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TOWN OF CUTLER BAY MANAGEMENT TEAM

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Contents

Executive Summary	9
What is a Mobility Hub?	10
Mobility Hub Recommendations	11
Mobility Hub Types & Locations	13
Regional Hub	13
Community Hubs	15
Neighborhood Hubs	
Town Circulator Recommendations	20
Short-Term Recommendations	20
Long-Term Recommendations	20
Other Recommendations	
How Mobility Hubs Fit Into Our Transportation Landscape	22
Background	24
Town of Cutler Bay	26
Employment	
Demographics	
Land Use and Zoning	
Existing Conditions.	
Roadway Network	
Non-Motorized Facilities	
Transit	
On Demand Service	44
Sea Level Rise	45
Public Involvement	
Data Collection	48
Questionnaire and Survey	
Highlights	
Transit Data	
Metrobus	
MIOVision Analysis	
Bus Stop 1: SW 211 Avenue & Southland Mall (North Side)	



Bus Stop 2: SW 184 Street/Eureka Drive near US 1 / S. Dixie Highway	
Bus Stop 3: SW 87 Avenue / SW 190 Street	
Speedtracker Analysis	
Alternative Routes	
Short Term Alternative Recommendations	
Long Term Alternative Recommendations	
Cutler Bay Mobility Hubs	
Hub Site Selection	63
Design	
Conceptual Design	67
Bike & Pedestrian Facility Examples	
Basic Amenities	
Mobility Hub Amenities	
Neighborhood Hubs	
Lakes by the Bay	
Pinewood	
Whispering Pines	
Cutler Ridge	
The Isles	
Eureka Drive East	
Community Health	
Community Hubs	
Town Center	
Eureka Drive West	
Marlin Road	
Miami Heights	
South Dade	
Regional Hubs	
Cutler Bay Regional Hub	
Prioritization	
Implementation	
Funding	



List of Figures

Figure 1: Mobility Hub Concept Courtesy of SANDAG	10
Figure 2: Proposed Mobility Hubs Map	11
Figure 3: Regional Hub Template	
Figure 4: Community Hub Template	15
Figure 5: Neighborhood Hub Template	18
Figure 6: SMART Plan Corridor Map	24
Figure 7: SMART Plan, BRT Station Concept, Miami-Dade TPO	25
Figure 8: SMART Plan, BRT Station Concept, Miami-Dade TPO	25
Figure 9: Town of Cutler Bay Means of Transportation to Work	26
Figure 10: Census on the Map (2015)	
Figure 11: Census on the Map (2015)	
Figure 12: Town Future Land Use Map	
Figure 13: Town Zoning Map	
Figure 14: Regional County Bicycle Network	
Figure 15: Town Bicycle Facilities	34
Figure 16: Bicycle & Pedestrian Crashes, 2014 - 2018	35
Figure 17: Transit Routes Map	
Figure 18: Transit Coverage with Points of Interest Map	
Figure 19: Picture of Town Circulator	
Figure 20: Map of Town Circulator	
Figure 21: Town Bus Shelter	
Figure 22: Annual Ridership for Town Circulator	
Figure 23: Map of Future Sea Level Rise Projections at 2 Feet, NOAA	
Figure 24: Pubic Meeting - April 30, 2019	
Figure 25: Public Meeting - September 23, 2019	
Figure 26: Photos of Public Workshops	
Figure 27: Route 200 Survey Respondents Route Usage	
Figure 28: Route 200 Survey Respondents Route Usage & Trip Purpose	50
Figure 29: Route 200 Survey Respondents Satisfaction of Service & Means of Arrival to Bus Stop	
Figure 30: Route 200 Survey Respondents Desired Amenities at Bus Stop	
Figure 31: Northbound Boarding & Alighting Data	52



Figure 32: Southbound Boarding & Alighting Data	53
Figure 33: Town Circulator (Route 200) Average Daily Boarding & Alighting Data, 2018	54
Figure 34: Photo of Existing Bus Stop at SW 211 Ave, Southland Mall, north side	56
Figure 35: SW 211 Street Bus Stop Location Map	56
Figure 36: Photo of Existing Bus Stop on SW 184 Avenue, south side	57
Figure 37: SW 184 Street Bus Stop Location Map	57
Figure 38: Photo of Existing Bus Shelter at SW 87 Ave, west side	58
Figure 39: SW 87 Avenue Bus Stop Location Map	58
Figure 40: Transit Coverage Map of Existing Bus Stops	60
Figure 41: Proposed Alternative Routes	61
Figure 42: Proposed Mobility Hubs Location Map	64
Figure 43: Hub Analysis Map	65
Figure 44: Neighborhood Hub Template	67
Figure 45: Neighborhood Hub Plan Sheet Improvements	68
Figure 46: Community Hub Template	69
Figure 47: Community Hub Plan Sheet Improvements	70
Figure 48: Regional Hub Template	71
Figure 49: Regional Hub Plan Sheet Improvements	72
Figure 50: Examples of Pedestrian Crossings (Beginning left to right) - Baltimore, MD; Lompoc, CA; Montreal, Canada	73
Figure 51: Bike Facilities (From top left to right) - Queens Plaza, NY; NACTO Bikeway Design; Protected Bike Lane, Marachal Floriano, Brazil; Sevilla, S	pain; Sydney,
Australia, New York, NY	74
Figure 52: Linear Park Designs (Top Left to Right) - Madrid, Spain; Dandenong, Australia; San Mateo, CA; Japan	
Figure 53: Florida Friendly Design - Starkey Ranch, FL	76
Figure 54: Green Infrastructure Examples in Florida: Low Impact Design, Bioswales & Raingardens	
Figure 55: Pervious Hardscape Examples	77
Figure 56: Neighborhood Hub Template	85
Figure 57: Lakes by the Bay Aerial	86
Figure 58: Lakes by the Bay Analysis	
Figure 59: Pinewood Aerial	
Figure 60: Pinewood Neighborhood Hub Analysis	91
Figure 61: Caribbean/Franjo Neighborhood Hub Aerial	92
Figure 62: Caribbean Franjo Neighborhood Hub Analysis	94
Figure 63: Cutler Ridge Aerial Map	95



Figure 64: Cutler Ridge Neighborhood Analysis Figure 65: SW 216 Street Aerial	97
Figure 65: SW 216 Street Aerial	
Figure 66: The Isles Neighborhood Hub Analysis	100
Figure 67: Eureka Drive East Aerial	101
Figure 68: Eureka Drive East Analysis	103
Figure 69: Community Health Aerial	
Figure 70: Community Health Neighborhood Hub Analysis	106
Figure 71: Community Hub Template	107
Figure 72: Town Center Aerial	108
Figure 73: Town Center Community Hub Analysis	
Figure 74: Eureka Drive West Aerial	
Figure 75: Proposed Street Section for SW 184 Street	
Figure 76: Eureka Drive West Community Hub Analysis	
Figure 77: Marlin Community Hub Analysis	115
Figure 78: Marlin Community Hub Analysis	117
Figure 79: Miami Heights Aerial	118
Figure 80: Proposed Street Section of Transitway & U.S. 1 / South Dixie Highway	120
Figure 81: Miami Heights Community Hub Analysis	
Figure 82: South Dade Community Hub Aerial	122
Figure 83: South Dade Community Hub Analysis	
Figure 84: Regional Hub Template	125
Figure 85: Cutler Bay Regional Hub Aerial	126
Figure 86: Cutler Bay Regional Hub Analysis	128

List of Tables

Table 1: Mobility Hubs Ranked by Score	12
Table 2: Town of Cutler Bay Industry Sectors, Census on the Map (2015)	28
Table 3: Roadway Summary	32
Table 4: Summary of Town's Transit	
Table 5: 311 Citizen Requests, 2012 – 2018	44
Table 6: Cutler Bay Summary of Future Flood Occurrences	45
Table 7: Location of Video Detection Equipment	55
Table 7. Location of video Detection Equipment	



Table 8: Summary of SpeedTracker Analysis	59
Table 9: Mobility Hub Locations	63
Table 10: Mobility Hub Amenity Table	
Table 11: Lakes by the Bay Location Data	86
Table 12: Planned Improvements & Recommendations	
Table 13: Pinewood Location Data	
Table 14: Planned Improvements & Recommendations	
Table 15: Caribbean / Franjo Location Data	92
Table 16: Planned Improvements & Recommendations	
Table 17: Cutler Ridge Location Data	
Table 18: Planned Improvements & Recommendations	
Table 19: The Isles Location Data	
Table 20: Planned Improvements & Recommendations	
Table 21: Eureka Drive East Location Data	
Table 22: Planned Improvements & Recommendations	
Table 23: Community Health Location Data	
Table 24: Planned Improvements & Recommendations	
Table 25: Town Center Location Data	
Table 26: Recommendations	
Table 27: Eureka Drive West Location Data	
Table 28: Planned Improvements & Recommendations	
Table 29: Marlin Road Location Data	
Table 30: Planned Improvements & Recommendations	
Table 31: Miami Heights Location Data	
Table 32: Planned Improvements & Recommendations	
Table 33: South Dade Location Data	
Table 34: South Dade Recommendations	
Table 35: Cutler Bay Regional Hub Location Data	
Table 36: Planned Improvements & Recommendations	
Table 37: Criteria Used for Prioritization Ranking	
Table 38: Prioritization Scoring	
Table 39: Final Prioritization Ranking	
Table 40: Funding Sources	



Appendices

Appendix I: Public Information Plan Appendix II: Questionnaire & Survey Appendix III: Cost Estimates Appendix IV: Public Meeting Notes & Attendance Appendix V: Development Review Checklist for Mobility Hub Elements



EXECUTIVE SUMMARY

MARLIN Engineering was contracted by the Town of Cutler Bay to provide the community with a comprehensive system of Transit Mobility Hubs connecting to the South Dade Transitway and Town of Cutler Bay. This Plan seeks to improve connectivity, mobility and safety for pedestrians, bicyclists, and transit users through the identification of Neighborhood, Community and Regional Mobility Hubs throughout the Town's roadway network. A total of 12 Mobility Hubs were identified throughout the Town of Cutler Bay: Six Neighborhood Hubs, Five Community Hubs and One Regional Hub. The Plan includes the location of Mobility Hubs in addition to identified amenities, improvements and recommendations to create vibrant public spaces to garner the support needed for mode shift in the Town of Cutler Bay. Mobility Hub templates have been developed for each level of Mobility Hub; these templates act as a visual aid to the development of the Mobility Hub network for the Town. Additionally, three conceptual designs for each type of Mobility Hub have been developed. Furthermore, the MARLIN team analyzed the existing Town Circulator (Route 200) and provided short-term and long-term recommendations to improve mobility and service throughout the Town of Cutler Bay. Finally, a cost estimate for improvements and amenities has been provided along with a list of prioritized recommendations.

The *Town of Cutler Bay Mobility Hubs Plan* builds upon the recommendations provided from the Town's Transportation Master Plan, Bicycle & Pedestrian Master Plan, Complete Streets Corridor Analysis, Townwide Traffic Calming Master Plan, adopted Land Use Regulations; in addition to the Miami-Dade Transportation Planning Organization's (TPO) First Mile/Last Mile Options for High-Trip Generator Employers Study and Protected Bike Lanes Demonstration Plan. The Mobility Hubs Plan supports many of the recommendations previously provided and builds upon them to continue the momentum to create safer, more walkable streets for all types of users within the Town of Cutler Bay.





WHAT IS A MOBILITY HUB?

Mobility Hubs have been defined as "major transit station areas with significant levels of transit services, high development potential, and a critical function in the regional transportation system as major trip generators. They are places of connectivity where different modes of transportation – from walking to high-speed rail – come together seamlessly and where there is an intensive concentration of employment, living, shopping and/or recreation. In addition to serving as places to arrive, depart and wait for transit, successful mobility hubs have the potential to become vibrant places of activity and destinations in themselves." (Salsberg, 2010)

In essence, Mobility hubs are people places which integrate multimodal travel options, technology and support services to facilitate *efficient* transportation. Mobility hubs support and are supported by Transit Oriented Development (TOD). TOD's are areas which include a mixture of commercial, residential, office and entertainment uses centered around or located near a transit station.¹ TOD's are dense, walkable, mixed-use areas near transit, which attract people and add to vibrant, connected communities.



Figure 1: Mobility Hub Concept Courtesy of SANDAG

Mobility hubs have the potential to create a synergy with TOD's to create places for people and positively transform the community. Successful integration of this synergy can occur best with the support of stakeholders, elected officials, residents, the business community and governing organizations. Support for this synergy must include the implementation of TOD supportive zoning and land use regulations, government policies and public/private investments; which can spur the necessary development and support to create vibrant, attractive places where people want to eat, work and play.

Mobility hubs are more than transit stops, they integrate amenities for all types and all modes of transportation, and can include: pedestrian, bicycle, transit, vehicle, information, support services, technology and active uses.

¹ Federal Transit Administration



MOBILITY HUB RECOMMENDATIONS

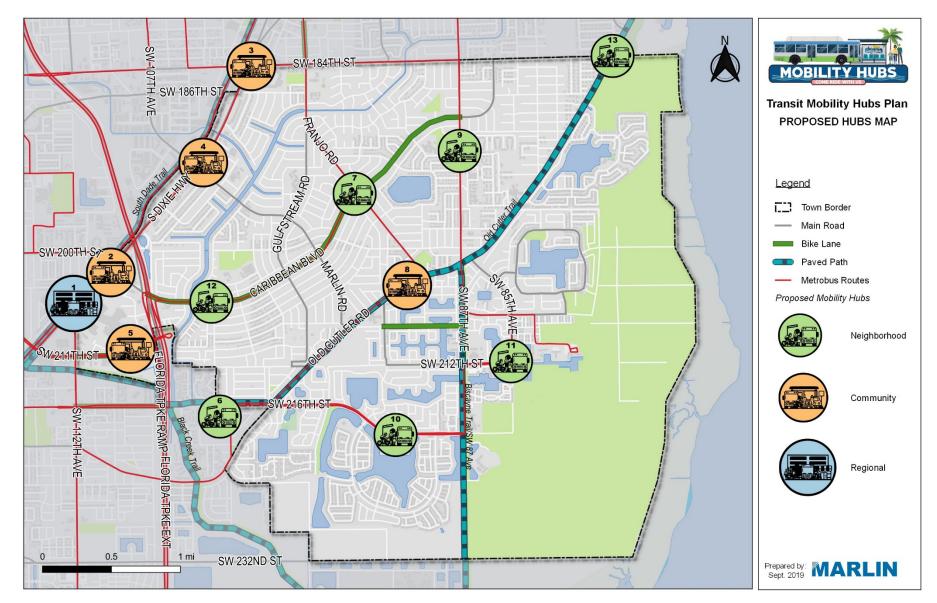


Figure 2: Proposed Mobility Hubs Map



Table 1: Mobility Hubs Ranked by Score

No.	Mobility Hub	Туре	Score
1	Cutler Bay Regional	Regional	33
2	Miami Heights	Community	24
3	Eureka Drive West	Community	22
4	Marlin	Community	17
5	South Dade	Community	15
6	Community Health	Neighborhood	11
7	Whispering Pines	Neighborhood	10
8	Town Center	Community	10
9	Pine Wood	Neighborhood	9
10	The Isles	Neighborhood	8
11	Lakes by the Bay	Neighborhood	6
12	Cutler Ridge	Neighborhood	5
13	Eureka Drive East	Neighborhood	5





Mobility Hub Types & Locations Regional Hub



Figure 3: Regional Hub Template



A Regional Hub is recommended at the existing Miami-Dade County Park & Ride facility located at SW 112th Avenue and the Transitway, near Target.

- Existing Routes 1, 31, 34, 35, 38, 39, 52 and 200.
- Existing Transitway Station Amenities: Shade, Seating, Trash Receptacle, Park & Ride and Signage.
- Existing Nearby Facilities: South Dade Trail, Retail/Restaurant, Industrial, Residential, and Southland Mall.

Recommendations

Amenities

Waiting Area for ride-hailing Transportation Network Companies (TNCs) Carshare Bikeshare Station Bicycle Repair Station Bicycle Storage Locker EV Charge Station

Infrastructure

Fill Sidewalk Gaps within ¼-mile Linear Park along Transitway Island **Real-Time Information**

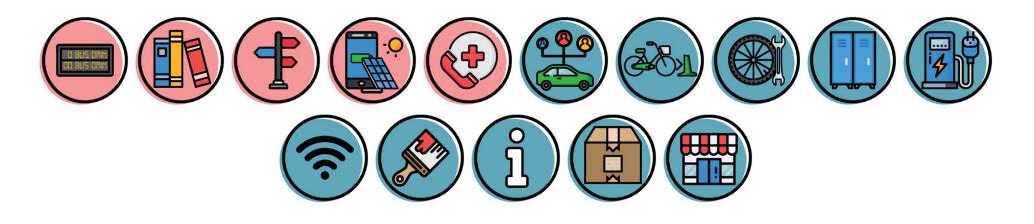
WiFi Lending Library Monument Sign USB Charge Port Security Camera

Pedestrian Lighting Pedestrian Promenade on the east side of US 1 & SW 112th Avenue



Public Art Information Kiosk Package Pickup Kiosk Retail

Landscape Enhancements Parking Structure with Real-Time Parking Information







Community Hubs



Figure 4: Community Hub Template



Community Hubs are recommended at the following locations:

1. Town Center: Old Cutler Road at Publix

- Existing Routes: 200 (Town Circulator)
- Existing Amenities: Shelter, Seating, Signage, Trash Receptacle, Bicycle Rack and Lighting.
- Existing Nearby Facilities: Old Cutler Trail, Retail/Restaurant, Residential, Hospital, Places of Worship.

2. Marlin: Marlin Road & U.S.1 / S. Dixie Hwy

- Existing Routes: 31, 35, 38, 200 (Town Circulator)
- Existing Amenities: Seating, Trash Receptacle, and Signage.
- Existing Transitway Amenities: Seating, Shade, Trash Receptacle, Lighting and Signage.
- Existing Nearby Facilities: Retail / Restaurants, Bank, Residential, Industrial, Schools, Career Center, Grocery and Place of Worship.

3. Eureka Drive West: Eureka Dr. / SW 184 St, East of U.S. 1 / S. Dixie Hwy.

- Existing Routes: 1, 31, 35, 38, 52, 200 (Town Circulator)
- Existing Amenities: Seating, Signage, and Trash Receptacle.
- Existing Transitway Amenities: Shelter, Seating, Trash Receptacle, Signage and Lighting.
- Existing Nearby Facilities: South Dade Trail, Retail/Restaurants, Bank, Fitness Center, Residential, Industrial, Park, Grocery, Places of Worship, Schools.

4. Miami Heights: SW 200 Ave. / Caribbean Blvd. & U.S. 1 / S. Dixie Hwy

- Existing Routes: 1, 31, 35, 38, 39, 52, 200 (Town Circulator).
- Existing Amenities: Seating, Trash Receptacle and Signage.
- Existing Transitway Amenities: Seating, Shade, Trash Receptacle, Lighting and Signage.
- Existing Nearby Facilities: South Dade Trail, Retail / Restaurant, Town Hall, Southland Mall, Residential, Hotel, and Office Park.

5. South Dade: SW 211 St. at Southland Mall / South Dade Government Center

- Existing Routes: 1, 31, 35, 39, 52, 137, 200 (Town Circulator), and 248.
- Existing Amenities: Seating, Shelter, Signage, Trash Receptacle, Bus Bay, Newspaper Rack, Lighting, and System Map.
- Existing Nearby Facilities: Southland Mall, South Dade Government Center, Library, Retail / Restaurants, Residential, South Dade Cultural Center, Police, Fire, Town Hall, Movie Theater, Humane Society, Hotel, Offices and Bank.





Recommendations

Amenities

Shelter Lighting Bikeshare Station Bicycle Rack Trash/Recycle Receptacle

Optional Amenities

Kiss & Ride Package Pickup Kiosk Information Kiosk

Infrastructure

Fill Sidewalk Gaps within ¼-Mile

Pedestrian Lighting Landscape Enhancements ADA Improvements USB Charging Station EV Charge Station Carshare Security Camera Emergency Callbox

Air Misting System WiFi Park & Ride

Midblock Crossing with Flashing Beacon & Signage (where feasible) High Emphasis Crosswalks Bicycle Lanes / Shared Use Path Pedestrian Crossing Signs Lending Library Public Art Public Space Real-Time Signage

Waiting Area for TNCs Bicycle Repair Station Bicycle Storage Locker

Increase Sidewalks to 8 – 10'

Street Furniture Bicycle Signals (where feasible) Bike Box (where feasible)





Neighborhood Hubs



Figure 5: Neighborhood Hub Template



Neighborhood Hubs are recommended at the following locations:

1. Lakes by the Bay: SW 85 Ave. & SW 212 St.

- Existing Routes: 200 (Town Circulator) and 287
- Existing Amenities: Shelter, Seating, Trash Receptacle, Lighting, Bike Rack and Signage.
- Existing Nearby Facilities: Residential, Schools and Park.

2. Pine Wood: SW 87 Ave. & SW 190 St.

- Existing Routes: 200 (Town Circulator) and 287
- Existing Amenities: Shelter, Seating, Trash Receptacle, Lighting, Signage & System Map.
- Existing Facilities Nearby: Residential, Schools, Place of Worship and Park.

3. Whispering Pines: Caribbean Blvd. & Franjo Rd.

- Existing Routes: 1 and 200 (Town Circulator)
- Existing Amenities: Seating, Bicycle Rack, Bus Bay and Signage.
- Existing Nearby Facilities: Residential and Schools.

4. Cutler Ride: Caribbean Blvd. & Anchor Rd.

- Existing Routes: 1 and 200 (Town Circulator)
- Existing Amenities: Seating, Shelter, Bicycle Rack, Trash Receptacle, Lighting and Signage.
- Existing Nearby Facilities: Places of Worship, Schools, Residential and Park.

5. The Isles: SW 216 St. & SW 89 Pl

- Existing Routes: 200 (Town Circulator) & 287
- Existing Amenities: None
- Existing Nearby Facilities: Biscayne Trail, Park and Residential.

6. Eureka Drive East: Old Cutler Road & SW 184 St.

- Existing Routes: None
- Existing Amenities: None
- Existing Nearby Facilities: Old Cutler Trail, Residential, Places of Worship, Palmetto Bay Village Center, and Schools.

7. Community Health: SW 216 St. & SW 102 Ave.



- Existing Routes: 52 and 287
- Existing Amenities: Seating, Trash Receptacle, Lighting, Bus Bay & Signage.
- Existing Nearby Facilities: Hospital, Old Cutler Trail, Residential, Places of Worship, and Parks.

Recommendations

Amenities

Shelter	Public Art	Trash/Recycle Receptacle
Seating	Pedestrian Plaza / Pocket Park	Bicycle Rack
Real-Time Signage	Lending Library	Emergency Callbox
Bikeshare	USB Charge Station	
Ontional Amonities		

Optional Amenities

Package Pickup Kiosk	Park & Ride	Air Misting System
Carshare	Security Camera	Motion Sensing Lighting
Pop-up Retail		

Infrastructure

 4-5' Bicycle Lanes
 Midblock Crossil

 Lighting & Signa
 Lighting & Signa

 10' Shared Use Path
 Curb Extensions

Landscape Enhancements Enhanced Pedestrian Crossings Midblock Crossings with Flashing Beacon, Inground Lighting & Signage Curb Extensions Travel Lane Reductions Fill Sidewalk Gaps within ¼-mile

Pedestrian Lighting

Bike Box Bicycle Signal Pedestrian Signage at Crossings

Town Circulator Recommendations

Short-Term Recommendations

- 1. Addition of counter-clockwise service to existing service to reduce wait times.
- 2. Extending hours of operation to include peak travel times.

Long-Term Recommendations

- 1. Bifurcate existing route into two routes and extend service to other areas of the community.
 - a. North Route would cover areas north of Old Cutler Road and west of SW 87 Ave., including the U.S. 1 / S. Dixie Hwy. commercial corridor.
 - b. South Route would cover areas south of Old Cutler Road and east of SW 87 Ave., including the Town Center District.
- 2. Commercial Circulator would cover the U.S. 1 / S. Dixie Hwy. corridor, at build out.



Other Recommendations

- Support of previous bicycle, pedestrian and transit recommendations from the following completed plans:
 - o Town of Cutler Bay Bicycle & Pedestrian Master Plan
 - o Town of Cutler Bay Complete Streets Corridor Analysis
 - o Town of Cutler Bay Transportation Master Plan
 - o Townwide Traffic Calming Master Plan
 - o Town Street Tree Master Plan
 - o Evaluation of Multimodal Mobility Options in the South Miami-Dade Area
 - o Countywide Bus and Auto/Rideshare Access to Transit Facility Assessment Study
 - o Miami-Dade County Vision Zero Plan
 - o Miami-Dade TPO First Mile-Last Mile: Options with High Trip Generator Employers
 - o The Strategic Miami Area Rapid Transit Plan (SMART) South Dade Transitway Corridor
 - o Miami-Dade TPO Protected Bike Lanes Demonstration Plan
- Support of Transit Corridor & Town Center Zoning Districts & Increased Density along U.S. 1 / S. Dixie Hwy.
- Incorporate Mobility Hub elements and amenities in future development projects.
- Allocate space for shared services such as on demand shuttles and rideshare companies, and consider the flexible use of that space where necessary.
- Partner with shared mobility service providers to integrate shared mobility services into a platform for trip planning and payment.
- Amend the development review process to encourage developers to incorporate Mobility Hub features into their projects.
- Adopt off-street parking requirements to better align with Mobility Hub investments.
- Implement flexible curb space to meet the needs of shared mobility services and the changing demands of users.
- Encourage businesses and/or developers to partner with government agencies to test technologies and service concepts in real world environments.
- Adopt a Branding & Marketing Plan and include a Wayfinding Signage Program.
- Explore the use of Shared Mobility Options.
- Explore the adoption of a Public Art Program to fund and implement Public Art throughout the Town.
- Create Transit Partnerships with neighboring communities.
- Implement Green Infrastructure Techniques for landscape enhancements.
- Create a Pedestrian Promenade along the east side of U.S. 1 / S. Dixie Hwy.
- Adopt of Curbside Management Plan.
- Adopt Transportation Demand Management policies.



HOW MOBILITY HUBS FIT INTO OUR TRANSPORTATION LANDSCAPE

Technology has provided people with information, data and a host of new inventions that allow the user to directly interface with data, traffic and commerce. These technological changes connect the Internet of Things (IoT)² in ways that can redefine our cities, infrastructure, organizations and behavior. Technological innovations are occurring at a pace in which governments are faced with the challenge to keep to pace and provide the necessary infrastructure and investments to ensure equitable growth. The Technology Industry and companies such as Uber and Lyft, are forcing states to rethink transportation. Technology, land use, population growth, climate change and consumer behavior are driving changes to our transportation landscape, by introducing new options in mobility. These industries are leveraging technology to provide services directly to the consumer. Cities, having experience in regulating traditional businesses, have policies, rules and regulations in place to regulate land use and how a community develops. New technologies are forcing cities to keep pace with the quickly changing landscape. Technological innovations are driving unforeseen market forces that are unpredictable, unknown and uncertain. Regulating these new products and services should be done in a way that allows innovation, equity and sustainability.

New mobility is a term for transportation services that are enabled, defined, or redefined by technology. This includes app-based, real-time, point-to-point, ondemand, multimodal, shared and electric services.

Land use in South Florida has been characterized by suburban auto-centric development that has encouraged sprawl and car dependency through the separation of uses. This method of zoning has forced people into their cars for trips that could be made by other modes of transportation, such as walking and/or biking. The average American spends nine days commuting in their car each year, and that number increases for those who live in metropolitan areas.³ The separation of land uses encourages sprawl and an auto centric design pattern that many Americans are now abandoning, preferring more compact, urban landscapes that promote mixed use development and transportation options. Last year, a survey of over 2,800 Americans across 28 major cities, including Miami, found that 23% of workers quit their job because of a bad commute – over a third of respondents were millennials.⁴ Studies have indicated that millennials - the largest generation of Americans born between 1983 and 2000 – are behaving differently than previous generations. Millennials are less car dependent, more likely to use transit, and more likely to be multimodal. They are also less interested in owning or relying on cars, prefer city living, and prefer walkable communities. Seniors are also preferring to age in place, moving to communities where they are less dependent on their vehicles. Cities across the nation have rezoned and revitalized their urban cores by introducing mixed-use, compact development that promote and encourage livability.

In 2014, Florida overtook New York as the third most populous state in the nation with over 21 million residents. Miami-Dade County is the most populous county in Florida, with approximately 2.5 million residents in 2010 and projected to grow over 30% by 2040, that's over 3.3 million new residents! This growth will put tremendous pressure on the **transportation network** and drive up already high **commute** times. The additional vehicles, from this future growth, have the potential

⁴ HR Firm Robert Half



² The concept of connecting any device with an on and off switch to the Internet (and/or to each other). (Forbes)

³ U.S. Census Bureau

to place pressures on existing infrastructure, reduce air quality, increase pollution, and reduce livability standards. With good planning, communities can improve quality of life for current and future resident through a forward-thinking approach to transportation; this can include a shift in land use, multi-modal infrastructure investment and alternative transportation modes.

The transportation sector contributes approximately 30% of **carbon emissions** to the overall carbon being emitted into the atmosphere. Carbon emissions are one of the largest contributors of greenhouse gases and climate change, which contribute to changes in precipitation, temperature changes, sea level rise and reduced air quality. As local governments take action to reduce the effects of climate change, curb greenhouse gas emissions and promote sustainability, more Americans are making eco-conscious decisions to reduce their personal environmental impact. Walking, biking and using transit are some of the most effective ways an individual can contribute to reducing their carbon footprint and encourage a healthy lifestyle. Cities can support and encourage their resident's transportation mode choice through land use, zoning, policies and infrastructure investments that encourage **multi-modal** transportation. Multi-modal investments provide options to residents, encourage healthy lifestyles and promote economic development.

Technology and the internet have led to a change in consumer behavior, Smartphones have provided people with the power of information, data and choice in their everyday lives, all at the comfort of their fingertips. **E-commerce**, one of the largest growing industry sectors today, is changing people's consumption behaviors and travel patterns. Retailers are now providing customers with grocery delivery services, food delivery services, free shipping and a number of goods and services that save you a trip to the store. These services have forced more cars and trucks onto our roads, further straining the transportation network. As e-commerce continues to grow, technology is being explored to handle the ever-increasing demand for delivery services.

In today's ever-changing transportation landscape, cities and government agencies are struggling to become **mobility managers**, through regulating the different options in mobility. Mobility hubs are a new and innovative concept, which is the center for all types of mobility options. Mobility Hubs connect into the larger transportation network, they aggregate services, include package delivery and aim to become smart centers of mobility for a seamless user experience.

Mobility hubs integrated with **technology**, have the potential to provide transportation solutions to land use, population growth, climate change, and e-commerce. Through the strategic placement of these hubs, towns and cities can provide residents and visitors with amenities, services and the information needed to create appealing choices for the mode shift required to handle the increasing demand on the transportation network.



BACKGROUND

Marlin Engineering (MARLIN) has been contracted by the Town of Cutler Bay to provide professional services to fulfill the needs of the recently awarded Miami-Dade Transportation Planning Organization (TPO) Strategic Miami Area Rapid Transit (SMART) Mobility Grant. This study provides the community with a comprehensive plan identifying a system of transit mobility hubs connecting to the South Dade Transitway and Cutler Bay Town Center. The goal of this study is to improve connectivity, mobility and safety for pedestrians, bicyclists, and transit users through identifying locations for neighborhood, community and regional level mobility hubs along the Town's roadway network. Each mobility hub type is accompanied by the appropriate scale of transportation infrastructure and amenities to facilitate usage of the hubs through recommendations, conceptual designs and visualizations. The study also includes an assessment of the Town's existing circulator and transit system, including recommendations to improve the Town's overall transit performance.

The SMART Plan, adopted in 2016, is a TPO adopted blueprint with the goal of improving transportation through the advancement of rapid transit corridors and transit supportive projects for Miami-Dade County. The South-Dade Transitway is one of the six major corridors identified for Bus Rapid Transit (BRT) service, and is one of the first corridors to begin implementation with an estimated ground breaking to occur December 2019. The South-Dade Transitway is a 20.1-mile exclusive busway parallel to U.S. 1 / South Dixie Highway, connecting the Dadeland South Metrorail Station in Miami to SW 344th Street / Palm Drive in Florida City, with 29 existing stations. Proposed improvements include 13 new BRT stations (see Figures 7 & 8) with improvements to two (2) existing terminals, the proposed new BRT Stations will be located at the following:



Figure 6: SMART Plan Corridor Map



- 1. Dadeland South Terminal Station (Metrorail)
- 2. SW 104th Street (Target)
- 3. SW 136th Street (Howard Drive / The Falls)
- 4. SW 152nd Street (SR-992 / Coral Reef Drive)
- 5. SW 168th Street (Richmond Drive)
- 6. SW 184th Street (Eureka Drive)
- 7. Marlin Road
- 8. SW 200th Street (Caribbean Boulevard)
- 9. SW 112th Avenue (SR-989 / Allapattah Road / Target)
- 10. SW 244th Street (Coconut Palm Drive)
- 11. SW 264th Street (Bauer Drive)
- 12. SW 296th Street
- 13. SW 312th Street (Campbell Drive)
- 14. NE 4th Drive (MDC Homestead Campus)
- 15. SW 177th Avenue (SR-997 / Krome Avenue / Homestead Multimodal)
- 16. SW 344th Street Terminal Station (SR-9336 / Palm Drive / Florida City)

New BRT stations will feature level boarding, transit signal preemption, pedestrian improvements, ticket vending machines, safety improvements and rehabilitation of existing stations. As of August 2019, the SMART Plan has received FTA approval for funding the South Dade Transitway Corridor project.



Figure 7: SMART Plan, BRT Station Concept, Miami-Dade TPO



Figure 8: SMART Plan, BRT Station Concept, Miami-Dade TPO



TOWN OF CUTLER BAY

The Town of Cutler Bay, incorporated in 2005, is located in South Miami-Dade County, bordered by Biscayne Bay to the east, the South Dade Transitway and Unincorporated Miami-Dade County to the west, SW 184th Street / Village of Palmetto Bay to the north and SW 232nd Street / Goulds Neighborhood to the south. The South Dade Metropolitan area, which includes Cutler Bay, Palmetto Bay, Florida City, Homestead, Kendall, and parts of unincorporated Miami-Dade County; is one of the fastest growing areas in the county and includes 50% of the county land area, 25% of the county population and 12% of the county employment. The County expects a growth rate of 30% through 2040, approximately 50% of the projected population growth is projected to occur within the South Dade Metropolitan Area, which includes Cutler Bay⁵.

As of 2018, the Town's population is estimated at 44,867, with approximately 3.5 persons per households. Approximately 90% of Cutler Bay's residents travel by car, on average, over 40 minutes to work each way due to the imbalance of jobs available in the area. This imbalance of jobs within the South Dade Metropolitan Area in combination with the autocentric development pattern has contributed to traffic congestion, carbon emissions and a preference for single occupant vehicle travel. Currently approximately 11% of the Town's residents carpool⁶. Many of the residents who live in the Town travel north for work, oftentimes, along the Town's only major arterial roadway, U.S. 1 / South Dixie Highway.

The Town, in recent years, has been subject to a number of studies to improve mobility, reduce traffic congestion and improve quality of life for those living in the region. In 2012, the Town rezoned the Southland Mall / South Dade Government Center and the U.S. 1 / South Dixie Highway commercial corridor, to encourage mixed-use development. The new zoning categories encourage a more compact transit-oriented design, and will prepare the Town for future growth while facilitating a pedestrian, transit-oriented development pattern to reduce auto dependency.

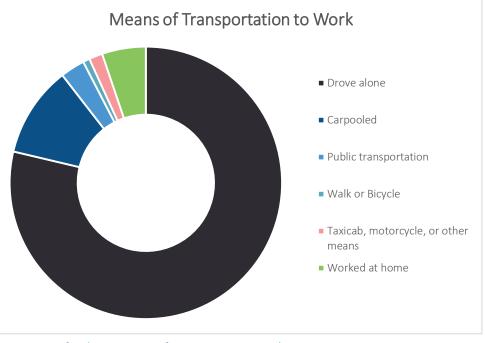


Figure 9: Town of Cutler Bay Means of Transportation to Work

Source: ACS, 2013-2017

⁶ American Community Survey, 2013 - 2017

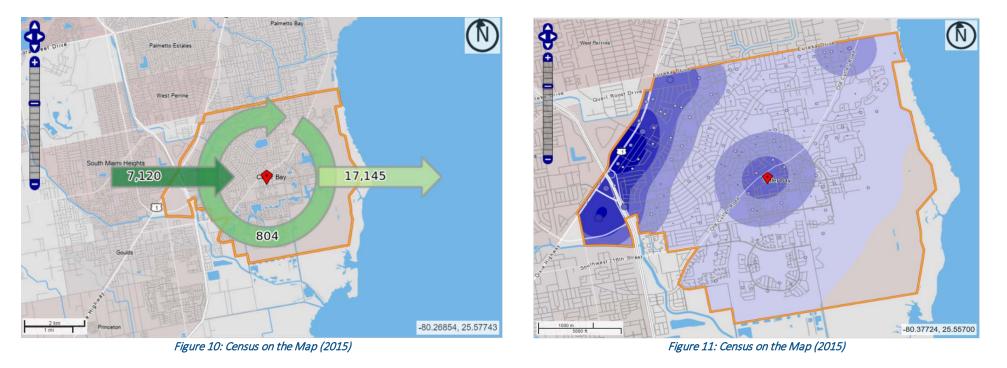


⁵ 2040 Long Range Transportation Plan

Employment⁷

The Town of Cutler Bay is characterized as a bedroom community with 95.5% of the Town's population traveling outside for work and only 4.5% of residents living and employed within the Town, see Figure 10.

As of 2012, there were approximately 5,941 jobs within the Town, a majority of these jobs are located along the U.S. 1 / South Dixie Highway corridor, as illustrated by Figure 11, darker areas signify heavier concentrations of employment. Top three industries located within the Town are Retail Trade (31%), Waste Management and Remediation (29%), and Accommodation and Food Services (18%).



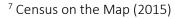
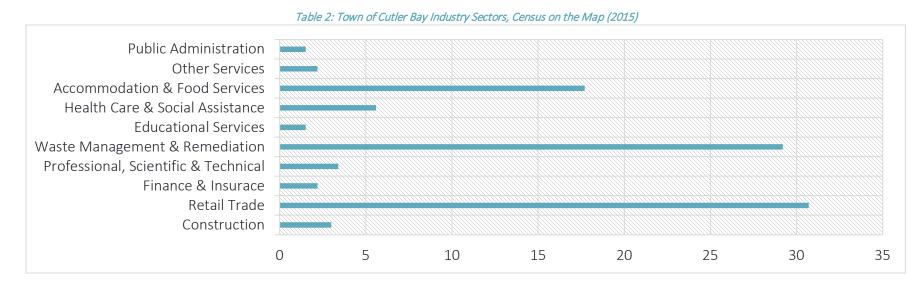




Table 2, provides additional information on the percentage of industry sector jobs available within the Town. There are an estimated 22,195 workers aged 16 and over within the Town, approximately 69% of workers are in the labor force. The Town's unemployment rate is 3.9%.



Demographics⁸

The Town has experienced a growth rate of 11.4% since 2010, growing to approximately 44,867 residents in 2018. 58% of the population is of Hispanic or Latino descent, with roughly the same percentage speaking a language other than English at home, 21.3% speak English less than "very well." The median age for the Town is 36.2 years, with approximately 28% of Town residents between the age 25 and 44 years. Average household size within the Town is 3.5 people. 78% of the population is characterized as family households, with 10% of the population having a disability.

The median household income is \$70,743, which is higher than county and national averages. The Town's average per capita income is \$26,211, which is higher than the county average of \$25,481, but lower than the national average of \$31,177.

⁸ American Community Survey, 2013-2017



Land Use and Zoning

Figures 12 and 13, on the following pages, illustrates how the Town of Cutler Bay is dominated by low density residential development (in yellow) with commercial uses located primarily on the western border of the community along U.S. 1 / South Dixie Highway. A Neighborhood Commercial (NC-1) area exists in the center of the Town along Old Cutler Road, which includes the Encompass Health Rehabilitation Hospital of Miami, and would allow mixed-uses, including restaurants, services, offices and residential. The maximum residential densities for NC-1 are 15 units per acre (30 with green building certification), the minimum recommended density for TOD within a suburban Town.⁹ Along SW 216th Street, lies a vacant 18.6-acre parcel zoned for NC-2 which would allow pedestrian scaled shops, restaurants, services, and small workplaces, and excludes residential development. A large portion of the Town's eastern border is designated as Conservation, these low-lying areas are environmentally sensitive and act as a buffer between the Town and the Biscayne Bay. The majority of multi-family development can be found on the south side of Old Cutler Road. Institutional uses, consisting of primarily educational uses, and Parks can be found littered throughout the community.

In 2012, the Town rezoned the Southland Mall / South Dade Government Center as Town Center (TC). The TC District allows a broad array of uses to encourage the expansion and redevelopment of the Southland Mall and adjoining areas. The focus of this district is to provide a compact pedestrian-oriented environment. The TC District is broken into three subdistricts: Center, Core, and Edge. The center subdistrict is allowed up to 250 units per acre with a maximum building height of 216-feet, the core subdistrict is allowed up to 150 units per acre with a maximum building height of 180-feet, and the edge subdistrict is allowed up to 50 units per acre at a maximum building height of 96-feet. Furthermore, the U.S. 1 / South Dixie Highway commercial corridor was also rezoned as Transit Corridor District (TRC). The TRC District provides for the location of transit-oriented uses. The intent of the district is to facilitate convenient access, minimize traffic congestion, and reduce visual clutter to create a development pattern which improves the aesthetic quality and character of the U.S. 1 corridor within the Town borders. The TRC District allows up to 75 units per acre at a maximum height of 60-feet and encourages compact mixed-use development.

The rezoning of the properties along the Transitway was done in an effort to encourage multi-modal transportation and address the population forecasts for the area. If the Town's vision comes into fruition, the Town Center and Transit Corridor Districts could become compact vibrant communities that are pedestrian-friendly, sustainable, offer an array of mobility options and improve the livability for the area.

⁹ A Framework for Florida Transit-Oriented Development in Florida Department of Transportation and Florida Department of Community Affairs, March 2011



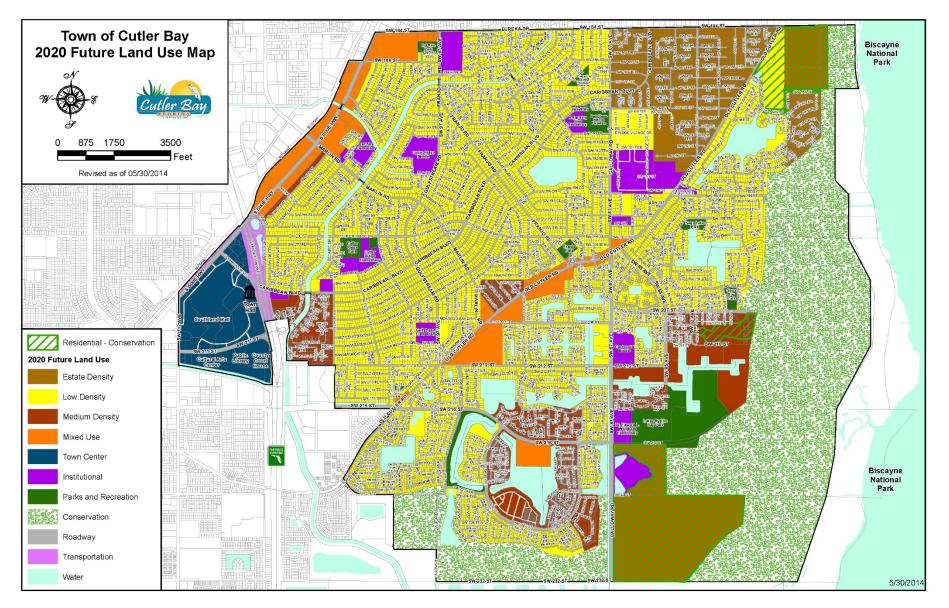


Figure 12: Town Future Land Use Map Source: Town of Cutler Bay



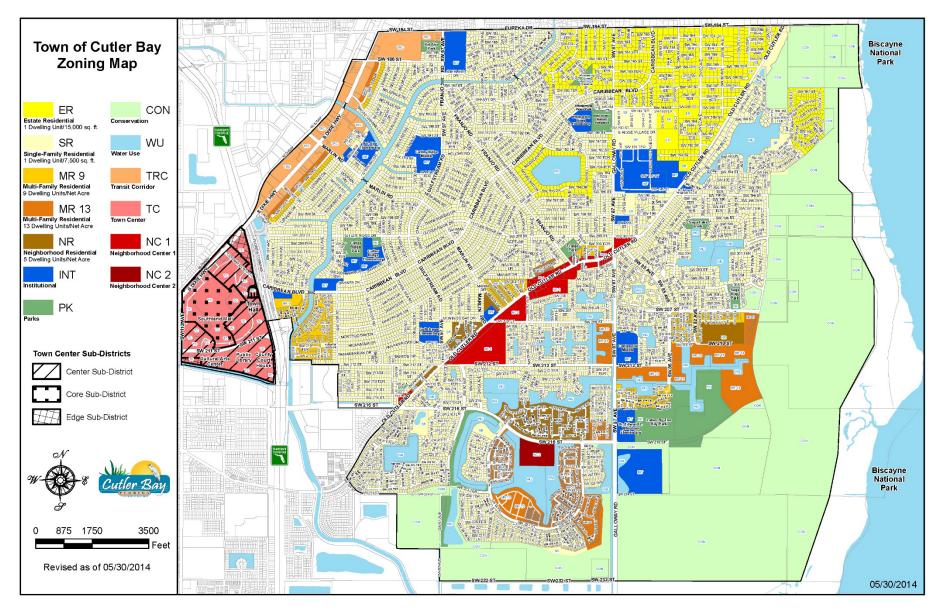


Figure 13: Town Zoning Map Source: Town of Cutler Bay



Existing Conditions

Roadway Network

The Town is characterized by a grid, curvilinear network, with the majority of traffic moving north and south, because most employment centers are located north of the Town. The area between Caribbean Boulevard and Old Cutler Road follows a grid network, with the neighborhoods of Lakes by the Bay and Saga Bay following a more suburban plan.

Table 3 provides a summary of the roadway network in the Town.¹⁰

Table 3: Roadway Summary								
ROAD	FROM	ТО	CLASS	# OF LANES	VPD (2014)	2014 LOS	2035 VPD PROJECTIONS	2035 LOS PROJECTIONS
SR 821 (HEFT)	U.S. 1 / SR 5	Quail Roost Rd.	Principal Arterial	6	120,144	F	129,448	С
U.S. 1 / SR 5	Caribbean Blvd.	Marlin Rd.	Principal Arterial	6	54,734	F	73,823	С
Old Cutler Road	SW 184th St.	SW 77th Ave.	Minor Arterial	2	26,557	D	31,548	F
SW 184th Street	U.S. 1 / SR 5	Franjo Rd.	Minor Arterial	5	18,129	D	27,905	С
SW 216th Street	HEFT / SR 821	Old Cutler Rd.	Minor Arterial	4	28,870	D	35,878	F
Caribbean Boulevard	SW 110 Ave.	U.S. 1 / SR 5	Collector	4	31,912	F	58,563	F
Marlin Road	U.S. 1 / SR 5	SW 107th Ave.	Collector	4	38,310	F	46,196	F

Source: Transportation Master Plan



¹⁰ Town of Cutler Bay Transportation Master Plan



Non-Motorized Facilities

The Town has a number of shared use paths connecting the Town to a larger regional bicycle network, see Figure 14. This network connects residents to Metro Zoo, Parks and Recreational areas, Historic places, Commercial areas, Downtown Miami and the Biscayne Bay.

