiwa	11. Hono‘uli'uli - ‘Ewa Beach	1,794	1,650	1,909	1,489	971	969
13. Makakilo - Makaiwa	12. Kapolei-Ko ‘Olina - Kalaeloa	6,951	5,767	7,164	3,842	4,040	4,131
13. Makakilo - Makaiwa	13. Makakilo - Makaiwa	398	399	399	331	293	296
13. Makakilo - Makaiwa	14. Waipahu - Waikele - Kunia	1,930	1,681	2,014	1,688	665	645
13. Makakilo - Makaiwa	15. Waiawa-Koa Ridge	378	313	398	284	206	224
13. Makakilo - Makaiwa	16. Mililani - Meleman-Kipapa	620	537	658	588	210	191
13. Makakilo - Makaiwa	17. Wahiawa-Whitmore-Schofield	664	569	695	637	235	213
13. Makakilo - Makaiwa	18. East Honolulu	178	110	157	38	27	14
13. Makakilo - Makaiwa	19. Kane‘ohe - Kahalu‘u - Kualoa	192	131	180	139	138	112
13. Makakilo - Makaiwa	20. Kailua - Mokapu-Waimanalo	486	369	421	279	425	377
13. Makakilo - Makaiwa	21. Ko‘olauloa	105	69	91	73	109	94
13. Makakilo - Makaiwa	22. North Shore	76	67	79	81	38	37
13. Makakilo - Makaiwa	23. Wai'anae Coast	541	541	541	301	197	205
13. Makakilo - Makaiwa	24. Manoa - Tantalus	330	252	364	312	155	128
13. Makakilo - Makaiwa	25. University	3,098	2,258	3,064	1,043	589	406
14. Waipahu - Waikele - Kunia	1. Ward-Chinatown	19,664	17,358	16,573	16,739	3,837	2,705
14. Waipahu - Waikele - Kunia	2. Kaka 'ako	3,982	3,483	3,975	4,007	921	662
14. Waipahu - Waikele - Kunia	3. Punchbowl-Sheridan-Date	12,989	11,857	12,360	11,991	2,852	1,902
14. Waipahu - Waikele - Kunia	4. Waikiki	25,072	27,938	24,718	26,830	7,495	6,372
14. Waipahu - Waikele - Kunia	5. Kahala- Tantalus	1,488	1,291	1,345	1,255	448	295
14. Waipahu - Waikele - Kunia	6. Pauoa-Kalihi	1,719	1,557	1,653	1,687	359	236
14. Waipahu - Waikele - Kunia	7. Iwilei-Mapunapuna-Airport	5,209	5,345	5,753	5,809	1,293	679
14. Waipahu - Waikele - Kunia	8. Hickam-Pearl Harbor	5,816	10,267	10,766	10,888	2,317	1,064
14. Waipahu - Waikele - Kunia	9. Moanalua-Halawa	7,757	6,844	7,120	7,053	1,470	848
14. Waipahu - Waikele - Kunia	10. ‘Aiea-Pearl City	7,878	7,574	7,968	8,027	2,007	1,256
14. Waipahu - Waikele - Kunia	11. Hono‘uli'uli - ‘Ewa Beach	2,538	2,286	2,547	2,312	676	680
14. Waipahu - Waikele - Kunia	12. Kapolei-Ko ‘Olina - Kalaeloa	8,486	8,945	8,361	4,815	1,483	1,513
14. Waipahu - Waikele - Kunia	13. Makakilo - Makaiwa	565	522	577	413	192	194

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
14. Waipahu - Waikele - Kunia	14. Waipahu - Waikele - Kunia	5,786	5,077	5,786	5,954	2,529	2,470
14. Waipahu - Waikele - Kunia	15. Waiawa-Koa Ridge	1,890	1,587	1,891	2,021	1,025	1,014
14. Waipahu - Waikele - Kunia	16. Mililani - Meleman-Kipapa	1,844	1,718	1,860	1,952	331	299
14. Waipahu - Waikele - Kunia	17. Wahiawa-Whitmore-Schofield	1,729	1,600	1,729	1,769	366	331
14. Waipahu - Waikele - Kunia	18. East Honolulu	265	220	239	162	53	35
14. Waipahu - Waikele - Kunia	19. Kane‘ohe - Kahalu‘u - Kualoa	579	499	532	541	376	312
14. Waipahu - Waikele - Kunia	20. Kailua - Mokapu-Waimanalo	909	769	786	743	601	547
14. Waipahu - Waikele - Kunia	21. Ko‘olauloa	125	106	108	106	89	81
