

COUNTY OF HAWAII
MASS TRANSIT AGENCY
BUS STOP LOCATION STUDY

DATA BASE OF PRIORITY STOPS



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June 2010

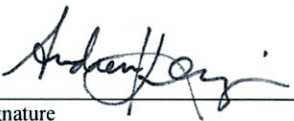
Statement of SSFM International, Inc.'s Quality Process

It is the policy of SSFM to have a consistent and systematic approach to the development and review of its reports and other project deliverables.

All projects and products of our service are subject to a quality process and in no case will the quality review be eliminated. The main purpose of this process is to assure:

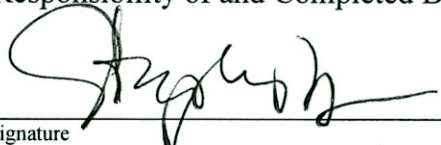
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- ❖ That the requirements of our Agreement with the Client have been met, and the Client has received the value of the fee to be paid.

The Preparation of This Report Was The
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The Quality Review of This Report Was The
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May 3, 2010
date

County of Hawaii Mass Transit Agency
Bus Stop Location Project

Data Base of Priority Stops

The County of Hawaii Mass Transit Agency (MTA) currently operates on a flagstop basis. With increased usage and traffic, MTA is moving into a designated bus stop program. SSFM International, Inc. (SSFM) was contracted to identify locations for bus stops islandwide and to determine if locations warrant an official bus stop listed in the Hawaii County Code. Official bus stops will need to be Americans with Disabilities Act (ADA) compliant.

This document is the second report in a three part series outlining improvement recommendations for the existing transit system. An Initial Screening Report was previously delivered, which consisted of a complete inventory of 575 existing bus stops island wide. This Data Base of Priority Stops takes into consideration a variety of determining factors and identifies a list of 253 bus stop locations recommended for improvements. The final report will outline recommendations for improvements, specifically pertaining to ADA compliance.

Multiple factors were taken into consideration to determine the best possible location for a bus stop within a given region. Criteria such as existing bus service, land use, population density, established ridership, and logical destination points were all determining factors.

This report is broken down into the following sections:

1. Methodology
2. Outline of Data Collected
3. Bus Stop Numbering
4. Bus Stop Index
5. Field Sheets

Section 1 – Methodology

In order to determine the recommended locations for future bus stops, a variety of factors were evaluated in order to make the best possible recommendation. Field work in conjunction with existing land use and infrastructure conditions provided the key factors in determining the most suitable bus stop locations. Destinations, an important criterion, included:

- Civic Centers
- Commercial Centers
- Schools
- Medical Facilities
- Major Residential Districts
- Established/Popular Stop Locations
- Recreational Facilities

Section 2 – Outline of Data Collected

Once the locations of priority stops were determined, a second field survey was conducted to determine the best point for locating the bus stops. Conditions such as proximity to an intersection or crosswalk, shoulder width, distance from utilities, and ADA compliant surfacing were all deciding factors for specific site locations.

After a site location was determined, field information was collected to create a Site Location Description. This Site Location Description includes: a stop name, direction, nearest intersection, GPS coordinates, measurements from surrounding landmarks, surrounding land use, and the nearest building or address.

Following the completion of the Site Location Description an Evaluation of Existing Amenities and Future Recommendations was conducted. Amenities evaluated included: informational displays, bench, bus pad, lighting, shelter, refuse, crosswalk, and signage were the primary amenities considered for this study.

Section 3 – Bus Stop Numbering

SSFm has provided a proposed numbering system for 253 proposed stops. It is recommended that MTA adopt this system or one similar.

The following section consists of field sheets for the 253 surveyed stops in Hawaii County. Each sheet includes a Site Location Description, an Evaluation of Existing Amenities and Future Recommendations, Americans with Disabilities Act compliance recommendations (discussed in detail in the Recommendations Report), an aerial photograph of the surrounding area from Google Earth, and photographs taken at the site.

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| Field sheets are organized into 9 sections by county district: |
| 1) Puna |
| 2) South Hilo |
| 3) North Hilo |
| 4) Hamakua |
| 5) North Kohala |
| 6) South Kohala |
| 7) North Kona |
| 8) South Kona |
| 9) Kau |

Once organized by district each location was assigned an identification number. The first digit is zero to allow for the expansion of service and a more sophisticated dividing system when necessary. The second digit denotes which district the bus stop is in. The final two digits were assigned to each bus stop to create a unique 4 digit identification number.