Bicycle facilities are limited within the community, as illustrated in Figure 15 on the next page.



Source: FHWA

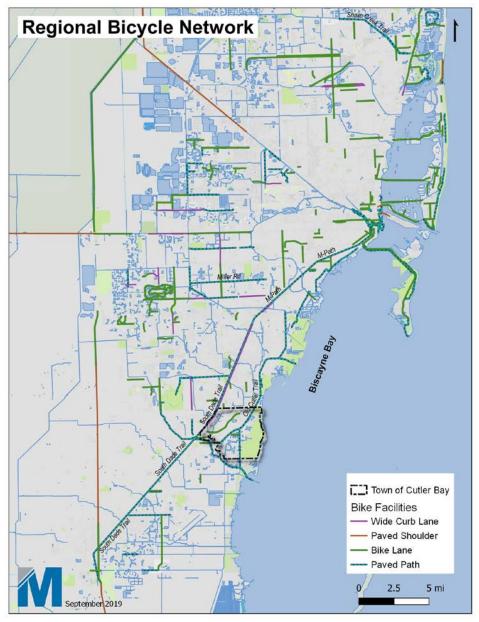


Figure 14: Regional County Bicycle Network



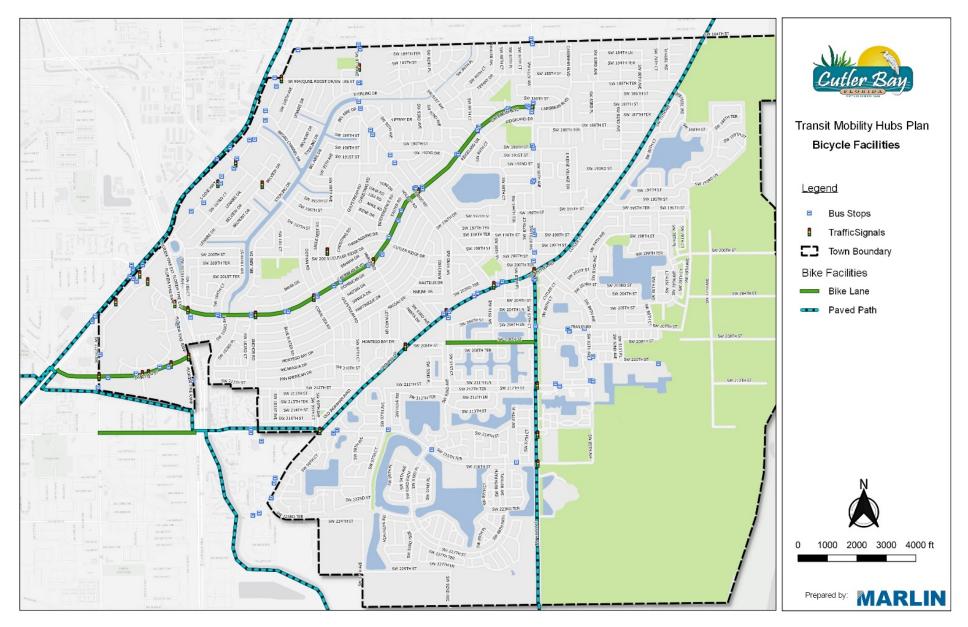
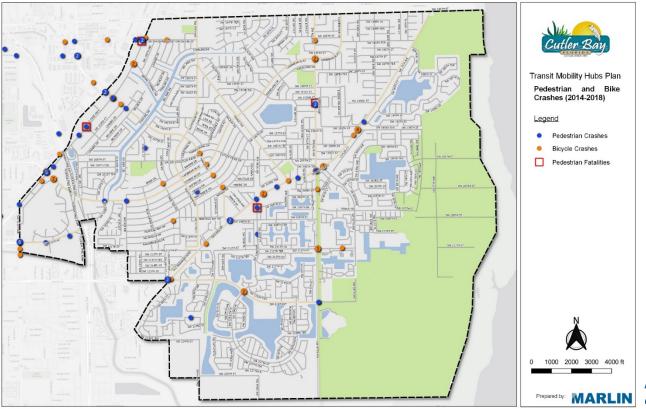


Figure 15: Town Bicycle Facilities



Sidewalks can be found throughout most of the communities within the Town, with the exception of the area located in the northeast. *The Bicycle and Pedestrian Master Plan*, completed in 2011, identifies sidewalk gaps and provides a list of recommendations for the Town to improve the nonmotorized facilities. Furthermore, the *Complete Streets Corridor Analysis*, completed in 2017, identifies SW 87th Avenue, Franjo Road, Marlin Road and Gulfstream Road for complete streets treatments. The completion of these projects will encourage multi-modal transportation options and create a safe and attractive environment for different mobility modes.

Figure 16 provides a map of bicycle and pedestrian crashes within the Town of Cutler Bay; the data was obtained using Signal Four Analytics from 2014 to 2018. The map illustrates a number of bicycle and pedestrian crashes along Old Cutler Road and U.S.1 / South Dixie Highway.



COMPLETE STREETS:

A street where the entire right-of-way is planned, designed, and operated for all modes of transportation and all users regardless of age or ability (National Complete Streets Coalition).



Figure 16: Bicycle & Pedestrian Crashes, 2014 - 2018



Transit

The Miami-Dade Department of Transportation and Public Works (DTPW), also known as Miami-Dade Transit (MDT), operates the Metrobus, Metrorail and Metromover, providing transit options throughout Miami-Dade County.

The South Dade Busway, recently renamed the South Dade Transitway, is a 20.1-mile exclusive busway linking Pinecrest, Palmetto Bay, Cutler Bay, Gould, Naranja, Homestead and Florida City neighborhoods with both local and express service. There are 29 stations along the Transitway, 4 stations are located along the Town's boundary.

The Town has eleven transit routes which provides bus service to the Town's residents, including the Town Circulator (Route 200), see Figure 17. Currently, about 3% of the Town's population travel to work via transit, with more women than men utilizing transit¹¹. Bus stops can be

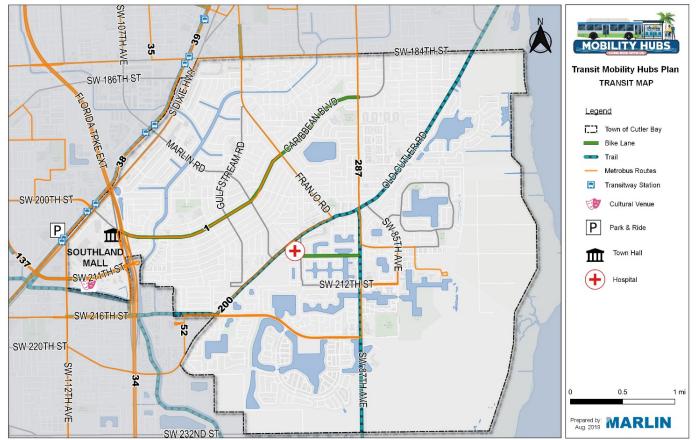


Figure 17: Transit Routes Map

found throughout the community, along the roadway network.

¹¹ American Community Survey, 2013-2017



Most communities within the Town are within ½-mile radius of a transit stop with the exception of a few areas, Figure 18 illustrates ¼-mile and ½-mile buffers of the Town's transit stops.

Route 1 travels primarily north-south from the Transitway, Perrine Shopping Center, Southland Mall, Quail Roost Drive / SW 117th Avenue.

Route 31, also known as the Busway Local, travels north-south within the Transitway from the South Dade Government Center, Southland Mall, South Dade Transitway, SW 112th Avenue Park and Ride, SW 168th Street Park and Ride, SW 152nd Street Park and Ride, The Falls and Dadeland South Metrorail Station.

Route 34, is a weekday only express bus, providing limited stop service along the Transitway from SW 344th Street Park and Ride to SW 112th Avenue Park and Ride, with non-stop service to the Dadeland South Metrorail Station via the Florida Turnpike.

Route 35 / 35A travels north-south beginning at the Miami-Dade College Kendall Campus, Richmond Heights,

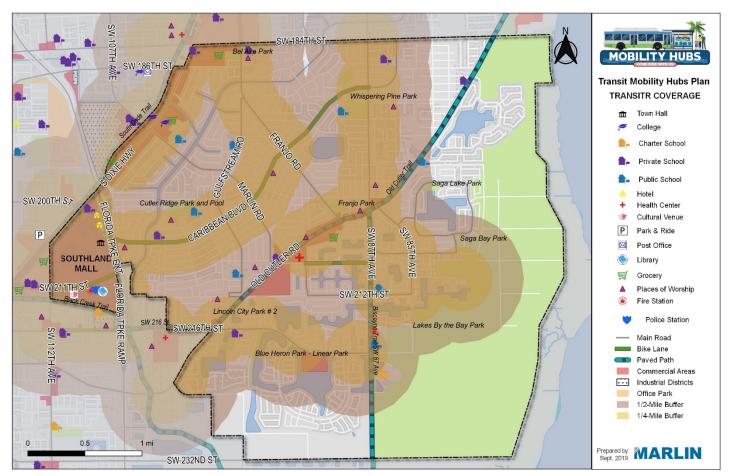


Figure 18: Transit Coverage with Points of Interest Map

Transitway at SW 184th Street to SW 112th Street, Southland Mall, South Dade Government Center, Homestead Hospital, Florida City, Homestead High School.



Route 38, also known as the Busway Max, travels north-south for the entire length of the Transitway from the Dadeland South Metrorail Station to the SW 344th Street terminal in Florida City, stopping at all Transitway stations.

Route 39, is a weekday only express bus, providing limited stop service along the Transitway, stopping at all Park and Ride stations between the South Dade Government Center and Dadeland South Metrorail Station, with non-stop service via the Florida Turnpike.

Route 52 travels north-south from the Dadeland North Metrorail Station, Dadeland Mall, Dadeland South Metrorail Station, Transitway SW 104th Street to SW 144th Street, Richmond Heights, Perrine Shopping Center, Robert Morgan Tech., Department of Children & Families (weekdays only), Southland Mall, South Dade Government Center, Old Cutler Road and South Dade Health Center.

Route 137, also known as the West Dade Connection, travels north-south and east-west, beginning at the Dolphin Mall, Miami International Mall, Sweetwater, Kendale Lakes, Kendall-Tamiami Executive Airport, Tamiami / Pineland Industrial Park, SW 147th Avenue / 180th Street, Serena Lakes, Larry & Penny Thompson Memorial Park, Southland Mall, South Dade Government Center.

Route 200, also known as the Town Circulator, travels clockwise throughout the Town of Cutler Bay beginning at the Publix on Old Cutler Road and traveling to the Southland Mall, SW 112th Avenue Transitway Station, U.S. 1 / South Dixie Highway, SW 184th Street and SW 87th Avenue. The Town Circulator is operated and maintained by DTPW, through an interlocal agreement with the Town of Cutler Bay, through funds provided by the Town from the half-penny transportation surtax, passed in 2001.

Route 248, also known as the Princeton Circulator, is a weekday only local circulator bus which travels primarily north-south, beginning near the Southland Mall in Cutler Bay to Princeton and Naranja communities.

Route 287, also known as the Saga Bay Max, is a weekday only limited stop service bus which travels north-south, beginning at the Community Health Center, Lakes by the Bay, Saga Bay, SW 212 Street / 85th Avenue, Whispering Pines, Perrine, South Dade Transitway at SW 168th Street, SW 152nd Street Park and Ride, The Falls, Dadeland South Metrorail Station.



Route	Headway (Minutes)	Weekend Service	Hours of Operation*		Average Weekday Ridership**
			Begin	End	
1	40	Yes	6:35 a.m.	7:15 p.m.	293
31	30	Yes	5:00 a.m.	8:24 p.m.	1,114
34	10	No	4:55 – 7:55 a.m.	3:45 – 7:10 p.m. (Southbound)	2,020
35 / 35A	15 / 30	Yes / No	4:57 a.m.	10:14 p.m.	2,181
38	20 (10 Peak)	No	24/7		6,389
39	15	No	5:30 – 8:15 a.m.	4:00 – 6:45 p.m. (Southbound)	969
52	45 (30 Peak)	Yes	4:28 a.m.	10:13 p.m.	1,296
137	30	Yes	5:35 a.m.	8:15 p.m.	1,653
200	50	Yes	8:40 a.m.	5:40 p.m.	157
248	60	No	6:25 a.m.	7:25 p.m.	128
287	35	No	5:46 – 9:18 a.m.	4:15 – 7:00 p.m. (Southbound)	373

Table 4: Summary of Town's Transit

*Hours of Operation are shown for Northbound weekdays only, except when indicated otherwise, variations on southbound and weekend hours of operation. See DTPW website for exact times. **Miami-Dade County Transportation & Public Works Ridership Technical Report, May 2019

A Park and Ride facility is currently located at the SW 112th Avenue Transitway station, next to Target, with 450 parking spaces at a 90% utilization rate.¹² The SMART Plan identifies new Park and Ride facilities planned at the SW 200th Transitway station and the SW 184th Transitway station.

¹² Miami-Dade County Transportation & Public Works Ridership Technical Report, May 2019



Town Circulator

The Town Circulator operates Monday through Saturday from 8:40 a.m. to 5:40 p.m., and Sundays from 10:40 a.m. to 3:40 p.m., excluding holidays. Route 200, the Town Circulator, begins at the bus stop located near Publix on Old Cutler Road, and takes 51-minutes to complete the 13.7-mile loop.

Stops include the Southland Mall, SW 112th Avenue Transitway Station, South Dade Shopping Center, Encompass Health Rehabilitation Hospital, Cutler Bay Senior High School and Ned Glenn Nature Preserve, see Figure 19.



Figure 19: Picture of Town Circulator

The Town Circulator connects to Metrobus Routes 1, 31, 34, 35, 38, 39, 52, 137 and 287. The Town Circulator is currently operated by one bus, moving in a clockwise motion, with two drivers. One driver operates the bus during the weekdays and the other during weekends. DTPW provides a backup bus when the Town Circulator is receiving

maintenance and/or repairs. As of the end of fiscal year 2017-18, the Town Circulator had travelled a total of 192,410 miles. The average lifespan of transit buses is approximately 12 years and 250,000 miles, with replacement of the current bus expected within the next three (3) years.

TOWN CIRCULATOR QUICKFACTS

Annual Operating Cost: \$324,620 Route Length: 13.7 Miles Avg. Speed: 23 mph Avg. Annual Mileage: 32,000 Vehicle Inventory: 1 Headway: 51-minutes Avg. Passengers per Hour: 17 onnecting MDT Routes: 1.31.34.35.38.39.52.137.287

History, Agreement and Funding

On May 23, 2012 an Interlocal Agreement between Miami-Dade County and the Town of Cutler Bay was executed for the County to provide the Cutler Bay Circulator service within the Town at the locations and according to the routes in the agreement's exhibits. The fare was established at \$0.25, with qualified passengers paying no fare and the student fare at \$0.10. The agreement states service operating schedules shall be coordinated with Metrobus to the extent possible and the Circulator will be shown on County Transit map.

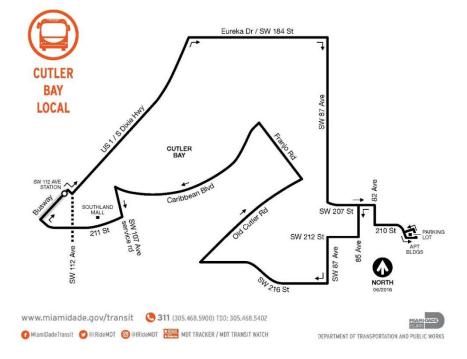


Figure 20: Map of Town Circulator Source: Miami-Dade County



Service began on September 5, 2012 and was made possible by the half-penny transportation surtax approved by voters in 2002 funding the *People's Transportation Plan*, overseen by the Citizens' Independent Transportation Trust (CITT). The ordinance creating the half-penny transportation surtax calls for 20% of surtax proceeds to be distributed directly to municipalities on a pro rata basis for use on local transportation and transit projects. Municipalities must apply at least 20 percent of their share of surtax proceeds toward transit uses.

For FY 2018 the funds distributed to the Town of Cutler Bay were for a population of 44,901 at a per capita amount of \$42.30 for a total of \$1,899,220. 20% of this is \$379,844 that must be applied to transit uses. In the Town's adopted budget for FY 2017-18 the Town spent \$350,000 on the Circulator and \$690,000 on design and construction of decorative bus shelters.

Costs, Responsibilities and Service

The Interlocal Agreement states the Town shall pay 100% of the net operating cost of the service. Per the agreement, the is cost is not to exceed \$146,700 for the first year. In subsequent years the Town will continue to pay 100% of the operating costs with the County notifying the Town of any increases in cost at least six months in advance.

The original agreement included Circulator operating hours from 8:00 a.m. to 5:10 p.m., with service Mondays, Wednesdays and Fridays. This agreement was for five years with the option for two two-year renewals under the same terms. In May 2017, the first renewal option was approved to extend the agreement to May 23, 2019. The agreement cannot extend past May 22, 2021.

The Town requested an increase in service from three days a week to five days a week effective September 30, 2013 with an annual operating cost for five day a week service estimated to be \$269,500. Transit service was not to be provided on holidays where DTPW operated a Sunday schedule and any additional hours would be billed at the current DTPW hourly rate.

The Interlocal Agreement was again amended to include an increase in service from five days per week to six days a week on or after October 1, 2014. The additional service included Saturday service with the annual operating cost for six days estimated to be \$55,120 (Saturday service cost) + \$269,500 (weekday cost) for a total of \$324,620 with any additional hours of service billed at the current DTPW hourly rate. In June 2016, the route was modified to service the Transitway station at SW 112th Ave.

On November 18, 2018 Sunday service was added with service starting at 10:40 a.m. and ending at 4:33 p.m., at no additional cost to the Town. Sunday service was in response to the County removing the operation of Route 70.



The agreement states that the Town is responsible for installing and maintaining shelters and benches as well as complying with ADA regulations with regards to accessibility to and from bus passenger stops and bus shelters, while the County is responsible for providing, installing and maintaining bus stop signs and sign posts at stops along the route.

The Town has been actively replacing bus shelters as part of the Town's Complete Streets Plan. Phase 1 included 10 bus shelters, completed in early 2019. The Town most recently replaced shelters on Old Cutler Road and Caribbean Boulevard. The Town will be replacing older bus shelters in phases, and prioritizing the addition of shelters and benches at high-ridership stops. The average cost of a shelter is \$43,330 and includes the installation of concrete, shelter, benches, bicycle rack, and trash receptacle at each bus stop, see Figure 21.

Through a separate interlocal agreement the Town purchased an ADA-compatible diesel bus with American Recovery and Reinvestment Act (ARRA) funding to provide the circulator service with title transferred to the County. Town staff stated that the cost of the bus was \$250,000 and purchased at inception of the program in 2012.



Figure 21: Town Bus Shelter

The agreement states the vehicle will be equipped with Automatic Passenger Counters, on-board surveillance equipment (voice and video) and automated vehicle locator systems. The agreement also states projected annual operating costs and an operating expenditures report will be provided to the Town including operating expenditures incurred by the Circulator service.

Strategic Master Plan

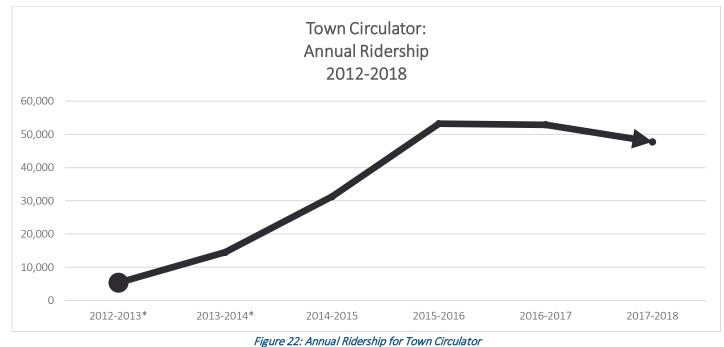
The Town's 2014-2019 Strategic Master Plan Goal 3.1 is to provide the infrastructure needed to meet the current and emerging needs of the community. Under this goal is the Objective that the Town will ensure that the Town Circulator meets the growing needs of the community.

Ridership

The most recent Annual Report from the Miami-Dade Transit Service Planning and Scheduling Division covers the July 2017-July 2018 reporting period. The Miami Dade County 3-1-1 Answer Center answered 34 calls regarding the Circulator during this time period. 23 of the calls were complaints, 5 were requesting service and 6 were commendations. This was noted as a small number of calls in comparison to annual ridership.



Since inception through July 2018 the Cutler Bay Local has provided service to over 200,000 riders, Figure 22 provides a review of annual ridership of the Town Circulator since its inception in 2012.



*Indicates operations at 3x per week Source: DTPW Annual Reports

QUESTIONS, COMMENTS, COMPLAINTS

Questions, complaints and commendations are recorded through the county's 311 program, which allows residents to report issues, file complaints, provide commendations and answer questions related to various items including Transit.

On average, the county receives approximately 60,000 – 70,000 transit related phone calls per month, with a relatively small percentage of complaints related to the Town Circulator¹³. Since its inception, there have been approximately 40 phone calls each year specific to the Town Circulator, with the most common complaint

¹³ Annual Circulator Report



filed being no show/no pickup. Phone calls received through this system also include requests by citizens, Table 5 below provides a list of requests filed through the system.

YEAR	REQUESTS				
2012-2013	Bus Bench @ 7900 SW 210 St. Additional Stops @ SW 210 St/SW 82 Ave; Black Point Marina; and Calusa Cove (210/8000 Bloc				
2013-2014	NONE				
2014-2015	Sign Replacement	Shelter Request			
2015-2016	Sign Replacement (x3)				
2016-2017	Sunday Service	Additional Stops @ SW 216 St / SW 87 Ave & SW 211 St and SW 87 Ave			
2017-2018	Keep Bus Operator	Sunday Service (x2)	Extend Hours of Operation		
	Additional Bus to Run Route	Additional Stop @ SW 214 St/ SW 86 Pl			

Table 5: 311 Citizen Requests, 2012 – 2018

*Cutler Bay Local Annual Reports

On Demand Service

On March 22, 2019, DTPW submitted a Request for Proposal (RFP) for First Mile/Last Mile On-Demand Transit Service for the areas covering the Miami Civic Center, Dadeland, Palmetto Bay and Cutler Bay with the purpose of improving access to high demand transit facilities and serving short (under 3-mile) trips. The proposal called for dynamic routing, on-demand, app-based transit service to be based on real-time trip demand. This service is expected to begin operations late 2019, at minimum, weekdays from 6:00 a.m.to 7:00 p.m.

Residents will be able to schedule pickup times via an app, website or phone call for the purpose of connecting to the Transitway, with expected wait times at 10-15 minutes and expectations of arriving to their destination within 10-15 minutes. The goal of the service is to fulfil the First/Last Mile connection and increase travel possibilities for commuters.

The service will be paid through a SMART Demonstration Project Grant, awarded to the Town in September 2018, with matching Town funds.



Sea Level Rise

The Southeast Florida Regional Climate Change Compact was created in 2010, with elected officials from Broward, Miami-Dade, Monroe and Palm Beach Counties coming together to coordinate mitigation and adaptation strategies for responding to the impacts of climate change.

In 2015, the *South Florida Regional Climate Change Compact* adopted the following Sea Level Rise (SLR) projections for short-term and long-term planning purposes:

- 6-inches to 10-inches by 2030
- 14-inches to 26-inches by 2060
- 31-inches to 61-inches by 2100

These projections were adopted utilizing data provided by the National Ocean and Atmospheric Administration (NOAA), the U.S. Army Corps of Engineers (USACE) and the Intergovernmental Panel on Climate Change (IPCC).

Utilizing data provide by NOAA, future SLR projections for 2060 are at approximately 2-feet. Figure 23 illustrates areas of inundation (in purple)

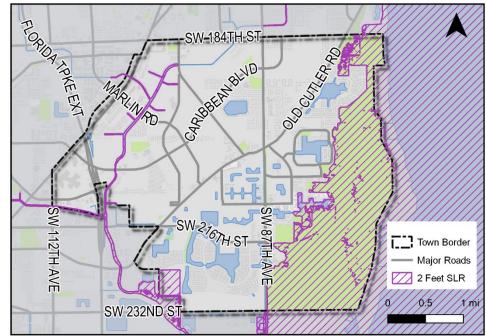


Figure 23: Map of Future Sea Level Rise Projections at 2 Feet, NOAA

which are primarily in the conservation designated areas, with no expected threat to infrastructure and property.

The Town's *Floodplain Mitigation Plan* (2014) provides a risk assessment for the Town and outlines a plan to identify activities that can be undertaken by the public and private sectors to reduce safety hazards, health hazards, and property damage caused by floods. Table 6 is a summary of future hazardous occurrences, found in the Town's *Floodplain Mitigation Plan*, their likelihood of occurring and whether or not the hazard is considered a priority for the Town.

Hazard	Likelihood of Future Occurrence	Priority Hazard
Climate Change and Sea Level Rise	Occasional	Yes
Coastal / Canal Bank Erosion	Likely	Yes
Dam / Levee Failure	Unlikely	No
Flood: 100 / 500-year	Likely	Yes
Flood: Stormwater / Localized Flooding	Highly Likely	Yes
Hurricane and Tropical Storms (including storm surges)	Likely	Yes

Table 6: Cutler Bay Summary of Future Flood Occurrences Town of Cutler Bay Floodplain Mitigation Plan



PUBLIC INVOLVEMENT

Public involvement is vital to any project or task to be performed by public organizations. Our process began with a kick-off meeting with the Town of Cutler Bay, Miami-Dade TPO and MARLIN on November 26, 2018, with the purpose of gathering information and data, reviewing the scope of services and the schedule of tasks for this study.

A Public Information Plan (PIP) was drafted by MARLIN with the goal of ensuring the study reflected the values and needs of the community. Once approved by the Town, the PIP outlined specific activities to provide timely and accurate information to stakeholders throughout the process, a copy of the PIP can be found in Appendix I.

As part of the public involvement process, a Stakeholder Advisory Committee (SAC) was formed for the purpose of reviewing information and providing technical assistance for the study. A total of three (3) SAC meetings were held throughout the planning process with various stakeholders including Town Staff, Miami-Dade TPO, Florida Department of Transportation, Miami-Dade Bicycle and Pedestrian Advisory Committee, Southland Mall, and the Cutler Bay Business Association.

The project also included two (2) public workshops. The first public workshop was held on April 30, 2019 beginning at 6 p.m. to 8 p.m. within the Town's Council Chambers. Various maps were displayed illustrating the Town's existing transit network, existing pedestrian and bicycle points of interest and a map of the existing Town Circulator (Route 200). The meeting included a 20-minute presentation with the purpose, goals and information gathered for the study. Participants were encouraged to provide feedback and complete the online survey.

A second public workshop was held on Monday, September 23, 2019 which was split into two (2) sessions. The first session was held from 2:00 to 4:00 p.m., to accommodate residents who rely on transit, at the Pine Wood Villas Community Association, due to the high number of Spanish speaking residents who attended, the presentation was conducted in both English and Spanish. The second session took place from 6:00 to 8:00 p.m. at the Town Hall Council Chambers, to accommodate residents who work.



Figure 24: Pubic Meeting - April 30, 2019



Figure 25: Public Meeting - September 23, 2019



These sessions provided residents with background information on mobility hubs, proposed locations, recommended improvements and amenities. Residents were also given the opportunity to vote for the different amenities they would like to see at each level of mobility hub, in addition to providing feedback to the proposed locations, recommendations and amenities.

The study will go before the public and be presented to the Town Council to be formally accepted by the Town.



Figure 26: Photos of Public Workshops



DATA COLLECTION

Data collection for this study began by gathering existing transit data, reviewing adopted Town Plans and studies, and utilizing MIOVision cameras at three identified transit stops throughout the Town. Additionally, data collected from the Cutler Bay Mobility Hubs Survey was reviewed and analyzed for the purpose of understanding transit use and gauging the types of amenities transit users would like to see at their bus stops.

Questionnaire and Survey

In coordination with the Town, MARLIN prepared a Questionnaire for the Town Circulator Bus Operators. This questionnaire assisted the team in identifying demographic data, bus stop activity, service and delays. Key elements of the Questionnaire included which stops had the most activity and transfers, as well as their recommendations for improving service. The Questionnaire assisted the team in identifying bus stops to collect MIOVision video data. A copy of the Questionnaire can be found in Appendix II.

Highlights

- Average age of transit users is over 50 years
- Hispanic/Latinos were identified as the demographic group that most utilized existing service
- Average persons with disabilities was approximately 6 people per day
- The following stops were identified as having the most transfer activity:
 - o 112th Ave and 211th Street
 - o 82nd Ave and 210th Street
 - o 85th Avenue and 212 Street
 - o 87th Avenue and 198th Street
- More frequent service was recommended to improve transit
- Both operators identified the benefit of having a counter clockwise route to improve service

Also, in coordination with the Town, MARLIN prepared an online survey in English and Spanish for the purpose of gaining feedback regarding transit use and amenities within the Town, a copy of the survey and responses can be found in Appendix II.

MARLIN staff performed a site visit on Tuesday, February 26, 2019 beginning at 6:00 a.m. at the SW 112th Avenue Transitway stop encourage users to take the survey. Lines of people were seen boarding the buses along the Transitway, sometimes having to wait for several buses before boarding as various buses were at capacity. Many transit riders had commented about how improved frequency of service would improve their commutes, especially during the peak traffic times.



At 9:00 a.m. the MARLIN team boarded the Town Circulator (Route 200) at the first stop on Old Cutler Road, near Publix. The team spoke to patrons and asked riders to take the survey. Through discussion with Town Circulator riders, many commented how an additional circulator operating counter-clockwise and extended hours of operation would be beneficial to the Town.

The survey was left open for a period of approximately 10 weeks, during this time, the City utilized their website and social media platforms to attract participants. The survey gathered 106 respondents, of those respondents 19% rode the Town Circulator. The following survey data represents the population who ride the Town Circulator.

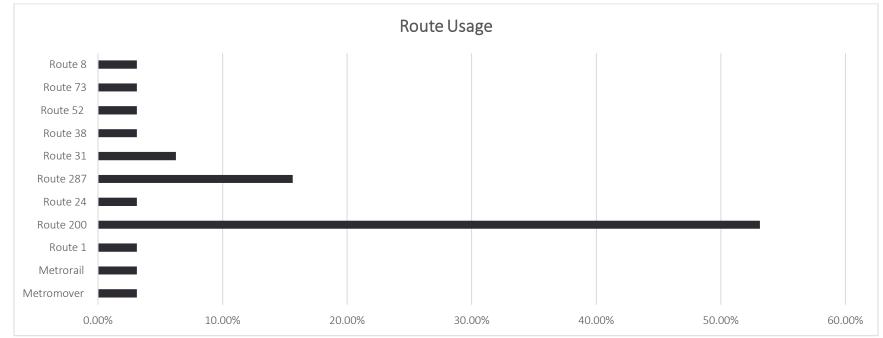


Figure 27: Route 200 Survey Respondents Route Usage





Figure 28: Route 200 Survey Respondents Route Usage & Trip Purpose

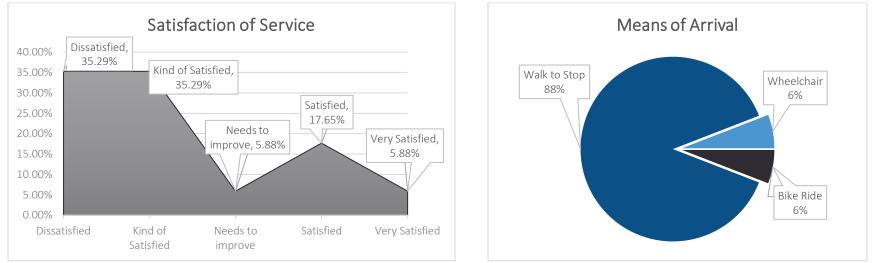


Figure 29: Route 200 Survey Respondents Satisfaction of Service & Means of Arrival to Bus Stop



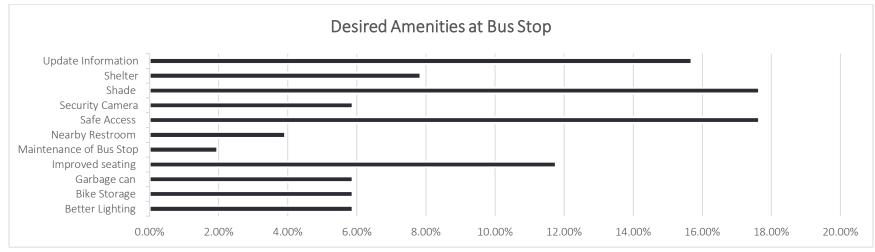


Figure 30: Route 200 Survey Respondents Desired Amenities at Bus Stop

One of the key recommendations mentioned was extending the hours of operation to make transit more accessible and convenient, especially for those who rely on transit to get to work. A number of transit passengers commented on how they would like to attend public meetings, but relied on the Town Circulator for transportation and could not attend due to the limited hours of operation.

TOWN CIRCULATOR SURVEY INSIGHTS	COMMENTS	OVERALL SURVEY FINDINGS	
63% of Riders Use Route 200 Every Weekday	"Half hour frequency would be great!"	68% use Transit to Connect to/from Work	
89% Walk to the Bus Stop	"Better signage for at stops for Route 200"	8% use Transit as their Primary Mode of Transportation	
56% Transfer	"More accurate time on app"	58% Begin their Transit Trip via the South Dade Transitway	
22% Connect to/from Work	"Shorter headways"	32% End their Transit Trip in Downtown Miami	
72% Use MDT Transit Tracker App	"311 works great"	67% Transfer	
Desired Amenities Include: Adequate Shade/Shelter; Real-Time Information Display; Seating; Improved Security	"Extended hours for 287/200 would be REALLY COOL"	47% Drive to a Park & Ride Lot	
Improvements to Commute: Improved Frequency of Service; Extended Hours of Operation; Wi-Fi	"On time reliability and bus cleanliness are important"	77% Use the MDT Transit Tracker App	
Satisfaction Score: 3 (1 Very Satisfied; 5 Very Dissatisfied)	"Cutler Bay has evening meetings and no evening bus. How are the retired people going to get there? We want to go to these meetings."	68% use Transit to Connect to/from Work	



Transit Data

Data was gathered from Miami-Dade Department of Transportation and Public Works (DTPW) for county owned and operated bus routes. The Town of Cutler Bay provided data related to the Town Circulator (Route 200). Utilizing geographic information systems (GIS), MARLIN was able to analyze existing transit coverage for the Town of Cutler Bay, see Figure 18, on page 37.

Metrobus

Boarding and alighting data was collected from Miami-Dade County's Department of Transportation and Public Works for Routes 31, 34, 38, 39, 52, and 287. Ridership is highest along the Transitway with 100 to over 400 boardings and alightings per day at the Transitway Stations along the Town's borders. Through the available data, ridership along the Transitway Station located at SW 112 Ave. was identified as having the highest numbers of boardings and alightings in the area, most likely as a result of the Park and Ride facility located at this station. Ridership was also high at the transit stop located near the Southland Mall / South-Dade Government Center along SW 211th Street, see Figures 31 and 32.

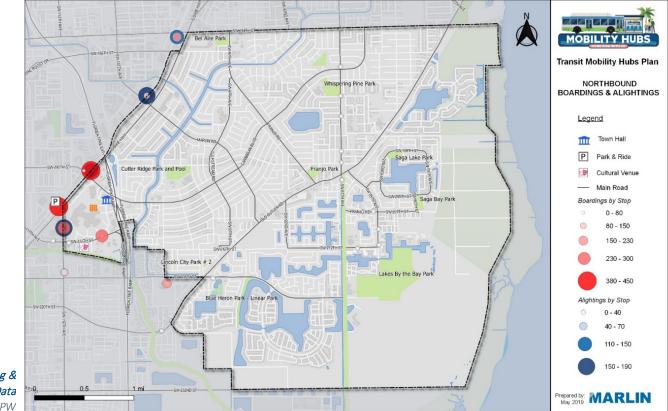


Figure 31: Northbound Boarding & Alighting Data *Information provided by DTPW



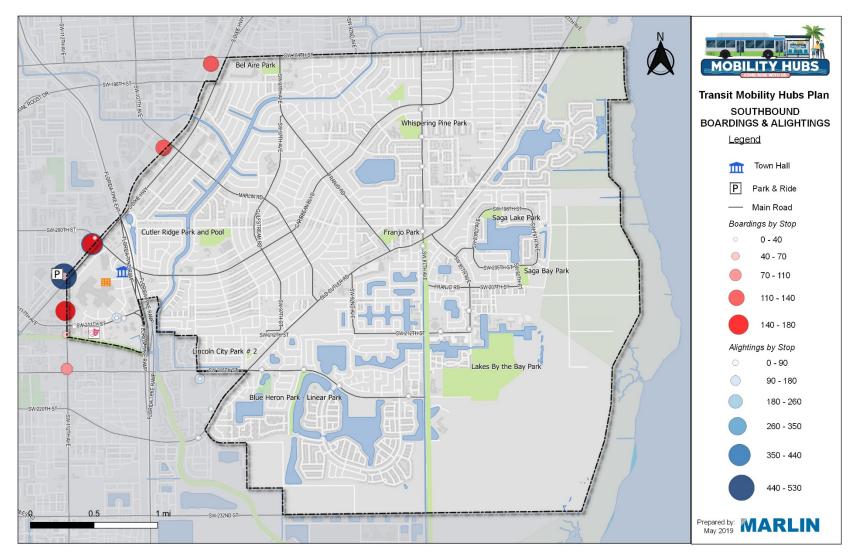


Figure 32: Southbound Boarding & Alighting Data *Information provided by DTPW



Town Circulator

Ridership for the Town Circulator averages 448 riders per day, with the number of annual ridership for the Town Circulator (Route 200) over 50,000 passengers per year. The top three stops for the Town Circulator are as follows:

- Old Cutler Road at Publix,
- SW 211th Street at the Southland Mall,
- SW 184th Street & U.S. 1

The top three stops for the Town Circulator receive over 30 boardings and alightings per day. Figure 33 illustrates the average daily boardings and alighting by stop from June through November 2018¹⁴.

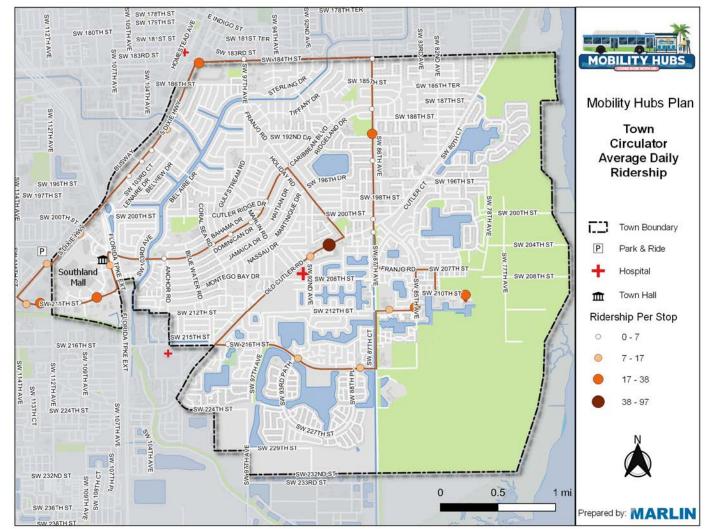


Figure 33: Town Circulator (Route 200) Average Daily Boarding & Alighting Data, 2018

¹⁴ Data provided by Town's Public Works Department, 2018



MIOVision Analysis

On Tuesday, March 12, 2019, MARLIN Technicians setup six (6) MIOVision Cameras at three (3) transit locations, utilizing information provided by the Bus Operator Questionnaire and ridership data. MIOVision Cameras were used to capture transit, pedestrian and bicycle activity on Wednesday, March 13, 2019, over a 12-hour period. The videos were reviewed by staff, which recorded all transit, pedestrian and bicycle activity over a 10 - 12-hour period, depending on route hours of operation. Table 7 provides the total boarding, alighting, pedestrian and bicycle data captured at each of the transit stops.

	Table 7: Location of Video Detection Equipment						
No.	Bus Stop Location	Bus Stop ID	Boarding	Alighting	Pedestrian	Bicycle	
1	SW 211 Ave / Southland Mall	CTLRTERW	85	26	67	9	
2	SW 184 St / U.S. 1	C184US16	24	9	59	11	
3	SW 87 Ave / SW 190 St	C87V1903	10	11	26	15	

Pages 56 through 58 provide the characteristics, observations, pictures and location map of each of the bus stops recorded and analysized using MIOVision video camera detection equipment.





Bus Stop 1: SW 211 Avenue & Southland Mall (North Side)



Figure 34: Photo of Existing Bus Stop at SW 211 Ave, Southland Mall, north side

Characteristics

- Existing Amenities: Large Bus Shelter, Seating, System Map, Signage, Bus
 Bay, Newspaper Rack, Lighting, Trash Receptacle, Advertising.
- Nearby Facilities: Southland Mall, Movie Theater, South Dade Government
 Center, Dealership, Bank, Residential, Retail, Restaurants, Offices, Black
 Creek Trail, South Dade Cultural Arts Center, Library, Police, Fire, Town Hall, Florida Turnpike.
- Routes: 1, 31, 35, 39, 52, 137 and 200 (Town Circulator).
- Roadway: 4-lane arterial divided with buffered bicycle lanes.
- Nearest mall entrance is located approximately 560 feet from the bus stop.



Figure 35: SW 211 Street Bus Stop Location Map

Observations

- Majority of riders access the stop from the mall parking lot and west.
- About 15 passengers crossed SW 211 Street midblock.
- About 12 passengers were dropped off at the bus stop.
- A total of 67 pedestrians and 9 bicyclists were observed in a 12-hour period.



Bus Stop 2: SW 184 Street/Eureka Drive near US 1 / S. Dixie Highway



Figure 36: Photo of Existing Bus Stop on SW 184 Avenue, south side

Characteristics

- Existing Amenities: Seating, Trash Receptacle and Signage
- Nearby Facilities: Bank, Grocery Store, Fitness Center, Retail, Restaurants, South Dade Trail, Transitway, Village of Palmetto Bay Downtown, Parks, Places of Worship, Residential, Industrial and Offices.
- Routes: 200
- Nearby Routes: 1, 31, 35, and 38
- Roadway: 5-lane arterial
- Transitway is located approximately 750 feet from the bus stop.



Figure 37: SW 184 Street Bus Stop Location Map

Observations

- Majority of riders access the stop from the shopping center adjacent to the stop.
- Approximately 14 pedestrians crossed SW 184 Street midblock.
- More than half of pedestrians and all bicyclists utilized the south sidewalk.
- One passenger was picked up from the bus stop.
- A few pedestrians waited around the bus stop and left.
- All but two (2) cyclists utilized the south sidewalk.



Bus Stop 3: SW 87 Avenue / SW 190 Street



Figure 38: Photo of Existing Bus Shelter at SW 87 Ave, west side

Characteristics

- Existing Amenities: Shelter, Seating, Trash Receptacle, Advertising, System
 Map and Signage
- Nearby Facilities: Ned Glenn Nature Preserve, Whispering Pines Elementary
 School, Place of Worship, Senior Communities, Whispering Pines Park.
- Routes: 200 and 287
- Roadway: 2-lane collector



Figure 39: SW 87 Avenue Bus Stop Location Map

Observations

- Most transit users accessing the stop by crossing SW 87 Avenue midblock at the Pine Wood Villa entrance.
- One wheelchair user was seen accessing the bus stop on the west sidewalk and boarding the bus.
- Most transit users were elderly.
- A good amount of pedestrian and bicycle activity was observed along the sidewalks.



Speedtracker Analysis

The MARLIN team rode the Town Circulator on Tuesday, February 26, 2019 utilizing the SpeedTracker app to track and analyze the time and distance of the Town Circulator. The team recorded two trips beginning at 10:40 a.m. and ending at 12:31 p.m., beginning and ending the trip at the Old Cutler Road Publix stop. Table 8 provides the average summary for both trips.

Table 8: Summary of SpeedTracker Analysis						
Average Speed (MPH) Maximum Speed Distance (Miles) Elapsed Time Stopped Time Trave						
21.3	47.5	13.7	0:49:59	0:18:17	0:37:17	

Each trip averaged approximately 50 minutes for the 13.7-mile clockwise loop taken by the Town Circulator. It is important to note that the bus only stops when a passenger is present at a bus stop or someone requests to get off the bus, therefore stops are not always made at each bus stop. The time schedule provided demonstrates service every hour, delays mostly occurred along U.S. 1 / S. Dixie Highway, where traffic is heavier and traffic signals are mostly present.

Alternative Routes

Through an analysis of existing service, MARLIN reviewed existing transit service provided by DTPW within and around the Town of Cutler Bay. Figure 40, on the following page illustrates the existing transit coverage provided within the Town. To the south, a portion of the Isles of Bayshore (south of SW 216th Street), is out of the ½-mile service area as is the area located in the northeastern most portion of the Town along Old Cutler Road. These two areas of the Town do not currently have access to transit. Additionally, portions of the Town fall out of the ¼-mile buffer zone. While ½-mile is the standard for transit coverage, due to the South Florida environment, ¼-mile is sometimes considered as a standard to follow. Three alternative scenarios were explored for the Town of Cutler Bay transit services, Figure 41, on page 61, illustrates the proposed alternatives.



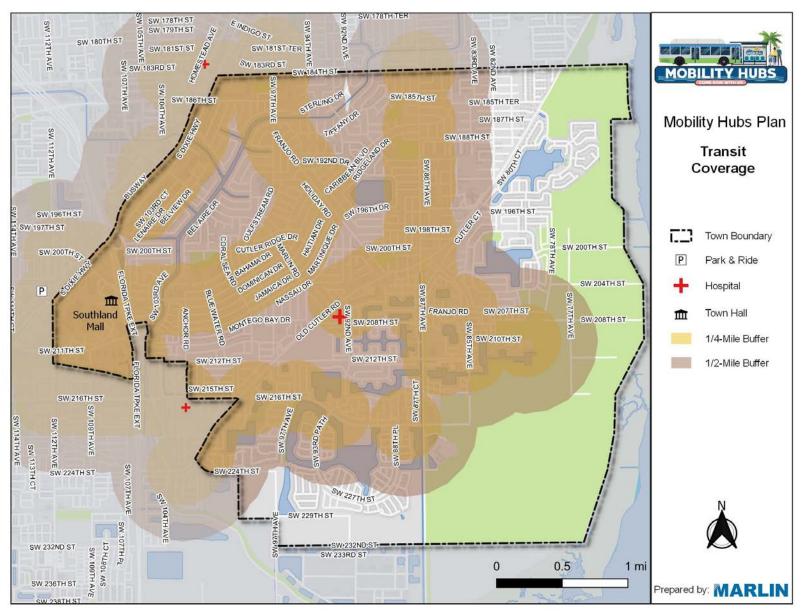


Figure 40: Transit Coverage Map of Existing Bus Stops



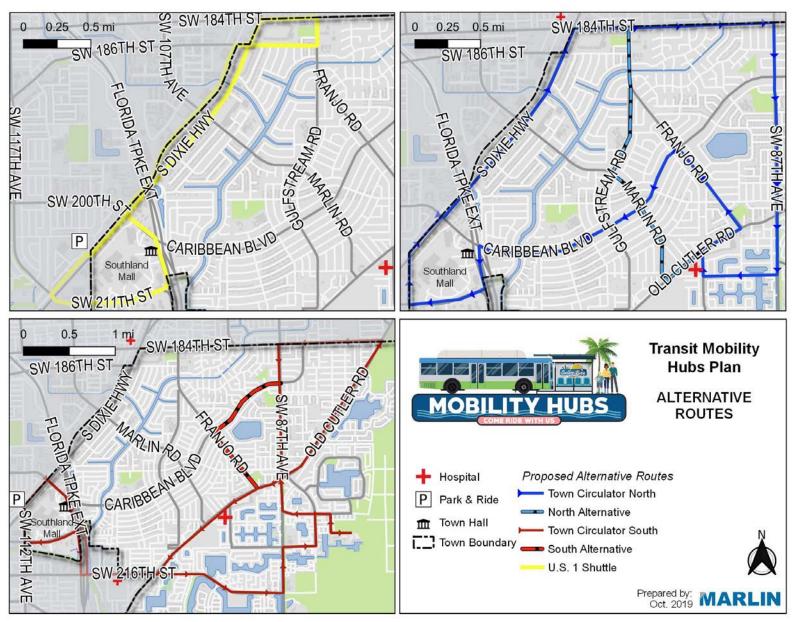


Figure 41: Proposed Alternative Routes



Short Term Alternative Recommendations

Alternative 1: Includes providing counter-clockwise service to the existing Town Circulator Route. Additional benefits to including a counter-clockwise service include shorter wait times and increased ridership through offering residents an alternate bus.