14. Waipahu - Waikele - Kunia	22. North Shore	211	181	211	203	112	111
14. Waipahu - Waikele - Kunia	23. Wai'anae Coast	175	216	175	129	39	40
14. Waipahu - Waikele - Kunia	24. Manoa - Tantalus	568	527	589	600	196	156
14. Waipahu - Waikele - Kunia	25. University	4,166	3,694	4,036	2,729	919	660
15. Waiawa-Koa Ridge	1. Ward-Chinatown	15,903	14,699	13,766	13,736	10,146	8,243
15. Waiawa-Koa Ridge	2. Kaka 'ako	3,426	3,212	3,451	3,423	1,975	1,598
15. Waiawa-Koa Ridge	3. Punchbowl-Sheridan-Date	9,955	9,547	9,543	9,162	4,554	3,517
15. Waiawa-Koa Ridge	4. Waikiki	23,082	24,954	22,968	23,832	18,756	15,204
15. Waiawa-Koa Ridge	5. Kahala- Tantalus	1,196	1,065	1,082	973	662	463
15. Waiawa-Koa Ridge	6. Pauoa-Kalihi	1,440	1,365	1,372	1,392	768	579
15. Waiawa-Koa Ridge	7. Iwilei-Mapunapuna-Airport	4,484	4,864	4,978	4,980	2,542	2,309
15. Waiawa-Koa Ridge	8. Hickam-Pearl Harbor	4,780	8,368	8,476	8,448	3,081	2,062
15. Waiawa-Koa Ridge	9. Moanalua-Halawa	6,597	5,971	6,019	5,951	1,646	1,042
15. Waiawa-Koa Ridge	10. ‘Aiea-Pearl City	4,317	4,394	4,401	4,397	4,393	3,780
15. Waiawa-Koa Ridge	11. Hono‘uli'uli - 'Ewa Beach	2,036	2,014	2,040	2,056	476	491
15. Waiawa-Koa Ridge	12. Kapolei-Ko ‘Olina - Kalaeloa	6,604	6,785	6,554	4,926	1,159	1,290
15. Waiawa-Koa Ridge	13. Makakilo - Makaiwa	420	397	427	389	83	97
15. Waiawa-Koa Ridge	14. Waipahu - Waikele - Kunia	6,519	6,175	6,519	6,629	2,884	2,887
15. Waiawa-Koa Ridge	15. Waiawa-Koa Ridge	-354	-505	-354	-354	3,381	3,714
15. Waiawa-Koa Ridge	16. Mililani - Meleman-Kipapa	3,066	2,810	3,087	3,139	2,423	2,866
15. Waiawa-Koa Ridge	17. Wahiawa-Whitmore-Schofield	2,910	2,876	2,910	2,910	2,558	2,737
15. Waiawa-Koa Ridge	18. East Honolulu	232	208	216	154	88	62
15. Waiawa-Koa Ridge	19. Kane‘ohe - Kahalu‘u - Kualoa	481	447	448	446	474	397
15. Waiawa-Koa Ridge	20. Kailua - Mokapu-Waimanalo	940	809	807	781	719	598
15. Waiawa-Koa Ridge	21. Ko‘olauloa	111	101	102	102	95	111
15. Waiawa-Koa Ridge	22. North Shore	243	242	243	243	179	248
15. Waiawa-Koa Ridge	23. Wai'anae Coast	237	285	237	178	26	26
15. Waiawa-Koa Ridge	24. Manoa - Tantalus	421	409	440	440	246	190
15. Waiawa-Koa Ridge	25. University	2,807	2,531	2,762	1,785	1,197	908
16. Mililani - Meleman-Kipapa	1. Ward-Chinatown	11,177	9,196	7,299	7,129	-275	-1,430
16. Mililani - Meleman-Kipapa	2. Kaka 'ako	4,068	3,532	4,107	3,993	518	31
16. Mililani - Meleman-Kipapa	3. Punchbowl-Sheridan-Date	4,983	4,602	4,655	4,349	491	-29
16. Mililani - Meleman-Kipapa	4. Waikiki	5,082	6,172	5,122	5,515	918	355

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
16. Mililani - Meleman-Kipapa	5. Kahala- Tantalus	1,483	1,183	1,239	1,102	230	37
16. Mililani - Meleman-Kipapa	6. Pauoa-Kalihi	1,452	1,217	1,281	1,311	102	-53
16. Mililani - Meleman-Kipapa	7. Iwilei-Mapunapuna-Airport	3,753	4,181	4,522	4,534	621	178
16. Mililani - Meleman-Kipapa	8. Hickam-Pearl Harbor	4,628	11,466	11,765	11,673	2,563	1,131
16. Mililani - Meleman-Kipapa	9. Moanalua-Halawa	8,846	7,414	7,476	7,288	777	112