Section 4
Data Base Index

Bus Stop Location Project for County of Hawaii Mass Transit AgencyData Base of Priority Stops

01 - PUNA

| Bus Stop Number | Bus Stop Name |
|------------------------|-----------------------------|
| 0101 | Keaau 76 Station North |
| 0102 | Keaau 76 Station South |
| 0103 | Kuaaina Rd South |
| 0104 | Kuaaina Rd North |
| 0105 | Kurtistown Park South |
| 0106 | Kurtistown Park North |
| 0107 | Kurtistown A of G South |
| 0108 | Kurtistown A of G North |
| 0109 | Mt View Elementary |
| 0110 | Mt View Aloha Gas North |
| 0111 | Mt View Aloha Gas South |
| 0112 | Mauna Kea South |
| 0113 | Aloha Estates |
| 0114 | Kilauea General Store North |
| 0115 | Kilauea General Store South |
| 0116 | Makuu North |
| 0117 | Makuu South |
| 0118 | Pahoa 7-Eleven |
| 0119 | Pahoa Cash & Carry |
| 0120 | Pahoa High and Inter South |
| 0121 | Pahoa High and Inter North |
| 0122 | Isaac Hale Park |
| 0123 | Pahoa Village Road |
| 0124 | Nanawale Comm Assoc |
| 0125 | Pualaa Park |
| 0126 | MacKenzie State Park |
| 0127 | Opihikao Church |
| 0128 | Seaview Estates |
| 0129 | Volcano Viewing |
| 0130 | Leilani Ave |
| 0131 | Oneele Rd |

Bus Stop Location Project for County of Hawaii Mass Transit Agency

Data Base of Priority Stops

02 - S. HILO

| NUMBER | Bus Stop Name | NUMBER | Bus Stop Name |
|---------------|---------------------------------|---------------|----------------------------|
| 0200 | MTB | 0249 | Carlsmith Beach |
| 0210 | Bayfront Park & Ride East | 0250 | Keaukaha Beach Park |
| 0211 | Bayfrontfront Park & Ride West | 0251 | Ponds East |
| 0212 | Aupuni Street | 0252 | Ponds West |
| 0213 | Aupuni St | 0253 | St Joseph School East |
| 0214 | Hilo Shopping Center East | 0254 | St Joseph School West |
| 0215 | Hilo Shopping Center West | 0255 | Ka Waena Lapaau |
| 0216 | Prince Kuhio Plaza (Food Court) | 0256 | Hilo High School |
| 0217 | Hilo Medical Center | 0257 | Hilo Intermediate School |
| 0218 | Prince Kuhio West | 0258 | Hilo Library West |
| 0219 | Prince Kuhio East | 0259 | Hilo Library East |
| 0220 | Kayaminga Museum | 0260 | Kalakaua Park East |
| 0221 | Kulaimano Eldery Housing | 0261 | Kalakaua Park West |
| 0222 | Pepeekeo PO South | 0262 | Kaumana Caves East |
| 0223 | Pepeekeo PO North | 0263 | Kaumana Caves West |
| 0224 | Mai Way South | 0264 | J & P Store |
| 0225 | Mai Way North | 0265 | Kaumana Elementary East |
| 0226 | Kalaniana'ole North | 0266 | Kaumana Elementary West |
| 0227 | Kalaniana'ole South | 0267 | Iwalani St |
| 0228 | Lanikaula West | 0268 | Waikea Intermediate |
| 0229 | Lanikaula East | 0269 | Luana |
| 0230 | Ululani South | 0270 | Hihio |
| 0231 | Ululani North | 0271 | Ainako West |
| 0232 | UHH Student Housing | 0272 | Ainako East |
| 0233 | Hilo Baptist Church | 0273 | Wiliwili St West |
| 0234 | UHH Nursing School | 0274 | Wiliwili St East |
| 0235 | University Palms | 0275 | Gilbert Carvalho Park West |
| 0236 | UHH Handi-Stop | 0276 | Gilbert Carvalho Park East |
| 0237 | UHH Main stop | 0277 | KTA West |
| 0238 | Waiakea High School Kawili | 0278 | KTA East |
| 0239 | Waiakea High School Kapiolani | 0279 | Kahaopea |
| 0240 | HCC East | 0280 | Waiakeawaena Elementary |
| 0241 | HCC West | 0281 | Aloalo St |
| 0242 | Bank of Hawaii West | 0282 | Hilo Public Golf Course |
| 0243 | Bank of Hawaii East | 0283 | Kapaka |
| 0244 | Banyan Resorts Stop 1 | 0284 | Ainaola |
| 0245 | Banyan Resorts Stop 2 | 0285 | Alaloa Rd |
| 0246 | Banyan Resorts Stop 3 | 0286 | Ainaola Mart |
| 0247 | Banyan Resorts Stop 4 | 0287 | Haihai |
| 0248 | Leleiwi Beach Park | 0288 | Life Care Center |

Bus Stop Location Project for County of Hawaii Mass Transit Agency

Data Base of Priority Stops

03 - N. HILO

| Stop Number | Bus Stop Name |
|-------------|---------------------|
| 0301 | Laupahoehoe East |
| 0302 | Laupahoehoe West |
| 0303 | LP Minit Stop West |
| 0304 | LP Minit Stop East |
| 0305 | Hakalau Overpass NW |
| 0306 | Hakalau Overpass SE |