Alternative 2: Includes extending the hours of operation to include morning (6 a.m. to 8 a.m.) and evening (6 p.m. to 8 p.m.) peak periods. Additional benefits include a potential increase in ridership to offer working residents an alternative to access the Transitway, also residents who rely on transit could utilize the service for their first/last mile connection and attend public meetings.

Long Term Alternative Recommendations

Alternative 3: Would divide the existing Town Circulator into two routes and extend service to other areas within the Town boundaries, where there is currently no transit. The Town Circulator North and South Routes would incorporate areas highlighted in Figure 31. Residents could travel anywhere throughout the Town, if needed, while also accessing the Town Center and commercial areas. Bus stops would need to be established along the new areas of service, such as Old Cutler Road, northeast of SW 87 Avenue, and Marlin Road. The extension along Caribbean could utilize existing bus stops that are not currently being utilized due to service removal of previous existing routes along this corridor.

Alternative 4: Would introduce a Commercial Circulator, transporting visitors and residents along U.S. 1 / S. Dixie Highway and the Town Center. This scenario imagines U.S. 1 / S. Dixie Highway at build out with density and mixed-use transit-oriented development along the corridor. This route could also be an on-demand type route which covers the U.S. 1 / S. Dixie Highway corridor, connecting residents, workers and visitors to the Transitway and other routes.

The southern portion of the Isles of Bayshore could not be accessed as it is part of a private gated community. Residents who wish to utilize transit within those communities could do so by walking or biking to the entrance of the community where the existing stops are located along SW 216th Street, the community could also incorporate a low emission vehicle within the community, such as an electric golf cart, to provide mobility throughout. With the exception of this area, Alternative 3 would provide complete transit coverage for the Town of Cutler Bay.



CUTLER BAY MOBILITY HUBS

Utilizing the data collected, three levels of Mobility Hubs were identified at key locations throughout the Town to provide a comprehensive network of Mobility Hubs throughout the community.

- Neighborhood Hubs: Small scaled hubs serviced by at least one transit route, near residential uses.
- Community Hubs: Medium scaled hubs serviced by one or more transit routes, near residential and retail uses.
- Regional Hubs: Large scaled hubs serviced by two or more transit routes, near mix use development, including multi-family residential, employment hubs and regional commercial uses.

Hub Site Selection

The MARLIN team assessed existing bus stops, population, land use, transit accessibility and the potential use of future transit to strategically place Mobility Hubs throughout the Town. Table 9 provides a list of selected locations; Figure 42, on the next page is a map of these locations.

Table 9: Mobility Hub Locations						
NAME	HUB TYPE	LOCATION	ROUTES	EXISTING STOP		
Lakes by the Bay	Neighborhood	SW 85 Ave & SW 212 St	200, 287	Yes		
Pine Wood	Neighborhood	SW 87 Ave & SW 190 St	200, 287	Yes		
Caribbean	Neighborhood	Caribbean Blvd & Franjo Rd	1, 200	Yes		
Eureka Drive East	Neighborhood	Old Cutler Rd & 184 St	None	No		
The Isles	Neighborhood	SW 216 St & SW 89 Pl	200, 287	Yes		
Community Health	Neighborhood	SW 216 St & SW 102 Ave	52, 287	Yes		
Town Center	Community	Old Cutler Rd & S of Franjo Rd	200	Yes		
Eureka Drive West	Community	SW 184 St & East of US 1	200	Yes		
Marlin Road	Community	Marlin Rd & US 1	31, 35, 38, 200	Yes		
Miami Heights	Community	SW 200 St & US 1	1, 31, 35, 38, 39, 52, 200	Yes		
South Dade	Community	SW 211 St	1, 31, 35, 39, 52, 137, 200	Yes		
Cutler Bay	Regional	US 1 / SW 112 Ave	1, 31, 34, 35, 38, 39, 52, 200	Yes		



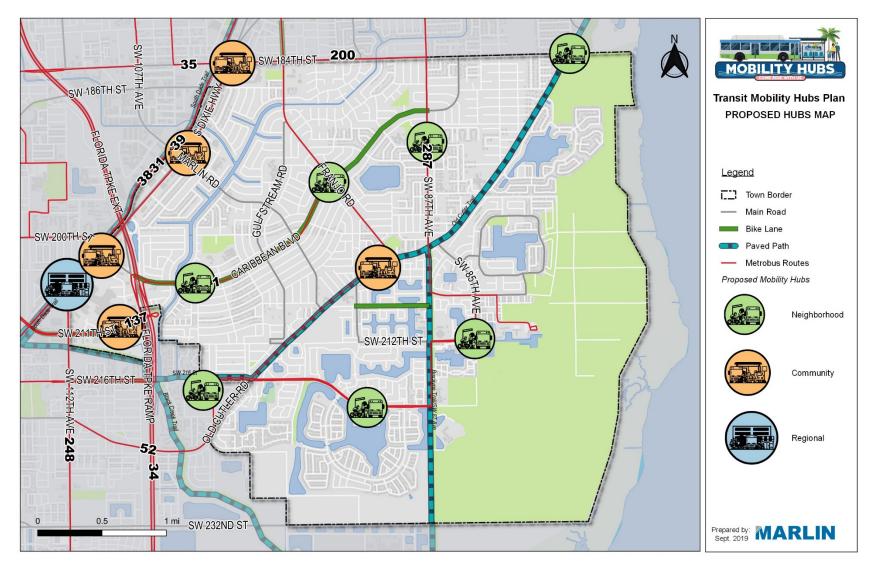


Figure 42: Proposed Mobility Hubs Location Map



Each of the sites selected was analyzed further, the following characteristics were documented within a ¼-mile and ½-mile buffer of each site:

Edges Accessibility Existing ridership data Proximity to Trails Existing Bicycle and Pedestrian Facilities Population Employment Proximity to Community Facilities Bicycle & Pedestrian Crash Data Existing Infrastructure Redevelopment Potential Zoning & Land Use Existing Roadway Conditions & Traffic Right-of-Way Annual Average Daily Traffic (AADT)

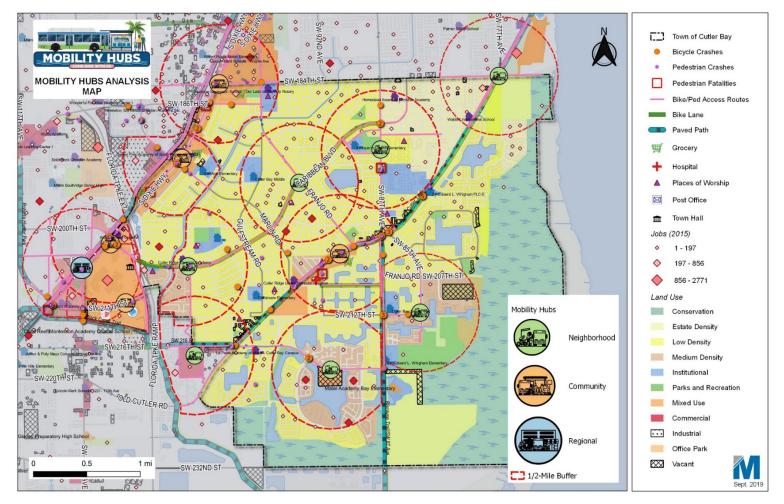


Figure 43: Hub Analysis Map



Design

The design of stations and bus stops are key components to the overall transit system. A well-designed stop or station can attract new riders, provide safety, amenities, attractive environments, create a sense of place and ensure connectivity. Designing walkable spaces encourages mode choice, health and community pride. Improvements to sidewalks, bus shelters, pedestrian and cycling networks, lighting, and amenities create better environments for walking, cycling, and waiting, which lead to higher active transportation and transit mode shares¹⁵. There are seven (7) main goals that should guide decisions when designing bus stops: safety, thermal comfort, accustic comfort, wind protection, visual comfort, accessibility, and integration.¹⁶ Furthermore, cleanliness, shelter, seating and mixed land uses are also important components to any bus stop or station.

Paving, lighting, and vegetation are thought to have the most perceived pedestrian benefit, hence why one of the key recommendations to improving transit stops include enhancements to landscaping in the form of canopy trees, Florida-Friendly shrubs and design. There are nine (9) key bus stop design techniques that help achieve the above-mentioned goals: lighting, seating, cover, amenities, information, vegetation, traffic management, pedestrian infrastructure, and bicycle infrastructure.¹⁷ Roadways that are transit-supportive are <u>designed</u> for multiple modes of transportation. Well integrated streets are active streets, providing safe, low-stress, bicycle and pedestrian facilities, including comfortable sidewalks and bikeways. Well-designed streets can create nodes of activity around stations and along routes, support transit, future growth, reliability, ridership, economic and sustainable development.

Disconnected street networks, highway barriers, high-crash or uncomfortable intersections, and difficult mid-block crossings must all be addressed to allow pedestrian and bicycle access to transit stops and stations. Mixed-use developments, commercial districts, residential areas, employment centers, and other destinations in proximity to transit make short trips more likely. To reduce conflicts, pedestrian and bicycle network facilities should be safe, accommodating, comfortable, coherent, predictable, context sensitive, and allow for innovation. Non-motorized facilities should be appropriate to the surrounding area, predictable, defined, delineated and continuous; innovative solutions to connect networks should be encouraged, especially at locations where conflicts are more likely and along higher-speed roadways. The success of the proposed mobility hubs will be determined by their design and coordination with government agencies to allow innovative techniques and approaches to enhancing the pedestrian environment.

¹⁷ Zhang, 2012



¹⁵ NRG Research Group, 2010

¹⁶ Zhang, 2012

Conceptual Design

The MARLIN team developed templates illustrating the three levels of Mobility Hubs for the Town of Cutler Bay. Figures 44 through 49 provide a graphic representation of those templates in addition to a plan sheet example of the improvements for the three types of Mobility Hubs, cost estimates for the plan sheets can be found in Appendix III.

Figure 44 illustrates a rendering of what a Neighborhood Hub could look like utilizing the existing bus shelter design for the Town. The Neighborhood Hub template includes:

- Real-Time Information Sign;
- Branded Identification Sign;
- Shelter;
- Seating;
- Trash/Recycle Receptacle;
- Landscape Enhancements;
- Lending Library;
- Bikeshare Station; and
- Enhanced Bicycle and Pedestrian Connections.

Figure 45, on the following page, illustrates a plan sheet improvement for the Lakes by the Bay Neighborhood Hub featuring:

- Addition of 5-foot Bicycle Lanes on SW 85 Avenue;
- Enhanced Pedestrian Crossings;
- Pedestrian Signage;
- Curb Extension on the Northwest Corner;
- Addition of Canopy Trees;
- Modification to the Median;
- Lane reduction on SW 85 Avenue South of SW 212 Street; and
- Addition of 10 Parallel Parking Spaces.



Figure 44: Neighborhood Hub Template





Figure 45: Neighborhood Hub Plan Sheet Improvements



Figure 46 illustrates a rendering of what a Community Hub could look like utilizing the Town's existing large shelter design. The Community Hub template includes:

- Real-Time Sign;
- Branded Identification Sign;
- Pedestrian Lighting;
- Trash/Recycle Receptacle;
- Public Art;
- Solar USB Charge Station;
- Carshare Station;
- Electric Vehicle Charging;
- Bikeshare Station;
- Shelter;
- Seating; and
- Enhanced Pedestrian & Bicycle Access.

Figure 47, on the following page, illustrates a plan sheet improvement for the Miami Heights Community Hub featuring:

- Kiss & Ride with Covered Walkway;
- Enhanced Pedestrian Connections;
- Enhanced Landscaping & Canopy Trees
- Removal of Billboard Signage;
- Enhanced Pedestrian Area on the East Side of U.S. 1; and
- Fencing to Funnel Pedestrians to Crosswalks near Kiss & Ride.





Figure 46: Community Hub Template



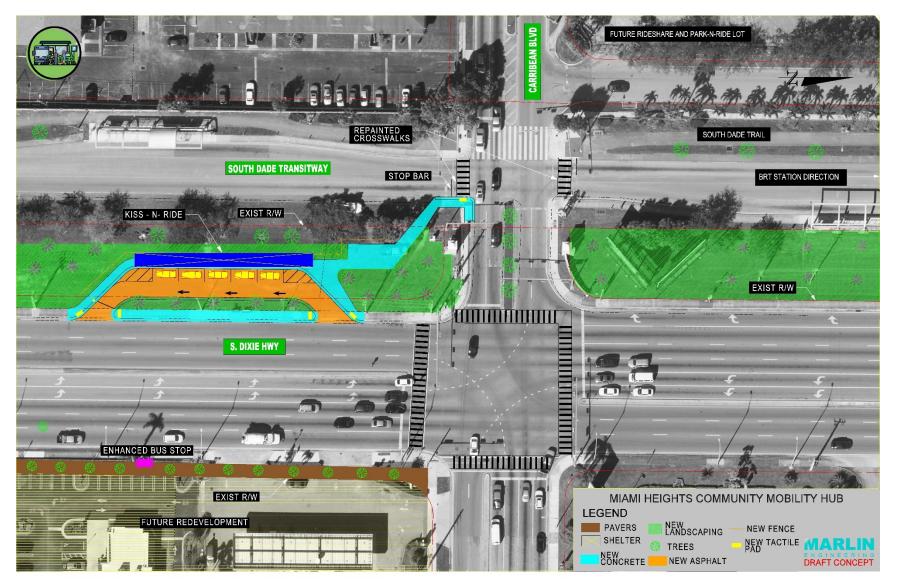


Figure 47: Community Hub Plan Sheet Improvements



Figure 48 illustrates a rendering of what the Regional Hub could look like with the construction of a parking garage adjacent to the Transitway at SW 112 Avenue. The Regional Hub template includes:

- Park & Ride Garage;
- Kiss & Ride;
- Bicycle Storage Lockers;
- Electric Vehicle Charging;
- Package Pickup Kiosks;
- Carshare Station;
- Future BRT Station;
- Linear Park;
- Enhanced Bicycle & Pedestrian Access; and
- Enhanced Landscaping & Canopy Trees.

Figure 49, on the following page, illustrates a plan sheet improvement for the Cutler Bay Regional Hub featuring:

- Kiss & Ride
- Waiting Area;
- Electric Vehicle Charge Station;
- Carshare Area;
- Future Location of Parking Garage;
- Reworking of Park & Ride Entrance;
- Enhanced Landscaping & Canopy Trees;
- Enhanced Pedestrian Area along East Side of U.S. 1; and
- Enhanced Pedestrian Crossings.



Figure 48: Regional Hub Template



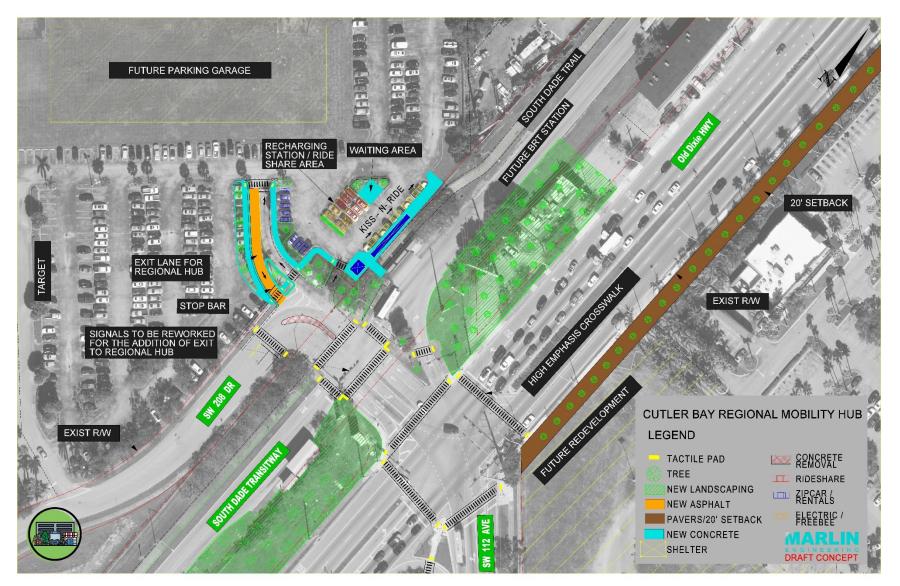


Figure 49: Regional Hub Plan Sheet Improvements



Bike & Pedestrian Facility Examples

Enhanced pedestrian and bicycle access are key components to transit, while the Town of Cutler Bay can make improvements along Town roads, most arterial and collector roadways are under the control of the Florida Department of Transportation or Miami-Dade County. Working with these two agencies to develop more pedestrian and bicycle friendly facilities are core components to ensuring the success of future Mobility Hubs. Below are some examples of enhanced pedestrian and bicycle facilities and treatments that could be used in identified Mobility Hub locations.



Figure 50: Examples of Pedestrian Crossings (Beginning left to right) - Baltimore, MD; Lompoc, CA; Montreal, Canada





Figure 51: Bike Facilities (From top left to right) - Queens Plaza, NY; NACTO Bikeway Design; Protected Bike Lane, Marachal Floriano, Brazil; Sevilla, Spain; Sydney, Australia, New York, NY





Figure 52: Linear Park Designs (Top Left to Right) - Madrid, Spain; Dandenong, Australia; San Mateo, CA; Japan





Figure 53: Florida Friendly Design - Starkey Ranch, FL

Green Infrastructure refers to an approach to water management which protects, restores, or mimics the natural water cycle. It is an effective, economical, and community enhancing alternative to traditional water treatment methods.



Figure 54: Green Infrastructure Examples in Florida: Low Impact Design, Bioswales & Raingardens





Figure 55: Pervious Hardscape Examples



Basic Amenities

Amenities are one of the core components of a successful transit stop or station. Amenities provide residents and users an enhanced experience, attracts people and creates a sense of place. Incorporating amenities into well designed transit stops "can expand pedestrian capacity and promote transit streets as a desirable *place* in the urban environment. Creating a simple, legible, and pleasant experience at the transit stop grows the capacity of the whole system, and can help transform transit from a basic coverage network to a sought-after mobility option".¹⁸

The following key transit stop amenities have been identified and defined by the Capital Metropolitan Transportation Authority's *Transit Design Guidelines: Standards* & *Best Practices*, and are believed to be key components for improving transit access and usability. Therefore, the following amenities will be recommended for installation at all selected sites as appropriate and encouraged for installation at all existing bus stops throughout the Town of Cutler Bay.



Signage

Bus stop signage should include route name, number, direction and destination. Metrobus customer service contact, system logo, and website address. Detailed schedules and route information at major boarding locations and transfer points. Signage should also include the unique bus stop identification number and instructions for the transit agency's application or website.

Lighting

Lighting should enhance safety by improving visibility, providing a sense of security and defining the waiting area. Areas around stops should be adequately lit at night, installing motion detection lighting can reduce energy usage and costs. Pedestrian scale lighting, typically includes lamps less than 25-feet high, is important for creating safe and comfortable environments, taking Dark Sky Principles¹⁹ into account.

Street Furniture

Street furniture enhances the experience of waiting through convenience and comfort, while also providing passerby's an opportunity to stop and rest. Examples of street furniture include shelters, seating, and bicycle racks. Opportunities to sit while waiting for a bus significantly reduces commuter stress.

¹⁸ NACTO, 2016

¹⁹ Dark Sky Principles are principles defined by the International Dark-Sky Association that minimize the harmful effects of light pollution.





Transit Shelters

Shelters protect passengers from weather conditions while waiting, and should be oriented to protect against exposure to the elements. Shelters should be designed in an open and inviting way with open design or glass panels. Metrobus and/or Town branding should be a component of the shelter, when feasible, while also adhering to branding standards.

Seating

Bus stops should have a variety of seating options, which include benches, leaning rails, and low masonry walls. The amount of seating should match the average number of commuters occupying the stop. Seating should be integrated into the landscape, serve non-commuters and shielded from vehicle traffic.



Bicycle Racks & Parking Shelters

Providing bicycle racks and parking is important in meeting the needs of commuters who utilize bicycles to access transit. Bicycle parking should be placed in well-lit and highly visible areas to deter theft. Due to the local South Florida environment, bicycle racks and parking should be covered to protect from the elements, and when feasible secured with limited access, such as a bicycle storage locker.

Wayfinding



Wayfinding provides assistance with navigating public spaces. Transit stops serve as gateways into neighborhoods and communities, and should be recognizable landmarks that enhance rider experience. Easy-to-follow wayfinding signage makes it easier to locate bus stops, stations, connecting routes, trails, community facilities, destinations, etc. Maps, schedule, route details, real time information, directional signage to key destinations, and relevant station names are all components to enhanced station facilities and increase ridership. Consistent brand, logos, colors, and fonts reinforce visibility and provide direction to all users. Wayfinding should provide the user with the minimum amount of information needed to find the right place and to avoid an overload of information.



Information Technology

Information plays an important role in the performance of bus stops. Schedule information will ideally be presented in real time and static form. Arrival information is best for digital display, transit maps are best presented in printed form. Updating static information such as system maps, placards and flags takes time and financial resources, digital information technology allows for wayfinding information to be presented to users in a quick, convenient, cost-effective, up-to-date manner.



Enhanced Pedestrian & Bicycle Access

Enhanced pedestrian and bicycle access include connected sidewalks, bicycle lanes, shared use pathways, high-emphasis crosswalks, pedestrian and bicycle signage, midblock crossings and walking environments that are safe, comfortable and convenient for non-motorized transportation.



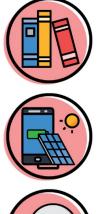


Landscape Enhancements

Landscape enhancements include canopy trees, green infrastructure, native Florida-Friendly landscaping. Enhancements to the landscape provide aesthetics, community pride, a comfortable walking environment, traffic calming and assist with reducing the heat island effect, providing patrons a refuge from the natural elements.

Mobility Hub Amenities

As mentioned in the beginning of this report a Mobility Hub encompasses an entire intersection or area, it includes the walkshed or ½-mile distance of any transit stop or station. Mobility Hub amenities not only include transit stop amenities, but additional amenities that would improve mobility, accessibility and the users experience of transportation through mode choice. Mobility Hub amenities include micro-mobility and shared mobility options, which can be utilized to activate spaces, streets and neighborhoods and encourage socialization, community pride and non-motorized transportation. Red icons represent recommended amenities to be placed at all Mobility Hub locations, blue icons represent optional amenities that can be placed at any Mobility Hub where feasible.



Lending Library²⁰

A free little library where one takes a book and returns a book, free book exchange which come in many shapes and sizes, with the most common version as a small wooden box of books, which have a unique, personal touch. Anyone may take or bring a book to share.

USB Charge Station

A device where one can charge or recharge their mobile device via a USB cord, may or may not utilize solar for charging.

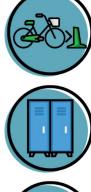


Emergency Callbox

Provide public safety and instant communication with one button calling of 911, Police, Fire, Security or help.

²⁰ www.littlefreelibrary.org





Bicycle Share

Provides users with on-demand access to bicycles at a variety of pick-up and drop-off locations for one-way (point-to-point) or roundtrip travel. Bikesharing fleets are commonly deployed in a network within an urban area, city, neighborhood, employment center, and/or university campus²¹.

Bicycle Storage Locker

Lockers are fully enclosed storage devices used to secure a bicycle, ideal for long-term parking, areas with high local theft rates, isolated areas and/or in proximity to transit stations.



Bicycle Repair Station

A fixed station with tools necessary to perform basic bicycle repairs and maintenance.



Car Share²²

Offers members access to vehicles by joining an organization that provides and maintains a fleet of cars and/or light trucks. These vehicles may be located within neighborhoods, public transit stations, employment centers, universities, etc. The carsharing organization typically provides insurance, gasoline, parking, and maintenance. Members who join a carsharing organization typically pay a fee each time they use a vehicle.



Electric Vehicle (EV) Charging Station

A location which provides electric energy for recharging electrically-powered vehicles, including hybrid electric vehicle, plug-in hybrid electric vehicle, extended-range electric vehicle, and battery electric vehicle.





Park & Ride [with Smart Parking Info]

Parking areas conveniently located for individuals to ride public transit to reach their destination. These facilities are typically free and located adjacent to a major transit station or hub and can be enabled with sensors for real-time information on parking availability.

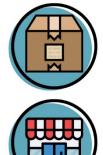
Microtransit²³

Are privately or public operated, technology-enabled transit service that typically uses multi-passenger/pooled shuttles or vans to provide ondemand or fixed-schedule services with either dynamic or fixed routing. Vehicles can be electric and utilize phone applications for service and real-time information, examples include Freebee and the Downtowner.



Kiss & Ride

An area, typically adjacent to a transit station, airport or seaport, where individuals can be quickly dropped-off or picked-up for convenience. These designated areas typically have limited time frames for vehicles to wait or idle.



Package Pickup Kiosk

An electronically secured storage locker, conveniently located, and typically equipped with a kiosk computer to access packages purchased through an on-line retailer, such as Amazon or Walmart. Can be installed indoors or outdoors, outdoor lockers are 100% weather-proof and can withstand the elements. Recipients are notified upon delivery and access their package through an access code or barcode provided upon delivery notification.

Retail

A place or kiosk where the sale of goods to the public occurs, can be permanent, temporary or mobile.

²³ www.SAE.org/shared-mobility





Public Space

Shared spaces which include streets, parks, plazas, waterways, public transportation, public markets, open areas, etc.



Public Art

Art for everyone, a form of collective community expression. Comes in many different forms, textures and expressions.



WIFI²⁴

A facility allowing computers, smartphones, or other devices to connect to the internet or communication with one another wirelessly within a particular area.

Information Kiosk

A place, device or person providing individuals with information or map of the area, transit system, and at times amenities including phone charging area, bathrooms, WiFi, vending machines, etc.

Air Misting System

A system in which uses pressurized water to create fine water droplets which evaporate, thus producing a cooling effect in the surrounding area.

²⁴ www.dictionary.com





Security

The use of security features, such as video cameras, closed circuit television or the presence of police and/or security officers to enhance security, deter theft and provide the public with a sense of safety and security. Security also refers to community policing, and ensuring security companies are upholding the rules at transit facilities to ensure the safety and security of the public.



The use of technology to detect movement in an area, this can be used to reduce and/or conserve energy, turn on lights, cameras or other technologies.

Mobility share, public spaces and plazas, public art, WiFi, lending library and USB charging stations are all optional recommendations at all selected sites, and should be included where feasible. Table 10 is a list of the Mobility Hub types with recommended and optional amenities.

HUB TYPE	Bicycle Share	Bicycle Storage Locker	Bicycle Repair Station	Car Share	EV Charging Station	Park & Ride	Microtransit	Kiss & Ride	Air Misting System	Package Pickup Kiosk	Retail	Public Space	Public Art	WiFi	Info Kiosk	Lending Library	Enhanced Security	USB Charging Port	Real-Time Signage
N	Х	0	0	0	/	/	0	/	0	0	0	0	Х	0	0	Х	0	Х	Х
С	Х	0	0	Х	Х	0	0	0	0	Х	Х	Х	Х	0	0	Х	Х	Х	Х
R	Х	Х	Х	Х	Х	Х	0	Х	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
	X – RECOMMENDED O – OPTIONAL / - NOT APPLICABLE																		

Table 10: Mobility Hub Amenity Table



Neighborhood Hubs

Neighborhood Hubs are small scaled transit hubs, typically found within residential areas served by at least one (1) transit line. These Hubs are equipped with, at minimum, shelter, seating, trash and recycling receptacles, bike rack, emergency callbox, wayfinding, pedestrian lighting and real-time information. See Figure 56 for an example of a Neighborhood Hub.

Additional items to consider are shared mobility options for the first/last mile connection, public art to enhance community identity, a public space/plaza, such as a pocket park, to provide a place for socialization and relaxation, security cameras to enhance safety and security,

motion-sensing technology to conserve energy, USB charging station to provide users the opportunity to charge their devices on the go and free lending library to encourage reading, socialization and community pride.

Neighborhood hubs should be connected to pedestrian and bicycle facilities, have enhanced safety crossings for bicyclists and pedestrians and be accessible.

Figure 56: Neighborhood Hub Template





Lakes by the Bay

The proposed neighborhood hub is located at the intersection of SW 85 Avenue and SW 212 Street, near Cutler Bay Senior High School, see Figure 57. The Town recently replaced and installed two bus shelters with seating, trash receptacles, a bicycle rack and solar powered light bollards along SW 85 Avenue, serviced by Route 287 Saga Bay Express and Route 200, Town Circulator, servicing only the west bus stop. Additionally, the area is one of the denser residential communities within the Town, there are several high-rise residential buildings, many which house seniors. The evaluation tables provided for each location establish the details of the roadway, routes servicing the proposed mobility hub, pedestrian and bicycle infrastructure, nearby facilities and zoning within ¼-mile and ½-mile for each mobility hub proposed. Table 11 provides an overview of existing conditions and information; Table 12 provides future planned improvements and recommendations related to amenities and infrastructure improvements.

н	JB INFO	Route	Riders	hip (Avg Daily)	Bus Type	
Name	Lakes by the Bay	20	0	157	Circulator	
Туре	Neighborhood	28	7	373	Limited Stop	
Location	85 Ave / 212 St	тот	- 1	500		
Road Class	4	TOTAL		5.	530	
Lanes	4	Bi	Bike/Ped Facilities		Distance (Mi)	
Speed Limit	30		Cutler B	0.25		
Median	Yes		Biscayr	ne Trail	0.3	
ROW	128 FT	208th St Bike Lane			0.6	
Agency	County	Old Cutler Trail		1.07		
Road Width 16 (x2) FT		AADT				
Bus Stop ID	9765 (W)	SW 85 Ave		e.	N/A	
Bus Stop ID 449 (E)		SV	W 212 St.		N/A	

Table 11: Lakes by the Bay Location Data



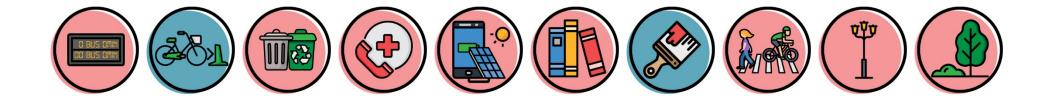
Figure 57: Lakes by the Bay Aerial



Table 12: Planned Improvements & Recommendations

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Sharrows on SW 212 St.	Real-Time Information Display	4'-5' Bicycle Lane on SW 85 Ave
Park with Canoe Launch	Bikeshare Station	Enhanced Pedestrian Crossings
	Recycle Receptacle	Pedestrian Crossing Signs
	Emergency Callbox	Curb Extension on NWC
	USB Charge Port	10 Parallel Parking Spaces
	Lending Library	Lane Reduction on 85 th Ave., S of 212 St.
	Box Wrap of Mechanical Equipment	Fill Sidewalk Gaps with ¼-mile
		Enhanced Landscaping
		Pedestrian Lighting

Approximate Cost Estimate for Recommended Amenities: \$61,600 (details in Appendix III) Approximate Cost Estimate for Recommended Infrastructure Improvements: \$477,355 (details in Appendix III)





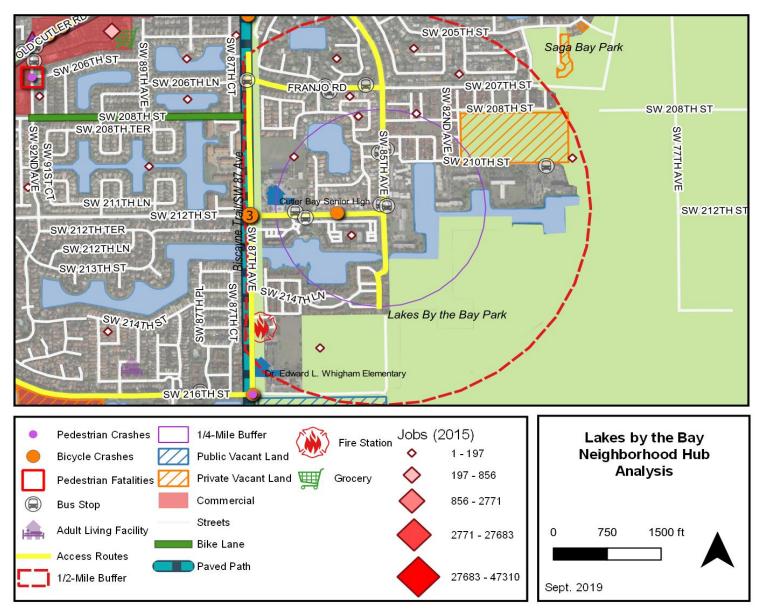


Figure 58: Lakes by the Bay Analysis



Pinewood

The proposed neighborhood hub is on SW 87th Avenue at SW 190th Street, near the Ned Glenn Nature Preserve and Pine Woods Villa residential community, see Figure 59. There are two existing standard Miami-Dade County bus shelters that are serviced by Route 287 Saga Bay Express and Route 200, Town Circulator serving only the west bus stop. The bus stops are equipped with shelter, seating, signage, trash receptacle, route system map and advertising. The area is near several condominium communities, where seniors reside; Whispering Pines Elementary School and a place of worship. Table 13 provides an overview of existing conditions; Table 14 provides future planned improvements and recommendations related to amenities and infrastructure improvements.

Table 13: Pinewood Location Data

н	JB INFO	Route	Ridership (Avg Daily)	Bus Type	
Туре	Neighborhood	200	157	Circulator	
Location	SW 87 Ave / SW 190 St	287	373	Limited Stop	
Road Class	3	ΤΟΤΑΙ	Г	530	
Lanes	2	TUTAL		30	
Speed Limit	35	Bike/Ped Facilities		Distance (Mi)	
Median	No	Caribbean Bike Lane		0.25	
ROW	47 Feet	Biscayne Trail		0.8	
Road Width	32 Feet	Old Cutler Trail		0.8	
Agency	County				
Bus Stop ID	C87V1903 (W)	SW 87 Ave		101,000	
Bus Stop ID	C87V1902 (E)	SW	190 St	N/A	

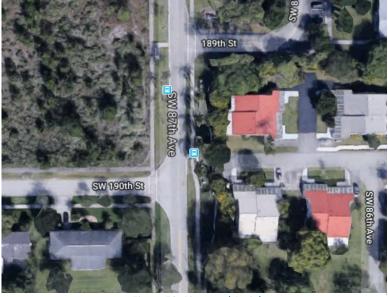


Figure 59: Pinewood Aerial



Table 14: Planned Improvements & Recommendations
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Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Complete Streets Treatment along SW 87 Ave.	Upgrade Shelter	Support of Complete Streets Improvements
Street Lighting	Bike Rack	Midblock Crossing with Inground Lighting
Traffic Calming	Real-Time Information Display	Fill Sidewalk Gaps with ¼-mile
Shared Use Path	Bikeshare Station	Enhanced Landscaping
Midblock Crossing at SW 189 St.	Lending Library	
Bioswale & Landscape Improvements	USB Charge Port	
	Box Wrap of Mechanical Equipment	
	Emergency Callbox	
	Recycling Receptacle	

Approximate Cost Estimate for Recommended Amenities: \$157,660 (details in Appendix III)





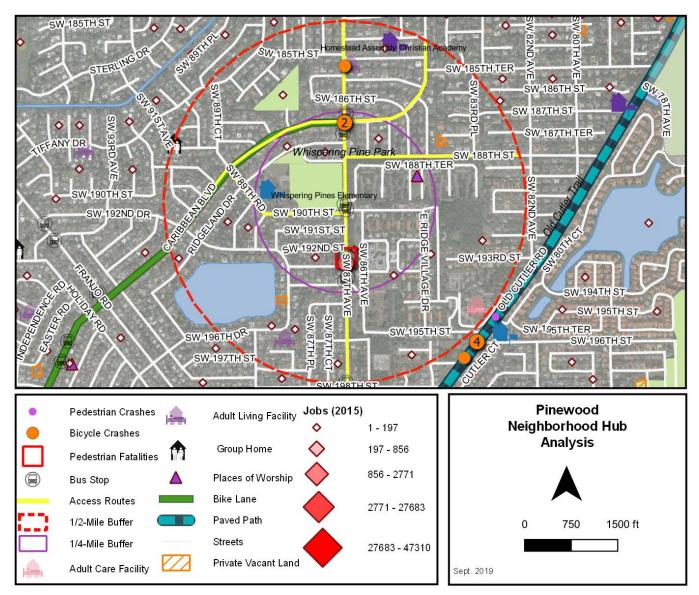


Figure 60: Pinewood Neighborhood Hub Analysis



Whispering Pines

The proposed Neighborhood Hub is recommended at Caribbean Boulevard and Franjo Road, near existing single-family residential uses, see Figure 61. The existing bus stops are serviced by Route 1 and Route 200, Town Circulator, which services only the stop on Caribbean Boulevard. The bus stop on Caribbean Boulevard is currently equipped with signage, a bench, trash receptacle and bus bay. The bus stop located along Franjo Road is currently equipped with a standard Miami-Dade shelter with seating, trash receptacle and signage. Caribbean Boulevard has had recent improvements which include landscape enhancements, traffic calming treatments, enhanced crosswalks, pedestrian signals, lighting, bus bay and bicycle lanes. Table 15 provides the existing conditions and location data; Table 16 provides future planned improvements and recommendations.

	HUB INFO	Route	Ridership (Avg Daily		
Туре	Neighborhood	1	293	Circulator	
Location	Caribbean Blvd. / Franjo Rd.	200	157	Circulator	
Road Class	3	TOTAL		450	
Lanes	2	TOTAL		450	
Speed Limit	30	Ped/Bike Facilities		Distance (Mi)	
Median	Yes	Caribbea	n Bike Lane	0	
ROW	95 Feet	Old Cu	ıtler Trail	0.8	
Road Width	32 Feet	Biscayne Trail		1	
Agency	County	AADT			
Bus Stop ID	CARBFRA3 (W)	Caribbean Blvd.		13,700	
Bus Stop ID	FRJRCAR2 (E)	Franjo Rd.		11,900	

Table 15: Caribbean / Franjo Location Data

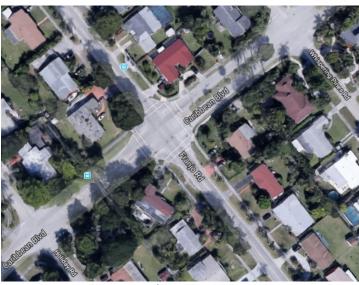


Figure 61: Caribbean/Franjo Neighborhood Hub Aerial



Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Complete Streets Treatment along Franjo Rd.	Install Shelter(s) on Caribbean Blvd.	Support of Complete Streets Improvements
Street Lighting	Upgrade Shelter on Franjo Rd.	Pedestrian Crossing Signs
Traffic Calming	Real-Time Information Display	Fill Sidewalk Gaps with ¼-mile
4' Bike Lanes	Bikeshare Station	Enhanced Landscaping
Midblock Crossings	Lending Library	
Bioswale & Landscape Improvements	USB Charge Port	
Furniture Zone	Emergency Callbox	
Pedestrian Zone	Recycling Receptacle	
	Bike Rack	

Table 16: Planned Improvements & Recommendations

Approximate Cost Estimate for Recommended Amenities: \$154,160 (details in Appendix III)





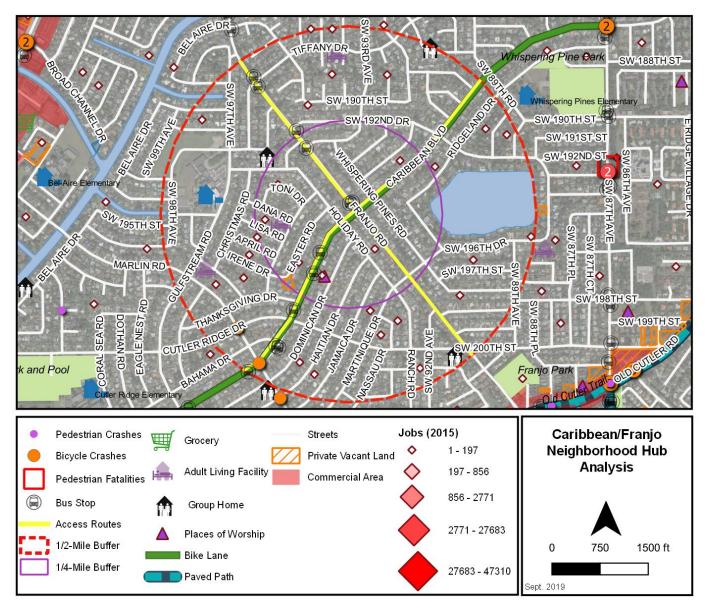


Figure 62: Caribbean Franjo Neighborhood Hub Analysis



Cutler Ridge

The proposed Neighborhood Hub is located on Caribbean Boulevard, west of Anchor Road, near existing single-family residential uses, Cutler Ridge Christian Academy and several places of worship, see Figure 63. The existing bus stops include upgraded shelters with seating, bicycle rack, trash receptacle, bus bay and signage. The stops are serviced by Route 1 and Route 200, Town Circulator servicing only the northside bus stop. Caribbean Boulevard has undergone a complete streets treatment in the last several years which include lighting, enhanced pedestrian crossings with signage, pedestrian crossing signals, enhanced landscaping and bike lanes. Table 17 provides the existing conditions and location information; Table 18 provides planned improvements and recommendations.

Table 17: Cutler Ridge Location Data

	HUB INFO	Route	Ridership (Avg Daily)	Bus Type
Туре	Neighborhood	1	293	Circulator
Location	Caribbean Blvd. / Anchor Rd	200	157	Circulator
Road Class	3	TOTAL		450
Lanes	2	Ped/Bike Facilities		Distance (Mi)
Speed Limit	30	Caribbean Bike Lane		0
Median	Yes	South Dade Trail		0.8
ROW	90 Feet	Old Cutler Trail		1.1
Roadway Width 32 Feet		Black Cr	1.7	
Bus Stop ID				
Bus Stop ID	CARBANC5 (S)	Caribbe	ean Blvd	13,700

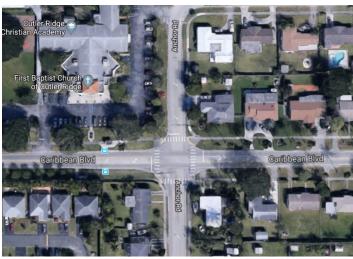


Figure 63: Cutler Ridge Aerial Map



Table 18: Planned Improvements & Recommendations

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Caribbean Blvd. Bridge Widening	Real-Time Information Display	Support of Bridge Widening
	Explore a Partnership with Cutler Ridge Baptist	Fill Sidewalk Gaps with ¼-mile
	for Carshare, Park & Ride and/or EV Charging	
	Lending Library	
	USB Charge Port	
	Box Wrap of Mechanical Equipment	
	Emergency Callbox	
	Recycling Receptacle	
	Bikeshare Station	

Approximate Cost Estimate for Recommended Amenities: \$71,500 (details in Appendix III)





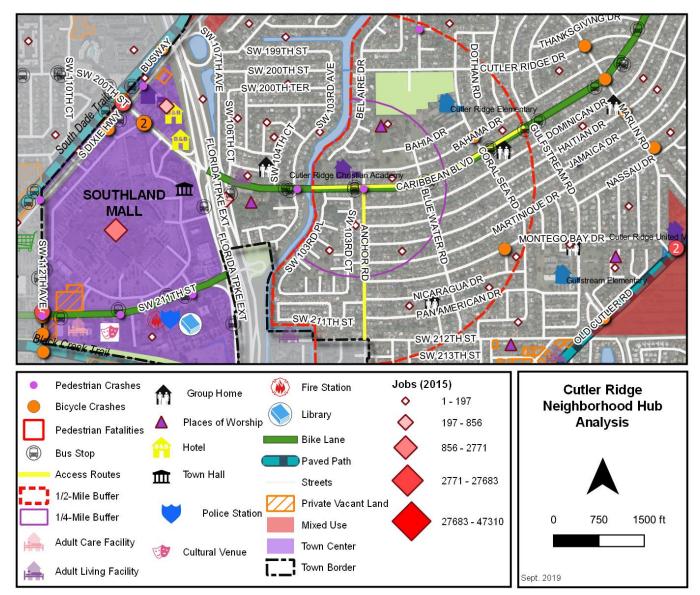


Figure 64: Cutler Ridge Neighborhood Analysis



The Isles

The recommended Neighborhood Hub is to be placed on SW 216th Street at SW 89th Place, southside, see Figure 65. This Hub is recommended once the vacant parcel is developed and a counter-clockwise Town Circulator is implemented. The area is currently serviced by Route 287 Saga Bay Express and Route 200, Town Circulator, servicing only the northside bus stops. The Hub would utilize an existing concrete pad overlooking the lake and convert the existing right-turn lane into a bus bay. SW 216th Street includes canopy tree lined swale, pedestrian lighting and sidewalks. The area is surrounded by single-family and townhouse residential development, with the future potential for neighborhood commercial and office uses. Table 19 provides an overview of existing conditions and location data; Table 20 provides future planned improvements and recommendations.