16. Mililani - Meleman-Kipapa	10. ʻAiea-Pearl City	6,560	6,692	6,704	6,713	1,945	1,266
16. Mililani - Meleman-Kipapa	11. Hono'uli'uli - 'Ewa Beach	2,224	2,215	2,233	2,143	313	313
16. Mililani - Meleman-Kipapa	12. Kapolei-Ko ʻOlina - Kalaeloa	7,484	8,070	7,437	5,348	1,277	1,286
16. Mililani - Meleman-Kipapa	13. Makakilo - Makaiwa	435	421	441	402	109	109
16. Mililani - Meleman-Kipapa	14. Waipahu - Waikele - Kunia	3,517	3,388	3,565	3,655	1,329	1,329
16. Mililani - Meleman-Kipapa	15. Waiawa-Koa Ridge	775	113	762	657	2,071	2,365
16. Mililani - Meleman-Kipapa	16. Mililani - Meleman-Kipapa	3,585	3,370	3,649	3,396	1,878	1,883
16. Mililani - Meleman-Kipapa	17. Wahiawa-Whitmore-Schofield	3,329	3,328	3,453	3,329	2,055	2,116
16. Mililani - Meleman-Kipapa	18. East Honolulu	311	227	255	88	8	-19
16. Mililani - Meleman-Kipapa	19. Kaneʻohe - Kahalu'u - Kualoa	515	446	459	454	360	277
16. Mililani - Meleman-Kipapa	20. Kailua - Mokapu-Waimanalo	1,041	834	838	802	685	585
16. Mililani - Meleman-Kipapa	21. Ko'olauloa	220	220	220	220	203	203
16. Mililani - Meleman-Kipapa	22. North Shore	440	440	440	440	309	313
16. Mililani - Meleman-Kipapa	23. Wai'anae Coast	304	373	304	229	25	25
16. Mililani - Meleman-Kipapa	24. Manoa - Tantalus	572	534	620	609	113	49
16. Mililani - Meleman-Kipapa	25. University	4,453	3,839	4,465	2,225	257	-45
17. Wahiawa-Whitmore-Schofield	1. Ward-Chinatown	3,599	2,869	2,243	2,236	-117	-648
17. Wahiawa-Whitmore-Schofield	2. Kaka 'ako	1,413	1,149	1,361	1,354	62	-126
17. Wahiawa-Whitmore-Schofield	3. Punchbowl-Sheridan-Date	1,320	1,144	1,157	1,104	15	-179
17. Wahiawa-Whitmore-Schofield	4. Waikiki	1,353	1,786	1,324	1,536	90	-153
17. Wahiawa-Whitmore-Schofield	5. Kahala- Tantalus	348	237	262	218	16	-55
17. Wahiawa-Whitmore-Schofield	6. Pauoa-Kalihi	377	334	343	354	2	-51
17. Wahiawa-Whitmore-Schofield	7. Iwilei-Mapunapuna-Airport	1,283	1,583	1,698	1,696	234	107
17. Wahiawa-Whitmore-Schofield	8. Hickam-Pearl Harbor	1,137	3,718	3,779	3,775	1,049	459
17. Wahiawa-Whitmore-Schofield	9. Moanalua-Halawa	3,077	2,532	2,551	2,494	361	66
17. Wahiawa-Whitmore-Schofield	10. ʻAiea-Pearl City	1,517	1,537	1,538	1,537	538	329
17. Wahiawa-Whitmore-Schofield	11. Hono'uli'uli - 'Ewa Beach	610	601	614	649	45	44
17. Wahiawa-Whitmore-Schofield	12. Kapolei-Ko ʻOlina - Kalaeloa	2,487	2,681	2,498	1,736	183	180

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
17. Wahiawa-Whitmore-Schofield	13. Makakilo - Makaiwa	137	139	140	121	26	26
17. Wahiawa-Whitmore-Schofield	14. Waipahu - Waikele - Kunia	1,014	992	1,009	1,125	282	280
17. Wahiawa-Whitmore-Schofield	15. Waiawa-Koa Ridge	-211	-345	-255	-255	598	599
17. Wahiawa-Whitmore-Schofield	16. Mililani - Meleman-Kipapa	2,352	1,888	1,888	1,888	415	408
17. Wahiawa-Whitmore-Schofield	17. Wahiawa-Whitmore-Schofield	1,454	1,585	1,585	1,585	599	623
17. Wahiawa-Whitmore-Schofield	18. East Honolulu	81	51	61	11	-1	-13