04 - HAMAKUA

| Stop Number | Bus Stop Name |
|-------------|----------------------------------|
| 0401 | Honokaa Hospital North |
| 0402 | Honokaa Hospital (Rear Entrance) |
| 0403 | Honokaa Park |
| 0404 | Blanes Drive-In East |
| 0405 | Blanes Drive-In West |
| 0406 | Honokaa HS East |
| 0407 | Honokaa HS West |
| 0408 | Paauilo Store East |
| 0409 | Paauilo Store West |

05 - N. KOHALA

| Stop Number | Bus Stop Name |
|-------------|-------------------------|
| 0501 | Junction 250 East |
| 0502 | Junction 250 West |
| 0503 | Kohala Town Center East |
| 0504 | Kohala Town Center West |
| 0505 | Ainakea North |
| 0506 | Ainakea South |

06 - S. KOHALA

| Stop Number | Bus Stop Name |
|-------------|------------------------|
| 0601 | Kawaihae North |
| 0602 | Kawaihae South |
| 0603 | Waikoloa Village West |
| 0604 | Waikoloa Village East |
| 0605 | Fairmont Orchid |
| 0606 | Mauna Lani Resort |
| 0607 | Mauna Kea Resort |
| 0608 | Hapuna Prince Resort |
| 0609 | Parker Ranch |
| 0610 | Waimea Elementary East |
| 0611 | Waimea Elementary West |
| 0612 | Pukalani West |
| 0613 | Pukalani East |
| 0614 | Kinohou East |
| 0615 | Kinohou West |
| 0616 | Mud Lane |
| 0617 | Nani Waimea |
| 0618 | Kalake |
| 0619 | HPA Village East |
| 0620 | HPA Village West |
| 0621 | Mahua St |
| 0622 | Ohina St |
| 0623 | HPA Main Campus East |
| 0624 | HPA Main Campus West |

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Data Base of Priority Stops

07 - N. KONA

| Stop Number | Bus Stop Name | Stop Number | Bus Stop Name |
|--------------------|----------------------------|--------------------|---------------------------|
| 0701 | Kona Airport | 0725 | Kona Bali Kai North |
| 0702 | Kuakini & Palani West | 0726 | Kona Bali Kai South |
| 0703 | Kuakini & Palani East | 0727 | Casa de Endeko |
| 0704 | Kona Seaside Shopping Mall | 0728 | Alii Lani |
| 0705 | King Kamehameha Kona Beach | 0729 | Kona Beach North |
| 0706 | Kona Bay (Lakina N) | 0730 | Kona Beach South |
| 0707 | Kona Bay (Lakina S) | 0731 | Kona Lulu's South |
| 0708 | Uncle Billy's South | 0732 | Coconut Grove Market |
| 0709 | Uncle Billy's North | 0733 | Kaiwi St |
| 0710 | Kona Target North | 0734 | Kekuaokalani Gym |
| 0711 | Kona Target South | 0735 | Lanihau Center South |
| 0712 | Kona Kmart | 0736 | Lanihau Center North |
| 0713 | Kona Walmart | 0737 | Kealakehe |
| 0714 | Waikoloa Queen's Shops | 0738 | Hina Lani |
| 0715 | Waikoloa Employee Stop | 0739 | Matsuyama North |
| 0716 | Waikoloa King Shops North | 0740 | Matsuyama South |
| 0717 | Waikoloa King Shops South | 0741 | Four Seasons Hualalai |
| 0718 | Keauhou Shopping Center | 0742 | Kainaliu Kona South |
| 0719 | Outrigger KBR North | 0743 | Kainaliu Kona North |
| 0720 | Outrigger KBR South | 0744 | Hwy 11 Junction 180 North |
| 0721 | Kahaluu BP South | 0745 | Hwy 11 Junction 180 South |
| 0722 | Kahaluu BP North | 0746 | Hongwanji Mission North |
| 0723 | Laaloa Bay BP South | 0747 | Takeshi Kamigaki South |
| 0724 | Laaloa Bay BP North | | |

Bus Stop Location Project for County of Hawaii Mass Transit AgencyData Base of Priority Stops

08 - S. KONA

| Stop Number | Bus Stop Name |
|--------------------|--------------------------|
| 0801 | Hookena Elementary North |
| 0802 | Hookena Elementary South |
| 0803 | Fujihara Store North |
| 0804 | Fujihara Store South |
| 0805 | Higashi Store |
| 0806 | Honaunau Post Office |
| 0807 | Keoki's |
| 0808 | Honaunau Elementary |
| 0809 | Yano Hall North |
| 0810 | Yano Hall South |
| 0811 | Konawaena School |

09 - KAU

| Stop Number | Bus Stop Name |
|--------------------|---------------------------|
| 0901 | Volcano National Park |
| 0902 | Pahala Town Center |
| 0903 | Punaluu BP |
| 0904 | Naalehu School South |
| 0905 | Naalehu School North |
| 0906 | Naalehu Civic Center East |
| 0907 | Naalehu Civic Center West |
| 0908 | Wong Yuen South |
| 0909 | Wong Yuen North |
| 0910 | Ocean View Post Office |

Section 5
Field Sheets