Table 1	19: The	Isles L	Location	Data
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HU	Route	Ridersh (Avg Dai		Bus Type		
Туре	Neighborhood	200	157		Circulator	
Location	SW 216 St / SW 89 Pl	287	373		Limited Stop	
Road Class	3	TOTAL		Г ́	530	
Lanes	2	TOTAL	UTAL 53			
Speed Limit	35	Bike/Ped Facilities		Distance (Mi)		
Median	Yes	Bisca	ayne Trail		0.5	
ROW	120 Feet	Old Cutler Trail		1		
Roadway Width 32 (x2) Feet		Black Creek Trail			1.7	
Bus Stop ID	None	AADT				
Bus Stop ID	None	SW 216 St.		18,800		



Figure 65: SW 216 Street Aerial



Table 20: Planned Improvements & Recommendations

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Shared Use Path along SW 216 St.	Shelter with Basic Amenities	Support of Shared Use Path
Bike Lanes on SW 216 St.	Real-Time Information Display	Support for Traffic Circle
Traffic Circle at SW 216 St. & SW 87 Ave.	Lending Library	Fill Sidewalk Gaps with ¼-mile
	Work with Future Developer for Carshare	Midblock Crossing with Inground Lighting at
	Bikeshare Station	SW 216 St. & SW 89 Pl.
	Emergency Callbox	Enhanced Landscaping
	USB Charge Port	Pocket Park

Approximate Cost Estimate for Recommended Amenities: \$104,930 (details in Appendix III)





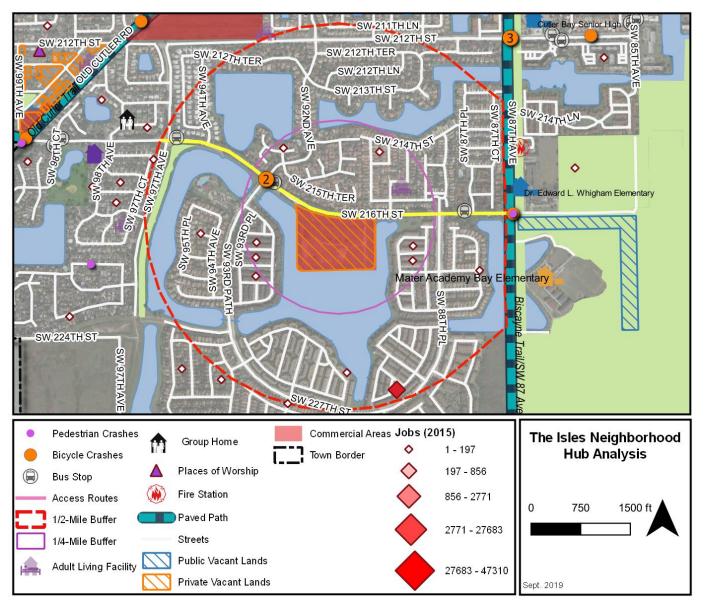


Figure 66: The Isles Neighborhood Hub Analysis



Eureka Drive East

The proposed Neighborhood Hub is recommended on Old Cutler Road and SW 184th Street, along the border of the Town of Cutler Bay and the Village of Palmetto Bay, surrounded by single-family and estate residential uses and the Palmetto Bay Village Center to the northeast, see Figure 67. There are no existing routes or bus stops within the area, the Hub is recommended for installation once a route is established to serve this area of the Town. Table 21 provides the existing conditions and location data; Table 22 provides the future planned improvements and recommendations.

Table 21: Eureka Drive East Location Data

F	IUB INFO	Route	Ridershi (Avg Dail	•
Туре	Neighborhood			
Location	Old Cutler Rd / SW 184 St	None		
Road Class	3	Ped/Bike Facilities		es Distance (Mi)
Lanes	2	Old Cutler Trail		0
Speed Limit	40	Biscayne Trail		1.9
Median	None	South Dade Trail		l 2.7
ROW	95 Feet	AADT		
Roadway Width	32 Feet	Old Cu	tler Rd.	17,300
Bus Stop ID	None	SW 1	84 St.	5,300
Bus Stop ID	None			

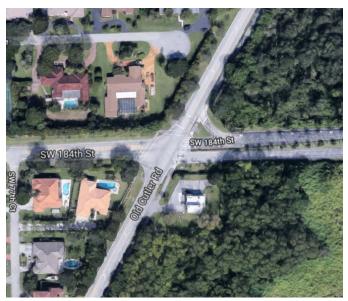


Figure 67: Eureka Drive East Aerial



Table 22: Planned Improvements & Recommendations

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Shared Use Path or Sidewalk West of OCR	Shelter with Basic Amenities	Bike Signal at SW 184 St. & OCR
Filling Sidewalk Gaps along SW 184 St.	Real-Time Information Display	Enhanced Landscaping
	Lending Library	Fill Sidewalk Gaps with ¼-mile
	USB Charge Port	Enhanced Pedestrian Crossings
	Bikeshare Station	Pedestrian Sign
	Emergency Callbox	Pedestrian Signals
		Support of Sidewalk west of OCR
		Shared Use Path along SW 184 St.
		Pedestrian Lighting

Other recommendations include:

- Working with Village of Palmetto Bay in establishing Transit for the area
- Work with Village of Palmetto Bay in enhancing the intersection for Bicycle and Pedestrian Safety
- Extending Town Circulator Route to include service

Approximate Cost Estimate for Recommended Amenities: \$104,930 (details in Appendix III)





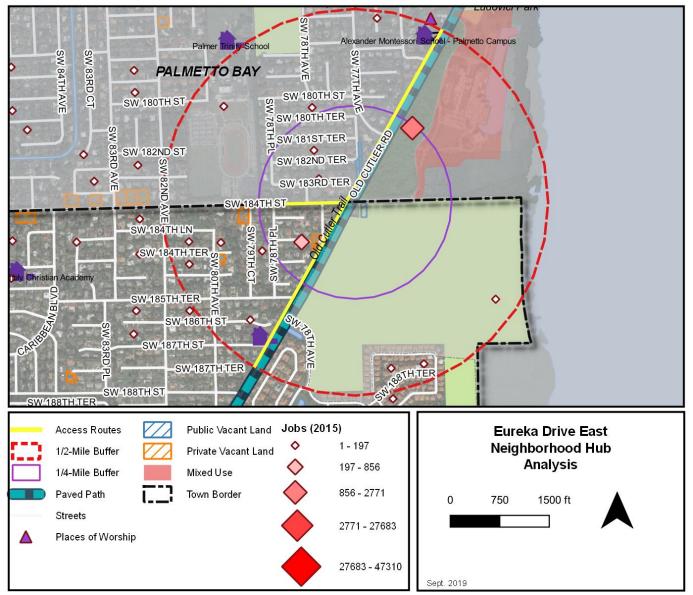


Figure 68: Eureka Drive East Analysis



Community Health

The proposed Neighborhood Hub is recommended just outside the Town's borders at the existing Community Health Medical Center on SW 216th Street and SW 102nd Avenue, see Figure 69. The existing bus stop is serviced by Route 287 Saga Bay Express and Route 52, near multi-family and single-family residential communities, and the Florida Turnpike to the west. The existing bus stops are equipped with a bus bay, signage, a trash receptacle, pedestrian lighting and benches. Table 23 provides the location data and existing conditions; Table 24 provides the evaluation table for the Community Health Neighborhood Hub.

Table 23: Community Health Location Data

		Douto	Ridership	
Ī	iub info	Route	(Avg Daily)) Bus Type
Туре	Neighborhood	52	1296	Local
Location	SW 216 th St / SW 102 Ave	287	373	Limited Stop
Road Class	3/5	TOTAL	1669	
Lanes	4 / 2	Bike/Ped Facilities		Distance (Mi)
Speed Limit	35	Old Cutler		0.5
Median	Yes / None	Blac	ck Creek	0.5
ROW	275 / 85	Biscayne Trail		1.9
Roadway Width	32 (x2) / 16	South Dade Trail		2
Bus Stop ID	HLTHCNTT	AADT		
Bus Stop ID	N/A	SW 216 St. 18,800		18,800

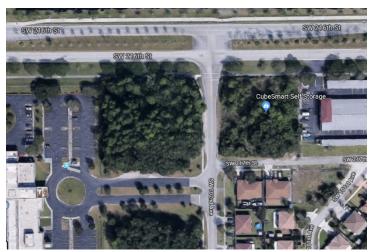


Figure 69: Community Health Aerial



Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
5' Bicycle Lanes along SW 216 St.	Shelter w/ Basic Amenities	Enhanced Landscaping
	Real-Time Information Display	Fill Sidewalk Gaps with ¼-mile
	Lending Library	Enhanced Pedestrian Crossings
	USB Charge Port	Pedestrian Sign
	Security Camera	Midblock Crossing with Inground Lighting at
	Emergency Callbox	SW 216 St. & SW 102 Ave.
	Bicycle Storage Locker	Pedestrian Lighting
	Bikeshare Station	Park & Ride
	Package Pickup Kiosk	
	Pop Up Retail	
	Carshare	

Approximate Cost Estimate for Recommended Amenities: \$131,052 (details in Appendix III)





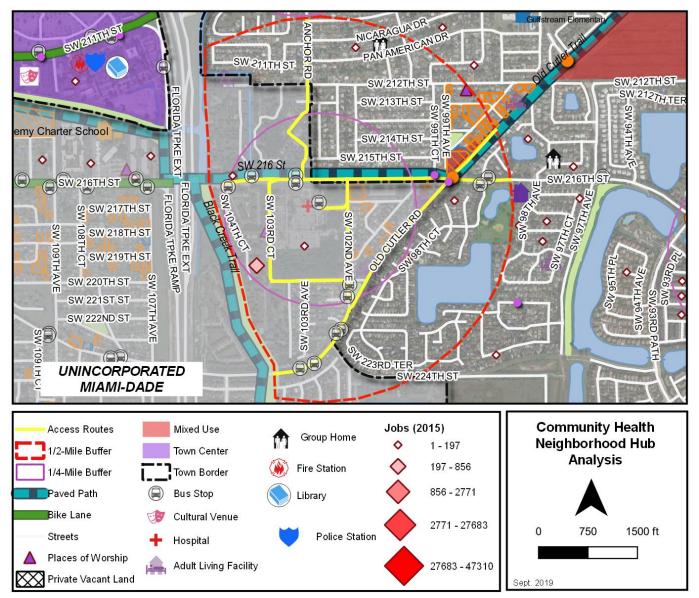


Figure 70: Community Health Neighborhood Hub Analysis



Community Hubs

Community Hubs are medium scaled transit hubs, typically found within areas which have a mixture of uses, density and/or employment hubs, Community Hubs are served by at least one (1) or more transit lines and average over 100 daily riders. Community Hubs are equipped with the basic transit amenities and many of the amenities listed in the Neighborhood Hubs section, but provide larger shelters to accommodate the higher uses. An example of this can be found in Figure 71.

Community Hubs may also feature park and ride lots for convenience, kiss and ride lot for quick pick-up and drop-off, an information kiosk

for detailed information on routes, connections and the area. Community Hubs may also feature bicycle storage lockers for long-term secured bicycle parking and theft deterrence, bicycle repair stations to perform basic repairs on the go, EV charging stations for vehicle charging, package pickup kiosk for package delivery services, microtransit to fulfill the first/last mile connection, retail to provide on the go services or errands, and WiFi to enhance the waiting experience. Community Hubs offer users the ability to visit other destinations, fulfill errands and reduce additional trips. They are destinations for residents, visitors, and workers that are pedestrian friendly environments. Community Hubs are key areas for placemaking and creating a sense of place that enhance neighborhoods and communities.

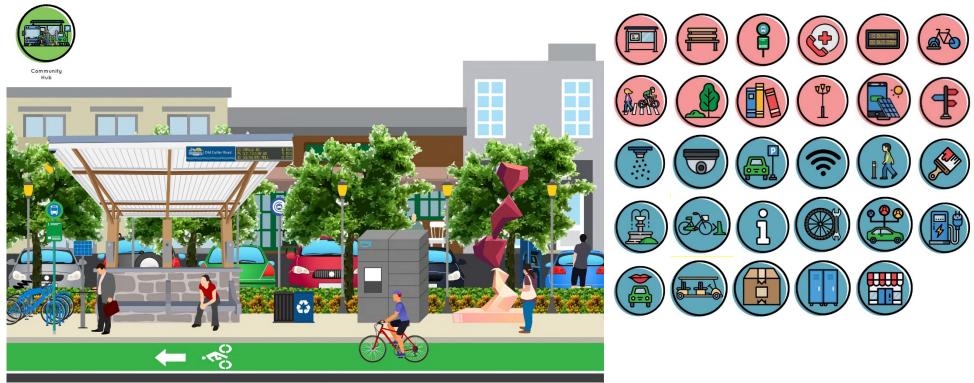


Figure 71: Community Hub Template



PAGE 107



Town Center

The Community Hub is recommended at the Town Center off Old Cutler Road west of Franjo Road, near the existing Publix Shopping Center, see Figure 72. The existing bus stop is serviced by Route 200, the Town Circulator, and is currently the stop with the highest number of boardings and alighting for Route 200. There are existing commercial uses, multi-family and single-family residential communities, the Old Cutler Trail, and is zoned Neighborhood Center 1, which allows commercial and residential development. The existing bus stop is larger than the neighborhood bus stops, equipped with a large shelter, seating, bicycle rack, trash receptacle, pedestrian lighting and signage. Recent improvements include complete streets treatment to Old Cutler Road between SW 98 Avenue and SW 87 Avenue. Table 25 provides existing conditions and location data; Table 26 provides recommendations; no future planned improvements were identified for this section of Old Cutler Road.

HU	IB INFO	Route	Ridership (Avg Daily)	Bus Type
Туре	Community	200	157	Circulator
Location	OCR / W of Franjo	ΤΟΤΑΙ	1	57
Road Class	3	TOTAL	1	57
Lanes	2	Bike/Pec	Facilities	Distance (Mi)
Speed Limit	35	Old Cu	tler Trail	0
Median	Yes	Biscayne Trail 0.4		0.4
ROW	115 Feet / Varies	208th St. Bike Lane 0.4		0.4
Roadway Width	32 Feet	Caribbean	Bike Lanes	0.9
Bus Stop ID	Old Cutler @ Old Cutler Town Center		AADT	
Bus Stop ID	Not in use	Old Cutler Rd. 15,900		15,900

Table 25: Town Center Location Data

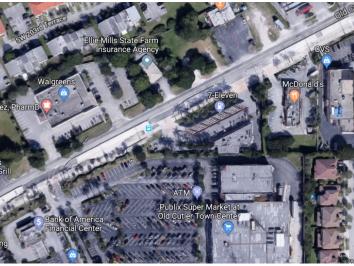


Figure 72: Town Center Aerial



Table 26: Recommendations

Recommended Amenities	Recommended Infrastructure Improvements
Information Kiosk	Enhanced Landscaping
Real-Time Information Display	Fill Sidewalk Gaps with ¼-mile
Lending Library	5' Bicycle Lanes on SW 92 Ave.
USB Charge Port	Inground Lighting at existing Midblock Crossing
Box Wrap of Mechanical Equipment	Park & Ride
Emergency Callbox	
Bikeshare Station	
EV Charge Station	
Package Pickup Kiosk	
Security Camera	
Recycle Receptacle	
Carshare	

Approximate Cost Estimate for Recommended Amenities: \$94,700 (details in Appendix III)





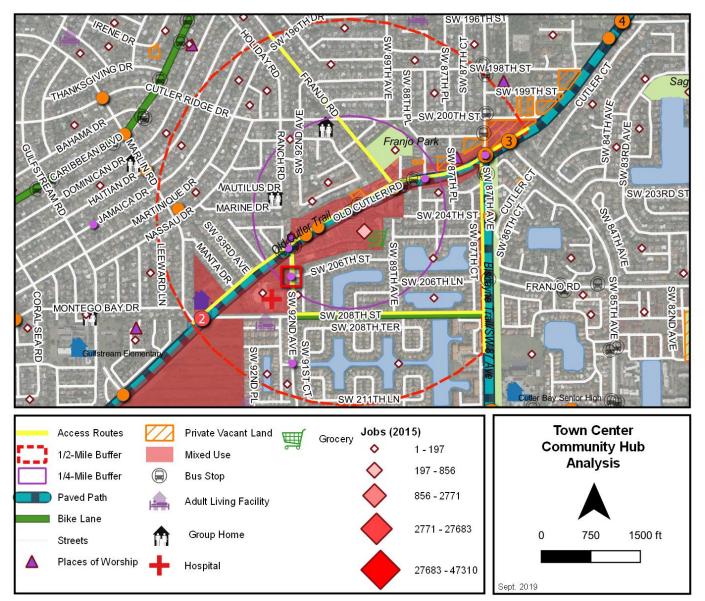


Figure 73: Town Center Community Hub Analysis



Eureka Drive West

The Community Hub is recommended on SW 184th Avenue, east of U.S. 1 /South Dixie Highway, see Figure 74, currently serviced by Route 200, the Town Circulator. The existing nearby Transitway Station is serviced by Routes 1, 31, 35, 38, and 52, are located within ¼ mile of the proposed Community Hub. There are existing shopping centers, industrial uses, nearby multi-family and single-family residential uses. The area has also been rezoned by the Town of Cutler Bay, Village of Palmetto Bay and Miami-Dade County for Transit-Oriented Development. The existing bus stop is currently equipped with two benches, trash receptacle and signage. Table 27 provides existing conditions and location data; Table 28 provides future planned improvements and recommendations.

н	ub	Route	Ridership (Avg Daily)	Bus Type	
Туре	Community	Route 1	293	Circulator	
Location	184 St / E of US 1	Route 31	1,114	Busway Local	
Road Class	3	Route 35	2,181	Local	
Lanes	5	Route 38	6,389	Busway Max	
Speed Limit	40	Route 52	1,296	Local	
Median	No	Route 200	157	Circulator	
ROW	100 Feet	TOTAL			
Roadway Width	60 Feet	TOTAL		11430	
Bus Stop ID	C184US16	Bike/Pec	Facilities	Distance (Mi)	
Bus Stop ID	None	South D	ade Trail	0.1	
AA	ADT	SW 97 Av	e Bike Lane	0.4	
SW 184 St.	5,300	176 th St	Bike Lane	0.7	
U.S. 1	50,500	Old Cu	tler Trail	2.6	

Table 27: Eureka Drive West Location Data

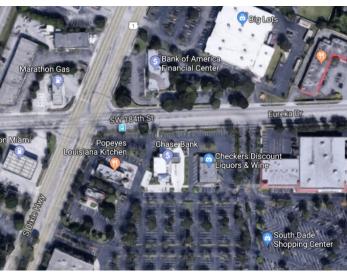


Figure 74: Eureka Drive West Aerial



Table 28: Planned Improvements & Recommendations

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Park & Ride near SW 184 St & Transitway	Shelter with Basic Amenities	Enhanced Landscaping
BRT Station near SW 184 St.	Real-Time Information Display	Fill Sidewalk Gaps with ¼-mile
Rehabilitation of Existing Transitway Stations	Lending Library	Enhanced Pedestrian Crossings
Resurfacing of U.S. 1 / S. Dixie Hwy.	USB Charge Port	Pedestrian Signs
Filling in Sidewalk Gaps along SW 184 St.	Box Wrap of Mechanical Equipment	8' Shared Use Path along SW 184 St.
4' Bike Lanes on SW 184 St.	Emergency Callbox	ADA Improvements
Redevelopment of DUV in Palmetto Bay	Bicycle Storage Locker	Midblock Crossing on SW 184 St.
(north)	Bikeshare Station	Bicycle Light at U.S. 1 & SW 184 St.
	Package Pickup Kiosk	Bike Box at U.S. 1 & SW 184 St.
	EV Charge Station	Pedestrian Promenade along U.S. 1
	Carshare	Pedestrian Lighting
	Bicycle Rack	
	Security Camera	
	Recycle Receptacle	
	Designated Waiting area for TNC's (Optional)	
	Information Kiosk (Optional)	
	WiFi (Optional)	

Approximate Cost Estimate for Recommended Amenities: \$147,090 (details in Appendix III)

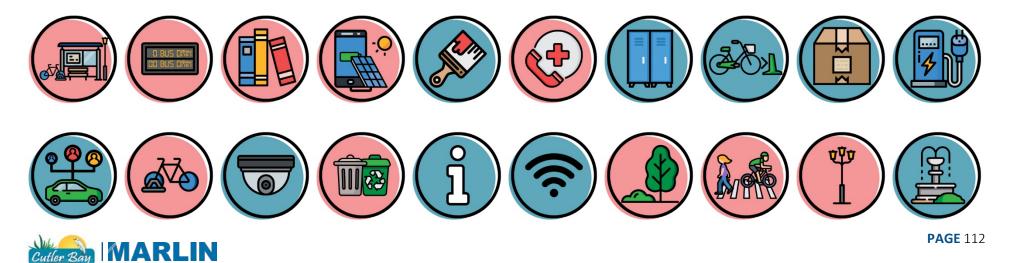




Figure 75: Proposed Street Section for SW 184 Street

Figure 75 provides an illustration of what SW 184 Street could look like, providing facilities for pedestrians, vehicles, shared mobility services and street furniture. Note: the proposed 9' bicycle lane could be fitted to accommodate low speed vehicles, such as electric golf carts and neighborhood electric vehicles.



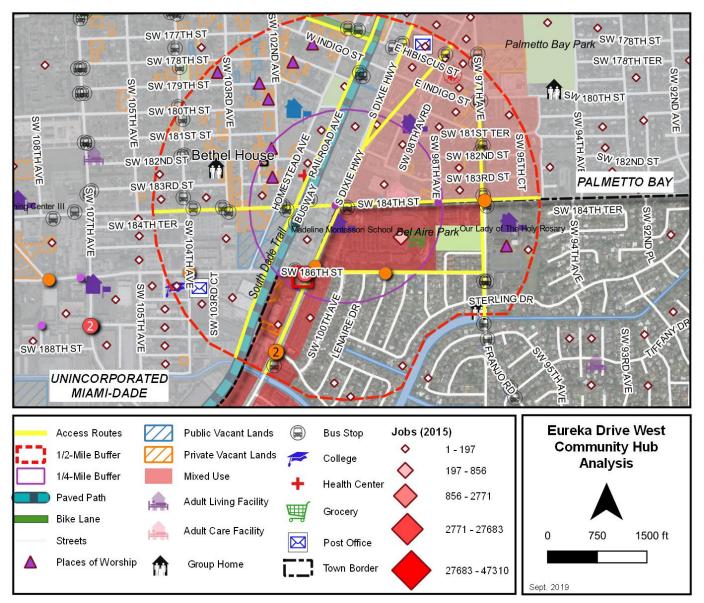


Figure 76: Eureka Drive West Community Hub Analysis



Marlin Road

The proposed Community Hub is recommended on U.S. 1/ South Dixie Highway, see Figure 77, south of Marlin Road which is currently serviced by Route 200, the Town Circulator. Additionally, the Transitway provides service for Routes 31, 35 and 38. The existing uses include retail, industrial, single-family and multi-family residential. Additionally, the area has been rezoned for Transit-Oriented Development by the Town of Cutler Bay and Miami-Dade County. The existing bus stop includes two benches, a trash receptacle and signage. Table 29 is an overview of the existing conditions and location information; Table 30 provide future planned improvements and recommendations.

Table 29: Marlin Road Location Data

HUB	INFO	Route		rship Daily)	Bus Type
Туре	Community	Route 31	11	14	Busway Local
Location	Marlin RD / US 1	Route 35	21	81	Local
Road Class	3/4&2	Route 38	6,3	89	Busway Max
Lanes	4/6	Route 200	15	57	Circulator
Speed Limit	45 / 30	Total		98	341
Median	Yes	Bike/Ped	Facilitie	es	Distance (Mi)
ROW	110 / 135 Feet	South Da	ide Trai	1	0.1
Roadway Width	65 / 110 Feet	Caribbean	Bike La	ne	1.1
Bus Stop ID	11921 E		AADT (A	Approx.)
Bus Stop ID	Not in Use	Marlin Ro	ł.		8,000
		U.S. 1			50,500

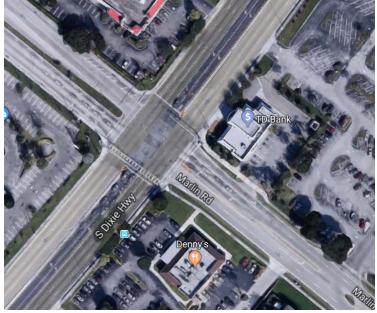


Figure 77: Marlin Community Hub Analysis



Table 30: Planned Improvements & Recommendations

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
BRT Station near Marlin Road	Shelter with Basic Amenities	Enhanced Landscaping
Rehabilitation of Existing Transitway Stations	Real-Time Information Display	Fill Sidewalk Gaps with ¼-mile
Resurfacing of U.S. 1 / S. Dixie Hwy.	Lending Library	Bicycle Light at U.S. 1 & Marlin Rd.
High-Emphasis Crosswalks at Marlin Rd & U.S. 1	USB Charge Port	Bike Box at U.S. 1 & Marlin Rd.
Pedestrian Signs at Marlin Rd. & U.S. 1	Box Wrap of Mechanical Equipment	Pedestrian Promenade along U.S. 1
Complete Streets Treatment to Marlin Rd. E of	Emergency Callbox	Extension of Bicycle Lanes W. of U.S. 1
U.S. 1	Bicycle Storage Locker	ADA Improvements
4' Bike Lanes	Bikeshare Station	Pedestrian Lighting
Traffic Calming	Package Pickup Kiosk	Move Existing Bus Stop West Side of U.S. 1
	Recycle Receptacle	closer to Marlin Road with Counter-Clockwise
	Carshare	Service
	Security Camera	
	EV Charge Station	
	Designated Waiting area for TNC's (Optional)	
	WiFi (Optional)	
	Bicycle Repair Station (Optional)	
	Information Kiosk (Optional)	

Approximate Cost Estimate for Recommended Amenities: \$104,430 (details in Appendix III)





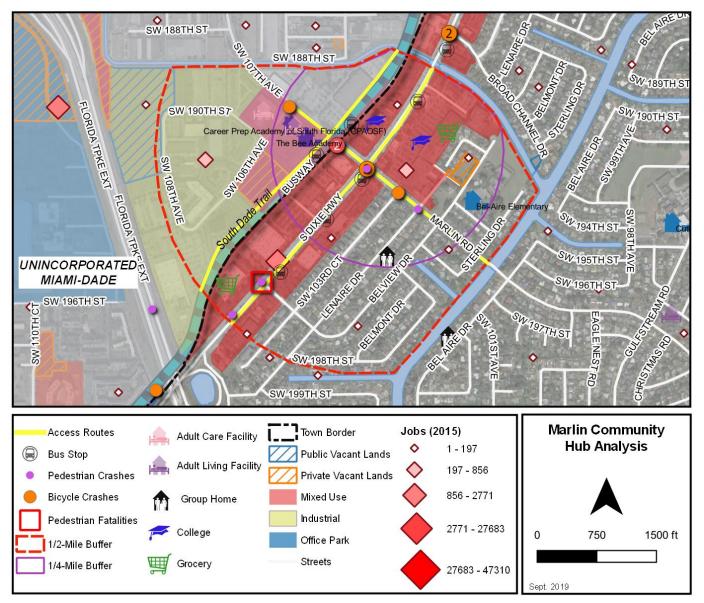


Figure 78: Marlin Community Hub Analysis



Miami Heights

The Community Hub is recommended on U.S. 1 south of SW 200th Avenue/Caribbean Boulevard, see Figure 79, and is currently serviced by Route 200, the Town Circulator. The proposed Hub is located less than ¼-mile from the existing Transitway Stations serviced by Routes 1, 31, 35, 38, 39, and 52. Existing land uses include the Town Center, multi-family residential and hotel. The area has been slated for density and Transit-Oriented Development. Recent improvements include enhanced pedestrian crossings and ADA improvements. Table 31 provides the existing conditions and location information; Table 32 provides future planned improvements and recommendations.

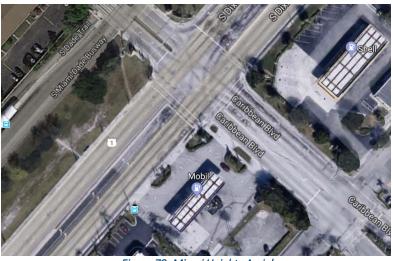


Figure 79: Miami Heights Aerial

Hu	b	Route	Ridership (Avg Mo.)	Bus Type	Bike/Ped Facilities	Distance (Miles)
Туре	Community	Route 1	293	Circulator	South Dade Trail	0.1
Location	200 / US 1	Route 31	1,114	Busway Local	Caribbean Bike Lane	0.3
Road Class	3/2	Route 35	2,181	Local	211th St. Bike Lane	0.7
Lanes	4/6	Route 38	6,389	Busway Max	Black Creek Trail	0.8
Speed Limit	30 / 45	Route 39	969	Express	Roberta Hunter Trail	0.9
Median	Yes	Route 52	1,296	Local	AADT	
ROW	112 / 154 Feet	Route 200	157	Circulator	U.S. 1	50,500
Roadway Width	80 / 105 Feet	Route 248	128	Circulator	SW 200 St.	11,006
Bus Stop ID	US#1CARN	TOTAL	1.	2527	Caribbean Blvd.	17,700
Bus Stop ID	Not in Use					

Table 31: Miami Heights Location Data



Table 32: Planned Improvements & Recommendations

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Park & Ride Lot	Shelter with Basic Amenities	Removal of Existing Billboard Sign
BRT Station near SW 200 St.	Real-Time Information Display	Enhanced Landscaping
Rehabilitation of Existing Transitway Stations	Lending Library	Fill Sidewalk Gaps with ¼-mile
Mixed-Use Development W. of Transitway	USB Charge Port	Pedestrian Promenade along U.S. 1
Addition of Lanes on SW 200 St. W. of U.S. 1	Box Wrap of Mechanical Equipment	Linear Park along Transitway Island
	Emergency Callbox	Pedestrian Lighting
	Bicycle Storage Locker	Refurbishment of South Miami Heights
	Pop-Up Retail	Monument Signs
	Bikeshare Station	Kiss & Ride Lot with Covered Walkway
	Recycle Receptacle	Bicycle Light at U.S. 1 & SW 200 St. (Optional)
	Package Pickup Kiosk	Bike Box at U.S. 1 & SW 200 St. (Optional)
	EV Charge Station	5' Bike Lanes on SW 200 St. (Optional)
	Carshare	
	Security Camera	
	Designated Waiting area for TNC's	
	(Optional)	
	WiFi (Optional)	
	Bicycle Repair Station (Optional)	
	Information Kiosk (Optional)	

Approximate Cost Estimate for Recommended Amenities: \$214,280 (details in Appendix III) Approximate Cost Estimate for Infrastructure Improvements: \$586,483 (details in Appendix III)

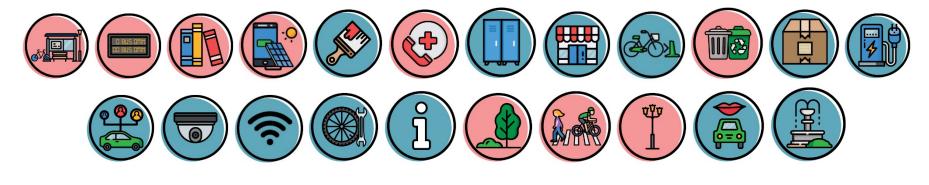






Figure 80: Proposed Street Section of Transitway & U.S. 1 / South Dixie Highway

Figure 80 provides an illustration of what U.S. 1 near SW 200th Street could look like, providing facilities for pedestrians, vehicles, shared mobility services and street furniture. Note: The proposed 9' bicycle lane, could be fitted to allow neighborhood electric vehicles or golf carts.



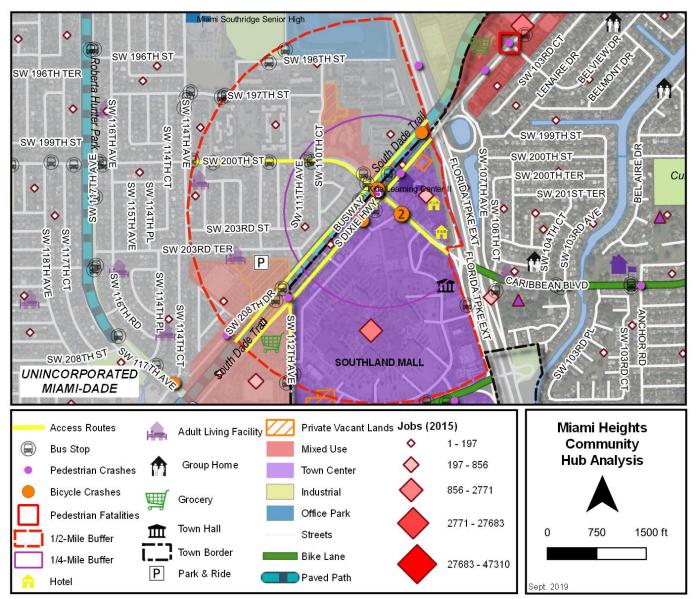


Figure 81: Miami Heights Community Hub Analysis



South Dade

The recommended Community Hub is to be located along SW 211th Street, near the South Dade Government Center and Southland Mall, see Figure 82, currently serviced by Routes 1, 31, 35, 39, 52, 137, and 200. The existing bus stop has a large standard Miami Dade County Transit shelter with seating, trash receptacle, signage and bus bay, in addition to bicycle lanes. The area is surrounded by multi-family residential, retail, entertainment, and institutional uses. Table 33 provides the existing conditions and location information; Table 34 includes future planned improvements and recommendations.

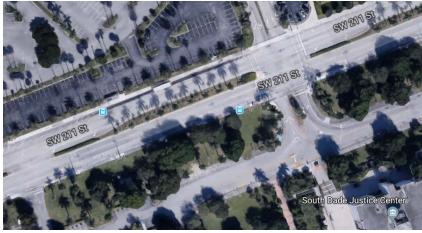


Figure 82: South Dade Community Hub Aerial

HUB I	NFO	Route	Ridership (Avg Daily)	Bus Type	Bike/Ped Facilities	Distance (Mi)
Туре	Community	Route 1	293	Circulator	211 th Street Bike Lane	0
Location	SW 211 St	Route 31	1,114	Busway Local	Caribbean Bike Lane	0.6
Road Class	3	Route 35	2,181	Local	216 th St Bike Lane	0.7
Lanes	4	Route 39	969	Express	Black Creek Trail	0.8
Speed Limit	35	Route 52	1,296	Local	Old Cutler Trail	1.3
Median	Yes	Route 137	1,653	Local	AADT	
ROW	130 FT	Route 200	157	Circulator	SW 211 St. 1	6,700
Roadway Width	105 FT	Route 248	128	Circulator		
Bus Stop ID	CTLRTERW (N)	TOTAL	7	791		
Bus Stop ID	CLTRTERE (S)					

Table 33: South Dade Location Data



Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements
Protected Bike Lanes on SW 211 St.	Upgrade Shelter with Basic Amenities	Pedestrian Lighting
Sidewalk Addition from Turnpike Access Rd. to	Real-Time Information Display	Enhanced Landscaping
Government Center Parking	Lending Library	Fill Sidewalk Gaps with ¼-mile
Greenway along C-100 Canal	USB Charge Port	ADA Improvements
	Box Wrap of Mechanical Equipment	Midblock Crossing with Inground Lighting along
	Emergency Callbox	SW 211 St.
	Bicycle Storage Locker	Enhanced Pedestrian Crossings at Intersections
	Bikeshare Station	Support for Protected Bike Lanes
	Recycle Receptacle	Pedestrian Signs
	Package Pickup Kiosk	Increased Sidewalk Widths to 10' with Street
	EV Charge Station	Furniture
	Carshare	Pedestrian Promenade Along Canal
	Security Camera	Public Plaza at Government Center
	WiFi (Optional)	Park & Ride (Optional)
	Information Kiosk (Optional)	Enhanced Pedestrian Crossings at Intersections
	Designated Waiting area for TNC's	Pedestrian Promenade Along Canal
	(Optional)	

Table 34: South Dade Recommendations

Approximate Cost Estimate for Recommended Amenities: \$186,920 (details in Appendix III)





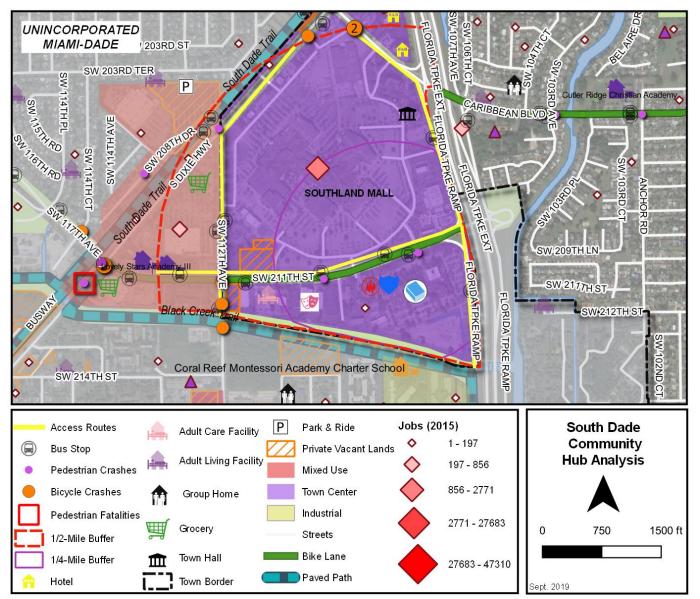


Figure 83: South Dade Community Hub Analysis



Regional Hubs

Regional Hubs are large scaled transit hubs, typically found in areas that have a mixture of uses, employment density, and high rates of transit usage. Regional Hubs are typically served by multiple transit lines and are areas that are active with pedestrian life. They are equipped with an array of amenities including parking garages, retail centers, public spaces, micro-mobility options and provide amenities for all types of transportation modes. The Regional Hub template is illustrated in Figure 84.



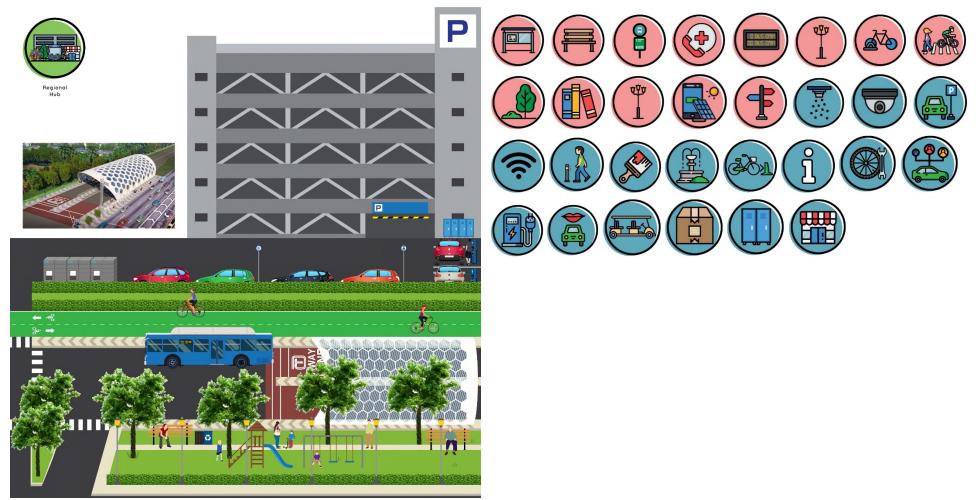


Figure 84: Regional Hub Template



Cutler Bay Regional Hub

The Regional Hub is recommended at the existing County Park & Ride facility at SW 112th Avenue and the Transitway (near Target), see Figure 85, where there are existing Transitway Stations being serviced by Routes 1, 31, 34, 35, 38, 39, 52 and 200. The existing facility is located near single-family and multi-family residential, industrial, retail, entertainment and Town Center developments. Existing transit stations are equipped with shade, seating, trash receptacle, signage, and exclusive bus lanes, and are adjacent to the South Dade Trail. Table 35 provides the existing conditions and location data; Table 36 is the evaluation data for the Cutler Bay Regional Hub.

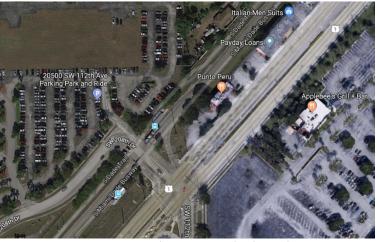


Figure 85: Cutler Bay Regional Hub Aerial

HUB	INFO	Route	Ridership (Avg Mo.)	Bus Type	Bike/Ped Facili	ties	Distance (Mi)
Туре	Regional	Route 1	293	Circulator	South Dade Tr	rail	0
Location	US 1 / 112 Ave	Route 31	1,114	Busway Local	Black Creek Tr	rail	0.4
Road Class	2/5&3	Route 34	2,020	Limited Stop	211th Street B Lane	like	0.4
Lanes	6/5	Route 35	2,181	Local	Roberta Hunter	Trail	0.7
Speed Limit	45 /	Route 38	6,389	Busway Max	Caribbean Bike	Lane	0.8
Median	Yes / No	Route 39	969	Express	216th St. Bike L	ane	0.8
ROW	137 / 118 Feet	Route 52	1,296	Local	AA	DT	
Roadway Width	109 / 62 Feet	Route 200	157	Circulator	U.S. 1	5	60,500
Bus Stop ID	BSWY12V3 (W)	Route 248	128	Circulator	SW 112 Ave.	4	1,000
Bus Stop ID	BSWY12V2 (E)	TOTAL	14	4547	Transitway		550

Table 35: Cutler Bay Regional Hub Location Data

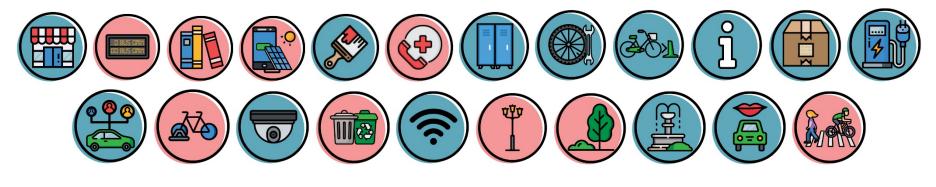


Table 36: Planned Improvements & Recommer

Planned Improvements	Recommended Amenities	Recommended Infrastructure Improvements	
BRT Station	Retail / Pop-up Retail	Pedestrian Lighting	
Rehabilitation of Existing Transitway Stations	Real-Time Information Display	Enhanced Landscaping	
Resurfacing of U.S. 1 / S. Dixie Hwy.	Lending Library	Fill Sidewalk Gaps with ¼-mile	
Pedestrian Improvements at U.S. 1 & SW 112	USB Charge Port	ADA Improvements	
Ave.	Box Wrap of Mechanical Equipment	Linear Park along Transitway Island	
ADA Improvements	Emergency Callbox	Pedestrian Promenade along U.S. 1	
Reconstruction of Raised Island	Bicycle Storage Locker	Reconfiguration of Park & Ride Lot Entrance	
Widening of SB Lanes on U.S. 1	Bicycle Repair Station	Kiss & Ride with covered walkway	
Addition of Dedicated Left Turn Lane from U.S. 1	Bikeshare Station	5' Bicycle Lanes on SW 112 Ave. (Optional)	
to SW 112 Ave.	Information Kiosk	Bicycle Light at U.S. 1 & SW 112 Ave. (Optional)	
Bus Layover Area	Package Pickup Kiosk	Bike Box at U.S. 1 & SW 112 Ave. (Optional)	
Kiss & Ride	EV Charge Station		
Bicycle Storage	Carshare		
	Bicycle Rack		
	Security Cameras		
	Recycle Receptacle		
	Designated Waiting area for TNC's		
	WiFi		

Approximate Cost Estimate for Recommended Amenities: \$153,540 (details in Appendix III)

Approximate Cost Estimate for Recommended Infrastructure Improvements (does not include parking garage): \$459,193 (details in Appendix III) Approximate Cost Estimate for Parking Garage: \$19,700 per space





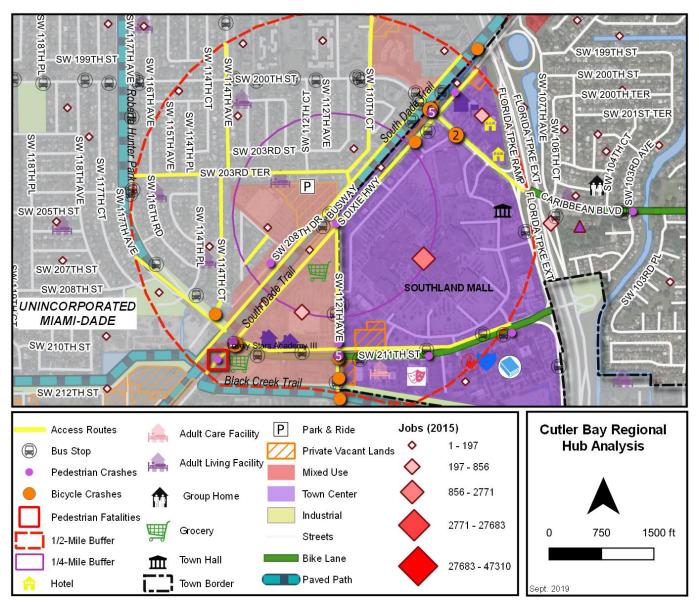


Figure 86: Cutler Bay Regional Hub Analysis



Prioritization

Prioritization of Mobility Hubs was determined through identification of criteria in which a measurement of that criteria could be performed for a number assignment. Table 37 provides the list of identified criteria and measurement used to rank each Mobility Hub.

CRITERIA	MEASURE
Number of Transit Routes	Number of Existing Routes
Future Transit Potential	Low (1), Medium (5), High (10)
Existing Ridership	Average Monthly Ridership
Accessibility by Walk	Sidewalk Network Completeness (1, 5, 10)
Accessibility by Bicycle	Bicycle Facility Completeness (0, 1, 5, 10)
Accessibility by Vehicle	Number of Park & Ride Spaces
Population	Existing Population within ½-Mile
Employment	Existing Jobs within ½-Mile
Redevelopment Potential	Vacant Parcels & Existing Development within ½- Mile – Low (1), Medium (5), High (10)
TOD Potential	Existing Land Use & Zoning with ½-Mile – Low (1), Medium (5), High (10)

Table 37: Criteria Used for Prioritization Ranking

Future transit potential was identified from previous recommended improvements or transit routes, in addition to potential routes identified within this plan, such as providing transit along Old Cutler Road, east of SW 85 Avenue. Existing ridership was identified through DTPW's May 2019 Ridership Technical Report. Accessibility by walking and cycling was review through existing facilities and connections for pedestrians and cyclists within a ½-mile radius. All identified Mobility Hubs have existing sidewalk connections, with the completeness measurement being determined by sidewalk connections within the ½-mile radius. A zero (0) was assigned to Mobility Hub locations that had no bicycle facilities connecting to the Mobility Hub, such as with the case of The Isles Neighborhood Hub, with all bicycle facilities located outside the ½-mile radius. Accessibility by vehicle was determined through existing park and ride lots and the number of spaces available, utilizing DTPW's May 2019 Ridership Technical Report.

2010 Census Data was used to determine tract level population data, it is important to note that some tracts overlapped within some areas and other areas the tract was outside the ½-mile boundary and therefore the whole number was used as there was no way to determine the exact number of people living within the ½-mile radius. Employment data was retrieved utilizing Census on the Map, which utilizes Longitudinal Employment Household Data (LEHD) from 2015 to determine the number of jobs within the ½-mile radius.

Redevelopment potential was reviewed through existing vacant parcels and parcels with high redevelopment potential, as is the case along U.S. 1 / South Dixie Highway which was undergone a rezoning in recent years to attract mixed use dense redevelopment. Finally, TOD Potential was reviewed through existing TOD zoning and land use within ½-Mile of identified Mobility Hubs. The final score card is shown in Table 38.