17. Wahiawa-Whitmore-Schofield	19. Kane‘ohe - Kahalu‘u - Kualoa	108	87	89	89	90	57
17. Wahiawa-Whitmore-Schofield	20. Kailua - Mokapu-Waimanalo	497	420	418	394	332	282
17. Wahiawa-Whitmore-Schofield	21. Ko‘olauloa	108	108	108	108	102	102
17. Wahiawa-Whitmore-Schofield	22. North Shore	300	300	300	300	233	236
17. Wahiawa-Whitmore-Schofield	23. Wai‘anae Coast	118	153	118	86	3	3
17. Wahiawa-Whitmore-Schofield	24. Manoa - Tantalus	149	141	169	180	40	8
17. Wahiawa-Whitmore-Schofield	25. University	1,250	1,009	1,178	238	-80	-229
18. East Honolulu	1. Ward-Chinatown	-1,958	-2,687	-2,972	90	603	543
18. East Honolulu	2. Kaka 'ako	1,804	1,531	2,623	291	593	318
18. East Honolulu	3. Punchbowl-Sheridan-Date	3,394	1,960	2,856	1,847	2,212	1,906
18. East Honolulu	4. Waikiki	1,142	9	1,445	-842	-548	-660
18. East Honolulu	5. Kahala- Tantalus	863	862	1,086	802	1,300	1,183
18. East Honolulu	6. Pauoa-Kalihi	-283	-202	-157	-127	0	-4
18. East Honolulu	7. Iwilei-Mapunapuna-Airport	188	427	886	-662	19	-77
18. East Honolulu	8. Hickam-Pearl Harbor	-709	1,766	2,025	1,492	250	63
18. East Honolulu	9. Moanalua-Halawa	1,182	391	610	-16	-621	-767
18. East Honolulu	10. ‘Aiea-Pearl City	853	451	528	204	265	252
18. East Honolulu	11. Hono‘uli‘uli - ‘Ewa Beach	77	43	51	64	38	27
18. East Honolulu	12. Kapolei-Ko ‘Olina - Kalaeloa	312	170	206	-9	119	29
18. East Honolulu	13. Makakilo - Makaiwa	24	19	20	7	13	9
18. East Honolulu	14. Waipahu - Waikele - Kunia	277	171	208	190	87	77
18. East Honolulu	15. Waiawa-Koa Ridge	-38	-49	-41	-26	249	248
18. East Honolulu	16. Mililani - Meleman-Kipapa	78	2	10	-15	99	99
18. East Honolulu	17. Wahiawa-Whitmore-Schofield	29	-13	21	2	134	136
18. East Honolulu	18. East Honolulu	443	443	427	585	618	617
18. East Honolulu	19. Kane‘ohe - Kahalu‘u - Kualoa	28	14	-17	132	94	139
18. East Honolulu	20. Kailua - Mokapu-Waimanalo	289	289	275	376	270	376
18. East Honolulu	21. Ko‘olauloa	10	7	-5	54	56	56
18. East Honolulu	22. North Shore	5	8	8	20	21	21
18. East Honolulu	23. Wai‘anae Coast	12	6	-1	-23	3	-2
18. East Honolulu	24. Manoa - Tantalus	-69	-67	41	309	305	304
18. East Honolulu	25. University	-104	-131	-62	274	341	334
19. Kane‘ohe - Kahalu‘u - Kualoa	1. Ward-Chinatown	-3,953	-4,092	-4,193	-4,174	-3,169	-3,073
19. Kane‘ohe - Kahalu‘u - Kualoa	2. Kaka 'ako	-521	-842	-841	-832	-496	-519
19. Kane‘ohe - Kahalu‘u - Kualoa	3. Punchbowl-Sheridan-Date	989	-863	-934	-865	-367	-414

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
19. Kane'ohe - Kahalu'u - Kualoa	4. Waikiki	1,423	223	-1,050	-865	-127	-131
19. Kane'ohe - Kahalu'u - Kualoa	5. Kahala- Tantalus	196	-601	-599	-272	-47	-101
19. Kane'ohe - Kahalu'u - Kualoa	6. Pauoa-Kalihi	133	132	131	141	290	288
19. Kane'ohe - Kahalu'u - Kualoa	7. Iwilei-Mapunapuna-Airport	-852	-1,085	-884	-758	-17	-150
19. Kane'ohe - Kahalu'u - Kualoa	8. Hickam-Pearl Harbor	-794	3,146	3,307	3,635	1,113	763
19. Kane'ohe - Kahalu'u - Kualoa	9. Moanalua-Halawa	1,766	680	771	997	216	47