						5. 1 110/10/20								
Criteria	Measure	Lakes by the Bay	Pine Wood	Whispering Pines	Eureka Drive East	Cutler Ridge	The Isles	Community Health	Town Center	Eureka Drive West	Marlin	Miami Heights	South Dade	Cutler Bay Regional
Number of Transit Routes	Number of Existing Routes	2	2	1	0	2	2	2	2	6	4	8	8	9
Future Transit Potential	Low, Medium, High	1	1	1	1	1	1	1	1	10	10	10	10	10
Existing Ridership	Avg. Mo. Ridership	530	530	450	0	450	530	1669	157	11430	9841	12527	7791	14547
Accessibility by Walk	Sidewalk Network Completeness	5	5	10	1	5	10	5	10	5	1	1	1	1
Accessibility by Bicycle	Bicycle Facility Completeness	1	1	5	5	10	0	1	10	1	1	1	5	1
Accessibility by Vehicle	Park & Ride Supply	0	0	0	0	0	0	0	0	0	0	0	0	450
Population	Existing 1/2 Mile	5865	7946	9305	3936	4822	7074	8722	8583	8473	3605	9697	4546	15526
Employment	Existing 1/2 Mile	69	55	77	1266	68	88	665	812	2225	3522	1959	2121	2693
Redevelopment Potential	Low, Medium, High	5	1	1	5	5	10	5	10	10	10	10	10	10
TOD Potential	Low, Medium, High	5	1	1	1	1	10	5	10	10	10	10	10	10
TOT	AL	6483	8542	9851	5215	5364	7725	11075	9595	22170	17004	24223	14502	33257

Table 38: Prioritization Scoring

Low: 1 Point, Medium: 5 Points, High: 10 Points



Once the raw scores were determined, they were assigned a simplified score as shown in Table 39. The Town could utilize the ranking for funding and planning purposes.

No.	Mobility Hub	Туре	Raw Score	Score
1	Cutler Bay Regional	Regional	33257	33
2	Miami Heights	Community	24223	24
3	Eureka Drive West	Community	22170	22
4	Marlin	Community	17004	17
5	South Dade	Community	14502	15
6	Community Health	unity Health Neighborhood		11
7	Whispering Pines	Neighborhood	9851	10
8	Town Center	Community	9595	10
9	Pine Wood	Neighborhood	8542	9
10	The Isles	Neighborhood	7725	8
11	Lakes by the Bay	Neighborhood	6483	6
12	Cutler Ridge	Neighborhood	5364	5
13	Eureka Drive East	Neighborhood	5215	5

Table 39: Final Prioritization Ranking

IMPLEMENTATION

One of the most crucial components of any plan is the implementation process, some of the Mobility Hub improvements and recommendations can be provided in the near-term with a limited amount of investment, agency approval, and oversight. Others will take longer to implement, requiring investment, planning, policy changes, and private public partnerships. Additionally, as new technology becomes available, understanding this technology and how to incorporate it within the Mobility Hub will be an ongoing process.

However, the Town of Cutler bay in partnership with Miami-Dade County and the Florida Department of Transportation can take steps to phase improvements and amenities over time. Innovative planning and developing policies are ways to start now. The Federal Highway Administration provides a guide for such policies, *Public Policies for Pedestrian and Bicyclist Safety and Mobility: An Implementation Project of the Pedestrian and Bicyclists Safety and Mobility International Scan*, September 2010, is a good overview of policies cities can adopt to improve bicycle and pedestrian safety throughout their communities. Additionally, as people increasingly utilize on-demand mobility services, the need to create and plan for flexible curb spaces, drop-off / pick-up zones and places for people to use these services.

Public private partnership will be an important component of not only establishing Mobility Hubs, but also in providing the improvements and amenities needed for the success of the Mobility Hubs. The Town can work with developers to provide easements for mobility shared services, enhance pedestrian and transit areas, or

PAGE 131



be required to provide funding for transit. Additionally, new development can be required to complete connections to transit or sidewalks, integrate Hub services and amenities, designate parking for carshare vehicles, install EV charging stations, incorporate Transportation Demand Management (TDM) techniques and take additional measures to mitigate traffic impacts. Density bonuses, reduced parking requirements, and project fast-tracking are a few incentives the Town can provide for installing and maintaining Mobility Hub features and amenities.

The following list, provided by the SANDAG *Regional Mobility Hubs Implementation Strategy* can apply to the Town of Cutler Bay and partner agencies:

- Collaborate with DTPW to amend transit station design guidelines to support Mobility Hub implementation and provide flexibility for change as technology, travel behavior and patterns evolve over time.
- Allocate space for shared services such as on-demand shuttles and rideshare companies, and consider the flexible use of that space where necessary.
- Incorporate Mobility Hub elements in future joint development projects.
- Partner with shared mobility service providers to integrate shared mobility services into a platform for trip planning and payment.
- Amend the development review process to encourage developers to incorporate Mobility Hub features into their projects, see Appendix V.
- Adapt off-street parking requirements to better align with Mobility Hub investments.
- Implement flexible curb space to meet the needs of shared mobility services and the changing demands of users.
- Educate developers, employers, and other transportation stakeholders on the Mobility Hub concept and garner support.
- Account for a connected and autonomous future in local planning documents and policies.
- Communicate the value of prioritizing drop-off space over parking to private property owners and developers.
- Seek pilot projects that enhance transit and bring mobility options to commuters.
- Encourage businesses and/or developers to partner with government to test technologies and service concepts in real-world environments.

Additionally, the Town of Cutler Bay could look at adopting a Mobility Fee, a monetary exaction imposed on new development or redevelopment that generates personal travel demand above the current use of land to fund improvements related to all types of mobility including bicycle, pedestrian and transit. In August 2019, the City of Palm Beach Gardens was the first in the State of Florida to adopt such a program. A Mobility Fee would allow the Town to collect money from new development and/or redevelopment to fund multimodal transportation improvements identified through a Master Plan such as this one. The Mobility Fee would need to be adopted via Council action through the amendment of the Town's Comprehensive Plan.

Funding

Table 40 provides a list of various funding programs identified for the Town of Cutler Bay to assist with the funding of the *Mobility Hubs Plan* and proposed amenities and improvements. These funding sources include Federal, House and Urban Development (HUD), Environmental Protection Agency (EPA), State and Private programs for funding capital and non-capital programs. The table identifies the sponsor, program name, funding type, potential funding strategy, description of the funding program and a link for additional information.



			Та	ble 40: Funding Sources	
Sponsor	Program Name	Funding Type	Potential Funding Strategy	Description of Funding Program	Further Information
			FEDERAL C	APITAL FUNDING SOURCES	
USDOT	BUILD	Capital / Operations & Maintenance	Competitive	Better Utilizing Investments to Leverage Development (BUILD) Transportation Discretionary Grants. BUILD Transportation grants (previously known as Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grants Program), can support roads, bridges, transit, rail, ports or intermodal transportation. BUILD Transportation grants are for investments in surface transportation infrastructure and will be awarded on a competitive basis to projects that will have a significant local or regional impact that address public health and safety, promote regional connectivity, facilitate economic growth or competitiveness, deploy broadband as part of an eligible transportation project, or promote energy independence.	<u>https://www.transportation.go</u> <u>v/BUILDgrants/outreach</u>
USDOT	National Highway System FAST Act (NHS)	Capital / Operations & Maintenance / Planning & Research	Flexible	The FAST Act continues the National Highway Performance Program, which was established under MAP-21. The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS. The FAST Act continues all prior NHPP eligibilities, and adds four new eligible categories: Installation of vehicle-to-infrastructure communication equipment; Reconstruction, resurfacing, restoration, rehabilitation, or preservation of a bridge on a non-NHS Federal-aid	<u>https://www.fhwa.dot.gov/fast</u> act/factsheets/nhppfs.cfm



				highway (if Interstate System and NHS Bridge Condition provision requirements are satisfied); A project to reduce the risk of failure of critical NHS infrastructure (defined to mean a facility, the incapacity or failure of which would have a debilitating impact in certain specified areas); and, at a State's request, the U.S. DOT may use the State's Surface Transportation Block Grant (STBG) funding to pay the subsidy and administrative costs for Transportation Infrastructure Finance and Innovation Act (TIFIA) credit assistance for an eligible NHPP project or group of projects.	
FHWA	Surface Transportation Block Grant Program (STBG)	Capital / Operations & Maintenance / Planning & Research	Flexible	The Surface Transportation Program (STBG) provides flexible funding that may be used by States and localities for projects to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. Fundable components include construction, reconstruction, rehabilitation, resurfacing, restoration, and operational improvements for highways and bridges including construction or reconstruction necessary to accommodate other transportation modes. As funding for planning, these funds can be used for surface transportation planning activities, wetland mitigation, transit research and development, and environmental analysis. Other eligible projects under STBG include transit safety improvements and most transportation control measures.	<u>https://www.fhwa.dot.gov/fast</u> act/factsheets/stbgfs.cfm
FHWA	Recreational Trails Program (23 USC 206)	Capital / Operations & Maintenance / Programming	Trail projects or access to Trails	Develop and maintain recreational trails and trail- related facilities for both nonmotorized and motorized recreational trail uses. States are encouraged to enter into contracts and cooperative agreements with qualified youth conservation or service corps. Eligible projects include: Maintenance and restoration of existing trails; Development and rehabilitation of trailside and trailhead facilities and	http://www.fhwa.dot.gov/envi ronment/rectrails/



				trail linkages; Purchase and lease of trail construction and maintenance equipment; Construction of new trails (with restrictions for new trails on Federal lands); Acquisition of easements or property for trails; Assessment of trail conditions for accessibility and maintenance; Development and dissemination of publications and operation of educational programs to promote safety and environmental protection related to trails (including supporting non-law enforcement trail safety and trail use monitoring patrol programs, and providing trail-related training) (limited to 5 percent of a State's funds); State administrative costs related to this program (limited to 7 percent of a State's funds).	
FHWA	National Scenic Byways Program	Capital / Programming	Public Roads	Grants and technical assistance are provided to states and Indian tribes to implement projects on highways designated as National Scenic Byways, All-American Roads, America's Byways, and state scenic or Indian tribe scenic byways and to plan, design, and develop a state or Indian tribe scenic byway program.	https://www.fhwa.dot.gov/hep /scenic_byways/index.cfm
FHWA	Safe Routes to School (SRTS)	Capital / Planning & Research / Programming	Projects within a half mile radius of public school	The purpose of SRTS is to enable and encourage children, including those with disabilities, to walk and bicycle to school; To make bicycling and walking to school a safer and more appealing transportation alternative, thereby encouraging a healthy and active lifestyle from an early age; and to facilitate the planning, development, and implementation of projects and activities that will improve safety and reduce traffic, fuel consumption, and air pollution in the vicinity of schools.	http://www.srtsfl.org
FHWA	Highway Bridge Replacement and Rehabilitation (HBRRP)	Capital	Projects including bridges	Replace and rehabilitate deficient highway bridges and to seismically retrofit bridges located on any public road.	<u>http://www.fhwa.dot.gov/brid</u> ge/hbrrp.htm
FHWA	Highway Safety Improvement Program (HSIP)	Capital	Public Roads	The overall purpose of this program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the	<u>http://safety.fhwa.dot.gov/hsi</u> p/



				implementation of infrastructure-related highway safety improvements.	
FTA	Transportation Alternatives	Capital	Flexible	Eligible activities include construction, planning and design of on-road and off-road trail facilities for pedestrians, bicyclists and other non-motorized forms of transportation. For example, new sidewalks, bicycle infrastructure, pedestrian and bicycle signals, traffic calming techniques, lighting and other safety related infrastructure, ADA compliance projects.	https://www.fhwa.dot.gov/fast act/factsheets/transportational ternativesfs.cfm
FTA	Paul S. Sarbanes Transit in the Parks Discretionary Grant Program	Capital / Planning & Research	Access to Everglades trails	The purpose of the program is to enhance the protection of national parks and public lands and increase the enjoyment of those visiting the parks and public lands. Eligible project areas include any federally owned or managed park, refuge or recreational area open to the general public, including: National Parks, National Wildlife Refuges; Bureau of Land Management recreational areas; Bureau of Reclamation recreational areas; and National Forests. Eligible projects may also include the communities and land surrounding these federal lands.	https://www.transit.dot.gov/fu nding/grants/grant- programs/paul-s-sarbanes- transit-parks-program-5320
FTA	Major Capital Investments (New Starts & Small Starts)	Capital	Long Range Transportation Plan	The transit capital investment program provides capital assistance for three primary activities: New fixed guideway systems (New Starts program and Small Starts) New and replacement buses and facilities (Bus and Bus Related Facilities program), and Modernization of existing rail systems (Fixed Guideway Modernization program). The New Starts program provides funds for construction of new fixed guideway systems or extensions to existing fixed guideway systems. The Small Starts program provides funds to capital projects that either (a) meet the definition of a fixed guideway for at least 50 percent of the project length in the peak period or (b) are corridor-based bus projects with 10-minute peak/15- minute off-peak headways or better while operating at least 14 hours per weekday. The Federal assistance	https://www.transit.dot.gov/fu nding/grant-programs/capital- investments/capital- investment-grants-program



				provided or to be provided under Section 5309(e) must be less than \$75 million and the project must have a total capital cost of less than \$250 million, both in year of expenditure dollars.	
FTA	Bus and Bus Facilities Infrastructure Investment Program	Capital	BCT Priority Areas	The transit infrastructure investment program provides capital assistance for three primary activities: New and replacement buses and facilities (Bus and Bus Related Equipment and Facilities program). Modernization of existing rail systems (Fixed Guideway Modernization program). New fixed guideway systems (New Starts program and Small Starts).	https://www.transit.dot.gov/fu nding/grants/bus-bus-facilities- infrastructure-investment- program
FTA	New Freedom Program	Capital / Disability Programming	ADA Facilities	The New Freedom formula grant program aims to provide additional tools to overcome existing barriers facing Americans with disabilities seeking integration into the work force and full participation in society. Lack of adequate transportation is a primary barrier to work for individuals with disabilities. The 2000 Census showed that only 60 percent of people between the ages of 16 and 64 with disabilities are employed. The New Freedom formula grant program seeks to reduce barriers to transportation services and expand the transportation mobility options available to people with disabilities beyond the requirements of the Americans with Disabilities Act (ADA) of 1990.	https://www.transit.dot.gov/re gulations-and-guidance/fta- circulars/new-freedom- program-guidance-and- application-instructions
FTA	Integrated Mobility	Capital	Public Transportation	FTA's Integrated Mobility Innovation (IMI) Program funds projects that demonstrate innovative and effective practices, partnerships and technologies to enhance public transportation effectiveness, increase	<u>https://www.transit.dot.gov/l</u> <u>MI</u>



	Innovation (IMI) Program			efficiency, expand quality, promote safety and improve the traveler experience.	
FTA	Mobility on Demand (MOD) Sandbox Program	Technology /Partnerships	Public Transportation	Improve transportation efficiency by promoting agile, responsive, accessible and seamless multimodal service inclusive of transit through enabling technologies and innovative partnerships. Utilizing technological advances such as smart phones, information processing, and widespread data connectivity. New mobility concepts and solutions, from bike- and car-sharing systems to demand- responsive bus services.	<u>https://www.transit.dot.gov/research-innovation/mobility-demand-mod-sandbox-program</u>
	SMART Moves Projects		Demonstration Projects	The Miami-Dade TPO has indicated that a new funding cycle will open for mobility demonstration projects during the 2019-2020 fiscal year. Stay tuned!	http://www.miamidadetpo.org 2
			HUD CAP	ITAL FUNDING SOURCES	
HUD	CBDG Section 108	Capital / Programming	Project Bundles	Section 108 is the loan guarantee provision of the Community Development Block Grant (CDBG) program. Section 108 provides communities with a source of financing for economic development, housing rehabilitation, public facilities, and large-scale physical development projects. This makes it one of the most potent and important public investment tools that HUD offers to local governments. It allows them to transform a small portion of their CDBG funds into federally guaranteed loans large enough to pursue physical and economic revitalization projects that can renew entire neighborhoods.	<u>https://www.hudexchange.info</u> /programs/section-108/
			HUD NON-C	APITAL FUNDING SOURCES	



HUD /EPA	Sustainable Communities Regional Planning Grant	Planning & Research / Programming	Projects touching Palm Beach or Miami-Dade County	This year's Regional Planning Grant program encourages grantees to support regional planning efforts that integrate housing, land-use, economic and workforce development, transportation, and Capital developments in a manner that empowers regions to consider how all of these factors work together to bring economic competitiveness and revitalization to a community. The program places a priority on partnerships, including the collaboration of arts and culture, philanthropy, and innovative ideas to the regional planning process.	https://www.hud.gov/program offices/economic developme nt/sustainable communities r egional planning grants
HUD /EPA	Community Challenge Planning Grants	Planning & Research / Programming	Flexible	The program provides grants to enable communities in fostering reform and reducing barriers to achieving affordable, economically vital, and sustainable communities. Such efforts may include amending or replacing local master plans, zoning codes, and building codes, either on a jurisdiction-wide basis or in a specific neighborhood, district, corridor, or sector to promote mixed-use development, affordable housing, the reuse of older buildings and structures for new purposes, and similar activities with the goal of promoting sustainability at the local or neighborhood level. This Program also supports the development of affordable housing through the development and adoption of inclusionary zoning ordinances and other activities such as acquisition of land for affordable housing projects.	https://www.hud.gov/program _offices/economic_developme nt/HUD- DOT_Community_Challenge_G rants
HUD	Community Development Block Grant (CDBG) - Entitlement Communities Grant & State Administered	Programming	Flexible	The program provides annual grants on a formula basis to entitled cities and counties to develop viable urban communities by providing decent housing and a suitable living environment, and by expanding economic opportunities, principally for low- and moderate-income persons.	https://www.hud.gov/program _offices/comm_planning/com munitydevelopment/programs
HUD	Brownfields Economic Development Initiative (BEDI)	Planning & Research / Programming	Projects within or adjacent to Brownfield sites	The Brownfields Economic Development Initiative (BEDI) is a key competitive grant program that HUD administers to stimulate and promote economic and community development. BEDI is designed to assist	https://www.hudexchange.info /programs/bedi/



				cities with the redevelopment of abandoned, idled and underused industrial and commercial facilities where expansion and redevelopment is burdened by real or potential environmental contamination. BEDI grant funds are primarily targeted for use with a particular emphasis upon the redevelopment of brownfields sites in economic development projects and the increase of economic opportunities for low- and moderate-income persons as part of the creation or retention of businesses, jobs and increases in the local tax base.	
			EPA NON-C	APITAL FUNDING SOURCES	
USEPA	Brownfields Assessment Grant	Planning & Research / Operations & Maintenance	Projects within or adjacent to Brownfield sites	Assessment grants provide funding for a grant recipient to inventory, characterize, assess, and conduct planning and community involvement related to brownfields sites. An eligible entity may apply for up to \$200,000 to assess a site contaminated by hazardous substances, pollutants, or contaminants (including hazardous substances co-mingled with petroleum) and up to \$200,000 to address a site contaminated by petroleum.	<u>https://www.epa.gov/brownfie</u> <u>lds/types-brownfields-grant-</u> <u>funding</u>
USEPA	Brownfields Cleanup Grant	Operations & Maintenance/ Programming	Projects within or adjacent to Brownfield sites	Cleanup grants provide funding for a grant recipient to carry out cleanup activities at brownfield sites. An eligible entity may apply for up to \$200,000 per site.	https://www.epa.gov/cleanups /cleanup-grants-and-funding
USEPA	Brownfields Revolving Loan Fund Grants	Operations & Maintenance / Programming	Projects within or adjacent to Brownfield sites	Revolving Loan Fund (RLF) grants provide funding for a grant recipient to capitalize a revolving loan fund and to provide sub grants to carry out cleanup activities at brownfield sites.	https://www.epa.gov/sites/pro duction/files/2015- 09/documents/rlf_factsheet.p df
USEPA	Brownfields Area-Wide Planning Pilot Program	Planning & Research	Projects within or adjacent to Brownfield sites	EPA is piloting this area-wide planning approach to community brownfield challenges, which recognizes that revitalization of the area surrounding the brownfield site(s) is critical to the successful reuse of the property as assessment, cleanup, and redevelopment of an individual site. The area-wide planning approach will enhance EPA's core brownfields assistance programs by encouraging continued meaningful involvement in a locally-driven planning process that will result in a strategy for	https://www.epa.gov/sites/pro duction/files/2015- 09/documents/awp_sanford me.pdf



				making brownfields site assessment, cleanup and/or redevelopment decisions for the future.			
		OTHER FED	GOVERNMENT I	NSTITUTIONAL CAPITAL FUNDING SOURCES			
Dept of the Interior /National Park Service (DOI/NPS)	Land and Water Conservation Fund	Capital	Projects bordering Everglades	The State Side of the LWCF provides matching grants to States and local governments for the acquisition and development of public outdoor recreation areas and facilities. Grant funds can be dedicated toward planning, acquisition and development of facilities that provide recreational opportunities.	http://www.nps.gov/lwcf/		
OTHER FED GOVERNMENT INSTITUTIONIONAL NON-CAPITAL FUNDING SOURCES							
National Endowment for the Arts (NEA)	Access to Artistic Excellence, "Our Town" Program	Programming	Encouragement /Education Programming	Based on the availability of funding, the National Endowment for the Arts will provide a limited number of grants, ranging from \$25,000 to \$250,000, for creative placemaking projects that contribute toward the livability of communities and help transform them into lively, beautiful, and sustainable places with the arts at their core. Creative placemaking is when artists, arts organizations, and community development practitioners deliberately integrate arts and culture into community revitalization work - placing arts at the table with land-use, transportation, economic development, education, housing, infrastructure, and public safety strategies. The Arts Endowment plans to support a variety of diverse projects, across the country in urban and rural communities of all sizes. Projects may include planning, design, and arts engagement activities.	https://www.arts.gov/grants- organizations/our- town/introduction		
National Endowment for the	America's Historic Places Grants	Programming	Encouragement /Education Programming in	As part of the We the People initiative, NEFH seeks proposals for public programs that use one or more historic sites to address themes and issues central to	http://www.neh.gov/grants/gu idelines/historicplaces.html		



Humanities (NEFH)			close proximity to Historic sites	American history. Projects may interpret a single historic site, a series of sites, whole neighborhoods, communities or towns, or larger geographical regions. The place taken as a whole must be significant to American history and the project must convey its importance to visitors.				
STATE / FLORIDA CAPITAL FUNDING SOURCES								
FDOT	Resurfacing Program (3R)	Capital	Programmed District resurfacing project	The resurfacing program deals with improvements to the structural condition of existing pavements on the State Highway System (SHS), including the interstate and turnpike enterprise. This program provides for pavement resurfacing, rehabilitation, minor reconstruction, and pavement milling and recycling. Such projects are intended to preserve the structural integrity of highway pavements. Opportunities may exist for early project identification and coordination to leverage other funds for Complete Streets improvements.	http://www.fdot.gov/roadway/ ppmmanual/2012/volume1/ch ap25.pdf			
FDOT	Public Transit Service Development program	Capital / Programming	Transit /Municipal priority projects	This grant program is designed to provide start-up funding for new public transit projects that provide new or innovative techniques to improve system efficiencies, ridership or revenues.	https://fdotwww.blob.core.win dows.net/sitefinity/docs/defau lt- source/content/transit/docum ents/transitresourceguide.pdf? sfvrsn=a4a21cda_0			
FDOT	Intermodal Development program	Capital	Mobility Hub projects	This program provides funding for projects that promote the intermodal or multimodal movement of people and goods. These projects may include major capital investments in fixed guideway transportation systems; access to seaports or airports; and construction of intermodal, multimodal or other transportation terminals.	https://fdotwww.blob.core.win dows.net/sitefinity/docs/defau lt- source/content/transit/docum ents/transitresourceguide.pdf? sfvrsn=a4a21cda_0			
FDOT	Park & Ride Lot Program	Capital	Existing and Planned Park & Ride projects	This program supports the purchase or lease of land for the construction of park and ride facilities or the promotion of these facilities to increase their use for transit, carpools, and vanpools.	https://fdotwww.blob.core.win dows.net/sitefinity/docs/defau lt- source/content/transit/docum ents/transitresourceguide.pdf? sfvrsn=a4a21cda_0			



FDOT	Transit Corridor Program	Capital	Transit /Municipal priority projects	This program is designed to support projects that relieve congestion and improve capacity in identified transportation corridors by improving the people- carrying capacity of the system through the use of high-occupancy conveyances.	https://fdotwww.blob.core.win dows.net/sitefinity/docs/defau lt- source/content/transit/docum ents/transitresourceguide.pdf? sfvrsn=a4a21cda_0			
STATE / FLORIDA NON-CAPITAL FUNDING SOURCES								
FDOT	High Visibility Enforcement Grant	Programming	Enforcement Programming	High visibility enforcement funds are intended as a crash mitigation tool. These enforcement activities are designed to target unsafe behaviors of all road users, including motorists, pedestrians, and bicyclists. The funds may only be used for officer overtime hours spent conducting on-street enforcement operations.	<u>http://www.alerttodayflorida.c</u> om/hve.html			
PRIVATE FOUNDATION/ORGANIZATION CAPITAL FUNDING SOURCES								
Rails to Trails	Doppelt Family Trail Development Fund	Capital / Programming	Trail projects or access to Trails	The Doppelt Family Trail Development Fund supports organizations and local governments that are implementing projects to build and improve multi-use trails. Under the Doppelt Family Trail Development Fund, RTC will award approximately \$85,000 per year, distributed among several qualifying projects, through a competitive process.	https://www.railstotrails.org/o ur-work/doppelt-family-trail- development-fund/			
Bike Florida	Share the Road Challenge Grant	Capital / Programming	Encouragement /Education programming	Applicants must match at least 75 percent of the grant in cash. Up to 25 percent of the match may be in the form of in-kind services and supplies. The purpose of the Share The Road Challenge Grant is to fund a local level demonstration projects designed to facilitate cycling as a safe and convenient form of transportation that will produce measurable impacts and that can be duplicated in other communities. Projects may encompass education, infrastructure, public awareness, design or other innovative approaches.	<u>https://sharetheroad.org/chall</u> enge-grant/			
Transit Center	Major Grants	Capital / Programming	Mobility Hubs	TransitCenter awards grants to qualified organizations engaged in transit advocacy and applied research. Those awards are made through periodic competition among entities which TransitCenter invites to submit applications.	http://transitcenter.org/grants			



	PRIVATE FOUNDATION/ORGANIZATION NON-CAPITAL FUNDING SOURCES									
Conservation Fund	Kodak American Greenways Program	Programming	Encouragement /Education programming	The organization is interested in funding activities such as mapping, eco-logical assessments, surveying, conferences and design activities; developing brochures, interpretative displays, audio-visual productions or public opinion surveys; hiring consultants; incorporating land trusts; and/or building footbridges, planning bike paths or other creative projects.	http://www.rlch.org/funding/k odak-american-greenways- grants					
League of American Bicyclists	Woman Bike Grants	Programming	Women Encouragement /Education programming	One of the goals of the Women Bike program is to seed, support and spread the best campaigns and ideas that are getting more women on bikes.	http://www.bikeleague.org/co ntent/women-bike-funding					





Public Information Plan



Public Information Plan

Cutler Bay Mobility Hubs Plan



December 2018

Preface

Cutler Bay Mobility Hubs Plan

The purpose of this Public Involvement Plan (PIP) is to assist in providing information to and obtaining input from concerned citizens, agencies, private groups (residential/business), and governmental entities.

The overall goal of this plan is to help ensure that the study reflects the values and needs of the communities it is designed to benefit.

A schedule of events and a list of documentation exhibiting compliance with these procedures are included.

The Cutler Bay Mobility Hubs Public Information Plan outlines the specific activities that the Town of Cutler Bay will undertake to provide timely and accurate information to stakeholders throughout the project.

POINTS OF CONTACT

Cutler Bay Mobility Hubs Plan

Project Manager:

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Consultant Project Manager:

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Consultant Deputy Project Manager:

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TABLE OF CONTENTS

Cutler Bay Mobility Hubs Plan

Preface	ii
Points of Contact	iii
Project Overview	1
Public Information Principles	2
Statement and Core Values Integration in 6-Step Process Implementation	
Public Information Approach	3
Clarifying Project Goals Key Milestones and Activities	
Public Information Tools	
Public Information Schedule	4

PROJECT OVERVIEW

Cutler Bay Mobility Hubs Plan

The Town of Cutler Bay was recently awarded a Miami-Dade Transportation Planning Organization (TPO) SMART Mobility grant. The Town's consultant, MARLIN Engineering, Inc. will provide the community with a comprehensive system of transit mobility hubs connecting to the South Dade Transitway and Cutler Bay Town Center.

The Plan will focus on populations and jobs within the entire Town with an overall goal of improving connectivity, mobility and safety for pedestrians, bicyclists, and transit users by identifying locations for neighborhood, community and commercial level mobility hubs along the Town's roadway network. Once locations have been identified, the appropriate scope of transportation infrastructure and amenities to facilitate usage of the hubs will be recommended through conceptual design and visualizations. The Plan will include a sketch planning assessment of the Town's existing circulator and bus system and proposed recommendations to improve the Town's overall transit performance and connectivity.

The Plan also seeks innovative ways to enhance the Town's recently constructed complete streets projects along Caribbean Boulevard and Old Cutler Road. The Plan will also build upon recommendations provided in the Town's Transportation, Bicycle/Pedestrian and Complete Streets Master Plans, Townwide Traffic Calming Plan and Adopted Land Use Regulations.

Finally, the Plan will also take into account best practices provided in the TPO's recently completed First Mile/Last Mile Options for High-Trip Generator Employers Study and the Protected Bike Lanes Demonstration Plan.

PUBLIC INFORMATION PRINCIPLES

Cutler Bay Mobility Hubs Plan

Statement and Core Values

Public Information plays a critical role in supporting the decision-making core value. Informing the public about upcoming decisions allows stakeholders to be involved in decision making in a meaningful way. Additionally, effective public information initiatives are critical for informing impacted stakeholders in advance regarding construction and maintenance activities.

Integration in the 6-Step Process

The Cutler Bay Mobility Hubs Plan will integrate a 6-Step Process, which includes the following steps:

- Define Desired Outcomes and Actions
- Endorse the Process
- Establish Criteria
- Develop Alternatives or Options
- Evaluate, Select, and Refine Alternatives or Options
- Finalize Documentation and Evaluation Process

This Public Information Plan supports the 6-Step Process by ensuring that project stakeholders and the public are adequately informed in advance to be engaged at each step in an open and meaningful way.

Implementation

Effective public information supports effective implementation of decisions based off integration of the 6-step process because it provides easy-to-understand information to stakeholders in advance so they can make informed decisions. The Town of Cutler Bay firmly believes that it is imperative to understand what the community wants and what is needed.

PUBLIC INFORMATION APPROACH

Cutler Bay Mobility Hubs Plan

MARLIN will work with the community to determine the vision, goals, objectives and needs for the Cutler Bay Mobility Hubs Plan.

Clarifying Project Goals

The goal of this project is to improve connectivity, mobility and safety for pedestrians, bicyclists and transit users through the identification of mobility hubs along the Town's roadway network. The Study team will achieve this goal via 5 key tasks which include:

- 1. Background Information of Existing Conditions
- 2. Public Involvement Plan/Meetings
- 3. Data Collection
- 4. Conceptual Design
- 5. Recommendations/Final Report

Key Milestones and Activities

A kickoff meeting which included a general overview of the project, scope and tasks took place on November 26, 2018.

Project Management Teleconferences will include a total of six (6), 30-minutes teleconferences which will be used to update and collaborate with the project manager and consultant.

Two (2) Town Commission meetings will take place to provide findings and recommendations to the Town Council.

Two (2) public involvement meetings will take place to include outreach and communication efforts to seek input from the community.

Three (3) Study Advisory Committee (SAC) meetings will take place. The Town of Cutler Bay shall identify stakeholders and participants which will include representatives from the Florida Department of Transportation (FDOT) District Six (6), the Miami Dade Department of Transportation Public Works (DTPW), the Miami Dade Transportation Planning Organization (TPO), Southland Mall and the Bicycle Pedestrian Advisory Committee (BPAC).

The SAC will provide valuable feedback through review of materials on all project deliverables and approval/endorsement of the final results and recommendations for this study.

The Cutler Bay Mobility Hubs Plan is scheduled for completion by October 16, 2019.

Public Information Tools

Tools may include:

- News releases
- Calendar items
- Web site
- Newsletters
- Online media Facebook, Twitter, Instagram, YouTube

PUBLIC INFORMATION SCHEDULE

Cutler Bay Mobility Hubs Plan

The schedule is as follows:

- Project Management Teleconferences
 - o December 20, 2018
 - o February 28, 2019
 - o April 25, 2019
 - o June 27, 2019
 - o August 20, 2019
 - o October 7, 2019
- Kickoff Meeting and Ongoing Coordination with the Miami-Dade TPO, DTPW and FDOT
 - Kickoff Meeting November 26, 2018
- Town Commission Meetings
 - o March 20, 2019
 - o October 2019
- Public Involvement Meetings
 - o April 30, 2019
 - o September 23, 2019
- Study Advisory Committee (SAC)
 - o February 6, 2019
 - o May 22, 2019
 - o August 28, 2019

PUBLIC INFORMATION SCHEDULE

Town of Cutler Bay Mobility Hub Plan

TASKS AND SUBTASKS	November '18	December '18	January '19	February '19	March '19	April '19	May '19	June '19	July '19	August '19	September '19	October '19
Task 1. Background Information/Existing Conditions									-	-		
a. Review relevant Multi-modal transportation planning studies												
b. Obtain and assess Existing / Future Land Use and Zoning and ROW												
c. Obtain MDDTPW, Town Circulator Stop and Ridership Data and Files												
Task 2. Public Involvment and Coordinatio												
a. Project Management Teleconferences (6, 30 Minutes)												
b. Coordination with Public, TPO, MD DTPW												
c. Town Commission Meetings (2)												
d. Community Meetings (2)												
e. Study Advisory Group (3 meetings)												
Task 3. Data Collection and Transit Hub Assessment	1 i i i											
a. Interview Town Circulator Drivers/Operator				: : :								
b. Ride Town Circulator Routes and Use Speedtracker for Speed/Delay												
and Rider Survey												
c. Interview Metrobus Riders at transfer points and at Cutler Bay												
Transitway Stations												
d. Analysis of MIOVision results												
e. GIS Analysis of ridership and route demographics												
f. Development of alternative system routes and schedules												
g. Sketch Planning Stop/Hub Utilization Assessment												
h. Capital, D&M Cost Analysis (3 Schedules)												
Task 4. Mobility Hub siting and Conceptual Design												
a. Hub Siting Analysis up to 12 locations												
b. Development of Neighborhood, Community and Central Hub												
c. Review of Right of Way, Adjacent Land Use and Ped/Bike Access	····	·										
d. Assessment of permitting requirements e. Cost Estimates 12 locations												
Task 5. Documentation												
a. Recommendations: Prioritization												
b. Potential Funding												
 Powerpoint presentations for Commission Meetings Final Report 												



Questionnaire & Survey



Bus Operator Questionnaire

1. How long have you been a bus operator for this City? Overall?

2. User/Riders

- a. What is the average age group of your rider?
- b. Are riders more male/female/even mixture of both?
- c. What is the average demographic of your rider? (Black/White/Asian/Hispanic/Even Mix)
- d. Do many persons with disabilities ride the bus?
- e. What is the primary purpose of your average rider? (Work/School/Errands/Joyride)
- f. How do you track ridership?
- g. Do they carry a bicycle, walk or park and ride?

3. Bus Stops/Route

- a. Which stop(s) has the most transfer activity?
- b. Where do most riders begin and end their trip?
- c. What stops do you believe should be eliminated? Why?
- d. What stops do you believe should be added? Why?
- e. What changes would you like to see on your route?

4. Service

- a. What changed could be made to get more riders?
- b. How can we improve the riders experience during the transit ride?
- c. How can we improve the riders experience during the wait for a bus?
- d. Do the hours of operation meet the need of the riders?
- e. Is ridership higher during the weekend, weekday or special events?

5. Delays

- a. Where do your delays occur?
- b. What time(s) are they occurring at?
- c. How can your travel delay be reduced?

6. Additional Feedback:



Bus Operator Responses



- 1. How long have you been a bus operator for this City? Overall? (31 YEARS)
- 2. User/Riders
 - a. What is the average age group of your rider? (60 Years Old)
 - b. Are riders more male/female/even mixture of both? (FEMALES)
 - c. What is the average demographic of your rider? (Black/White/Asian/Hispanic/Even Mix) (HISPANIC)
 - d. Do many persons with disabilities ride the bus? (AVERAGE 6 WHELLCHAIR PASSENGER PER DAY)
 - e. What is the primary purpose of your average rider? (Work/School/Errands/Joyride) (ERRANDS)
 - f. How do you track ridership? (FAREBOX)
 - g. Do they carry a bicycle, walk or park and ride? (ABOUT 3 PER DAY WITH BICYCLE, THE REST WALK)
- 3. Bus Stops/Route
 - a. Which stop(s) has the most transfer activity? (82 AVE AND 210 STREET, 85 AVENUE AND 212 STREET AND 87 AVE AND 198 STREET.
 - b. Where do most riders begin and end their trip? BUS STOPS LISTED ABOVE ANF ENDING AT 184 STREET AND US1 AND MARLIN ROAD AND US1.
 - c. What stops do you believe should be eliminated? Why? NONE
 - d. What stops do you believe should be added? Why? NONE
 - e. What changes would you like to see on your route? ADDITIONAL BUS IS NEEDED IN ORDER TO BE ABLE TO BE ON TIME AND ACCOMMODATE THE PASSENGER LOADS. IDEALLY A COUNTER CLCOK CIRCULATOR TO MINIMIZE TRAVEL TIME FOR PASSENGERS. OFTERN TIMES I HAVE TO LEAVE A PASSNEGER ON A WHEEL CHAIR BECAUSE I ALREADY HAVE TWO WHEELCHAIR PATRONS ONBOARD.
- 4. Service
 - a. What changed could be made to get more riders? SUGGESTION PROVIDED ABOVE. A COUNTER CLOCKWISE TO COMPLETMENT THE EXISTING CLOCKWISE SERVICE.
 - b. How can we improve the riders experience during the transit ride? MORE FREQUENT SERVICE, INCREASE HEADWAY FROM EXISTING 1 HOUR TO 30 MINUTES.
 - c. How can we improve the riders experience during the wait for a bus? MORE BUS SHELTERS AND BENCHES.
 - d. Do the hours of operation meet the need of the riders? WEEKDAYS YES. WEEKEND NO.
 - e. Is ridership higher during the weekend, weekday or special events? WEEKDAYS
- 5. Delays
 - a. Where do your delays occur? THE LACK OF RECOVERY TIME CAUSES ANY UNFORSEEING TRAFFIC SITUATION OR WHEELCHAIR PASSENGER LOAD A CHALLENGE TO KEEP THE BUS ON TIME. I ONLY GET 7 MINUTES OF RECOVERY TIME PER TRIP.
 - b. What time(s) are they occurring at? ANY TIME OF THE DAY.
 - How can your travel delay be reduced? BY INCREASING THE RECOVERY TIME FROM 7 MINUTES TO 15 MINUTES TO ACCOMMODATE ANY UNFORSEEING TRAFFIC SITUATIONS OR PASSENGER LOADS.
- 6. Additional Feedback:

PASSENGERS ARE CONSTANLTY REQUESTING A COUNTERCLOCK SERVICE SO THAT THEY DO NOT HAVE TO SPEND UP TO 45 MINUTES ON THE BUS WHEN THEY ONLY NEED TO RIDE FOR 8 MINUTES IF A COUINTERCLOCK SERVICE WAS PROVIDED.

- 1. How long have you been a bus operator for this City? Overall? /390.
- 2. User/Riders
 - 50-80 a. What is the average age group of your rider?
 - b. Are riders more male/female/even mixture of both? CVEN MIXTURE
 - c. What is the average demographic of your rider? 1) ISPANIC (Black/White/Asian/Hispanic/Even Mix)
 - d. Do many persons with disabilities ride the bus? ABOUT 6-7 PEORE
 - e. What is the primary purpose of your average rider? $\omega_0 \mathcal{RK}$, FRRANDS (Work/School/Errands/Jovride)
 - f. How do you track ridership? 194 countino
 - g. Do they carry a bicycle, walk or park and ride? のにててに、 wALK
- 3. Bus Stops/Route
 - a. Which stop(s) has the most transfer activity? 112 AUE & 211 S7.
 - b. Where do most riders begin and end their trip? 210 57 \$ 82 PUE
 - c. What stops do you believe should be eliminated? Why? mon/F
 - d. What stops do you believe should be added? Why? いいのた
 - e. What changes would you like to see on your route? MORE RECOVERY
 - TIME

- 4. Service
 - a. What changed could be made to get more riders? NURE FREQUENT BUSES
 - b. How can we improve the riders experience during the transit ride? AURE FREQUENT AUSUS
 c. How can we improve the riders experience during the wait for a bus? INVE
 d. Do the hours of operation meet the need of the riders? TES

 - e. Is ridership higher during the weekend, weekday or special events?
- I ONLY DO THIS NOUTE ON WEEKENDS, SATURDAY VERY 5. Delays BUSY
- - a. Where do your delays occur? AFTUTSISV 112 NUSS 211 ST AND 184 ST2USI
 - b. What time(s) are they occurring at? Fron 11:00 AA 70 3:00 PA
 - c. How can your travel delay be reduced? MANTE TONE ON SCIAFOULS
- 6. Additional Feedback:

Survey Questions

- 1. What is your residence zip code?
- 2. How many times per week do you typically ride the bus?
 - a. Everyday
 - b. A few times per week
 - c. A few times per month
 - d. Weekends
 - e. Sometimes
 - f. Other_____
- 3. What time do you begin and end your trip?

4. What route(s) do you typically ride?

- a. Route 1
- b. Route 31
- c. Route 34
- d. Route 35
- e. Route 38
- f. Route 39
- g. Route 52
- h. Route 137
- i. Route 200
- j. Route 287
- k. Other_____

5. Which bus stop do you begin your trip?

- a. Southland Mall
- b. SW 112 Ave Transitway
- c. SW 200 Ave Transitway
- d. Marlin Road Transitway



- e. SW 184 Transitway
- f. SW 184 / US 1
- g. Publix @ Old Cutler Road
- h. SW 190 St / SW 87 Ave
- i. SW 210 St / SW 82 Ave
- j. SW 212 St / SW 85 Ave
- k. Other_____

6. Where do you end your trip?

- a. Southland Mall
- b. SW 112 Ave Transitway
- c. SW 200 Ave Transitway
- d. Marlin Road Transitway
- e. SW 184 Transitway
- f. SW 184 / US 1
- g. Publix @ Old Cutler Road
- h. SW 190 St / SW 87 Ave
- i. SW 210 St / SW 82 Ave
- j. SW 212 St / SW 85 Ave
- k. Other_____

7. How do you get to the bus stop?

- a. Walk
- b. Bike
- c. Park and Ride
- d. Uber/Lyft or Similar
- e. Drop Off
- f. Other_____
- 8. Do you transfer?

- a. Yes
- b. No
- 9. If yes, how many times and where?

10. What is the primary purpose of your ride?

- a. Connect to/from Work
- b. Connect to/from School
- c. Connect to/from Commercial Centers
- d. Connect to/from Appointment
- e. Errands
- f. Joyride
- g. Other_____

11. Do you use the Miami Dade Transit Tracker App for Realtime tracking or planning your route?

- a. Yes
- b. No
- c. No I did not know about it
- d. Sometimes

12. How satisfied are you with the service and reliability of the Metrobus?

- a. 1 Very Satisfied
- b. 2 Satisfied
- c. 3 Neither Satisfied nor Dissatisfied
- d. 4 Dissatisfied
- e. 5 Very Dissatisfied

13. What upgrades could improve your bus stop experience? (choose as many as you like)

- a. Lighting
- b. Pedestrian Access to Bus Stop
- c. Wider Sidewalks



- d. Bicycle Access/Bicycle Lane
- e. Security Cameras
- f. Police Call Box
- g. Shade
- h. Landscaping
- i. Seating
- j. Trash Receptacles
- k. Bicycle Parking
- I. Bicycle Storage
- m. Maintenance of Bus Stops
- n. Bus Information Display
- o. Traffic Calming Near Bus Stop
- p. Other: _____

14. What would improve your commute?

- a. Bicycle Repair Facilities
- b. Bicycle Share Stations
- c. Electric Bike/Scooter Share
- d. Car Share
- e. Passenger Loading Zone
- f. Electric Vehicle Charging Stations
- g. Micro Transit (Golf Carts, Freebie, etc)
- h. Wayfinding/Signage
- i. WI-FI Service on Bus
- j. Retail
- k. Food Truck
- I. Public Space/Plaza
- m. Public Art
- n. Public Restroom
- o. Mobile Ticketing
- p. Other:_____

15. Additional Feedback:

APPENDIX

Survey Responses



	What is your	How many times per week do you typically	What time do you begin your	What time do you end your	
Timestamp	residence zip code?	ride the transit?	trip? (Leave your Home)	trip? (Arrive to Destination)	What route(s) do you typically ride?
2019/02/26 8:03:03 AM AST	33157	Everyday	6:00	7:00	Route 34 Express;train
2013/02/20 0.03.03 AW AST	55157	Liveryddy	0.00	7.00	
2019/02/26 8:08:33 AM AST	33189	Everyday	7:00	8:00	Route 39 Express
2019/02/26 8:13:41 AM AST	33033	Everyday	7:00	8:00	Route 34 Express;Route 39 Express
2019/02/26 8:18:05 AM AST	33177	Everyday	7:15	8:45	Route 34 Express;Route 39 Express
2019/02/26 8:24:43 AM AST	33189	Everyday	7:15	7:45	Route 34 Express
2010/02/20 0.21.40 ANA ACT	22100	Free modern	7.20	0.00	Deute 24 Europea
2019/02/26 8:31:48 AM AST 2019/02/26 8:38:26 AM AST	33190 33034	Everyday	7:30	8:00 7:30	Route 34 Express Route 34 Express;Route 35;344
· ·		Everyday	7:30		
2019/02/26 8:42:24 AM AST	33189 33032	Everyday	7:30	8:15 8:30	Route 34 Express
2019/02/26 8:43:29 AM AST	33032	Everyday	7:00	8:30	Route 34 Express
2019/02/26 8:48:31 AM AST	33032	4 to 5 times	7:00	8.30	Route 34 Express
2019/02/26 8:49:55 AM AST	33189	Everyday	7:40	8:30	Route 34 Express
2019/02/26 8:55:13 AM AST	33189	Everyday	7:50	8:50	Route 34 Express;Route 39 Express
2019/02/26 8:57:36 AM AST	33032	Weekdays	7:30	9:00	Route 39 Express
2010/02/26 0.50.02 ANA ACT	22100		7.45	0.00	Deute 24 European Deute 20 European
2019/02/26 8:59:02 AM AST	33190 33022	A few times per week	7:45	9:00 9:00	Route 34 Express;Route 39 Express
2019/02/26 9:07:49 AM AST		Everyday			Route 39 Express
2019/02/26 9:59:08 AM AST	33189	Every Weekday (Monday through Friday)	8:30	9:40	Route 200 Cutler Bay Circulator
2019/02/26 10:02:37 AM AST	33189	Everyday	8:45	9:45	Route 31 Busway Local;Route 35;Route 287 Saga Bay Max
2019/02/26 10:02:42 AM AST	33190	Everyday	9:00	10:15	Route 200 Cutler Bay Circulator
2019/02/26 11:42:06 AM AST	33190	Everyday	9:00	11:00	Route 200 Cutler Bay Circulator
					Route 31 Busway Local;Route 38 Busway Max;Route 200
2019/02/26 11:45:22 AM AST	33189	A few times per week	9:30	10:30	Cutler Bay Circulator;Route 287 Saga Bay Max
2019/02/26 11:50:28 AM AST	33157	Everyday	9:00	10:00	Route 200 Cutler Bay Circulator
2019/02/26 11:58:19 AM AST	33189	Everyday	9:00	10:00	Route 200 Cutler Bay Circulator
2019/02/26 12:05:00 PM AST	22134	A few times per month	10:30	11:00	Route 200 Cutler Bay Circulator
, , , , , , , , , , , , , , , , , ,			10.00	11.00	
2019/02/26 12:15:07 PM AST	33190	A few times per month	10:00	10:30	Route 200 Cutler Bay Circulator

2019/02/26 12:25:16 PM AST	33189	Everyday	11:00	12:00	Route 200 Cutler Bay Circulator
					Route 52;Route 200 Cutler Bay Circulator;Route 287 Saga Bay
2019/02/26 12:31:46 PM AST	33189	A few times per week	8:11	8:11	Max
2019/02/26 12:57:56 PM AST	33157	A few times per week	11:00	0:00	Route 200 Cutler Bay Circulator
2019/02/26 1:09:23 PM AST	33189	Everyday	0:00	1:00	Route 200 Cutler Bay Circulator
2019/02/26 1:25:52 PM AST	33189	A few times per week	0:30	1:15	Route 200 Cutler Bay Circulator
2019/02/26 2:06:06 PM AST	33157	Everyday	8:00	9:30	35 to 31 or 38
2019/02/26 2:06:18 PM AST	33157	Everyday	8:00	9:30	35 to 31 or 38
2019/02/26 2:10:30 PM AST	33189	Everyday	9:00	14:00	Route 38 Busway Max;77, metro rail
2019/02/26 2:33:19 PM AST	33157	A few times per week	12:00	13:30	Route 38 Busway Max
2010/02/26 2·24·24 DNA AST	33176	A fow times per week	1:30	2:15	Route 52
2019/02/26 2:34:34 PM AST	33176	A few times per week	1:30	2:15	Route 52
2019/03/04 7:00:14 PM AST	33032	A few times per month	7:00	8:00	Route 38 Busway Max;Metrorail
2019/03/04 7:12:26 PM AST	33157	A few times per week	5:30	7:30	Route 38 Busway Max
2010/02/04 7:45:22 DN4 AST	33189	Even (Meekdey (Mendey through Friday)	6:30	8:00	Motrorail
2019/03/04 7:45:32 PM AST	33189	Every Weekday (Monday through Friday)	6.30	8.00	Metrorail
2019/03/04 7:55:42 PM AST	33134	Every Weekday (Monday through Friday)	10:00	10:50	Metrorail;Metromover
	00101			20.00	Cutler Bay Circulator;Route 287 Saga Bay Max;Metrorail;Route
2019/03/04 7:56:05 PM AST	33190	M-F and Saturday	5:30	19:30	73
		· ·			
2019/03/04 8:06:11 PM AST	33157	Everyday	7:00	21:00	Route 31 Busway Local;Route 38 Busway Max

2019/03/04 8:54:49 PM AST	33157	Every Weekday (Monday through Friday)	6:00	7:05	Route 39 Express;Metrorail
	00107		0.00	7.05	
2019/03/04 9:37:26 PM AST	33189	Every Weekday (Monday through Friday)	6:20	8:00	Metrorail;Metromover
	55105		0.20	0.00	
2019/03/04 10:19:38 PM AST	33031	A few times per month	7:30	9:00	Route 34 Express
2019/03/04 11:36:05 PM AST	33189	Every Weekday (Monday through Friday)	7:25	17:30	Route 34 Express;Route 39 Express
2019/03/05 1:25:51 AM AST	33190	Every Weekday (Monday through Friday)	6:30	9:00	Route 1;Route 31 Busway Local;Route 34 Express;Route 287 Saga Bay Max
2019/03/05 7:51:12 AM AST	33189	Everyday	17:00	18:00	Route 34 Express;Route 38 Busway Max;Route 39 Express
2019/03/05 8:03:02 AM AST	33157	Every Weekday (Monday through Friday)	6:45	7:45	Route 34 Express
2019/03/05 9:29:14 AM AST	33189	A few times per month	7:00	7:45	Route 287 Saga Bay Max
2019/03/05 9:30:04 AM AST	33157	once a year	10:00	11:00	Metrorail
2019/03/05 9:34:27 AM AST	33189	Mainly when I have to go downtown	6:30	7:30	Route 38 Busway Max;Metrorail
2019/03/05 9:58:44 AM AST	33157	A few times per week	8:40	9:45	Route 35

2019/03/05 10:01:25 AM AST	33157	Every Weekday (Monday through Friday)	7:25	8:30	Route 34 Express;Route 39 Express;Metrorail
2019/03/05 10:10:28 AM AST	33189	A few times per month	8:00	9:00	Metrorail
2019/03/05 10:39:40 AM AST	33190	Every Weekday (Monday through Friday)	8:00	18:30	Route 34 Express;Route 39 Express
2019/03/05 10:54:44 AM AST	33189	A few times per week	7:00	17:00	Route 1;Metrorail;Metromover
2019/03/05 11:00:12 AM AST	33189	A few times per month	10:00	4:00	Route 287 Saga Bay Max;Metrorail
2019/03/05 11:03:47 AM AST	33189	A few times per month	6:00	6:00	Route 34 Express
2019/03/05 11:12:36 AM AST	33189	Every Weekday (Monday through Friday)	6:45	8:15	Route 34 Express;Route 39 Express
2019/03/05 12:50:57 PM AST	33189	A few times per month	9:00	10:15	Route 35
2019/03/05 2:34:35 PM AST	33189	Every Weekday (Monday through Friday)	7:00	8:15	Route 34 Express;Route 39 Express
2019/03/05 2:47:07 PM AST	33157	A few times per month	7:00	8:00	Route 31 Busway Local;Route 38 Busway Max;Route 39 Express;Route 287 Saga Bay Max
2019/03/05 4:18:59 PM AST	33157	Every Weekday (Monday through Friday)	7:00	8:50	Route 34 Express;Route 39 Express;Metrorail;Metromover

2019/03/06 10:39:03 AM AST	33157	Every Weekday (Monday through Friday)	6:00	7:00	Metrorail;Metromover
2019/03/06 3:32:18 PM AST	33189	Every Weekday (Monday through Friday)	7:00	8:45	Route 34 Express;Route 38 Busway Max;Route 39 Express;Metrorail
2019/03/06 6:17:32 PM AST	33189	Every Weekday (Monday through Friday)	6:45	17:30	Route 34 Express;Route 39 Express;Metrorail
2040/02/05 6 24 24 54 54 65	22400		6.45	0.45	
2019/03/06 6:21:24 PM AST	33189	Every Weekday (Monday through Friday)	6:45	8:15	Route 34 Express;Route 39 Express
2019/03/07 7:23:42 AM AST	33170	1-3 a year	9:00	11:00	Route 38 Busway Max;Metrorail;Metromover
2019/03/10 9:38:58 AM AST	33033	Every Weekday (Monday through Friday)	5:05	5:20	Metrorail
2019/03/11 3:22:47 PM AST	33189	Every Weekday (Monday through Friday)	7:20	8:30	Route 34 Express;Metrorail

					Deute 24 European Deute 20 European Deute 207 Gere Deu
	00400				Route 34 Express;Route 39 Express;Route 287 Saga Bay
2019/03/11 5:56:02 PM AST	33190	Every Weekday (Monday through Friday)	7:00	8:20	Max;Metrorail
2019/03/11 8:22:27 PM AST	33190	A few times per week	15:15	8:00	Route 31 Busway Local;Route 38 Busway Max;Metrorail
2019/03/18 3:16:12 PM AST	33189	Every Weekday (Monday through Friday)	9:22	17:07	Route 200 Cutler Bay Circulator
					Route 1;Route 31 Busway Local;Route 200 Cutler Bay
2019/03/21 5:15:03 PM AST	33157	Everyday	9:00	5:00	Circulator;Route 287 Saga Bay Max;Metrorail;Metromover
					Route 34 Express;Route 38 Busway Max;Route 39
2019/03/21 6:22:36 PM AST	33190	Every Weekday (Monday through Friday)	8:00	19:00	Express;Metrorail
2013/03/21 0.22.30 110/31	55150		0.00	15.00	Route 31 Busway Local;Route 38 Busway Max;Route 200
2019/03/22 3:16:10 PM AST	33190	Everyday	5:40	8:10	Cutler Bay Circulator;Route 287 Saga Bay Max;Metrorail
2013/03/22 3.10.10 PW A31	55150	Lveryday	5.40	0.10	
					Route 34 Express;Route 38 Busway Max;Route 39
2019/04/02 5:48:13 PM AST	33157	Every Weekday (Monday through Friday)	7:30	8:30	Express;Metrorail;Metromover
2019/04/02 7:34:05 PM AST	33189	Every Weekday (Monday through Friday)	6:30	18:00	Route 34 Express;Route 39 Express;Metrorail

2019/04/02 8:02:54 PM AST	33157	Every Weekday (Monday through Friday)	6:00	7:00	Route 34 Express;Route 39 Express;Metrorail
2019/04/03 9:12:18 AM AST	33189	Every Weekday (Monday through Friday)	6:20	8:30	Route 287 Saga Bay Max;Metrorail;Metromover
2010/04/02 11.26.47 ANA ACT	33189	A four times nor month	8:00	9:00	Doute 24 Europe
2019/04/03 11:26:47 AM AST	33189	A few times per month	8:00	9:00	Route 34 Express
2019/04/03 1:01:59 PM AST	33157	Never	6:00	16:00	None as they are not reliable or safe
2019/04/03 3:42:18 PM AST	33190	Every Weekday (Monday through Friday)	6:00	7:00	Route 34 Express
					Route 200 Cutler Bay Circulator;Route 287 Saga Bay
2019/04/06 7:30:40 AM AST	33157	A few times per month	9:00	16:00	Max;Metrorail;Metromover
2019/04/17 10:18:21 AM AST	33032	Every Weekday (Monday through Friday)	5:30	7:00	Route 34 Express;Route 39 Express;Metrorail
			0.00		
2019/04/21 9:32:17 AM AST	33170	Every Weekday (Monday through Friday)	7:40	8:45	Route 34 Express;Route 39 Express

					Route 34 Express;Route 39 Express;Route 287 Saga Bay
2019/04/21 9:52:24 AM AST	33190	A few times per month	5:30	18:00	Max;Metrorail
2019/04/21 9:57:40 AM AST	33189	Every Weekday (Monday through Friday)	6:45	8:00	Route 34 Express;Route 39 Express;Metrorail;Metromover
2019/04/21 10:02:00 AM AST	33189	A few times per week	5:40	7:30	Route 34 Express;Metrorail
	22457		C 05	7.40	
2019/04/21 10:13:25 AM AST	33157	Every Weekday (Monday through Friday)	6:05	7:10	Route 39 Express
	00150				Route 31 Busway Local;Route 34 Express;Route 38 Busway
2019/04/21 11:28:45 AM AST	33156	Every Weekday (Monday through Friday)	5:30	6:45	Max;Route 287 Saga Bay Max;Metrorail
2019/04/21 4:08:36 PM AST	33189	A few times per week	6:30	8:25	Route 31 Busway Local
2019/04/21 4:11:02 PM AST	33157	A few times per month	10:30	11:46	Metrorail;Metromover
2013/04/21 4.11.02 FWFA31	55157		10.50	11.40	
2019/04/21 5:11:18 PM AST	33157	Every Weekday (Monday through Friday)	6:00	7:00	Metrorail;Metromover
2019/04/21 6:00:35 PM AST	33157	Everyday	7:30	18:50	Route 1
					Route 31 Busway Local;Route 35;Route 38 Busway
2019/04/21 6:19:38 PM AST	33157	Everyday	6:21	20:00	Max;Metrorail;104 and Kat
					Route 34 Express;Route 39 Express;Route 287 Saga Bay
2019/04/21 8:34:03 PM AST	33190	Every Weekday (Monday through Friday)	7:30	8:30	Max;Metrorail
		When needed and schedule matches time			
2019/04/22 8:35:06 AM AST	33189	availability	7:00	8:45	Route 35;Route 38 Busway Max;Metrorail
2019/04/22 3:18:49 PM AST	33190	Every Weekday (Monday through Friday)	6:30	8:30	Metrorail;Palmetto Bay iBus

[]					
2019/04/24 5:32:52 AM AST	33189	Every Weekday (Monday through Friday)	6:00	18:30	Route 287 Saga Bay Max;Metrorail
2019/04/30 1:18:56 PM AST	33189	Never	8:00	16:00	car
2019/04/30 2:07:03 PM AST	33176	A few times per week	1:30	2:15	Route 52
					Route 1;Route 31 Busway Local;Route 200 Cutler Bay
2019/04/30 4:51:15 PM AST	33189	Every Weekday (Monday through Friday)	9:17	11:10	Circulator;Route 287 Saga Bay Max;73,8,24
					Route 1;Route 31 Busway Local;Route 200 Cutler Bay
2019/04/30 4:52:04 PM AST	33189	Every Weekday (Monday through Friday)	9:17	11:10	Circulator;Route 287 Saga Bay Max;73,8,24
	00100		0.2.		
2019/04/30 7:19:25 PM AST	33157	Never	9:30	10:10	Florida Turnpike
					Route 38 Busway Max;Route 39 Express;Route 287 Saga Bay
2019/05/05 2:43:58 PM AST	33177	Every Weekday (Monday through Friday)	6:15	7:45	Max;Metrorail
, -,		,,,		-	
		Todos los dias de semana (de lunes a			
2019/03/05 8:28:45 AM AST	33189	viernes)	5:00	6:00	Ruta 31 Busway Local;Ruta 38 Busway Max

2019/05/03 5:57:11 PM AST	33189	Todos los dias	6:00	7:00	Ruta 200 Cutler Bay Circulator;Ruta 287 Saga Bay Max

Which Bus Stop do you typically begin your trip?	Which Transit Stop do you typically end your trip?	How do you get to the Bus Stop?	Do you transfer?	If yes, how many times and where?	What is the primary purpose of your transit ride?
SW 112 Ave Transitway	Southland Mall;dadeland south	Park and Ride	Yes	Dadeland south	Connect to/from Work
SW 112 Ave Transitway	civic center	Park and Ride	Yes	Dadeland south	Connect to/from Work
SW 112 Ave Transitway	d miami	Park and Ride	Yes	Dadeland south	Connect to/from Work
SW 112 Ave Transitway	downtown	Park and Ride	Yes	Dadelamd south	Connect to/from Work
SW 112 Ave Transitway	Dadeland south	Park and Ride	No		Connect to/from Work
SW 112 Ave Transitway	dadeland south	Park and Ride	No		Connect to/from Work
homestead	palmetto bay	Walk	Yes	3x at 112	Connect to/from School
SW 112 Ave Transitway	government	Park and Ride	Yes	DI south	Connect to/from Work
Southland Mall	Dadeland south then lyric theater	Park and Ride	Yes	1	Connect to/from Work
Southland Mall	Metrorail south	Park and Ride	Yes	One	Connect to/from Work
SW 112 Ave Transitway	miami port provided by employer	Drop Off	Yes	Dadeland south and over town station	Connect to/from Work
SW 112 Ave Transitway	Dadeland south	Park and Ride	No		Connect to/from Work
SW 112 Ave Transitway	Dadelamd south	Park and Ride	Yes	2 - dadeland south and gov center	Connect to/from Work
SW 112 Ave Transitway	bayfront park	Park and Ride	Yes	Dadelamd south and metromove4 goldman center	Connect to/from Work
SW 112 Ave Transitway	Dadeland	Park and Ride	Yes	1 - dadeland	Connect to/from Work
On carribean	Dadeland south	Walk	Yes	1 - southland mall stop onto the 31	Connect to/from Work
atlantic to 16th street	school	Walk	Yes	Yes at 104	Connect to/from School
Publix @ Old Cutler Road	Metrorail to univ station	Walk	Yes	2	Connect to/from School
Stop216	Downtown	Walk	Yes	Yes - southdade mall and metrorail	Connect to/from Work
SW 212 St / SW 85 Ave	Publix @ Old Cutler Road;miami	Walk	Yes	2 or 3x	everything
SW 190 St / SW 87 Ave	SW 112 Ave Transitway	Walk	No		Gym, everything
Publix @ Old Cutler Road		Walk	No		Errands
?	Walmart	Walk	No		Errands
SW 184 Ave / US 1	216 at old cutler	Walk	No		Errands

SW 210 St / SW 82 Ave	Southland Mall	Walk	Yes	1 mall	Connect to/from School
212 n 87	Southland Mall;franjo	Walk	Yes	287 to 52 to mall	Errands
Carribean and gulf stream	Bank of america. Eureka and us 1	Walk	No	287 10 52 10 11/81	Errands
Us 1		Wheelchair	No		Connect to/from Appointment
Sw 85 ave and 212 st	Sd gov center	Walk	No		Connect to/from Work
Homestead	Falls	Walk	Yes	1 transit way	All
Homestead	Falls	Walk	Yes	1 transit way	All
200 caribbean 199 st and 2nd ave	SW 190 St / SW 87 Ave	Walk	Yes	3x	Connect to/from Work
200 calibbean 199 st and 2nd ave	SW 190 St / SW 87 AVE	VVdIK	res	5X	Connect to/from work
Marlin Road Transitway	govt center	wheelchair	Yes	Dadeland south	Connect to/from Work
Marlin Road Transitway	Dadeland	35	Yes		Evertnumg
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	Yes	Dadeland	Connect to/from Work
Publix @ Old Cutler Road	Southland Mall/South Dade Government Center	Bike	Yes	Twice	Connect to/from Work
do not ride the bus	civic center	N/A	No		Connect to/from Work
		N/A	NO		
nome	Government Center	Walk	Yes	1, govt center	Primary Mode of Transportation
	Hialeah, 12th Avenue and 51st Place- Palm Springs				
Sw 216th Street and 87th Place	Middle School	Walk	Yes	Metrorail and Route 73 Okeechobee Station	Connect to/from Work
Marlin Road Transitway	Government Center	Walk	Yes	3 Dadeland	Connect to/from Work

168 park and ride	Civic center	Drive to Park and Ride	Yes	1 time at dadeland south to train	Connect to/from Work
Dadeland North	Government Center	I drive to Dadeland N	Yes		Connect to/from Work
SW 112 Ave Transitway	Government Center	Drive to Park and Ride	Yes	Once	Connect to/from Work
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	No		Connect to/from Work
Southland Mall/South Dade Government					
Center	Dadeland South;Government Center	Walk	Yes	1	Connect to/from Work
Dadeland south	SW 112 Ave Transitway;SW 184 Ave / US 1	Walk	No		Connect to/from Work
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	Yes	Dadeland South	Connect to/from Work
SW 212 St / SW 85 Ave	Dadeland South	Walk	No		Connect to/from Work
kendall station	Government Center	I take train only	No		meeting
	Southland Mall/South Dade Government Center;SW				Jury duty or to go downtown to
SW 112 Ave Transitway	112 Ave Transitway;Marlin Road Transitway	Drop Off	Yes	Bus to metrorail	museums.
Marlin Road Transitway	MDC Kendall Campus	Drop Off	No		Connect to/from School

SW 112 Ave Transitway	Government Center	Drive to Park and Ride	Yes	1 transfer, from the 34 or 39 to Metrorail at Dadeland South	Connect to/from Work
i drive to dadeland north	civic center	drive to dadeland north	No	na	Connect to/from Medical Appointment
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	No		Connect to/from Work
Publix @ Old Cutler Road	Dadeland South	Drop Off	Yes	1	Connect to/from Medical Appointment
SW 207 ST / SW 85 AVE	Government Center	Walk	Yes	2	Errands
Target Pak n Ride	Dadeland South	Drive to Park and Ride	No		Connect to/from Work
SW 112 Ave Transitway Southland Mall/South Dade Government	Civic Center	Drive to Park and Ride	Yes	Once at Dadeland South	Connect to/from Work
Center	Civic center	Walk	Yes	Once at dadeland south	Connect to/from Medical Appointment
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	Yes	Once	Connect to/from Work
SW 184 Ave Transitway;SW 168 St Park and Ride by Busway	Dadeland South	Drive to Park and Ride	Yes	2	Connect to/from Work
	Government Center;Knight Center MetroMover			Total transfers: 3: Step 1: SW 112 Ave Transitway (take 39 bus in the morning as 34 bus does not have enough seats and I need to sit) to Metrorail (Dadeland South). Step 2: Metrorail from Dadeland South to Government Center. Step 3: Take Metromover to Knight Center station. In the evening I do the same thing I make the return commute from metromover to metrorail to the bus (I have to take the 34 as the 39 does not run as often and hinders me from picking up my son from	
SW 112 Ave Transitway	Station	Drive to Park and Ride	Yes	after-school care on time.	Connect to/from Work

					1
Dadeland South Metrorail Station	Government Center	Drive to Park and Ride	No		Connect to/from Work
SW 112 Ave Transitway	Civic center	Drive to Park and Ride	Yes	Bus to train	Connect to/from Work
				2	
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	Yes	2	Connect to/from Work
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	Yes	2	Connect to/from Work
Southland Mall/South Dade Government					
Center;SW 210 St / SW 82 Ave;SW 212 St / SW 85 Ave	Dadeland South;Government Center	Walk	No		Leisure activities to avoid paying for parking and traffic
		Walk	NO		
Dont take the bus, Too slow	Dadeland North	Don't take the bus	No		Connect to/from Work
SW 112 Ave Transitway	Government Center	Drive to Park and Ride	Yes	Once, Dadeland South from bus to rail	Connect to/from Work

SW 112 Ave Transitway	Vizcaya	Drive to Park and Ride	Yes	Once at Dadeland South	Connect to/from Work
Southland Mall/South Dade Government					
Center;SW 112 Ave Transitway	Southland Mall/South Dade Government Center	Bike	Yes		Connect to/from Work
I					
SW 212 St / SW 85 Ave	Southland Mall/South Dade Government Center	Walk	Yes	2, fiu	Connect to/from School
SW 190 St / SW 87 Ave	Southland Mall/South Dade Government Center	Walk	Yes	Cutler Bay local change for the 31 to the train	Connect to/from Medical Appointment
SW 190 St / SW 0/ /WC		Walk	105		
SW 112 Ave Transitway	SW 112 Ave Transitway	Drive to Park and Ride	Yes	1	Connect to/from Work
216th Street SW87 place	Dadeland South	Walk	Yes	1	Connect to/from Work
· · · · · · · · · · · · · · · · · · ·					
SN/ 112 Ave Transituary	Covernment Conter	Drive to Park and Ride	Vac	Once from a bus to train at Dadeland South	Connect to/from Work
SW 112 Ave Transitway	Government Center		Yes		
Southland Mall/South Dade Government					
Center;SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	No		Connect to/from Work

				Get on bus at sw 112 ave, transfer to metrorail at dadeland south. Then reverse the trip in evening.	
				Transfers to bus are very inconvenient, and adds	
SW 112 Ave Transitway	Civic Center	Drop Off	Yes	time to commute.	Connect to/from Work
		второн	103		
old cutler road	south beach	Walk	Yes	4	Connect to/from Work
SW 200 St Transitway	SW 200 St Transitway	Drive to Park and Ride	Yes	1 time at Dadeland	Connect to/from Medical Appointment
		Don't as stations are not			
		safe and not easily			
Sw 152 but it is not safe oe timely to access	SW 152 would be the station if I ever used the busway	accessible from east of			Unsafe and not easily accessible from
from the east	, which I don't	US-1	No		east of US-1
SW 112 Ave Transitway	SW 112 Ave Transitway	Drive to Park and Ride	Yes	Dadeland South Metrorail Station	Connect to/from Work
SW 112 AVE Transitway		Drive to Park and Ride	res		Connect to/from work
Marlin Road Transitway	Government Center	Bike	Yes		Connect to/from Retail/Shopping
SW 112 Ave Transitway	SW 112 Ave Transitway	Drop Off	Yes	I transfer to the train from the bus.	Connect to/from Work
		5100 011	105		
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	No		Connect to/from Work
	244014114 00401				

	Southland Mall/South Dade Government Center;SW				
	112 Ave Transitway;SW 212 St / SW 85 Ave;Dadeland		X		
SW 212 St / SW 85 Ave	South	Drive to Park and Ride	Yes	Dadeland south metro rail once	Connect to/from Work
SW 112 Ave Transitway	Dadeland South	Drive to Park and Ride	No		Connect to/from Work
SW 112 Ave Transitway	Brownsville	Drive to Park and Ride	Yes	1 at Dadeland South	Connect to/from Work
· · ·					
168 Park and Ride	Civic Center	Drive to Park and Ride	Yes	1	Connect to/from Work
168 Park and Ride	Government Center	Walk/drive/dropped off	Yes	1 or 2 168 Dadeland South	Connect to/from Work
Marlin Daard Transition	De delea d Seuth Courses and Courter	Duran Off	Vee		
Marlin Road Transitway	Dadeland South;Government Center	Drop Off	Yes		Connect to/from Work
Dadeland south	Dadeland South	Drive to Park and Ride	Yes	1	Tourism
SW 168th parking lot	Government Center	Drive to Park and Ride	No		Connect to/from Work
Car	SW 184 St / US 1	Car	No		Connect to/from Work
Marlin Road Transitway	Marlin Road Transitway	Walk	Yes	2	Connect to/from Work
216st and Old cutler rd	Dadeland South	Walk	No		Connect to/from Work
Southland Mall/South Dade Government	Southland Mall/South Dade Government Center;SW				
Center;SW 212 St / SW 85 Ave	212 St / SW 85 Ave	Drop Off	Yes		Appts downtown
Palmetto Bay ibus	Dadeland South	Drive to Park and Ride	No		Connect to/from Work

212 Street approximately.	86 ave and 206 street	Drop Off	Yes	Every week day to Metro-rail	Connect to/from Work
		I would never wait in the			
		Miami rain at a bus stop.			
		I would drive to the			
		nearest parking garage			I'm dropping kids at school and running
	I'm trying to drive kids to school. which is why you still	with security where I feel			errands. My girls will never ride the bus
I would never wait/walk in the rain in Miami.	need to complete the traffic grid and build the bridge.	safe to get on the metro			to school; didn't you just see in the news
Build the bridge so people can drive to park	Some of us aren't going to work and can't get all the	rail. I will never use the			the latest school girl who was raped at
and ride locations.	errands done on a bus.	bus.	No		the bus stop?
Marlin Road Transitway	Dadeland	35	Yes		Evertnumg
	Southland Mall/South Dade Government				
Sw 207 st and 85 av	Center;Dadeland South;Busway and sw 144 st	Walk	Yes	2 times at dadeland south and sw 24 st and 67 av	Primary Mode of Transportation
					,
	Southland Mall/South Dade Government				
Sw 207 st and 85 av	Center;Dadeland South;Busway and sw 144 st	Walk	Yes	2 times at dadeland south and sw 24 st and 67 av	Primary Mode of Transportation
Do not ride transit	Florida International University	Not Applicable	No		Not Applicable
SW 184 St Transitway;Sw 168th st transitway	SW 184 St Transitway;Sw 168th st transitway	Drive to Park and Ride	No		Connect to/from Work
Centro Comercial Southland / Centro de					
Gobierno de South Dade	SW 184 Ave / US 1	Caminar	No		Conectar a / desde el trabajo

SW 210 St / SW 82 Ave	Dadeland Sur	Caminar	No	Conectar a / desde el trabajo

Do you use the Miami-Dade Transit	How satisfied are you with the service		
Tracker APP for Real-time Tracking	-	What upgrades could improve your bus stop experience?	What would improve your commute? (Choose as many as
and Planning your Route?		(Choose as many as you like)	you like)
		Lighting;Shade;Maintenance of Bus Stops;more buses,	
Yes	5	better coverage from elements	add seating on buses, buses
		Security Cameras;Maintenance of Bus Stops;Bus	
		Information Display;Traffic Calming Near Bus Stop;more	
Yes	2	busew	more buses
Yes	3	train	
Yes	3	Shade	more frequency of buses, more buses
Sometimes	4	Seating;Maintenance of Bus Stops;Bus Information Display	improved bus maint
Yes	2	Maintenance of Bus Stops; Improve signal to arrive	train
Yes	2	Lighting;Security Cameras	
Yes	4	more parking	more buses
Yes	3	Maintenance of Bus Stops	Train to go all the way south
Yes	1	Clean benches	
Yes	3	Lighting;Security Cameras;Bus Information Display	WiFi Service on Bus
Yes	3	no	no
No	1	Park and ride needs more parking	
Yes		Security Cameras	more buses
Yes	2		
No	4	Lighting;Shade	WiFi Service on Bus
Sometimes	3		
Yes	3		
Yes	3	Shade;Seating;Trash Receptacles	
No	3	Bus Information Display	Micro Transit (Golf Carts, Freebie)
Yes	1	Shade;Benches too far from stop at marlin and at 184	
			Bike Share Stations; Electric Bike/Scooter Share; WiFi Service
Yes	3	Lighting;Shade	on Bus
No	1		
No	2	Shade;Seating;Need shelter for rain	

Yes	3		Public Art
103	5	Shade;Seating;Trash Receptacles;Bus Information	
Yes	1	Display;shelter needed at 212 and 87	Wayfinding/Signage
No	1	Shade	
Sometimes	1		
Yes	1		
Yes	5		
Yes	5		
Yes	2	dont pay attention to stops	app accuracy
		Shade; Maintenance of Bus Stops; Bus Information	
No	3	Display;coverage from elements	Retail;Public Space/Plaza;frequency of bus
No	4		
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Shade;Improved Seating;Bicycle Parking;Bicycle	Bicycle Access/Bicycle Lanes;Electric Bike/Scooter
		Storage Lockers; Maintenance of Bus Stops; Real Time Bus	Share; Micro Transit (example: Golf
		Information Display;Coverage/Shelter from Elements	Carts);Wayfinding/Signage;WiFi Service on Bus;Mobile
		(example: rain or sun);Public Restroom Nearby;Metrorail	Ticketing;Improved Frequency of Bus;Improved Reliability of
Yes	3	down extended to SW 112th Busway	Service;Extended Hours of Operations;Delay Notifications
Yes	3		Service, extended Hours of Operations, Delay Notifications
		Improved Security (example: Cameras, Emergency Phone,	Completion of Roadway Grid in Palmetto Bay with Bridges
Sometimes	5	Better Design)	on 87ave and 77 ave
			shuttle from an area in east culter bay directly to dadeland
Sometimes	3		south
	-	Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Shade;Improved Seating;Trash Receptacles;Real	Mobile Ticketing;Improved Frequency of Bus;Improved
		Time Bus Information Display;Coverage/Shelter from	Reliability of Service; Delay Notifications; Buses and trains
Yes	4	Elements (example: rain or sun)	running close to on time
	· · · · ·		Improved Frequency of Bus;Improved Reliability of
Yes	5	sun)	Service;Extended Hours of Operations
		Safe Access to Bus Stop;Shade;Maintenance of Bus	
		Stops;Real Time Bus Information Display;Coverage/Shelter	
No	5	from Elements (example: rain or sun)	Extended Hours of Operations; Delay Notifications
	, j	· · · · · · · · · · · · · · · · ·	

<u>г</u>		Lighting languaged Converter (assured to Converter C	
		Lighting; Improved Security (example: Cameras, Emergency	
		Phone, Better Design);Shade;Improved	
		Seating;Maintenance of Bus Stops;Real Time Bus	
		Information Display;Coverage/Shelter from Elements	WiFi Service on Bus; Mobile Ticketing; Improved Frequency of
Yes	4	(example: rain or sun);Public Art	Bus;Improved Reliability of Service;Delay Notifications
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better Design);Real	
1		Time Bus Information Display;Coverage/Shelter from	Improved Frequency of Bus;Improved Reliability of
Yes		Elements (example: rain or sun)	Service;Extended Hours of Operations
		Improved Security (example: Cameras, Emergency Phone,	
1		Better Design);Real Time Bus Information Display;More	WiFi Service on Bus;Improved Frequency of Bus;Extended
Yes	3	new buses	Hours of Operations
1			Extended Hours of Operations;Extended hours during the
No	1	Real Time Bus Information Display	daytime for the express buses on the busway
		Lighting; Improved Security (example: Cameras, Emergency	
1		Phone, Better Design);Shade;Improved Seating;Real Time	
1		Bus Information Display;Coverage/Shelter from Elements	
		(example: rain or sun);Retail Nearby;Public Restroom	Bike Share Stations;Electric Bike/Scooter Share;Delay
Yes	5	Nearby	Notifications
		Improved Security (example: Cameras, Emergency Phone,	
Yes	3	Better Design);Public Restroom Nearby	WiFi Service on Bus;Mobile Ticketing;Delay Notifications
			Improved Reliability of Service;Extended Hours of
Yes	4	Bicycle Storage Lockers	Operations
		Improved Seating;Real Time Bus Information	
1		Display;Coverage/Shelter from Elements (example: rain or	
Sometimes		sun)	Bike Share Stations
i		Safe Access to Bus Stop; Improved Security (example:	
1		Cameras, Emergency Phone, Better	
		Design);Shade;Improved Seating;Coverage/Shelter from	
No - I did not know about it		Elements (example: rain or sun)	security
	-		
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	Improved Frequency of Bus;Improved Reliability of
		Design);Shade;Improved Seating;Maintenance of Bus	Service;Extended Hours of Operations;I got out late from
		Stops;Real Time Bus Information Display;Coverage/Shelter	jury duty and the bus I would have taken stopped running so
			had to take one that let me off at Marlin and husband had to
Yes		from Elements (example: rain or sun);Public Restroom	
Tes		Nearby;Scary to ride at night	ouck me up.
		Safe Access to Bus Stop; Improved Security (example:	In the second
		Cameras, Emergency Phone, Better Design);Real Time Bus	Improved Frequency of Bus; Improved Reliability of
Yes	2	Information Display	Service;Extended Hours of Operations

		Lighting;Improved Seating;Trash Receptacles;Maintenance	Mobile Ticketing: Improved Frequency of Bus: Improved
		of Bus Stops;Real Time Bus Information	Reliability of Service;Extended Hours of Operations;A system
			that says how many seats are left on the bus, either in the
Yes		sun)	app or on a display on the bus outsude.
No - I did not know about it	1	i do not take the bus	i do not take the bus
	_	Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Maintenance of Bus Stops;Real Time Bus	
			Improved Frequency of Bus; Improved Reliability of
Vac			
Yes	2	(example: rain or sun)	Service;Extended Hours of Operations;Delay Notifications
No	2	Lighting;Shade;Trash Receptacles	Improved Frequency of Bus
			Bike Share Stations;Electric Bike/Scooter Share;Improved
			Frequency of Bus;Improved Reliability of Service;Extended
No		Elements (example: rain or sun)	Hours of Operations
No	3	Improved Seating;Public Restroom Nearby;Cleanliness	WiFi Service on Bus;Improved Frequency of Bus
		Safe Access to Bus Stop; Improved Security (example:	
		Cameras, Emergency Phone, Better Design);Improved	
		Seating;Maintenance of Bus Stops;Real Time Bus	
		Information Display;Coverage/Shelter from Elements	
Yes	2	(example: rain or sun)	Improved Frequency of Bus; Delay Notifications
			Car Share;WiFi Service on Bus;Conditions & cleanliness of
No	3	Improved Seating;Maintenance of Bus Stops	the busses
		Maintenance of Bus Stops;Coverage/Shelter from Elements	Improved Frequency of Bus;Improved Reliability of
Yes	3	(example: rain or sun)	Service; Delay Notifications
		Safe Access to Bus Stop;Bicycle Parking;Bicycle Storage	
		Lockers;Real Time Bus Information Display;Improvements	Bike Share Stations;Electric Bike/Scooter
		to trip planning components of the MDT App or	Share;Wayfinding/Signage;Mobile Ticketing;Improved
		recommendations of a better trip planning app that	Frequency of Bus;Improved Reliability of Service;Delay
Yes	2	focuses on public transportation usage.	Notifications
			WiEi Convice on Duculmproved Franciscus of Duculmentary
			WiFi Service on Bus; Improved Frequency of Bus; Improved
			Reliability of Service; Delay Notifications; A clean facility at
			SW 112 Ave (there is broken glass constantly all over and the
			benches are too dirty to sit on) and benches at the mover
		Seating;Maintenance of Bus Stops;Coverage/Shelter from	stations (there aren't any at government center and
Yes	3	Elements (example: rain or sun);Public Restroom Nearby	sometimes the wait is 10 minutes)

Г	ſ	Trash Receptacles;more frequent buses in the afternoon (4-	
No		6pm)	Improved Frequency of Bus;Improved Reliability of Service
NO		Lighting;Safe Access to Bus Stop;Improved Security	improved frequency of bus, improved reliability of service
		(example: Cameras, Emergency Phone, Better	Wayfinding/Signage;WiFi Service on Bus;Mobile
		Design);Shade;Landscaping;Improved Seating;Real Time	Ticketing; Improved Frequency of Bus; Improved Reliability of
		Bus Information Display;Coverage/Shelter from Elements	Service;Extended Hours of Operations;Delay
Yes		(example: rain or sun)	Notifications;Lazy bus drivers!
fes	5		
		Improved Security (example: Cameras, Emergency Phone,	
		Better Design);Improved Seating;Bicycle Storage	
		Lockers; Maintenance of Bus Stops; Coverage/Shelter from	
		Elements (example: rain or sun);Security and lighting at the	Picycla Banair Facilitias: Pika Shara Stations: Picycla
		park and ride is awful. Most of the time the lights are off	Access/Bicycle Lanes;Micro Transit (example: Golf
No		when it's dark and security is sitting around talking versus	Carts);Improved Frequency of Bus;Improved Reliability of
Yes		patrolling and protecting	Service;Extended Hours of Operations
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	Bicycle Repair Facilities;Bike Share Stations;Bicycle
		Design);Shade;Improved Seating;Trash Receptacles;Bicycle	
		Parking;Bicycle Storage Lockers;Maintenance of Bus	Carts);Improved Frequency of Bus;Improved Reliability of
			Service; Fixing the traffic issue leave the park and ride on 112
		from Elements (example: rain or sun);More security, a lot	and the busway. It takes 15-20 minutes sometimes to get
Yes		of homeless and illegal activities are seen at the stops.	out of that parking lot. That's ridiculous
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Shade;Landscaping;Improved Seating;Trash	
		Receptacles;Bicycle Parking;Bicycle Storage	
		Lockers;Maintenance of Bus Stops;Real Time Bus	
		Information Display;Coverage/Shelter from Elements	
		(example: rain or sun);Public Art;Public Space/Plaza	Electric Bike/Scooter Share;Car Share;Mobile
		Nearby;More routes to dolphin mall and other similar	Ticketing;Improved Frequency of Bus;Improved Reliability of
Yes	4	areas, too long of a trip at the moment	Service; Extended Hours of Operations; Delay Notifications
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Shade;Landscaping;Improved Seating;Maintenance	
		of Bus Stops;Real Time Bus Information	WiFi Service on Bus;Improved Frequency of Bus;Improved
		Display;Coverage/Shelter from Elements (example: rain or	Reliability of Service;Extended Hours of Operations;Delay
Sometimes		sun);Public Restroom Nearby	Notifications
Sometimes	4	Additional buses added to route	Improved Frequency of Bus;Improved Reliability of Service
Jonieumes		אממונוסחמו שמשכש מממכת נס וסמוב	improved inequency of Bus, improved heliability of Service

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		Lighting; Improved Security (example: Cameras, Emergency	
		Phone, Better Design);Shade;Landscaping;Improved	
		Seating;Trash Receptacles;Bicycle Parking;Bicycle Storage	Electric Bike/Scooter Share;Car
		Lockers;Maintenance of Bus Stops;Real Time Bus	Share;Wayfinding/Signage;Improved Frequency of
		Information Display;Coverage/Shelter from Elements	Bus;Improved Reliability of Service;Extended Hours of
Yes	5	(example: rain or sun);Public Space/Plaza Nearby	Operations; Delay Notifications
			WiFi Service on Bus;Improved Frequency of Bus;Improved
		Improved Seating;Bicycle Storage Lockers;Real Time Bus	Reliability of Service;Extended Hours of Operations;Delay
Yes	5	Information Display;Public Restroom Nearby	Notifications
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	Bicycle Repair Facilities;Bike Share Stations;Bicycle
		Design);Shade;Landscaping;Improved Seating;Trash	Access/Bicycle Lanes;Electric Bike/Scooter Share;Car
		Receptacles;Bicycle Parking;Bicycle Storage	Share;Electric Vehicle Charging Stations;Micro Transit
		Lockers;Maintenance of Bus Stops;Real Time Bus	(example: Golf Carts);Wayfinding/Signage;WiFi Service on
		Information Display;Coverage/Shelter from Elements	Bus;Mobile Ticketing;Improved Frequency of Bus;Improved
		(example: rain or sun);Public Art;Public Space/Plaza	Reliability of Service;Extended Hours of Operations;Delay
Sometimes	5	Nearby;Retail Nearby;Public Restroom Nearby	Notifications
		Maintenance of Bus Stops;Coverage/Shelter from Elements	WiFi Service on Bus; Mobile Ticketing; Extended Hours of
Yes	3	(example: rain or sun)	Operations
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Shade;Landscaping;Improved Seating;Trash	
		Receptacles;Maintenance of Bus Stops;Real Time Bus	
		Information Display;Coverage/Shelter from Elements	Improved Frequency of Bus;Improved Reliability of
Yes	3	(example: rain or sun);Public Restroom Nearby	Service; Extended Hours of Operations; Delay Notifications
		Lighting;Coverage/Shelter from Elements (example: rain or	Improved Frequency of Bus;Improved Reliability of
Yes	4	sun)	Service; Extended Hours of Operations
		Lighting;Safe Access to Bus Stop;Improved Security	Micro Transit (example: Golf Carts);Mobile
		(example: Cameras, Emergency Phone, Better	Ticketing;Improved Frequency of Bus;Having a version of the
		Design);Shade;Improved Seating;Trash	Palmetto Bay ibus But for Cutler Bay that picks up in the
		Receptacles;Maintenance of Bus Stops;Real Time Bus	morning and drops off at Dadeland South. Starting in the
		Information Display;Coverage/Shelter from Elements	morning and running frequently in the evening. Stop
Yes	2	(example: rain or sun)	location inside the town.
		Safe Access to Bus Stop; Improved Security (example:	
		Cameras, Emergency Phone, Better Design);Shade;Real	Electric Bike/Scooter Share;Car Share;Micro Transit
		Time Bus Information Display;Coverage/Shelter from	(example: Golf Carts);WiFi Service on Bus;Improved
		Elements (example: rain or sun);Retail Nearby;Public	Frequency of Bus;Improved Reliability of Service;Extended
Sometimes		Restroom Nearby	Hours of Operations; Delay Notifications
<u> </u>			

Yes		Time Bus Information Display;What would help tremendously is having the metrorail continue south from	Improved Frequency of Bus;Improved Reliability of Service;Extended Hours of Operations;Express buses do not run frequent enough- first trip for #34 bus from dadeland south is 3:45pm- and its always packed with people, many who have waited for some time for his to arrive. Majority of time, buses are delayed and there are long lines to get on. The buses are "expressâ€iyet stop at pretty much every traffic lightâ€" if the metrorail were extended south, this wouldn't be an issue
Yes	3	Public Restroom Nearby;bus breaks down too often	Improved Frequency of Bus;Improved Reliability of Service
Sometimes	3		Car Share;WiFi Service on Bus;Mobile Ticketing;Improved Frequency of Bus;Improved Reliability of Service;Delay Notifications
No	5	Safe Access to Bus Stop;Improved Security (example: Cameras, Emergency Phone, Better Design);Maintenance of Bus Stops;Real Time Bus Information Display;Stations are unsafe with panhandlers, muggers, druggies, etc.	Micro Transit (example: Golf Carts);Improved Reliability of Service;It is unsafe to cross IS-1 from the east and it takes too many light cycles to get to the parknride
Yes	4	Safe Access to Bus Stop;Pedestrian Crossing both to	Bike Share Stations;Electric Bike/Scooter Share;Freebee services to and from the station to my house in Island of Bayshore
Yes	4	Bicycle Parking;Bicycle Storage Lockers;Maintenance of Bus	Bicycle Repair Facilities;Bike Share Stations;Bicycle Access/Bicycle Lanes;Electric Bike/Scooter Share;WiFi Service on Bus;Mobile Ticketing
Yes	3		Improved Frequency of Bus;Improved Reliability of Service;Extended Hours of Operations;Delay Notifications;34 EXPRESS bus arrives at my stop already full. With bags to carry etc, it's hard to keep standing in the middle of the bus when it's in motion. The frequency should be improved and train reliability as well. Being fired from work because trains keep breaking is unacceptable.
			WiFi Service on Bus;Mobile Ticketing;Improved Frequency of Bus;Improved Reliability of Service;Extended Hours of
Sometimes	3	Nearby;Public Restroom Nearby	Operations; Delay Notifications

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		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Improved Seating;Real Time Bus Information	
		Display;Coverage/Shelter from Elements (example: rain or	
Sometimes	4	sun);Public Restroom Nearby	Improved Frequency of Bus; Delay Notifications
		Real Time Bus Information Display;Coverage/Shelter from	
Yes	2	Elements (example: rain or sun)	Improved Frequency of Bus;Improved Reliability of Service
			Improved Frequency of Bus;More busses - the 34 express is
Yes	2	Lighting;Real Time Bus Information Display	always so full that I have to stand or fight for a seat.
		Lighting; Improved Security (example: Cameras, Emergency	
		Phone, Better Design);Improved Seating;Maintenance of	Car Share;Micro Transit (example: Golf
		Bus Stops;Real Time Bus Information	Carts);Wayfinding/Signage;WiFi Service on Bus;Mobile
		Display;Coverage/Shelter from Elements (example: rain or	Ticketing;Improved Frequency of Bus;Improved Reliability of
Yes	3	sun);Public Art;Public Restroom Nearby	Service; Delay Notifications
		Lighting;Safe Access to Bus Stop;Improved Security	
		(example: Cameras, Emergency Phone, Better	
		Design);Shade;Maintenance of Bus Stops;Real Time Bus	Wayfinding/Signage;Improved Frequency of Bus;Improved
		Information Display;Coverage/Shelter from Elements	Reliability of Service;Extended Hours of Operations;Delay
Yes	3	(example: rain or sun);Public Space/Plaza Nearby	Notifications
		Lighting;Improved Security (example: Cameras, Emergency	
		Phone, Better Design);Maintenance of Bus Stops;Our	
Sometimes	4	safety too much harrasment by young people.	Improved Reliability of Service
		Improved Seating;Coverage/Shelter from Elements	WiFi Service on Bus;Improved Frequency of Bus;Extended
Yes	3	(example: rain or sun);Metrorail extension to Homestead	Hours of Operations; Metrorail extension
No	3	More frequent afternoon buses	Improved Frequency of Bus;Improved Reliability of Service
No	3	Bicycle Parking	Bicycle Access/Bicycle Lanes
		Safe Access to Bus Stop;Shade;Improved Seating;Real Time	
		Bus Information Display;Coverage/Shelter from Elements	Improved Frequency of Bus;Improved Reliability of
Sometimes	2	(example: rain or sun);More pickup time	Service;Extended Hours of Operations;Delay Notifications
		Safe Access to Bus Stop;Shade;Coverage/Shelter from	
Yes	1	Elements (example: rain or sun)	Electric Bike/Scooter Share
		Improved Security (example: Cameras, Emergency Phone,	
		Better Design);Shade;Coverage/Shelter from Elements	Micro Transit (example: Golf Carts);WiFi Service on
No - I did not know about it	3	(example: rain or sun)	Bus;Extended Hours of Operations;Delay Notifications
Yes	3	Improved Seating	WiFi Service on Bus;Improved Frequency of Bus
	-		

Improved Security (example: Cameras, Emergency Phon Better Design);Shade;Coverage/Shelter from Elements (example: rain or sun);parking garage, so I can park my c and get on the metro rail without being exposed to elements. And security. Better AC on metro rails. I will no ride the bus or wait at bus stops. Build the metro rail AN	
No 5 FINISH THE TRAFFIC GRID BY BUILDING THE BRIDGES!!!	Not just in Palmetto Bay, mind you. Make it easier for people to drive to the large, parking garage and security patrolled metro stations, then people would get out of their ot cars. But of course, you need to complete the traffic grid and
No 4	
Yes 3 Improved Security (example: Cameras, Emergency Phon Better Design);Shade;Improved Seating;Real Time Bus Information Display;Coverage/Shelter from Elements (example: rain or sun);Public Art;Public Restroom Nearb	Electric Vehicle Charging Stations;WiFi Service on Bus;Improved Frequency of Bus;Extended Hours of
Yes 3 (example: rain or sun);Public Art;Public Restroom Nearb	Electric Vehicle Charging Stations;WiFi Service on Bus;Improved Frequency of Bus;Extended Hours of
No 1 Cameras, Emergency Phone, Better Design);Shade;Improved Seating;Real Time Bus Information Display;Coverage/Shelter from Elements	WiFi Service on Bus;Mobile Ticketing;Improved Frequency of Bus;Improved Reliability of Service;Extended Hours of Operations
Lighting;Safe Access to Bus Stop;Improved Security (example: Cameras, Emergency Phone, Better Design);Shade;Maintenance of Bus Stops;Real Time Bus Information Display;Coverage/Shelter from Elements	WiFi Service on Bus;Mobile Ticketing;Improved Frequency of
Yes 2 (example: rain or sun);Public Restroom Nearby Iluminacion;Acceso seguro a la parada de autobus;Seguridad mejorada (ejemplo: camaras, telefon de emergencia, mejor diseao);Asientos mejorados;Recipientes de basura;Mantenimiento de paradas de autobus Si 3 paradas de autobus	Bus;Delay Notifications

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			Seguridad mejorada (ejemplo: camaras, telefono de	
			emergencia, mejor diseao);Estacionamiento de	Acceso para bicicletas / carriles para bicicletas; Frecuencia
	Si	4	bicicletas;Pantalla de informacion de bus en tiempo real	mejorada de bus;Horario Extendido de Operaciones

light, 311 terrible and gives excuses when you call, bus service needs improvement Train Get rid of small buses Improve bus schedule, can be unreliable Bus isnt on time, 34 south never on time is on train. Called to complain bu hasnt improved. More buses, park and ride lot very dark friends car stolen, people sleep at station stops better maintenance of stops On time reliability and bus cleanliness are impkrtant Trip takes too long Consistent bus driver, less stops Need Longer hours, weekend hours , more stops between carribean and old cutler, cutler bay has evening meetings and there is no evening bus. How are the retired people going to get there. We want to go to these meetings. More accurate times on app, shorter headways, more hours for 287	Signal chang	ge causes delays to get to park and ride, let passenger on bus a			
Train Get rid of small buses Improve bus schedule, can be unreliable Bus isnt on time, 34 south never on time is on train. Called to complain bu hasnt improved. More buses, park and ride lot very dark friends car stolen, people sleep at station stops better maintenance of stops On time reliability and bus cleanliness are impkrtant Trip takes too long Consistent bus driver, less stops Need Longer hours, weekend hours , more stops between carribean and old cutler, cutler bay has evening meetings and there is no evening bus. How are the retired people going to get there. We want to go to these meetings.	ight,311 terrible and gives excuses when you call, bus service needs				
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More accurate times on app, shorter headways, more hours for 287	Need Longe old cutler, c How are the	utler bay has evening meetings and there is no evening bus.			
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	Need Longe old cutler, c How are the meetings. More accura	utler bay has evening meetings and there is no evening bus. e retired people going to get there. We want to go to these			

Schedule is not always accurate. App says one time and then bus comes
early or late or not at all.
Better signage at stops for 200, 311 works great.
Half hour frequency would be great
Also route 1 bus ada ramp is frequently broken
Route 35 changed to small buses and cannot accomodate everyone
Route 35 changed to small buses and cannot accomodate everyone
Problems with 301, increase bus frequency, notification when delay.
Drivers are helpful, need more frequency in buses
Called and was given wrong time ,and reliability, no buses on us 1 less
accessibility to shopping there; 35 no longer goes on us 1, need more stops,
inform public when changes are made to bussize etc
Trains are filthy and unreliable. Waste of time and money. You need to
invest more in transit. Not expanding but FIXING what is broken.
More Service Needed for Route 287, and Route 200 Cutler Bay Local

sue.	issue is reliability and la			
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	able to use the bus more day or if another Transit			
			liable to my alea	mu-uay.
	that ride the bus late at	night makes n	ne nervous. The	buses are
The people		-		
	ome of the metrorail bus	es air conditio	ners didn't work	too

buses and	a way to tell how many seats are left.
Communic	cation about delays sould be improved.
O NOT A	LLOW PEOPLE TO SMOKE IN THE BUS LINE. DO NOT ALLOW

	t show up at the			those you're
aiting 40 min	utes!!!! They pu	rposely do t	hat!!	