19. Kane'ohe - Kahalu'u - Kualoa	10. 'Aiea-Pearl City	2,175	1,926	1,969	2,064	1,884	1,848
19. Kane'ohe - Kahalu'u - Kualoa	11. Hono'uli'uli - 'Ewa Beach	165	145	154	181	53	44
19. Kane'ohe - Kahalu'u - Kualoa	12. Kapolei-Ko 'Olina - Kalaeloa	622	538	575	276	172	80
19. Kane'ohe - Kahalu'u - Kualoa	13. Makakilo - Makaiwa	15	13	14	12	7	3
19. Kane'ohe - Kahalu'u - Kualoa	14. Waipahu - Waikele - Kunia	809	750	778	841	332	317
19. Kane'ohe - Kahalu'u - Kualoa	15. Waiawa-Koa Ridge	96	83	89	93	390	387
19. Kane'ohe - Kahalu'u - Kualoa	16. Mililani - Meleman-Kipapa	144	123	129	130	165	162
19. Kane'ohe - Kahalu'u - Kualoa	17. Wahiawa-Whitmore-Schofield	140	125	125	131	196	198
19. Kane'ohe - Kahalu'u - Kualoa	18. East Honolulu	42	-89	-78	-48	-55	-40
19. Kane'ohe - Kahalu'u - Kualoa	19. Kane'ohe - Kahalu'u - Kualoa	1,028	1,026	1,026	1,026	1,126	1,074
19. Kane'ohe - Kahalu'u - Kualoa	20. Kailua - Mokapu-Waimanalo	1,709	1,709	1,709	1,709	1,650	1,716
19. Kane'ohe - Kahalu'u - Kualoa	21. Ko'olauloa	-51	-51	-51	-51	-50	-49
19. Kane'ohe - Kahalu'u - Kualoa	22. North Shore	82	43	43	43	40	41
19. Kane'ohe - Kahalu'u - Kualoa	23. Wai'anae Coast	20	32	17	3	-3	-9
19. Kane'ohe - Kahalu'u - Kualoa	24. Manoa - Tantalus	106	67	94	80	102	102
19. Kane'ohe - Kahalu'u - Kualoa	25. University	819	-153	-60	-165	-88	-89
20. Kailua - Mokapu-Waimanalo	1. Ward-Chinatown	205	-474	-597	-570	304	319
20. Kailua - Mokapu-Waimanalo	2. Kaka 'ako	360	-303	-299	-292	75	-16
20. Kailua - Mokapu-Waimanalo	3. Punchbowl-Sheridan-Date	1,501	-410	-480	-409	39	8
20. Kailua - Mokapu-Waimanalo	4. Waikiki	1,607	141	-838	-618	241	250
20. Kailua - Mokapu-Waimanalo	5. Kahala- Tantalus	389	-513	-485	-138	128	64
20. Kailua - Mokapu-Waimanalo	6. Pauoa-Kalihi	121	89	59	42	72	76
20. Kailua - Mokapu-Waimanalo	7. Iwilei-Mapunapuna-Airport	-217	-933	-767	-746	236	50
20. Kailua - Mokapu-Waimanalo	8. Hickam-Pearl Harbor	-617	1,950	2,094	2,448	609	144
20. Kailua - Mokapu-Waimanalo	9. Moanalua-Halawa	1,393	-448	-369	-302	-1,044	-1,253
20. Kailua - Mokapu-Waimanalo	10. 'Aiea-Pearl City	1,832	411	425	454	623	615
20. Kailua - Mokapu-Waimanalo	11. Hono'uli'uli - 'Ewa Beach	87	3	11	38	68	51

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
20. Kailua - Mokapu-Waimanalo	12. Kapolei-Ko ʻOlina - Kalaeloa	352	70	61	-162	250	90
20. Kailua - Mokapu-Waimanalo	13. Makakilo - Makaiwa	19	-4	3	2	24	17
20. Kailua - Mokapu-Waimanalo	14. Waipahu - Waikele - Kunia	525	130	219	288	229	184
20. Kailua - Mokapu-Waimanalo	15. Waiawa-Koa Ridge	47	5	7	10	457	456
20. Kailua - Mokapu-Waimanalo	16. Mililani - Meleman-Kipapa	100	13	15	14	137	137
20. Kailua - Mokapu-Waimanalo	17. Wahiawa-Whitmore-Schofield	38	10	10	10	194	199
20. Kailua - Mokapu-Waimanalo	18. East Honolulu	84	-16	-15	40	29	43
20. Kailua - Mokapu-Waimanalo	19. Kaneʻohe - Kahaluʻu - Kualoa	426	425	425	425	168	399
20. Kailua - Mokapu-Waimanalo	20. Kailua - Mokapu-Waimanalo	3,751	3,751	3,751	3,751	2,863	3,034