The Cutler Bay local we need more time so we could attend these
meetings
Transit is lacking proper operating hours in Cutler Bay

Access to the unsafe stations from the east is the MAJOR challenge
Freebee/trolley service need to go inside gated communities
F
Extend the train to Florida City. Have buses dedicated to go frequently
traveled locations just by taking 1 bus and NOT keep transferring. That is
not very helpful for commuters with little children, carrying strollers , bags etc.

34 Express is overflowing of riders around 7am
We need a Metro Rail express line during heavy commuting times. A train that runs straight from Dadeland south to Government Center. This would cut down the number of stops and overall commuting time.
Time to extend the ELEVATED RAIL south to Homestead

I am mostly a stay-at-home mom now, so I only rarely take transit when I' going downtown for something. But when I worked in Miami Gardens, I would have LOVED to take metro. But I couldn't, because Metro doesn't come far enough south or north. I could have driven to the Dadeland sout station, but then it still didn't go far enough north and I am not waiting in the rain at multiple bus stops, for multiple bus transfers. Not when I have car.	th
Called and was given wrong time ,and reliability, no buses on us 1 less	
accessibility to shopping there; 35 no longer goes on us 1, need more stop	os,
inform public when changes are made to bussize etc	
Extended hours for 287/200 would be REALLY COOL	
Improve tracker services (sometimes it says the bus has no more stops	
when it actually does have more stops left)	
Improve tracker app to provide tracking for smaller buses and trolleys	
Extended hours for 287/200 would be REALLY COOL	
Improve tracker services (sometimes it says the bus has no more stops when it actually does have more stops left)	
Improve tracker app to provide tracking for smaller buses and trolleys	
Mas seguridad 38	





Cost Estimates



Description Description Value Value Value Reference Non- 100 100 100 100 100 Marrier	OPINION OF PROBABLE COST						
Description Maint Description Maint Description 000000000000000000000000000000000000							
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OPTIONAL ADS, BASE GROUP 10 SY 51.30 FOOT MURICE DSING ADAPTL TOYMENT 1° SY 55.27 FOOT SUPERAVAL APPALTOYMENT 1° SY 55.27 FOOT SUPERAVAL APPALTOYMENT 1° SY 55.27 FOOT SUPERAVAL APPALTOYMENT 1° SY 55.27 FOOT SUPERAVAL CONC.TARVIC CON 507 52.2 TN 55.30.36 FOOT CONCERTE 1, "Thick: SIRWAIL SY 537.64 FEOT SUPERAVAL CONC.TARVES SY 537.64 FEOT SUPERAVAL APPALMENT, VEINCLASS CONCERT SY 530.37 FEOT SUPERAVAL APPALMENT, VEINCLASS CONCERT SY 530.37 FEOT SUPERAVAL APPALMENT, VEINCLASS CONCERT SY 530.37 FEOT SUPERAVAL APPALMENT, VEINCLASS CONCERT SY 53.60 FEOT SUPERAVAL APPALMENT, VEINCLASS CONCERT SY 53.60 FEOT SUPERAVAL APPALMENT SY 53.60 FEOT SUPERAVAL APPALMENT SY 53.60 FEOT SUPERAVAL APPALMENT SY <td></td> <td></td> <td></td> <td></td>							
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SUPPRIAVE ASPIRATIC CONC. TRAFFIC C TN \$114.40 FDOT SUPPRIAVE ASPIRATIC CONC. TRAFFIC C TN \$123.36 FDOT CONCERTE, "FUNC. CORE BANNES SP \$37.44 FDOT CONCERTE, "FUNC. CORE BANNES SP \$37.44 FDOT SUPPRIAVE CONCERTE, "FUNC. CORE BANNES SP \$37.44 FDOT SUPPRIAVE CONCERTE, "FUNC. CORE BANNES SP \$58.37 FDOT SUPPRIAVE CONCERTE, "FUNC. CORE BANNES SP \$58.37 FDOT SUPPRIAVE ANAMENKS SP \$51.23 FDOT SUPRIAVE ANAMENKS SP \$52.51 FDOT SUPRIAVE ANAMENKS SP \$52.60 FDOT SUPRIAVE ANAMENKS SP \$52.75 FEDOT							
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CONCETE, "THCC. SUPENANK SY \$37.64 FPOT BUS SHELTR AD. CONCENTE SY \$205.40 FPOT BUS SHELTR AD. CONCENTE SY \$205.40 FPOT PATTENDP PAYLMENT, VENICI AREA (Storswald) SY \$283.73 FPOT PATTENDP PAYLMENT, VENICI AREA (Storswald) SY \$283.73 FPOT PRESS AREITECTABLE WARNINGS SY \$282.60 FPOT READRADAL, MORAN, GEN TI-3 IF \$154.66 FPOT PERFORMANCE TURE SOO SY \$22.60 FPOT PERFORMANCE TURE SOO SY \$22.60 FPOT POROUS PAVEMENT SF \$56.00 Mttp://greenvalues.ct.or.or.or.or.or.or.or.or.or.or.or.or.or.	,						
CONCERT C, THICK - CURB RAMPS SY S47.03 FDOT DESIENTER 20.7. CONCRETT SY S202.40 FDOT DATTENDE DAVIAMENT, VENICLE AREA (Crosswalk) SY S202.40 FDOT DATTENDE DAVIAMENT, VENICLE AREA (Crosswalk) SY S202.40 FDOT PATTENDE DAVIAMENT, VENICLE AREA (Crosswalk) SY S202.40 FDOT PATTENDE DAVIAMENT, VENICLE AREA (Crosswalk) SY S20.12 FDOT PATTENDE DAVIAMENT, VENICLE AREA (Crosswalk) SY S20.40 FDOT DEDITICTABLE VENINNES SY S20.40 FDOT DAVIEMA ANDOMAN, GEN 1-3 LF S24.60 FDOT DERIGMANCE TURE, SOO A S24.77 FDOT PROFUSE SP S6.00 Inttp://greenvalue.cnt.org/national/cost_detail.php PRORUS CORRET SP S6.00 Inttp://greenvalue.cnt.org/national/cost_detail.php PRORUS CORRET SP S6.00 Inttp://greenvalue.cnt.org/national/cost_detail.php PRORUS CORRET SP S6.00 Inttp://greenvalue.cnt.org/national/cost_detail.php PRORUS COR		LF		FDOT			
BUS SHELTER PAD - CONCRETE SY 5205-00 FPOT PATTENDE PAVEMENT VENICE AREAS (Socianally) SY 580-12 FPOT PATTENDE PAVEMENT VENICE AREAS (Socianally) SY 588-73 FPOT PATTENDE PAVEMENT, VENICE AREAS (Socianally) SY 588-73 FPOT PRESS ACCURTECTURALS SOCIALAR.SOCIANAL SY 551-84 FPOT PRID ENTICALS EVANANCE TURES SOCIAL AND		SY	\$37.64	FDOT			
PATTERND PAKEMAT, VEHICLE AREAS (Crosswalk) SY 590.17 FDOT PATTERND PAKEMATY, VEHICAE AREAS (Crosswalk) SY 558.17 FDOT PAVERS, ARCHITECTURAL, SIDWALK SY 558.12 FDOT PAVERS, ARCHITECTURAL, SIDWALK SY 558.12 FDOT PAVERS, ARCHITECTURAL, SIDWALK SY 558.12 FDOT PORTECTARE, WARNINGS SY 558.46 FDOT PERSTAINACT VEHICAE AREAS (Crosswalk) SY 550.0 FDOT POROUS ARMANT, SORALS POLE, PRD DETECT POST EA 51.235.66 FDOT PERSTAINACT VEHICAE AREA SF 56.00 https://greenvalues.cot.org/national/cost, detail.php POROUS ARMANT SF S5.00 https://greenvalues.cot.org/national/cost, detail.php PERMAGIE PAVERKE SF S5.00 K.B. Industries inter. SIGNING & PAVEMENT MARKING SF S5.00 K.B. Industries inter. SIGNING & PAVEMENT MARKING S60.3 FDOT S60.3 THERMOPARSTIC, STD-O, YUELLOS, SOLO, G" GM S3.655.54 FDOT THERMOPARSTIC, STD-O, Y	CONCRETE, 6" THICK - CURB RAMPS	SY	\$47.03	FDOT			
PATTERND PAYEMENT, VERL AREAS (Biok Lane) SY 588.7.3 PDOT VERSS, ACCHTECTURAL, SIDEWARK SY 5103.1.7 PDOT VERSS, ACCHTECTURAL, SIDEWARK SY 524.0.1 PDOT VERSS, ACCHTECTURAL, SIDEWARK, GEN TL, SO SY 524.0.1 PDOT VERSS, ACCHTECTURAL, SIDEWARK, GEN TL, SO SY 52.6.0 PDOT VERSTAND, REFLOR, AG, STANADAD FA 52.3.6.6 POOT VERSTAND, REFLOR, AG, STANADAD FA 52.3.6.6 POOT VERSTAND, REFLOR, AG, STANADAD FA 52.4.7.3 RATERINAL (STANADAD) VERSTAND, REFLOR, AG, STANADAD SF 55.0.0 https://greenvalues.cnt.org/national/cost_detail.php DROUG SCONCRETT SF 55.0.0 K.B. Industries Inc. REFLEX-PAVE MATERIAL SIGNING & PAVEMENT MARKING SF 52.0.5.5.4 FDOT THERMOPASTIC, STO D, WILLOW, SOUD, 6'' GM 53.655.5.4 FDOT THERMOPASTIC, STO D, WILLOW, SOUD, 6'' GM 53.655.5.4 FDOT THERMOPASTIC, STO D, WILLOW, SOUD, 6'' GM 53.655.5.4 FDOT	BUS SHELTER PAD - CONCRETE	SY	\$205.40	FDOT			
PAVERS.AQUITECTURAL_SIDEWARK SY \$103.17 FDOT PAVERS.AQUITECTURAL_SIDEWARK SY \$25.12 FDOT GUARDRAIL-ROADWAR/ GEN TL-3 LF \$16.46 FDOT PERFORMANCE TURE, SOD SY \$2.00 FDOT PERSTRAIN STOLE, PED DETECT POST EA \$2.47.73 FDOT POROUS SAPAILAT SF \$56.00 https://greenvalues.ent.org/national/cost_detail.php POROUS ASPAILAT SF \$57.10 https://greenvalues.ent.org/national/cost_detail.php POROUS ASPAILAT SF \$56.00 K.B. Industries Inc. SE SIGNING & PAVEMENT MARKING SE \$57.10 https://greenvalues.ent.org/national/cost_detail.php THEMOPASTIC, STD-OP, VELLOW, SOLID, 6" GM \$38.00.16 FDOT THERMOPASTIC, STD-OP, VELLOW, SOLID, 6" GM							
SPE DETCABLE WARNINGS SF \$25.12 FDOT DEMORDARI- ROMAY, CENTL-3 UF \$15.6.6 FDOT PERFORMANCE TURF, SOD SY \$2.6.0 FDOT ALUMINUM SIGNALS FOLE, PLD DETCE POST E.A \$12.35.6.6 FDOT POROUS CANCETE SPC SSC POOT POROUS CANCETE SPC SSC.34 https://greenvalues.cnt.org/national/cost_detail.php POROUS CANCETE SPC SSC.34 https://greenvalues.cnt.org/national/cost_detail.php POROUS ASHALT SPC SSC.34 https://greenvalues.cnt.org/national/cost_detail.php POROUS ASHALT SPC SSC.34 https://greenvalues.cnt.org/national/cost_detail.php POROUS ASHALT SPC SSC.35 K.B. Industries Inc. SIGNING & PAVEMENT MARKING SPC SSC.35 FDOT THERMOPASTIC, STD-OP, VIEL, SOLD, B* GM SSAS5.54 FDOT THERMOPASTIC, STD-OP, WIEL, SOLD, B* GM SSAS5.54 FDOT PIERMOPASTIC, STD-OP, WIEL, SOLD, B* GM SSAS5.54 FDOT PANTED PAVT MARKSTD, WHEE, SOLD, B* <td></td> <td></td> <td></td> <td></td>							
BURDENAL: RADWAY, GEN TL-3 LF \$15.4.6 POT BURDEROBANCEY UNE, SOD SY \$2.6.0 FDOT BURDEROBANCEY UNE, SOD EA \$12.35.66 FDOT ALUMINUM SIGNALS POLE, PED DETECT POST EA \$12.35.66 FDOT POROUS PAVEMENT EA \$12.35.66 FDOT POROUS ASPARAT SF \$5.00 https://greenvalues.ont.org/national/cost_detail.php POROUS ASPARAT SF \$5.10 https://greenvalues.ont.org/national/cost_detail.php PERMIABLE PAVEES SF \$7.10 https://greenvalues.ont.org/national/cost_detail.php PERMIABLE PAVEES SF \$7.10 https://greenvalues.ont.org/national/cost_detail.php FIEMAVE INSTALATION SF \$5.00 K.B. Industries.inc. SIGNING & PAVEMENT MARKING SF \$5.00 K.B. Industries.inc. THEMOPASTIC, STD-OT, YELLOW, SOLD, S'' GM \$3.659.78 FDOT THEMOPASTIC, STD-OT, YELLOW, SOLD, S'' GM \$3.659.78 FDOT THEMOPASTIC, STD-OT, YELLOW, SOLD, S'' GM \$3.660.6 FDOT THEM							
PERFORMANCE TUP, 500 SY 52.60 FDOT ALUMINUM SIGNALS POLE, PED DETCROST E.A 51.236.66 FDOT DESTRIAN OFFICETOR, FAI, STANDARD FA 52.236.66 FDOT DESTRIAN OFFICETOR, FAI, STANDARD FA 52.47.73 FDOT DESTRIAN OFFICETOR, FAI, STANDARD FA 56.34 https://greenvalues.cnt.org/national/cost_detail.php POROUS CONCRETE SF 55.00 https://greenvalues.cnt.org/national/cost_detail.php POROUS ASPHALT SF 55.00 https://greenvalues.cnt.org/national/cost_detail.php PERMARE PAYERS SF 55.00 https://greenvalues.cnt.org/national/cost_detail.php SIGNING & PAYEMENT MARKING SF 52.75 K.B. Industries inc. THERMOPLASTIC, STD-OF, VIELLOW, SOLD, 6° GM 53.655.54 FDOT THERMOPLASTIC, STD-OF, VIEL, SOLD, 6° GM 53.655.78 FDOT THERMOPLASTIC, STD-OF, VIEL, SOLD, 6° GM 53.131 FDOT THERMOPLASTIC, STD-OF, VIEL, SOLD, 6° UF 53.131 FDOT THERMOPLASTIC, STD-OF, VIEL, SOLD, 6° UF 53.145							
ALUMINUM SIGNAL POLE, PED DETECT POST EA \$1,235.66 FPOT PREDETIOR, FAIL STANDARD EA \$247.73 FPOT POROUS PAVEMENT SP \$6.00 https://greenvalues.cnt.org/national/cost_detail.php POROUS SAFALT SP \$5.43 https://greenvalues.cnt.org/national/cost_detail.php PERMABLE PAVERS SP \$7.10 https://greenvalues.cnt.org/national/cost_detail.php PERMABLE PAVERS SP \$7.25 Nts. Industries Inc. PERMABLE PAVERS SP \$5.00 K.B. Industries Inc. SIGNING & PAVEMENT MARKING SP \$5.00 K.B. Industries Inc. THERMOPLASTIC, STD-OP, WHITE, SOUD, 6" GM \$3,655.54 FDOT THERMOPLASTIC, STD-OP, WHITE, SOUD, 6" GM \$3,655.74 FDOT PAINTED PAVT MARK,STD.WHITE, SOUD, 6" GM \$3,655.74 FDOT PAINTED PAVT MARK,STD.WHITE, SOUD, 6" GM \$3,655.74 FDOT THERMOPLASTIC, STD-OP, WHITE, SOUD, 6" GM \$3,655.74 FDOT PAINTED PAVT MARK,STD.WHITE, SOUD, 6" GM \$3,655.74 FDOT							
PEDESTRIAND DETECTOR, F&I, STANDARD EA \$247.73 FDOT POROUS PAVEMENT SF \$6.00 https://greenvalues.cnt.org/national/cost_detail.php POROUS SAFAAT SF \$6.34 https://greenvalues.cnt.org/national/cost_detail.php POROUS SAFAAT SF \$5.34 https://greenvalues.cnt.org/national/cost_detail.php PERKABLE PAVERS SF \$5.00 https://greenvalues.cnt.org/national/cost_detail.php FERKABLE PAVERS SF \$5.00 k.B. Industries inc. SIGNING & PAVEMENT MARKING SF \$5.60 k.B. Industries inc. SIGNING & PAVEMENT MARKING SF \$6.60 FDOT THERMOPASTIC, STD-OF, WHITE, SOUD, 6" GM \$3,655.74 FDOT THERMOPASTIC, STD-OF, WHITE, SOUD, 6" GM \$4,385.06 FDOT THERMOPASTIC, STD-OF, WHITE, SOUD, 6" GM \$4,385.06 FDOT THERMOPASTIC, STD-OF, WHITE, SOUD, 6" LF \$3.11 FDOT THERMOPASTIC, STD-OF, WHITE, SOUD, 6" LF \$3.13 FDOT THERMOPASTIC, STD-OF, WHITE, SOUD, 6" LF \$3.11 FDOT <td></td> <td></td> <td></td> <td></td>							
POROUS PAVEMENT SF \$6.00 https://greenvalues.ont.org/national/cost_detail.php POROUS ASPHALT SF \$6.34 https://greenvalues.ont.org/national/cost_detail.php PERMEABLE PAVERS SF \$7.10 https://greenvalues.ont.org/national/cost_detail.php PERMEABLE PAVERS SF \$7.75 K.B. Industries Inc. PERMEABLE PAVERS SF \$2.75 K.B. Industries Inc. SIGNING & PAVEMENT MARKING SF \$2.75 K.B. Industries Inc. SIGNING & PAVEMENT MARKING SG MM \$8,601.36 FDOT THERMOPLASTIC, STD-OF, VIELLOW, SOLID, 6° GM \$8,505.78 FDOT THERMOPLASTIC, STD-OF, VIELCOW, SOLID, 2° GM \$4,818.06 FDOT PAINTED PAVT MARKSTD WHITES.DOLD, 2° (crosswalk) LF \$3.11 FDOT PAINTED PAVT MARKSTD WHITES.DOLD, 2° (crosswalk) LF \$2.14 FDOT THERMOPLASTIC, STD-G, WHITE, SOLID, 6° LF \$2.15 FDOT THERMOPLASTIC, STD-G, WHITE, SOLID, 6° LF \$2.16 FDOT THERMOPLASTIC, STD-G, WHITE, SOLID, 6° LF \$2.73.87							
SF S6 S6 https://greenvalues.cnt.org/national/cost_detail.php POROUS CONCRETE SF \$6.00 https://greenvalues.cnt.org/national/cost_detail.php POROUS ASPHALT SF \$6.34 https://greenvalues.cnt.org/national/cost_detail.php PERKEAUE PAVERS SF \$7.10 https://greenvalues.cnt.org/national/cost_detail.php FERKEAUE PAVERS SF \$7.10 https://greenvalues.cnt.org/national/cost_detail.php FERKEAUE PAVERS SF \$7.00 https://greenvalues.cnt.org/national/cost_detail.php SIGNING & PAVEMENT MARKING SF \$6.00 K.B. Industries Inc. THERMOPLASTIC, STD-OP, WHET, SOUD, 6" GM \$3.655.54 FDOT THERMOPLASTIC, STD-OP, WHET, SOUD, 6" GM \$3.655.78 FDOT PAINTED PAY TMARKSTD, WHITE, SOUD, 2" GM \$3.11 FDOT PAINTED PAY TMARKSTD, WHITE, SOUD, 2" GM \$3.11 FDOT PAINTED PAY TMARKSTD, WHITE, MESSAGE (bike symbol) EA \$2.33.7 FDOT THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol) EA \$3.13.2 FDOT SIGNAL & LIGHTING			Ş247.75	1001			
SP 0003 SAPHAIT SF 56.34 https://greenvalues.cnt.org/national/cost_detail.php PERMEABLE PAVERS SF \$7.10 https://greenvalues.cnt.org/national/cost_detail.php PERMEABLE PAVERS SF \$7.10 https://greenvalues.cnt.org/national/cost_detail.php PERMEABLE PAVERS SF \$2.75 K.B. Industries inc. SIGNING & PAVEMENT MARKING SF \$5.00 K.B. Industries inc. THERMOPLASTIC, STD-OP.VELLOW, SOUD, 6" GM \$3,659.78 FDOT THERMOPLASTIC, STD-OP.WHITE, SOUD, 8" GM \$3,659.78 FDOT THERMOPLASTIC, STD-OP.WHITE, SOUD, 8" GM \$3,659.78 FDOT THERMOPLASTIC, STD-OP.WHITE, SOUD, 8" GM \$4,583.06 FDOT PAINTED PAVT MARK,STD,WHITE,SOUD, 2" (rosswalk) LF \$3.11 FDOT PAINTED PAVT MARK,STD,WHITE,SOUD, 2" (rosswalk) LF \$5.75 FDOT THERMOPLASTIC, STD-OP.WHITE, SARDWHITE,SOUD, 2" (rosswalk) LF \$3.11 FDOT THERMOPLASTIC, STD-OP.WHITE, SARDWHITE,SOUD, 2" (rosswalk) LF \$3.11 FDOT THERMOPLASTIC, PREFORMED, WHITE, ARROW (blke arrow)		SF	\$6.00	https://greenvalues.cnt.org/national/cost_detail.php			
PERMEABLE PAVERS SF \$7.10 https://greenvalues.cnt.org/national/cost_detail.php FLEX I-PAVE NISTALLATION SF \$2.75 K.B. Industries Inc. FLEX I-PAVE MATERIAL SF \$5.00 K.B. Industries Inc. SIGNING & PAVEMENT MARKING SF \$5.00 K.B. Industries Inc. THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6" GM \$3.655.78 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 6" GM \$3.655.78 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 2" (crosswalk) LF \$1.66 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 2" (crosswalk) LF \$3.11 FDOT PAINTED PAVT MARK,STD, WHITE, SOLID, 2" (crosswalk) LF \$3.11 FDOT PAINTED PAVT MARK,STD, WHITE, SOLID, 2" (crosswalk) LF \$3.13 FDOT THERMOPLASTIC, STD-OP, WHITE, MESSAGE (bike symbol) EA \$2.73.87 FDOT THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol) EA \$2.73.87 FDOT THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol) EA \$3.650.00 Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)	POROUS ASPHALT						
FLEXI-PAVE MATERIAL SF \$6.00 K.B. Industries Inc. SIGNING & PAVEMENT MARKING	PERMEABLE PAVERS	SF	\$7.10				
SIGNING & PAVEMENT MARKING THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6" GM S3,655.54 FDOT THERMOPLASTIC, STD-OP, YELLOW, SOLID, 8" GM S3,655.54 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 8" GM S3,659.78 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 8" GM S4,185.06 FDOT PANTED PAVT MARK,STD, WHITE, SOLID, 8" FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 8" GM S4,185.06 FDOT PANTED PAVT MARK,STD, WHITE, SOLID, 4" FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 4" FDOT THERMOPLASTIC, STD, EVENTAL, THE SOLID, 4" FDOT THERMOPLASTIC, STD, EVENTAL, FDOT THERMOPLASTIC, STD, EVENTAL, FDOT THERMOPLASTIC, STD, EVENTAL, FDOT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FA SIGNAL & LIGHTING FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FA STREETLIGHT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FDOT FTREETUGHT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FDOT STREETLIGHT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FDOT STREETLIGHT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FDOT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FDOT STREETLIGHT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FDOT FDOT FDESTRIAN SIGNAL, FALLED COUNT, ONE WAYS FDOT FDOT FDOT FDOT FDOT FDOT FDOT FDOT	FLEXI-PAVE INSTALLATION	SF	\$2.75	K.B. Industries Inc.			
THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6"GM\$3,655.54FDOTTHERMOPLASTIC, STD-OY, YELLOW, SOLID, 8"GM\$3,655.54FDOTTHERMOPLASTIC, STD-OY, WHITE, SOLID, 6"GM\$3,693.78FDOTTHERMOPLASTIC, STD-OY, WHITE, SOLID, 6"GM\$4,185.06FDOTPAINTED PAYT MARK, STD, WHITE, SOLID, 12" (crosswalk)LF\$1.66FDOTPAINTED PAYT MARK, STD, WHITE, SOLID, 2" (crosswalk)LF\$3.11FDOTTHERMOPLASTIC, STD-OY, WHITE, SOLID, 2" (crosswalk)LF\$3.13FDOTTHERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)EA\$273.87FDOTTHERMOPLASTIC, PREFORMED, WHITE, ARROW (bike arrow)EA\$91.45FDOTSIGNAL F& LIGD COUNT, 2 WAYSEA\$1.332.14FDOTPEDESTRIAN SIGNAL, F& LED COUNT, 2 WAYSEA\$1.333.14FDOTPEDESTRIAN SIGNAL, F& LED COUNT, 2 WAYSEA\$1.333.14FDOTPEDESTRIAN SIGNAL, F& LED COUNT, 2 WAYSEA\$1.333.14FDOTSTREETLIGHTEA\$1.332.14FDOTNPAVEMENT LIGHTINGAVG TOTAL\$1.82.00.00Costs for Pedstrian & Bicyclists infrastructure improvements (2013)BUS STOP SHELTEREA\$773.07FDOTBENCH, F& LI, ALUMINUMEA\$773.07FDOTBUS STOP SHELTER, COMPLETE, SHELTER, LIGHTING, WASTE, SEATING, BIKE RACK\$43,300.00Town of Cutler BayBUS CHELTER, CONCERE, SHELTER, LIGHTING, WASTE, SEATING, BIKE RACK\$43,330.00Town of Cutler BayBUS CHELTER, COMPLETE, SHELTER, LIGHTING, WASTE, SEATING, BIKE	FLEXI-PAVE MATERIAL	SF	\$6.00	K.B. Industries Inc.			
THERMOPLASTIC, STD-OT, VELLOW, SOLID, 8" GM \$8,901.36 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 6" GM \$2,659.78 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 6" GM \$4,185.06 FDOT PAINTED PAVT MARK,STD, WHITE, SOLID, 2" (crosswalk) LF \$1.66 FDOT PAINTED PAVT MARK,STD, WHITE, SOLID, 2" (crosswalk) LF \$3.11 FDOT THERMOPLASTIC, STD, EDUE, SOLID, 6" LF \$7.50 FDOT THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol) EA \$273.87 FDOT THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol) EA \$1.332.14 FDOT THERMOPLASTIC, PREFORMED, WHITE, ARROW (bike arrow) EA \$1.332.14 FDOT PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS EA \$1.332.14 FDOT PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS EA \$1.332.14 FDOT PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS EA \$1.332.14 FDOT STREETLIGHT EA \$1.32.14 FDOT PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS EA \$7.50.8 FDOT STREETLIGHT EA \$1.32.00 Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013) BUS STOP SHELTER BENCH, F&I, ALUMINUM EA \$730.70 <	SIGNING & PAVEMENT MARKING						
THERMOPLASTIC, STD-OP, WHITE, SOLID, 6" GM \$3,659.78 FDOT THERMOPLASTIC, STD-OP, WHITE, SOLID, 8" GM \$4,885.06 FDOT PAINTED PAYT MARK, STD, WHITE, SOLID, 2" (rosswalk) LF \$1,66 FDOT PAINTED PAYT MARK, STD, WHITE, SOLID, 2" (rosswalk) LF \$3,11 FDOT PAINTED PAYT MARK, STD, WHITE, MSSAGE (bike symbol) LF \$273.87 FDOT THERMOPLASTIC, STD, BULF, SOLID, 6" LF \$273.87 FDOT THERMOPLASTIC, PREFORMED, WHITE, MSSAGE (bike symbol) EA \$273.87 FDOT THERMOPLASTIC, PREFORMED, WHITE, MSSAGE (bike symbol) EA \$213.87 FDOT SIGNAL & LIGHTING WHITE, MSSAGE (bike symbol) EA \$213.81.4 FDOT PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS EA \$13.33.14 FDOT STRETLIGHT EA \$3,600.00 Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013) IN-PAVEMENT LIGHTING MSG TOTAL \$18,250.00 Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013) IN-PAVEMENT LIGHTING EA \$29,894.23 FDOT BU	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	GM	\$3,655.54	FDOT			
THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"GM\$4,185.06FDOTPAINTED PAYT MARK, STD, WHITE, SOLID, 12" (crosswalk)LF\$1.66FDOTPAINTED PAYT MARK, STD, WHITE, SOLID, 24" (stop bar)LF\$3.11FDOTTHERMOPLASTIC, STD, BLUE, SOLID,6"LF\$7.50FDOTTHERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)EA\$273.87FDOTSIGNAL & LIGHTINGSIGNAL, FAI LED COUNT, 2 WAYSEA\$1.45FDOTPEDESTRIAN SIGNAL, FAI LED COUNT, 2 WAYSEA\$1.333.14FDOTPEDESTRIAN SIGNAL, FAI LED COUNT, 2 WAYSEA\$775.68FDOTPEDESTRIAN SIGNAL, FAI LED COUNT, 0 WAYSEA\$3.600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)IN-PAVEMENT LIGHTINGAVG TOTAL\$18,250.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)IN-PAVEMENT LIGHTINGEA\$730.70FDOTBUS STOP SHELTEREA\$730.70FDOTBUS SHELTER, FAR, UPTO SOEA\$29,894.23FDOTSIGNAL, SA ILUGHTING, WASTE, SEATING, BIKE RACKEA\$43,330.00Town of Cutler BayBICYCLE RACK, FURNISH & INSTALL, 2-6 BIEA\$43,330.00Town of Cutler BayBICYCLE RACK, FURNISH & INSTALL, 2-6 BIEA\$43,330.00Town of Cutler BayNATIVE PLANTSEA\$20,000.00FDOTLANDSCAPICOEA\$20,000.00FDOTLANDSCAPICOEA\$20,000.00FDOTLANDSCAPE COMPLETE- 10 TREES (12' to 15')EA\$2,000.00FDOT	THERMOPLASTIC, STD-OT, YELLOW, SOLID, 8"	GM	\$8,901.36	FDOT			
PAINTED PAVT MARK,STD,WHITE,SOLID,24" (stop bar)LF\$1.66FDOTPAINTED PAVT MARK,STD,WHITE,SOLID,24" (stop bar)LF\$3.11FDOTTHERMOPLASTIC, STD, BULD,SGUD,SGLF\$7.50FDOTTHERMOPLASTIC, STD, BULD, SGUD,SGEA\$273.87FDOTTHERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)EA\$91.45FDOTSIGNAL & LIGHTINGEA\$91.45FDOTPEDESTRIAN LIGHTING NETALEA\$1,332.14FDOTPEDESTRIAN LIGHTING NETALEA\$1,333.14FDOTPEDESTRIAN SIGNAL, F&ILED COUNT, ONE WAYSEA\$775.68FDOTSTREETLIGHTEA\$3,600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)IN-PAVEMENT LIGHTINGAVG TOTAL\$18,250.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)BUS STOP SHELTEREA\$730.70FDOTBUS STOP SHELTEREA\$293.94.23FDOTTOWN BUS SHELTER, F&IL UPT 50EA\$293.94.23FDOTINVBUS SHELTER, F&IL UPT 50EA\$543.37.1FDOTINVS RUCK, FURNISH & INSTAL, 2-6 BIEA\$660.89FDOTINDSCAPE COMPLETE- 10 TREEs (12' to 15')EA\$2,000.00FDOTLANDSCAPE COMPLETE- 10 TREES (12' to 15')EA\$2,000.00FDOTLANDSCAPE COMPLETE- 10 TREES (12' to 15')EA\$2,000.00FDOTLANDSCAPE COMPLETE- ALM TREESEA\$2,000.00FDOTLANDSCAPE COMPLETE- ALM TREESEA\$2,000.00FDOTLAN	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	GM	\$3,659.78	FDOT			
PAINTED PAVT MARK,STD,WHITE,SOLID,24" (stop bar)LF\$3.11FDOTTHERMOPLASTIC, STD, BLUE, SOLID,6"LF\$7.50FDOTTHERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)EA\$273.87FDOTTHERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)EA\$91.45FDOTSIGNAL & LIGHTINGEA\$1.322.14FDOTPEDESTRIAN LIGHTINGEA\$1.333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYSEA\$1.333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, ONE WAYSEA\$3.600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)STREETLIGHTEA\$3.600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)BUS STOP SHELTEREA\$730.70FDOTBUS STOP SHELTEREA\$50.00Town of Cutter BayBUCYCLE RACK, FURNISH & INSTALL, 2-6 BIEA\$660.89FDOTTASH/RECYCLE RECEPTACLEEA\$1.533.71FDOTLANDSCAPINGSF\$0.10https://greenvalues.cnt.org/national/cost_detail.phpNATIVE PLANTSSF\$0.10https://greenvalues.cnt.org/national/cost_detail.phpBINGSAPE COMPLETE- 10 TREES (12' to 15')EA\$1.500.00FDOTLANDSCAPE COMPLETE- AUM TREESEA\$1.500.00FDOTBINGSARDENSF\$1.500https://greenvalues.cnt.org/national/cost_detail.phpBINGARDENSF\$1.500https://greenvalues.cnt.org/national/cost_detail.php	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	GM	\$4,185.06	FDOT			
THERMOPLASTIC, SDL, BLUE, SOLID,6"LF\$7.50FDOTTHERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)EA\$273.87FDOTTHERMOPLASTIC, PREFORMED, WHITE, ARROW (bike arrow)EA\$91.45FDOTSIGNAL & LIGHTINGEA\$1,332.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYSEA\$1,333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYSEA\$1,333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 0NE WAYSEA\$775.68FDOTSTREETLIGHTEA\$3,600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)IN-PAVEMENT LIGHTINGAVG TOTAL\$18,250.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)BUS STOP SHELTEREA\$730.70FDOTBUS SHELTER, F&I, UPTO 50EA\$29,894.23FDOTOWN BUS SHELTER: CONCRETE, SHELTER, LIGHTING, WASTE, SEATING, BIKE RACKEA\$43,330.00Town of Cutler BayBICYCLE RACK, FURNISH & INSTALL, 2-6 BIEA\$1,533.71FDOTTRASH/RECYCLE RECEPTACLEEA\$1,533.71FDOTLANDSCAPINGSF\$0.10https://greenvalues.cnt.org/national/cost_detail.phpNATIVE PLANTSSF\$0.10https://greenvalues.cnt.org/national/cost_detail.phpIANDSAPENFDOTFDOTFDOTRANGARDENSF\$7.00https://greenvalues.cnt.org/national/cost_detail.phpBOSWALESSF\$15.00https://greenvalues.cnt.org/national/cost_detail.php	PAINTED PAVT MARK,STD,WHITE,SOLID, 12" (crosswalk)			FDOT			
THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)EA\$273.87FDOTSIGNAL & LIGHTINGSIGNAL & LIGHTINGPEDESTRIAN LIGHTING - METALEA\$1,332.14FDOTPEDESTRIAN LIGHTING - METALEA\$1,332.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYSEA\$1,333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYSEA\$1,333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 0NE WAYSEA\$77.68FDOTSTREETLIGHTEA\$3,600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)IN-PAVEMENT LIGHTINGAVG TOTAL\$18,250.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)BUS STOP SHELTERBENCH, F&I, ALUMINUMEA\$730.70FDOTBUS SHELTER, F&I, UPTO 50EA\$29,894.23FDOTTOWN BUS SHELTER, CONCRETE, SHELTER, LIGHTING, WASTE, SEATING, BIKE RACKEA\$43,330.00Town of Cutler BayBICYCLE RACK, FURNISH & INTALL, 2-6 BIEA\$15,33.71FDOTTAMSAPPELATERSF\$0.10https://greenvalues.cnt.org/national/cost_detail.phpIANDSCAPINGSF\$0.0FDOTNATIVE PLANTSSF\$0.00FDOTLANDSCAPE COMPLETE- 10 TREES (12' to 15')EA\$2,000.00FDOTLANDSCAPE COMPLETE- PALM							
THERMOPLASTIC, PREFORMED, WHITE, ARROW (bike arrow) EA \$91.45 FDOT SIGNAL & LIGHTING FDOT FDOT FDOT PEDESTRIAN LIGHTING - METAL EA \$1,332.14 FDOT PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS EA \$1,333.14 FDOT PEDESTRIAN SIGNAL, F&I LED COUNT, ONE WAYS EA \$775.68 FDOT STREETLIGHT EA \$3,600.00 Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013) IN-PAVEMENT LIGHTING AVG TOTAL \$18,250.00 Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013) BUS STOP SHELTER BENCH, F&I, ALUMINUM EA \$775.68 FDOT BUS STOP SHELTER EA \$730.70 FDOT EDT BUS SHELTER, F&I, LIGHTING, WASTE, SEATING, BIKE RACK EA \$29,894.23 FDOT DOWN BUS SHELTER: CONCRETE, SHELTER, LIGHTING, WASTE, SEATING, BIKE RACK EA \$660.89 FDOT BICYCLE RACK, FURNISH & INSTALL, 2-6 BI EA \$660.89 FDOT TASH/RECYCLE RECEPTACLE EA \$1,533.71 FDOT LANDSCAPE COMPLETE- 10 TREES (12' to 15') EA \$2,000.00 FDOT L							
SIGNAL & LIGHTING PEDESTRIAN LIGHTING - METAL PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS EA \$1,332.14 FDDT PEDESTRIAN SIGNAL, F&I LED COUNT, ONE WAYS EA \$1,333.14 FDDT PEDESTRIAN SIGNAL, F&I LED COUNT, ONE WAYS EA \$775.68 FDDT PEDESTRIAN SIGNAL, F&I LED COUNT, ONE WAYS EA \$775.68 FDDT STREETLIGHT EA SAGO0.00 Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013) IN-PAVEMENT LIGHTING AVG TOTAL BUS STOP SHELTER BENCH, F&I, ALUMINUM BENCH, F&I, ALUMINUM EA SYSSENETER FDOT BUS SHELTER, F&I, UPTO 50 EA TOWN BUS SHELTER, CONCRETE, SHELTER, LIGHTING, WASTE, SEATING, BIKE RACK EA SIGYCLE RACK, FURNISH & INSTALL, 2-6 BI EA SIGYCLE RACK, FURNISH & INSTALL, 2-6							
PEDESTRIAN LIGHTING - METALEA\$1,332.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYSEA\$1,333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, ONE WAYSEA\$775.68FDOTSTREETLIGHTEA\$3,600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)IN-PAVEMENT LIGHTINGAVG TOTAL\$18,250.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)BUS STOP SHELTERBENCH, F&I, ALUMINUMEA\$730.70FDOTBUS SHELTER, F&I, UPTO 50EA\$29,894.23FDOTTOWN BUS SHELTER, CONCRETE, SHELTER, LIGHTING, WASTE, SEATING, BIKE RACKEA\$43,330.00Town of Cutler BayBICYCLE RACK, FURNISH & INSTALL, 2-6 BIEA\$43,3171FDOTLANDSCAPINGEA\$1,533.71FDOTNATIVE PLANTSSF\$0.10https://greenvalues.cnt.org/national/cost_detail.phpLANDSCAPE COMPLETE- 10 TREES (12' to 15')EA\$20,000.00FDOTAINGARDENEA\$1,500.00FDOTBIOSWALESSF\$7.00https://greenvalues.cnt.org/national/cost_detail.php	THERMOPLASTIC, PREFORMED, WHITE, ARROW (DIRE arrow)	EA	\$91.45	FDOT			
PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYSEA\$1,333.14FDOTPEDESTRIAN SIGNAL, F&I LED COUNT, ONE WAYSEA\$775.68FDOTSTREETUIGHTEA\$3,600.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)IN-PAVEMENT LIGHTINGAVG TOTAL\$18,250.00Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)BUS STOP SHELTERBUS STOP SHELTEREA\$730.70FDOTBUS SHELTER, F&I, JUPTO 50EA\$29,894.23FDOTBUS SHELTER, F&I, UPTO 50EA\$43,330.00Town of Cutiler BayBICYCL RACK, FURNISH & INSTALL, 2-6 BIEA\$660.89FDOTIRASH/RECYCLE RACE/FICEEA\$1,533.71FDOTLANDSCAPINGSF\$0.01https://greenvalues.cnt.org/national/cost_detail.phpLANDSCAPE COMPLETE 10 TREES (12' to 15')EA\$2,000.00FDOTANTIVE PLANTSSF\$0.10https://greenvalues.cnt.org/national/cost_detail.phpRAINGARDENSF\$7.00https://greenvalues.cnt.org/national/cost_detail.phpBIOSWALESSF\$1.50.00FDOT	SIGNAL & LIGHTING	1					
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BICYCLE RACK, FURNISH & INSTALL, 2-6 BI EA \$660.89 FDOT TRASH/RECYCLE RECEPTACLE EA \$1,533.71 FDOT LANDSCAPING SF \$0.10 https://greenvalues.cnt.org/national/cost_detail.php LANDSCAPE COMPLETE- 10 TREES (12' to 15') EA \$2,000.00 FDOT LANDSCAPE COMPLETE- PALM TREES EA \$15,000.00 FDOT RAINGARDEN SF \$7.00 https://greenvalues.cnt.org/national/cost_detail.php BIOSWALES SF \$15.00 https://greenvalues.cnt.org/national/cost_detail.php		EA		Town of Cutler Bay			
LANDSCAPING NATIVE PLANTS SF \$0.10 https://greenvalues.cnt.org/national/cost_detail.php LANDSCAPE COMPLETE- 10 TREES (12' to 15') EA \$2,000.00 FDOT LANDSCAPE COMPLETE- PALM TREES EA \$15,000.00 FDOT LANDSCAPE COMPLETE- PALM TREES EA \$15,000.00 FDOT RAINGARDEN SF \$7.00 https://greenvalues.cnt.org/national/cost_detail.php BIOSWALES SF \$15.00 https://greenvalues.cnt.org/national/cost_detail.php	BICYCLE RACK, FURNISH & INSTALL, 2-6 BI	EA	\$660.89				
NATIVE PLANTS SF \$0.10 https://greenvalues.cnt.org/national/cost_detail.php LANDSCAPE COMPLETE- 10 TREES (12' to 15') EA \$2,000.00 FDOT LANDSCAPE COMPLETE- PALM TREES EA \$15,000.00 FDOT RAINGARDEN SF \$7.00 https://greenvalues.cnt.org/national/cost_detail.php BIOSWALES SF \$15.00 https://greenvalues.cnt.org/national/cost_detail.php	TRASH/RECYCLE RECEPTACLE	EA	\$1,533.71	FDOT			
LANDSCAPE COMPLETE- 10 TREES (12' to 15') EA \$2,000.00 FDOT LANDSCAPE COMPLETE- PALM TREES EA \$15,000.00 FDOT RAINGARDEN SF \$7.00 https://greenvalues.cnt.org/national/cost_detail.php BIOSWALES SF \$15.00 https://greenvalues.cnt.org/national/cost_detail.php	LANDSCAPING						
LANDSCAPE COMPLETE- 10 TREES (12' to 15') EA \$2,000.00 FDOT LANDSCAPE COMPLETE- PALM TREES EA \$15,000.00 FDOT RAINGARDEN SF \$7.00 https://greenvalues.cnt.org/national/cost_detail.php BIOSWALES SF \$15.00 https://greenvalues.cnt.org/national/cost_detail.php	NATIVE PLANTS	SF	\$0.10	https://greenvalues.cnt.org/national/cost_detail.php			
LANDSCAPE COMPLETE- PALM TREES EA \$15,000.00 FDOT RAINGARDEN SF \$7.00 https://greenvalues.cnt.org/national/cost_detail.php BIOSWALES SF \$15.00 https://greenvalues.cnt.org/national/cost_detail.php	LANDSCAPE COMPLETE- 10 TREES (12' to 15')	EA					
BIOSWALES SF \$15.00 https://greenvalues.cnt.org/national/cost_detail.php		EA		FDOT			
	RAINGARDEN	SF	\$7.00	https://greenvalues.cnt.org/national/cost_detail.php			
PLANTER BOXES SF \$8.00 https://greenvalues.cnt.org/national/cost_detail.php	BIOSWALES						
	PLANTER BOXES	SF	\$8.00	https://greenvalues.cnt.org/national/cost_detail.php			