20. Kailua - Mokapu-Waimanalo	21. Ko'olauloa	124	124	124	124	113	122
20. Kailua - Mokapu-Waimanalo	22. North Shore	39	32	32	32	29	30
20. Kailua - Mokapu-Waimanalo	23. Wai'anae Coast	-12	-23	-30	-35	2	-3
20. Kailua - Mokapu-Waimanalo	24. Manoa - Tantalus	259	161	181	162	192	191
20. Kailua - Mokapu-Waimanalo	25. University	821	-55	1	-18	56	55
21. Koʻolauloa	1. Ward-Chinatown	735	555	519	523	1,271	994
21. Koʻolauloa	2. Kaka 'ako	255	140	137	145	427	314
21. Koʻolauloa	3. Punchbowl-Sheridan-Date	484	64	33	61	414	299
21. Koʻolauloa	4. Waikiki	705	60	-152	-102	575	468
21. Koʻolauloa	5. Kahala- Tantalus	211	-92	-77	-1	143	90
21. Koʻolauloa	6. Pauoa-Kalihi	96	97	96	96	163	130
21. Koʻolauloa	7. Iwilei-Mapunapuna-Airport	-8	-71	-36	-17	327	228
21. Koʻolauloa	8. Hickam-Pearl Harbor	32	995	1,058	1,191	415	251
21. Koʻolauloa	9. Moanalua-Halawa	292	59	83	155	-11	-89
21. Koʻolauloa	10. ʻAiea-Pearl City	267	180	181	227	209	187
21. Koʻolauloa	11. Hono'uli'uli - 'Ewa Beach	22	13	17	27	20	14
21. Koʻolauloa	12. Kapolei-Ko ʻOlina - Kalaeloa	165	125	135	88	122	62
21. Koʻolauloa	13. Makakilo - Makaiwa	7	5	6	6	6	4
21. Koʻolauloa	14. Waipahu - Waikele - Kunia	185	139	151	165	81	67
21. Koʻolauloa	15. Waiawa-Koa Ridge	98	50	56	64	102	104
21. Koʻolauloa	16. Mililani - Meleman-Kipapa	118	64	64	64	63	63
21. Koʻolauloa	17. Wahiawa-Whitmore-Schofield	249	138	138	138	133	135
21. Koʻolauloa	18. East Honolulu	43	-19	-3	8	17	13
21. Koʻolauloa	19. Kaneʻohe - Kahaluʻu - Kualoa	79	79	79	79	146	111
21. Koʻolauloa	20. Kailua - Mokapu-Waimanalo	448	448	448	448	512	478
21. Koʻolauloa	21. Ko'olauloa	1,235	1,235	1,235	1,235	1,262	1,248
21. Koʻolauloa	22. North Shore	623	366	366	366	350	352
21. Koʻolauloa	23. Wai'anae Coast	-3	-3	-5	-8	7	4
21. Koʻolauloa	24. Manoa - Tantalus	90	69	77	70	96	84
21. Koʻolauloa	25. University	1,022	64	98	101	297	228
22. North Shore	1. Ward-Chinatown	4,681	2,904	2,438	2,430	712	541
22. North Shore	2. Kaka 'ako	1,610	1,159	1,257	1,257	284	234
22. North Shore	3. Punchbowl-Sheridan-Date	1,984	1,616	1,628	1,513	230	95
22. North Shore	4. Waikiki	2,117	2,427	1,953	2,161	386	292

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
22. North Shore	5. Kahala- Tantalus	566	417	439	388	113	76
22. North Shore	6. Pauoa-Kalihi	397	285	285	289	87	70
22. North Shore	7. Iwilei-Mapunapuna-Airport	931	858	897	895	261	205
22. North Shore	8. Hickam-Pearl Harbor	1,054	2,669	2,711	2,706	556	254
22. North Shore	9. Moanalua-Halawa	2,006	1,471	1,484	1,451	133	-39
22. North Shore	10. ‘Aiea-Pearl City	1,042	1,011	1,011	1,011	367	289
22. North Shore	11. Hono‘uli‘uli - ‘Ewa Beach	298	286	288	303	36	37
22. North Shore	12. Kapolei-Ko ‘Olina - Kalaeloa	925	913	876	695	115	117
22. North Shore	13. Makakilo - Makaiwa	36	35	34	29	7	7
22. North Shore	14. Waipahu - Waikele - Kunia	748	663	693	722	180	180
22. North Shore	15. Waiawa-Koa Ridge	169	59	62	62	298	301
22. North Shore	16. Mililani - Meleman-Kipapa	608	434	434	434	230	232
22. North Shore	17. Wahiawa-Whitmore-Schofield	1,562	1,169	1,169	1,169	709	726
22. North Shore	18. East Honolulu	138	90	100	24	7	3
22. North Shore	19. Kane‘ohe - Kahalu‘u - Kualoa	106	97	103	102	106	91
22. North Shore	20. Kailua - Mokapu-Waimanalo	537	473	472	467	449	417
22. North Shore	21. Ko‘olauloa	457	457	457	457	454	447
22. North Shore	22. North Shore	937	721	721	721	602	605
22. North Shore	23. Wai‘anae Coast	51	61	48	39	7	7
22. North Shore	24. Manoa - Tantalus	265	224	262	269	63	39
22. North Shore	25. University	1,997	1,608	1,788	762	113	-203
23. Wai‘anae Coast	1. Ward-Chinatown	4,802	5,194	1,005	1,012	-1,452	-3,857
23. Wai‘anae Coast	2. Kaka 'ako	2,427	2,616	2,343	2,365	-36	-711
23. Wai‘anae Coast	3. Punchbowl-Sheridan-Date	2,825	3,310	2,377	1,982	-594	-1,685
23. Wai‘anae Coast	4. Waikiki	2,803	5,620	2,627	3,333	-177	-977
23. Wai‘anae Coast	5. Kahala- Tantalus	1,085	1,024	769	535	-54	-393
23. Wai‘anae Coast	6. Pauoa-Kalihi	453	592	324	364	-231	-536
23. Wai‘anae Coast	7. Iwilei-Mapunapuna-Airport	537	1,694	1,148	1,176	-390	-1,310
23. Wai‘anae Coast	8. Hickam-Pearl Harbor	1,866	12,245	10,655	10,689	1,141	-1,415
23. Wai‘anae Coast	9. Moanalua-Halawa	5,283	4,770	3,974	3,853	-254	-1,176
23. Wai‘anae Coast	10. ‘Aiea-Pearl City	2,446	2,918	2,502	2,510	549	295
23. Wai‘anae Coast	11. Hono‘uli‘uli - ‘Ewa Beach	710	916	710	674	149	240
23. Wai‘anae Coast	12. Kapolei-Ko ‘Olina - Kalaeloa	3,746	2,396	3,766	2,185	1,235	1,305
23. Wai‘anae Coast	13. Makakilo - Makaiwa	150	147	156	188	114	118
23. Wai‘anae Coast	14. Waipahu - Waikele - Kunia	2,630	2,913	2,630	2,644	548	541
23. Wai‘anae Coast	15. Waiawa-Koa Ridge	687	795	687	578	188	156
23. Wai‘anae Coast	16. Mililani - Meleman-Kipapa	612	723	629	651	84	64
23. Wai‘anae Coast	17. Wahiawa-Whitmore-Schofield	761	930	761	807	95	72
23. Wai‘anae Coast	18. East Honolulu	237	195	167	-21	-70	-122
23. Wai‘anae Coast	19. Kane‘ohe - Kahalu‘u - Kualoa	220	241	174	170	60	-22
23. Wai‘anae Coast	20. Kailua - Mokapu-Waimanalo	1,019	1,010	835	758	930	722
23. Wai‘anae Coast	21. Ko‘olauloa	8	6	-13	-11	43	21
23. Wai‘anae Coast	22. North Shore	117	134	117	128	42	40
23. Wai‘anae Coast	23. Wai‘anae Coast	2,413	2,413	2,413	2,940	609	610
23. Wai‘anae Coast	24. Manoa - Tantalus	409	501	467	488	52	-69
23. Wai‘anae Coast	25. University	4,684	4,621	4,284	963	-519	-1,256
24. Manoa - Tantalus	1. Ward-Chinatown	3,554	4,692	5,541	4,602	4,208	4,092
24. Manoa - Tantalus	2. Kaka 'ako	4,966	2,835	3,990	3,369	2,319	2,226
24. Manoa - Tantalus	3. Punchbowl-Sheridan-Date	2,360	2,197	2,434	2,155	1,263	1,251

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FROM District	TO District	Fixed Guideway Combination #1	Fixed Guideway Combination #2	Fixed Guideway Combination #3	Fixed Guideway 20-mile Alignment	Managed Lane Option #1	Managed Lane Option #2
24. Manoa - Tantalus	4. Waikiki	1,812	4,134	2,884	2,807	1,364	1,496
24. Manoa - Tantalus	5. Kahala- Tantalus	997	749	1,185	1,627	1,376	1,334
24. Manoa - Tantalus	6. Pauoa-Kalihi	-73	141	293	-125	296	281
24. Manoa - Tantalus	7. Iwilei-Mapunapuna-Airport	618	2,936	3,459	2,962	1,388	1,363
24. Manoa - Tantalus	8. Hickam-Pearl Harbor	9	3,769	4,309	4,087	933	540
24. Manoa - Tantalus	9. Moanalua-Halawa	1,852	1,370	1,864	1,452	-503	-662
24. Manoa - Tantalus	10. ‘Aiea-Pearl City	1,248	1,140	1,306	1,236	463	453
24. Manoa - Tantalus	11. Hono‘uli‘uli - ‘Ewa Beach	90	80	102	106	54	44
24. Manoa - Tantalus	12. Kapolei-Ko ‘Olina - Kalaeloa	340	280	350	96	154	67
24. Manoa - Tantalus	13. Makakilo - Makaiwa	11	10	11	8	9	8
24. Manoa - Tantalus	14. Waipahu - Waikele - Kunia	355	320	378	372	143	131
24. Manoa - Tantalus	15. Waiawa-Koa Ridge	-43	-50	-32	-46	304	304
24. Manoa - Tantalus	16. Mililani - Meleman-Kipapa	38	34	54	50	74	74
24. Manoa - Tantalus	17. Wahiawa-Whitmore-Schofield	-10	-15	-7	-13	103	105
24. Manoa - Tantalus	18. East Honolulu	152	86	116	147	95	102
24. Manoa - Tantalus	19. Kane‘ohe - Kahalu‘u - Kualoa	89	169	88	131	183	183
24. Manoa - Tantalus	20. Kailua - Mokapu-Waimanalo	520	602	522	567	627	627
24. Manoa - Tantalus	21. Ko‘olauloa	23	33	24	28	34	34
24. Manoa - Tantalus	22. North Shore	8	10	11	11	12	12
24. Manoa - Tantalus	23. Wai‘anae Coast	-3	1	0	-6	5	2
24. Manoa - Tantalus	24. Manoa - Tantalus	643	643	936	896	611	623
24. Manoa - Tantalus	25. University	954	947	1,070	1,002	771	802
25. University	1. Ward-Chinatown	3,305	2,728	2,394	856	1,274	1,204
25. University	2. Kaka 'ako	1,365	1,093	1,412	201	282	227
25. University	3. Punchbowl-Sheridan-Date	1,459	1,134	1,331	345	496	468
25. University	4. Waikiki	885	326	801	123	-19	-47
25. University	5. Kahala- Tantalus	52	10	59	104	179	143
25. University	6. Pauoa-Kalihi	348	350	353	61	124	121
25. University	7. Iwilei-Mapunapuna-Airport	800	896	1,005	179	276	259
25. University	8. Hickam-Pearl Harbor	204	617	661	315	119	76
25. University	9. Moanalua-Halawa	563	473	512	151	-7	-25
25. University	10. ‘Aiea-Pearl City	285	254	271	129	60	58
25. University	11. Hono‘uli‘uli - ‘Ewa Beach	33	29	31	7	1	1
25. University	12. Kapolei-Ko ‘Olina - Kalaeloa	68	43	65	6	12	7
25. University	13. Makakilo - Makaiwa	1	2	1	0	1	1
25. University	14. Waipahu - Waikele - Kunia	30	23	28	10	6	5
25. University	15. Waiawa-Koa Ridge	33	24	29	-8	44	44
25. University	16. Mililani - Meleman-Kipapa	6	5	6	1	3	3
25. University	17. Wahiawa-Whitmore-Schofield	0	0	1	-6	2	2
25. University	18. East Honolulu	74	27	31	32	54	54
25. University	19. Kane‘ohe - Kahalu‘u - Kualoa	65	50	66	29	48	45
25. University	20. Kailua - Mokapu-Waimanalo	89	76	89	64	76	76
25. University	21. Ko‘olauloa	0	0	0	0	0	0
25. University	22. North Shore	0	0	0	0	0	0
25. University	23. Wai‘anae Coast	0	0	0	0	0	0
25. University	24. Manoa - Tantalus	100	87	106	92	78	78
25. University	25. University	52	26	63	42	44	44
	Total Benefits	**1,535,902**	**1,409,475**	**1,529,717**	**1,245,861**	**439,860**	**331,364**

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