AMENITIES			
BIKESHARE STATION (10 BIKES)	STATION	\$54,000.00	Bike Share Business & Implementation Plan (2016)
DOCKLESS BICYCLES	EA	\$1,000.00	https://www.alibaba.com
ELECTRIC BIKE SHARE (10 BIKES)	STATION	\$65,000.00	Bike Share Business & Implementation Plan (2016)
BICYCLE REPAIR STATION	EA	\$1,500.00	https://www.dero.com
BICYCLE STORAGE LOCKER	EA	\$2,140.00	Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)
BICYCLE TRAFFIC LIGHT	EA	\$1,000.00	Costs for Pedstrian & Bicyclists Infrastructure Improvements (2013)
SCOOTER SHARE	EA	\$0.00	Micromobility in Cities A History & Policy Overview (2018)
CAR SHARE STATION	EA	\$0.00	City of Miami Car Sharing Feasibility Study (2011)
EV CHARGING STATION (LEVEL II)	EA	\$8,000.00	Costs Associated with Non-Residential Electric Vehicle Supply Equipment, 2015
WiFi	EA	\$400.00	Planning & Implementing a WiFi Zone in Your Town (2014)
PARKING GARAGE: PARK & RIDE	SPACE	\$19,700.00	Parking Structure Cost Outlook (2017)
SHELTER WITH METAL CANOPY	EA	\$9,500.00	Alan's Factory Outlet
INFORMATION KIOSK (75" DISPLAY)	EA	\$6,000.00	https://www.alibaba.com
DIGITAL DISPLAY SIGN: REAL-TIME INFORMATION (9.26" X 70.71" X 1.65")	EA	\$400.00	https://www.alibaba.com
PACKAGE PICKUP KIOSK	EA	\$0.00	Guta, Michael (29, Dec. 2017). "What is Amazon Locker and How Can It Benefit Your Business." Small Business Trends
PUBLIC ART - VARIES	EA	Varies	
PUBLIC ART - BOX WRAP	EA	\$1,000.00	The Southeast Como Improvement Association
AIR MISTING SYSTEM	EA	\$5,000.00	https://www.costowl.com
SECURITY CAMERA	EA	\$600.00	https://www.homeadvisor.com
EMERGENCY CALLBOX	EA	\$5,500.00	US DOT
LIBRARY SHARE	SF	\$200.00	https://littlefreelibrary.org
USB CHARGING STATION (10 PHONES)	EA	\$1,500.00	https://kwikboost.com/
WAYFINDING	PLAN	\$40,000.00	https://guidestudio.com
Notes:	CONTINGENCY	10%	
1. MEI has no control over competitive bidding or market conditions or the cost of	DESIGN	20%	
labor, materials, equipment, or over the contractor's methods of determining	SURVEY	F9/	
prices. The quantites and pricing used in the Opinion of Probable Cost were composed based on FDOT historical cost and our engineering opinion and judgement. Opinions		5%	
of Probable Cost represent only the Engineers judgement as a design professional	CEI	5%	
familiar with the construction industry. MEI nor the signing Engineer cannot and does			
not guarantee that proposals, bids, or actual construction cost will not vary from the values stated in this document.	GRAND	TOTAL	

	OPINION OF PROBABLE CO CUTLER BAY Regional Mobility Hubs Plan: Regional H		112 Ave &	US 1)		
Day Itom	Miami-Dade County	Linit	0.54	linit Cost	Cost	
Pay Item	Description	Unit	Qty	Unit Cost	Cost	
ROADWAY INFF			1	1	1	
0101 1	MOBILIZATION (10%)	LS		10%	\$27,687.14	
0102 1	MOT (8%)	LS/DA		8%	\$22,149.71	
0104 10 3	SEDIMENT BARRIER	LF	1,000.00	\$1.92	\$1,920.00	
0104 18	INLET PROTECTION SYSTEM	EA	4.00	\$63.21	\$252.84	
0110 1 1	CLEARING & GRUBBING	AC	0.12	\$25,942.11	\$3,113.05	
0110 4 10	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	490.00	\$18.17	\$8,903.30	
0120 1	REGULAR EXCAVATION	СҮ	147.04	\$7.29	\$1,071.90	
120-6	EMBANKMENT	CY	147.04	\$8.51	\$1,251.29	
160-4	STABILIZATION TYPE B	SY	570.00	\$0.23	\$131.10	
285-7AA-	OPTIONAL BASE, BASE GROUP 10	SY	570.00	\$13.03	\$7,427.10	
0327 70 5	MILLING EXISTING ASPHALT PAVEMENT 1"	SY	46.00	\$5.27	\$242.42	
0337 7 83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	TN	14.63	\$146.57	\$2,144.81	
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	7.32	\$114.40	\$837.03	
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	173.00	\$22.50	\$3,892.50	
0522 1	CONCRETE, 4" THICK - SIDEWALK	SY	445.11	\$37.64	\$16,753.98	
0522 2	CONCRETE, 6" THICK - CURB RAMPS	SY	124.44	\$47.03	\$5,852.62	
0522 4	BUS SHELTER PAD - CONCRETE	SY	65.11	\$205.40	\$13,373.82	
0526 1 2	PAVERS, ARCHITECTURAL, SIDEWALK	SY	1,272.22	\$103.17	\$131,255.17	
0527 2	PED DETECTABLE WARNINGS	SF	497.00	\$25.12	\$12,484.64	
0570 1 2	PERFORMANCE TURF, SOD	SY	524.56	\$2.60	\$1,363.84	
0580 1 1	LANDSCAPE COMPLETE- SMALL PLANTS - 10 tress - 12' to 15'	EA	23.00	\$2,000.00	\$46,000.00	
	SHELTER WITH METAL CANOPY AT KISS-N-RIDE	EA	2.00	\$3,300.00	\$6,600.00	
	SHELTER INSTALLATION	EA	2.00	\$6,000.00	\$12,000.00	
		TOTAL RO	ADWAY	·	\$326,708.26	
SIGNING & PAV	EMENT MARKING	<u></u>				
0711 15201	THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6"	GM	0.030	\$3,655.54	\$110.77	
0711 15101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	GM	0.070	\$3,659.78	\$256.46	
0710 11170	PAINTED PAVT MARK,STD,WHITE, ARROWS	EA	3.000	\$20.01	\$60.03	
0711 11123	PAINTED PAVT MARK,STD,WHITE,SOLID, 12" (crosswalk)	LF	1350.000	\$1.66	\$2,241.00	
0711 11125	PAINTED PAVT MARK,STD,WHITE,SOLID,24" (stop bar)	LF	2310.000	\$3.11	\$7,184.10	
0700 1 11	SINGLE POST SIGN, F&I GM, <12 SF	EA	10.00	\$358.22	\$3,582.20	
		-	NING & MA		\$13,434.57	
Notes:		SUB TOTA			\$340,142.83	
1. MEI has no cor	trol over competitive bidding or market conditions or the cost of labor, materials,			10%	\$34,014.28	
	r the contractor's methods of determining prices. The quantites and pricing used in the le Cost were composed based on FDOT historical cost and our engineering opinion and	DESIGN		20%	\$68,028.57	
	ons of Probable Cost represent only the Engineers judgement as a design professional					
	construction industry. MEI nor the signing Engineer cannot and does not guarantee that	SURVEY 5%			\$0.00	
	actual construction cost will not vary from the values stated in this document.	CEI		5%	\$17,007.14	
			GRAND TO	TAL	\$459,192.82	

OPINION OF PROBABLE COST

CUTLER BAY Regional Mobility Hubs Plan: Community Hub (SW 200 St. & US 1)

Miami-Dade County

Pay Item	Description	Unit	Qty	Unit Cost	Cost	
ROADWAY INFR	ASTRUCTURE					
0101 1	MOBILIZATION (10%)	LS		10%	\$36,326.26	
0102 1	MOT (8%)	LS/DA		8%	\$29,061.01	
0104 10 3	SEDIMENT BARRIER	LF	700.00	\$1.92	\$1,344.00	
0104 18	INLET PROTECTION SYSTEM	EA	4.00	\$63.21	\$252.84	
0110 1 1	CLEARING & GRUBBING	AC	0.65	\$25,942.11	\$16,862.37	
0110 4 10	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	364.00	\$18.17	\$6,613.88	
0120 1	REGULAR EXCAVATION	СҮ	2,350.00	\$7.29	\$17,131.50	
120-6	EMBANKMENT	СҮ	2,350.00	\$8.51	\$19,998.50	
160-4	STABILIZATION TYPE B	SY	3,080.00	\$0.23	\$708.40	
285-7AA-	OPTIONAL BASE, BASE GROUP 10	SY	3,080.00	\$13.03	\$40,132.40	
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	231.00	\$114.40	\$26,426.40	
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	420.00	\$22.50	\$9,450.00	
0522 1	CONCRETE, 4" THICK - SIDEWALK	SY	1,477.22	\$37.64	\$55,602.64	
0522 2	CONCRETE, 6" THICK - CURB RAMPS	SY	90.00	\$47.03	\$4,232.70	
0522 4	BUS SHELTER PAD - CONCRETE	SY	9.00	\$205.40	\$1,848.60	
0526 1 2	PAVERS, ARCHITECTURAL, SIDEWALK	SY	364.00	\$103.17	\$37,553.88	
0527 2	PED DETECTABLE WARNINGS	SF	270.00	\$25.12	\$6,782.40	
0570 1 2	PERFORMANCE TURF, SOD	SY	988.89	\$2.60	\$2,571.11	
0580 1 1	LANDSCAPE COMPLETE- 10 TREES - 12' to 15'	EA	40.00	\$2,000.00	\$80,000.00	
0550 10210	FENCING, TYPE B, 0.0-5.0', STANDARD FEAT	LF	75.00	\$22.53	\$1,689.75	
	SHELTER WITH METAL CANOPY AT KISS-N-RIDE	EA	1.00	\$12,086.25	\$12,086.25	
	SHELTER INSTALLATION	EA	1.00	\$21,975.00	\$21,975.00	
		TOTAL RO	\$428,649.90			
SIGNING & PAV	EMENT MARKING					
0711 15101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	GM	0.221	\$3,659.78	\$807.51	
0710 11170	PAINTED PAVT MARK,STD,WHITE, ARROWS	EA	3.000	\$20.01	\$60.03	
0711 11123	PAINTED PAVT MARK,STD,WHITE,SOLID, 12" (crosswalk)	LF	860.000	\$1.66	\$1,427.60	
0711 11125	PAINTED PAVT MARK,STD,WHITE,SOLID,24" (stop bar)	LF	1006.000	\$3.11	\$3,128.66	
0700 1 11	SINGLE POST SIGN, F&I GM, <12 SF	EA	1.00	\$358.22	\$358.22	
		TOTAL SIG	NING & MAI	RKING	\$5,782.02	
Notes:		SUB TOTA	L		\$434,431.92	
	trol over competitive bidding or market conditions or the cost of labor, materials, r the contractor's methods of determining prices.The quantites and pricing used in the	CONTINGE	NCY	10%	\$43,443.19	
	le Cost were composed based on FDOT historical cost and our engineering opinion and	DESIGN		20%	\$86,886.38	
	ns of Probable Cost represent only the Engineers judgement as a design professional	SURVEY		5%	\$0.00	
-	onstruction industry. MEI nor the signing Engineer cannot and does not guarantee that actual construction cost will not vary from the values stated in this document.	CEI 5%			\$21,721.60	
, .,, .,, .,					, ,	
			\$586,483.09			
			GRAND TO		9300, 4 03.03	

	OPINION OF PROBABLE CO CUTLER BAY Regional Mobility Hubs Plan: Neighborhohod Miami-Dade County		85 Ave &	SW 212 St)	
Pay Item	Description	Unit	Qty	Unit Cost	Cost
ROADWAY INFR	ASTRUCTURE				
0101 1	MOBILIZATION (10%)	LS		10%	\$29,318.47
0102 1	MOT (8%)	LS/DA		8%	\$23,454.78
0104 10 3	SEDIMENT BARRIER	LF	1,731.00	\$1.92	\$3,323.52
0104 18	INLET PROTECTION SYSTEM	EA	4.00	\$63.21	\$252.84
0110 1 1	CLEARING & GRUBBING	AC	0.59	\$25,942.11	\$15,378.56
0110 4 10	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	350.00	\$18.17	\$6,359.50
0120 1	REGULAR EXCAVATION	СҮ	16.11	\$7.29	\$117.45
120-6	EMBANKMENT	СҮ	16.11	\$8.51	\$137.10
160-4	STABILIZATION TYPE B	SY	96.67	\$0.23	\$22.23
285-7AA-	OPTIONAL BASE, BASE GROUP 10	SY	96.67	\$13.03	\$1,259.57
0327 70 5	MILLING EXISTING ASPHALT PAVEMENT 1"	SY	96.67	\$5.27	\$509.43
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	4.71	\$114.40	\$538.63
0337 7 83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	TN	4.71	\$146.57	\$690.34
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	140.00	\$22.50	\$3,150.00
0522 1	CONCRETE, 4" THICK - SIDEWALK	SY	46.67	\$37.64	\$1,756.53
0522 2	CONCRETE, 6" THICK - CURB RAMPS	SY	50.00	\$47.03	\$2,351.50
0522 4	BUS SHELTER PAD - CONCRETE	SY	30.00	\$205.40	\$6,162.00
	BIKELANE CONSTRUCTION				
0523 1 3	NORTHSIDE - PATTERNED PAVEMENT, VEHIC AREAS (Bike Lane) - 4 feet bike lane on SW 85 Ave from SW 207th St. to South of SW 212 St	SY	977.78	\$88.73	\$86,758.22
	SOUTHSIDE				
0110 1 1	CLEARING & GRUBBING	AC	0.10	\$25,942.11	\$2,594.21
0120 1	REGULAR EXCAVATION	СҮ	40.74	\$7.29	\$297.00
120-6	EMBANKMENT	CY	40.74	\$8.51	\$346.70
160-4	STABILIZATION TYPE B	SY	244.44	\$0.23	\$56.22
285-7AA-	OPTIONAL BASE, BASE GROUP 10	SY	244.44	\$13.03	\$3,185.05
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	18.33	\$114.40	\$2,097.33
0337 7 83 0523 1 3	ASPH CONC FC, TRAFFIC C, FC-12.5, PG 76-22 PATTERNED PAVEMENT, VEHIC AREAS (Bike Lane) - 4 feet bike lane on SW 85	TN SY	9.17 977.78	\$146.57 \$88.73	\$1,344.05 \$86,758.22
	Ave from SW 207th St. to South of SW 212 St		100.00	405.40	40 - 10 00
0527 2	PED DETECTABLE WARNINGS	SF	108.00	\$25.12	\$2,712.96
0570 1 2	PERFORMANCE TURF, SOD	SY	394.44	\$2.60	\$1,025.56
0580 1 1	LANDSCAPE COMPLETE- SMALL PLANTS - 10 tress - 12' to 15'	EA	32.00	\$2,000.00	\$64,000.00
		TOTAL RO	ADWAY		\$345,957.99
			0.010	40.055.54	4
0711 15201	THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6"	GM	0.316	\$3,655.54	\$1,156.20
0711 15101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	GM	0.625	\$3,659.78	\$2,287.36
0711 16131 0710 11160	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6" PAINTED PAVT MARK,STD,WHITE, MESSAGE	GM EA	0.021	\$1,375.45 \$34.46	\$28.66 \$34.46
0710 11160	PAINTED PAVT MARK,STD,WHITE, MESSAGE PAINTED PAVT MARK,STD,WHITE, ARROWS	EA	1.000 7.000	\$34.46	\$34.46
0710 11290	PAINTED PAVT MARK,STD,WHTE, ARROWS PAINTED PAVT MARK,STD,YELLOW,ISLAND NOSE	SF	200.000	\$3.49	\$698.00
0711 11123	PAINTED PAVT MARK,STD,WHITE,SOLID, 12" (crosswalk)	LF	420.000	\$1.66	\$697.20
0711 11125 0711 11125	PAINTED PAVT MARK,STD,WHTE,SOLID,22" (closswark)	LF	600.000	\$3.11	\$1,866.00
0711 11120 0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)	EA	2.000	\$273.87	\$547.74
0711 14100 0711 14170	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE (bike symbol)	EA	2.000	\$91.45	\$182.90
0700 1 11	SINGLE POST SIGN, F&I GM/LD, WITTL, ANIOW (Sike allow)	EA	6.00	\$358.22	\$2,149.32
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			NING & MA		\$7,638.59
Notes:					
	ntrol over competitive bidding or market conditions or the cost of labor, materials,	SUB TOTA			\$353,596.58
	er the contractor's methods of determining prices. The quantites and pricing used in the	CONTING	NCY	10%	\$35,359.66
	ble Cost were composed based on FDOT historical cost and our engineering opinion and	DESIGN		20%	\$70,719.32
	ons of Probable Cost represent only the Engineers judgement as a design professional	SURVEY 5%			\$0.00
	construction industry. MEI nor the signing Engineer cannot and does not guarantee that r actual construction cost will not vary from the values stated in this document.	CEI		5%	\$17,679.83
			0.0.1		
			GRAND TO	DTAL	\$477,355.38

	CUTLER BAY REGIONAL MOBILITY HUB								
Recommendation Items	Unit	Measurement	Pri	ce	Quantity	Со	st		
Bikeshare Station	EA	10 Bikes	\$	54,000.00	1	\$	54,000.00		
Mechanical Box Wraps	EA	\$15/SF - Avg Price for Material & Install	\$	1,000.00	1	\$	1,000.00		
USB Charging Station	EA	Free Standing Station for 10 phones	\$	1,500.00	1	\$	1,500.00		
Bicycle Storage Locker	EA	Equipment & Installation	\$	2,140.00	6	\$	12,840.00		
Carshare		РРР	\$	-		\$	-		
Package Kiosk	EA	Amazon Locker	\$	-	1				
Security Camera	EA	Equipment & Installation	\$	600.00	4	\$	2,400.00		
Bicycle Repair Station	EA	Equipment & Installation	\$	1,500.00	1	\$	1,500.00		
Bicycle Signal	EA	Equipment	\$	1,000.00	2	\$	2,000.00		
Emergency Callbox	EA	Unit & Construction	\$	5,500.00	3	\$	16,500.00		
Real Time Information Signage	EA	Unit	\$	400.00	3	\$	1,200.00		
Recycle Receptacle	EA	Unit	\$	500.00	2	\$	1,000.00		
Library Share	EA	Equipment, Install & Registration	\$	200.00	1	\$	200.00		
Info Kiosk	EA	75" Digital Display Board	\$	6,000.00	1	\$	6,000.00		
WIFI	EA	Equipment & Installation		\$400.00	1	\$	400.00		
EV Charging Stations	EA	Equipment & Installation	\$	8,000.00	6	\$	48,000.00		
Air Misting System	EA	Equipment & Installation		\$5,000.00	1	\$	5,000.00		
Total Investment						\$	153,540.00		
Minimum Investment									

	MIAMI HEIGHTS COMMUNITY MOBILITY HUB									
Recommendation List	Unit	Measurement	Price		Quantity	Cos	t			
Standard Town Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$	43,330.00	2	\$	86,660.00			
Real Time Information Signage	EA	Equipment & Installation		\$400.00	5	\$	2,000.00			
EV Charging Stations	EA	Equipment & Installation	\$	8,000.00	4	\$	32,000.00			
Bikeshare Station	EA	10 Bikes	\$	54,000.00	1	\$	54,000.00			
Bicycle Storage Locker	EA	Equipment & Installation	\$	2,140.00	3	\$	6,420.00			
Carshare		РРР				\$	-			
USB Charging Station	EA	Free Standing Station for 10 phones	\$	1,500.00	1	\$	1,500.00			
Package Kiosk	EA	Amazon Locker	\$	-	1					
Security Camera	EA	Equipment & Installation	\$	600.00	5	\$	3,000.00			
Emergency Callbox	EA	Unit & Construction	\$	5,500.00	5	\$	27,500.00			
Library Share	EA	Equipment, Install & Registration	\$	200.00	1	\$	200.00			
Mechanical Box Wraps	EA	\$15/SF - Avg. Cost of Installation & Material	\$	1,000.00	1	\$	1,000.00			
		OPTIONAL:								
Bicycle Signal	EA	Equipment	\$	1,000.00	2	\$	2,000.00			
Bicycle Repair Station	EA	Equipment & Installation	\$	1,500.00	1	\$	1,500.00			
Info Kiosk	EA	75" Digital Display Board	\$	6,000.00	1	\$	6,000.00			
WiFi	EA	Equipment & Installation		\$400.00	1	\$	400.00			
Air Misting System	EA	Equipment & Installation		\$5,000.00	2	\$	10,000.00			
Total Investment						\$ 2	34,180.00			
Minimum Investment	Minimum Investment \$ 214,280.00									

	EUREKA DRIVE COMMUNITY MOBILITY HUB								
Amenity Recommendations	Unit	Measurement	P	rice	Quantity	Cos	st		
Standard Town Bus Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$	43,330.00	1	\$	43,330.00		
Library Share	EA	Equipment, Install & Registration	\$	200.00	1	\$	200.00		
Bikeshare Station	EA	10 Bikes	\$	54,000.00	1	\$	54,000.00		
Mechanical Box Wraps	EA	\$15/SF / Approx. Cost Material & Install	\$	1,000.00	1	\$	1,000.00		
Emergency Callbox	EA	Unit & Construction	\$	5,500.00	1	\$	5,500.00		
USB Charging Station	EA	Free Standing Station for 10 phones	\$	1,500.00	1	\$	1,500.00		
Bicycle Storage Locker	EA	Equipment & Installation	\$	2,140.00	4	\$	8,560.00		
EV Charging Stations	EA	Equipment & Installation	\$	8,000.00	4	\$	32,000.00		
Security Camera	EA	Equipment & Installation	\$	600.00	1	\$	600.00		
Real Time Information Signage	EA	Unit	\$	400.00	1	\$	400.00		
		Optional:							
Carshare						\$	-		
Package Kiosk	EA	Amazon Locker	\$	-					
Bicycle Repair Station	EA	Equipment & Installation	\$	1,500.00	1	\$	1,500.00		
Bicycle Signal	EA	Equipment	\$	1,000.00	4	\$	4,000.00		
Info Kiosk	EA	75" Digital Display Board	\$	6,000.00	1	\$	6,000.00		
Air Misting System	EA	Equipment & Installation		\$5,000.00	1	\$	5,000.00		
TOTAL INVESTMENT						\$	163,590.00		
Minimum Investment						\$	147,090.00		

	TOWN CENTER COMMUNITY MOBILITY HUB									
Recommendation List	Unit	Measurement	Price	Quantity	Cost					
Mechanical Box Wraps	EA	\$15/SF - Avg Cost Material & Install	\$1,000.00	3	\$ 3,000.00					
Bike Rental Station	EA	10 Bikes	\$54,000.00	1	\$ 54,000.00					
Recycle Receptacle	EA	Equipment & Installation	\$500.00	2	\$ 1,000.00					
Real Time Information Signage	EA	Equipment & Installation	\$400.00	2	\$ 800.00					
Library Share	EA	Equipment, Install & Registration	\$200.00	1	\$ 200.00					
Info Kiosk	EA	75" Digital Display Board	\$6,000.00	1	\$ 6,000.00					
USB Charging Station	EA	Free Standing Station for 10 phones	\$1,500.00	1	\$ 1,500.00					
EV Charging Stations	EA	Equipment & Installation	\$8,000.00	2	\$ 16,000.00					
Security Camera	EA	Equipment & Installation	\$600.00	2	\$ 1,200.00					
Emergency Call Box	EA	Unit & Construction	\$5 <i>,</i> 500.00	2	\$ 11,000.00					
		Optional:			\$-					
Bicycle Storage Locker	EA	Equipment & Installation	\$2,140.00	2	\$ 4,280.00					
Carshare		РРР	\$0.00		\$-					
Package Kiosk	EA	РРР	\$0.00	1	\$-					
Bicycle Repair Station	EA	Equipment & Installation	\$1,500.00	1	\$ 1,500.00					
Air Misting System	EA	Equipment & Installation	\$5,000.00	2	\$ 10,000.00					
WIFI	EA	Equipment & Installation	\$400.00	1	\$ 400.00					
Total Investment					\$110,880.00					
Minimum Investment					\$ 94,700.00					

COMMUNITY HEALTH NEIGHBORHOOD HUB									
Amenities Recommendation List	Unit	Measurement	Price		Quantity	Cost			
Shelter	EA	Standard Shelter	\$	29,894.23	2	\$59,788.46			
Bench	EA	Aluminum	\$	730.70	2	\$1,461.40			
Bike Rack	EA	2-6 Bikes	\$	660.89	2	\$1,321.78			
Bike Rental Station	EA	Station - 10 Bikes	\$	54,000.00	1	\$54,000.00			
Bicycle Storage Locker	EA	Equipment & Installation	\$	2,140.00	2	\$4,280.00			
USB Charging Station	EA	Free Standing Station for 10 phones	\$	1,500.00	1	\$1,500.00			
Security Camera	EA	Equipment & Installation	\$	600.00	2	\$1,200.00			
Trash/Recycle Receptacle	EA	Equipment & Installation	\$	500.00	2	\$1,000.00			
Real Time Information Signage	EA	Equipment & Installation	\$	400.00	2	\$800.00			
Library Share	EA	Equipment, Install & Registration	\$	200.00	1	\$200.00			
Emergency Call Box	EA	Unit & Construction	\$	5,500.00	1	\$5,500.00			
		Optional:							
EV Charging Stations	EA	Equipment & Installation	\$	8,000.00	2	\$16,000.00			
Package Kiosk	EA	PPP	\$	-	1	\$0.00			
Info Kiosk	EA	75" Digital Display Board	\$	6,000.00	1	\$6,000.00			
Air Misting System	EA	Equipment & Installation	\$	5,000.00	2	\$10,000.00			
Carshare		РРР	\$	-		\$0.00			
WIFI	EA	Equipment & Installation	\$	400.00	1	\$400.00			
Total Investment						\$163,451.64			
Minimum Investment						\$131,051.64			

	WHISPERING PINES NEIGHBORHOOD HUB									
Amenity Recommendations	Unit	Measurement	Price	Quantity	Cos	st				
Standard Town Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$43,330.00	2	\$	86,660.00				
Real Time Information Signage	EA	Equipment & Installation	\$400.00	2	\$	800.00				
Library Share	EA	Equipment, Install & Registration	\$200.00	1	\$	200.00				
Bike Share	EA	Station - 10 Bikes	\$54,000.00	1	\$	54,000.00				
USB Charging Station	EA	Free Standing Station for 10 phones	\$1,500.00	1	\$	1,500.00				
Emergency Callbox	EA	Equipment & Installation	\$5,500.00	2	\$	11,000.00				
		Optional:			\$	-				
Bicycle Signal	EA	Equipment	\$1,000.00	4	\$	4,000.00				
Air Misting System	EA	Equipment & Installation	\$5,000.00	2	\$	10,000.00				
Security Camera	EA	Equipment & Installation	\$600.00	2	\$	1,200.00				
Total Investment					\$:	169,360.00				
Minimum Investment					\$:	154,160.00				

		PINE WOOD NEIGHBORHOOD MOBILITY HUB				
Amentiy Recommendations	Unit	Measurement	Price	Quantity	Cos	st
Standard Town Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$43,330.00	2	\$	86,660.00
Real Time Information Signage	EA	Equipment & Installation	\$ 400.00	2	\$	800.00
Bike Share	EA	Station - 10 Bikes	\$ 54,000.00	1	\$	54,000.00
Emergency Callbox	EA	Equipment & Installation	\$ 5,500.00	2	\$	11,000.00
Mechanical Box Wrap	EA	\$15/SF - Avg Material & Install	\$ 1,000.00	5	\$	5,000.00
Library Share	EA	Equipment, Install & Registration	\$ 200.00	1	\$	200.00
USB Charging Station	EA	Free Standing Station for 10 phones	\$ 1,500.00	1	\$	1,500.00
		OPTIONAL:			\$	-
WiFi	EA	Equipment & Installation	\$ 400.00	1	\$	400.00
Security Camera	EA	Equipment & Installation	\$ 600.00	2	\$	1,200.00
Air Misting System	EA	Equipment & Installation	\$ 5,000.00	2	\$	10,000.00
Package Kiosk	EA	РРР	\$ -	1	\$	-
Total Investment					\$	170,760.00
Minimum Investment					\$	157,660.00

		THE ISLES NEIGHBORHOOD MOBILITY HUB					
Amenity Recommendations	Unit	Measurement	Price	Quantity	Co	ost	
Standard Town Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$43,330.00	1	\$	43,330.00	
Real Time Information Signage	EA	Equipment & Installation	\$400.00	1	\$	400.00	
USB Charging Station	EA	Free Standing Station for 10 phones	\$1,500.00	1	\$	1,500.00	
Bike Share	EA	Station - 10 Bikes	\$54,000.00	1	\$	54,000.00	
Emergency Callbox	EA	Equipment & Installation	\$5,500.00	1	\$	5,500.00	
Library Share	EA	Equipment, Install & Registration	\$200.00	1	\$	200.00	
OPTIONAL: \$							
WiFi	EA	Equipment & Installation	\$400.00	1	\$	400.00	
Package Kiosk	EA	РРР	\$0.00	1	\$	-	
Security Camera	EA	Equipment & Installation	\$600.00	1	\$	600.00	
Carshare		РРР	\$0.00		\$	-	
EV Charging	EA	Equipment & Installation	\$8,000.00	2	\$	16,000.00	
Air Misting System	EA	Equipment & Installation	\$5,000.00	1	\$	5,000.00	
Bicycle Repair Station	EA	Equipment & Installation	\$1,500.00	1	\$	1,500.00	
Total Investment					\$	128,430.00	
Minimum Investment					\$:	104,930.00	

	MARLIN ROAD COMMUNITY MOBILITY HUB										
Amenity Recommendations	Unit	Measurement	Price	Quantity	Cost						
Standard Town Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$43,330.00	2	\$ 86,660.00						
Real Time Information Signage	EA	Equipment & Installation	\$ 400.00	2	\$ 800.00						
Bike Share	EA	Station - 10 Bikes	\$ 54,000.00	1	\$ 54,000.00						
Emergency Callbox	EA	Equipment & Installation	\$ 5,500.00	2	\$ 11,000.00						
Mechanical Box Wrap	EA	\$15/SF - Price is Avg. for Installation & Material	\$ 1,000.00	1	\$ 1,000.00						
Library Share	EA	Equipment, Install & Registration	\$ 200.00	1	\$ 200.00						
USB Charging Station	EA	Free Standing Station for 10 phones	\$ 1,500.00	1	\$ 1,500.00						
Security Camera	EA	Equipment & Installation	\$ 600.00	2	\$ 1,200.00						
EV Charging	EA	Equipment & Installation	\$ 8,000.00	3	\$ 24,000.00						
Carshare		PPP	\$-		\$-						
Bicycle Storage Locker	EA	Equipment & Installation	\$ 2,140.00	2	\$ 4,280.00						
		OPTIONAL:			\$-						
WiFi	EA	Equipment & Installation	\$ 400.00	1	\$ 400.00						
Package Kiosk	EA	РРР	\$-	1	\$-						
Bicycle Repair Station	EA	Equipment & Installation	\$ 1,500.00	1	\$ 1,500.00						
Bicycle Signal	EA	Equipment	\$ 1,000.00	2	\$ 2,000.00						
Info Kiosk	EA	75" Digital Display Board	\$ 6,000.00	1	\$ 6,000.00						
Air Misting System	EA	Equipment & Installation	\$ 5,000.00	2	\$ 10,000.00						
Total Investment					\$ 204,540.00						
Minimum Investment					\$ 104,430.00						

SOUTH DADE COMMUNITY MOBILITY HUB										
Amenity Recommendations	Unit	Measurement	Price	Quantity	Price					
Standard Town Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$43,330.00	2	\$86,660.00					
Real Time Information Signage	EA	Equipment & Installation	\$400.00	2	\$800.00					
USB Charging Station	EA	Free Standing Station for 10 phones	\$1,500.00	1	\$1,500.00					
Bike Share	EA	Station - 10 Bikes	\$54,000.00	1	\$54,000.00					
Bicycle Storage Locker	EA	Equipment & Installation	\$2,140.00	4	\$8,560.00					
Emergency Callbox	EA	Unit & Construction	\$5,500.00	2	\$11,000.00					
Mechanical Box Wrap	EA	\$15/SF: Price is Avg. for installation & material	\$1,000.00	7	\$7,000.00					
Package Kiosk	EA	РРР	\$0.00	1	\$0.00					
Carshare		РРР	\$0.00		\$0.00					
EV Charging	EA	Equipment & Installation	\$8,000.00	2	\$16,000.00					
Security Camera	EA	Equipment & Installation	\$600.00	2	\$1,200.00					
Library Share	EA	Equipment, Install & Registration	\$200.00	1	\$200.00					
		OPTIONAL:								
WiFi	EA	Equipment & Installation	\$400.00	1	\$400.00					
Bicycle Repair Station	EA	Equipment & Installation	\$1,500.00	1	\$1,500.00					
Bicycle Signal	EA	Equipment	\$1,000.00	8	\$8,000.00					
Air Misting System	EA	Equipment & Installation	\$5,000.00	2	\$10,000.00					
Info Kiosk	EA	75" Digital Display Board	\$6,000.00	1	\$6,000.00					
Total Investment					\$212,820.00					
Minimum Investment					\$186,920.00					

	LA	KES BY THE BAY NEIGHBORHOOD MOBILITY HUB							
Amenity Recommendations	Unit	Measurement	Price	Quantity	Cost				
Recycle Receptacle	EA	Equipment & Installation	\$500.00	2	\$1,000.00				
Real Time Information Signage	EA	Equipment & Installation	\$400.00	2	\$800.00				
Bike Share	EA	Station - 10 Bikes	\$54,000.00	1	\$54,000.00				
Emergency Callbox	EA	Equipment & Installation	\$5,500.00	2	\$11,000.00				
Mechanical Box Wrap	EA	\$15/SF: Price is Avg. for installation & material	\$1,000.00	2	\$2,000.00				
Library Share	EA	Equipment, Install & Registration	\$200.00	1	\$200.00				
	OPTIONAL:								
WiFi	EA	Equipment & Installation	\$400.00	1	\$400.00				
Security Camera	EA	Equipment & Installation	\$600.00	2	\$1,200.00				
USB Charging Station	EA	Free Standing Station for 10 phones	\$1,500.00	1	\$1,500.00				
Bicycle Repair Station	EA	Equipment & Installation	\$ 1,500.00	1	\$1,500.00				
Air Misting System	EA	Equipment & Installation	\$5,000.00	2	\$10,000.00				
Bicycle Storage Locker	EA	Equipment & Installation	\$ 2,140.00	2	\$4,280.00				
Total Investment					\$87,880.00				
Minimum Investment					\$61,600.00				

	EUREKA DRIVE EAST NEIGHBORHOOD HUB											
Amenity Recommendations	Unit	Measurement	Price	Quantity	Cost							
Standard Town Shelter	EA	Shelter, Seating, Garbage, Bike Rack, Lighting, Concrete	\$43,330.00	1	\$43,330.00							
Real Time Information Signage	EA	Equipment & Installation	\$400.00	1	\$400.00							
Bike Share	EA	Station - 10 Bikes	\$54,000.00	1	\$54,000.00							
Emergency Callbox	EA	Equipment & Installation	\$5,500.00	1	\$5,500.00							
USB Charging Station	EA	Free Standing Station for 10 phones	\$1,500.00	1	\$1,500.00							
Library Share	EA	Equipment, Install & Registration	\$200.00	1	\$200.00							
	OPTIONAL:											
Security Camera	EA	Equipment & Installation	\$600.00	1	\$600.00							
WiFi	EA	Equipment & Installation	\$400.00	1	\$400.00							
Package Kiosk	EA	РРР	\$0.00	1	\$0.00							
Bicycle Repair Station	EA	Equipment & Installation	\$1,500.00	1	\$1,500.00							
Bicycle Signal	EA	Equipment	\$1,000.00	2	\$2,000.00							
Air Misting System	EA	Equipment & Installation	\$5,000.00	1	\$5,000.00							
Bicycle Storage Locker	EA	Equipment & Installation	\$2,140.00	2	\$4,280.00							
Total Investment					\$118,710.00							
Minimum Investment					\$104,930.00							

		CUTLER RIDGE NEIGHBORHOOD MOBILITY HUB							
Amenity Recommendations	Unit	Measurement	Price	Quantity	Cost				
Recycle Receptacle	EA	Equipment & Installation	\$500.00	2	\$1,000.00				
Real Time Information Signage	EA	Equipment	\$400.00	2	\$800.00				
Bike Share	EA	Station - 10 Bikes	\$54,000.00	1	\$54,000.00				
Emergency Callbox	EA	Unit & Construction	\$5,500.00	2	\$11,000.00				
Mechanical Box Wrap	EA	\$15/SF: Price is Avg. for installation & material	\$1,000.00	3	\$3,000.00				
USB Charging Station	EA	Free Standing Station for 10 phones	\$1,500.00	1	\$1,500.00				
Library Share	EA	Equipment, Install & Registration	\$200.00	1	\$200.00				
OPTIONAL:									
Security Camera	EA	Equipment & Installation	\$600.00	2	\$1,200.00				
WiFi	EA	Equipment & Installation	\$400.00	1	\$400.00				
Bicycle Repair Station	EA	Equipment & Installation	\$1,500.00	1	\$1,500.00				
Bicycle Storage Locker	EA	Equipment & Installation	\$2,140.00	2	\$4,280.00				
EV Charging	EA	Equipment & Installation		2	\$0.00				
Carshare		РРР	\$0.00		\$0.00				
Bicycle Repair Station	EA	Equipment & Installation	\$1,500.00	1	\$1,500.00				
Air Misting System	EA	Equipment & Installation	\$5,000.00	2	\$10,000.00				
Bicycle Signal	EA	Equipment	\$1,000.00	2	\$2,000.00				
Total Investment					\$92,380.00				
Minimum Investment					\$71,500.00				



Public Meeting Notes & Attendance



APPENDIX



TOWN OF CUTLER BAY **PUBLIC INVOLVEMENT WORKSHOP**

We want to hear from you!

PROJECT OVERVIEW

The Town of Cutler Bay was awarded a grant from the Miami-Dade Transportation Planning Organization to conduct a local area Strategic Miami Area Rapid Transit (SMART) Moves study for the purpose of enhancing connectivity between the Town and the South Dade Transitway. The Plan will analyze existing MetroBus service, the Cutler Bay Town Circulator operations, and identify enhancements to the transit services as well as identifying improvements for stops and transfer points. The focus on stops and transfer points is to improve accessibility, connectivity, mobility and safety for pedestrians, bicyclists and transit users by identifying locations for neighborhood, community and commercial level mobility hubs along the Town's roadway network. A mobility hub is the convergence of frequent transit, development with mixed land uses, density and people to cater to the mass movement of people.

WHAT TO EXPECT

Two public meeting will be held at the Town Hall to obtain input from residents and stakeholders and to share conceptual designs. Graphics will be displayed and the project team will be available to answer any questions.

The public involvement workshop is being conducted in a universally accessible location. Pursuant to the provisions of the Americans with Disabilities Act, any person requiring special accommodations to participate in the hearing is asked to advise the Town at least four (4) business days before the hearing by contacting the Town Clerk at (305) 234-4262. If you are hearing or speech impaired, please contact the Town using the Florida Relay Service, 1(800) 955-8771 (TTY) or 1(800) 955-8770 (Voice) or dial 7-1-1.

Any non-English speaking person wishing to attend the public hearing should contact the Town Clerk at (305) 234-4262 at least four (4) business days prior to the hearing and an interpreter will be provided.

DATE: Tuesday, April 30, 2019

TIME: 6:00 p.m.-8:00 p.m.

LOCATION:

Cutler Bay Town Center 10720 Caribbean Boulevard Cutler Bay, FL 33189

TRANSIT RIDERS: WE NEED YOUR FEEDBACK!

Transit riders—we are requesting your feedback! Please take a few minutes to complete the survey by following the links below:

English version: http://ow.ly/hdr450mA7HM

Spanish version: http://ow.ly/UcB250mA7Ie



LA CIUDAD DE CUTLER BAY TALLER DE PARTICIPACIÓN PÚBLICA

¡Queremos su opinión!

DESCRIPSIÓN DEL PROJECTO

La ciudad de Cutler Bay recibió una subvención del estudio Miami-Dade Area Rapid Transit (SMART) Movimientos para perfeccionar la conectividad entre la ciudad y las vias de tránsito en el sur de el condado. El Plan analizará el servicio de MetroBus que ya existe, las operaciones de circulacion de la ciudad de Cutler Bay, y modenizará los servicios de tránsito, así como también reestablecerá paradas y puntos de traslados. El enfoque en las paradas y los puntos de traslado es mejorar la accesibilidad, conectividad, movilidad y la seguridad para peatones, ciclistas y usuarios de tránsito mediante la identificación de lugares para los centros de movilidad en el vecindario, en la comunidad y a nivel comercial a lo largo de la interconexión de carreteras de la Ciudad. Un centro de movilidad es la union del tránsito fluvial, el desarrollo de lugares con usos mixtos para residenciales, comerciales, lugares de entretenimiento, y el movimiento masivo de personas.

QUE ESPERAR

La reunión pública se llevará a cabo en el salon de la ciudad para obtener información de los residentes y las partes interesadas y para compartir diseños conceptuales. Los gráficos se mostrarán y el equipo del proyecto estará disponible para responder cualquier pregunta.

El taller de participación pública se está llevando a cabo en un lugar de acceso universal. Bajo las disposiciones de la Ley de Estadounidenses con Discapacidades, se le pide a cualquier persona que requiera adaptaciones especiales para participar en la audiencia que avise a la ciudad al menos cuatro (4) días hábiles antes de la audiencia comunicándose con el Secretario Municipal al (305) 234-4262. Si tiene problemas de audición o del habla, comuníquese con la ciudad a través del Servicio de retransmisión de Florida al 1 (800) 955-8771 (TTY) o al 1 (800) 955-8770 o marque el 7-1-1.

Cualquier persona que no hable inglés y desee asistir a la audiencia pública debe comunicarse con el Secretario Municipal al (305) 234-4262 al menos cuatro (4) días hábiles antes de la audiencia, y se le proporcionará un intérprete.

FECHA:

Martes 30 de abril del 2019

HORA:

6:00 p.m. - 8:00 p.m.

UBICACIÓN:

Cutler Bay Town Center 10720 Caribbean Boulevard Cutler Bay, FL 33189

PILOTOS DE TRÁNSITO: iESTAMOS SOLICITANDO SU OPINIÓN!

Por favor, tómese unos minutos para completar la encuesta. siguiendo los enlaces de abajo:

Version en Ingles: http://ow.ly/hdr450mA7HM

Version en Español: http://ow.ly/UcB250mA7le

WWW.CUTLERBAY-FL.GOV



Town of Cutler Bay Mobility Hubs Public Involvement Workshop #1: SMART Moves Study

Tuesday, April 30, 2019 (6:00 PM)

INCORPORATED 1005	rucsuuy, April 00, 2013	
NAME	TELEPHONE	E-MAIL
Christing Fermin	954-850-8050	Cremme Mar Imenginaring. con
A. Peter Paunovic	305-924-5550	goldenstrand780msn.co.
Tom CONDON		
Barbara Condon		
Jeannine Stuller	954-537-2700	jeannines Qumberg. cm
Daniel Kruel		dKruel actseinc. com
Jonathan Knight	305-599-8964	Jonathan, Knight@ctseinc.com
Cheryl Motsco	786-469-5162	Motsce @mizmidede.gov
Alfredo Quintero		
Yenier Vega Rafael Casals Technice Gaudonde		
Rafael Casals	JOSE Santi	ago
Technice Gaulonde		

Cutler Bay Mobility Hubs Plan Public Involvement Meeting #1 April 30, 2019 6 PM – 8 PM

Presentation Comments:

- Where are most residents traveling to for work? Do you have that data?
 - Town Manager: That data is provided in the Town's Transportation Master Plan and most residents are traveling North for work.
- Many residents work in Hialeah, Doral and Aventura the bus service in those areas runs late, but when we arrive home the bus service ends at 5 PM and we have no way to get home via transit. At times I wait long periods of time to use Uber, Lyft or Taxi service.
 - Town Manager: The Town began service in 2012 at 3 days per week and we are now at 7 days per week, but only paying for 6 days per week. The Town is exploring options to extend the hours of operation and accommodate residents who rely on transit.
- We have meeting and after meeting and there is no action. Meanwhile Smart cars have been running in Pinecrest and Palmetto Bay and we are having studies done. Residents here need action and need transit to operate later.
 - Town Manager: The Town is in the processing of implementing a Freebie service that will operate 5:30 AM to 9 PM providing door-to-door service, meaning they will pick you up at home and transport you to the transitway for free. This service will not be golf carts, they will be vans and wrapped for marketing purposes so residents become aware of the service.
- Have you looked at having a bus run counterclockwise for Route 200?
 - Yes, we have looked at that option and will be including it in the report as a recommendation. We are also looking at other routes to provide better service and coverage for the Town.
- How many respondents have taken the survey to date?
 - o About 100
- Does the survey show what time residents are coming home?
 - We asked what time people were leaving their homes to begin their trip and what time they arrived to their destination.
- How long does the Town Circulator take to make the loop?
 - According to our analysis 51 minutes, which is what the schedule shows
- Did you take into account the time the driver takes their 10-minute break?
 - o Yes

Transit Route Map Comments:

- Route 200 ends at 5:30 PM and it is challenging to get home after work. Ideally the route should begin earlier and end later to allow residents to get home via the bus.
- Route 287 has limited hours; this bus should operate until 9 PM.
- Provide transit service to/from church in Palmetto Bay to connect to iBus to Dadeland South.

- Route 200 extend hours; Route 287 extend hours.
- New Route: Old Cutler Road to Ludlum Road to Dadeland South.
- Route 200, add additional bus moving counterclockwise.
- No transit available during peak periods within the Town.
- Route should travel along Old Cutler Road North to Ludlum Road to get to Dadeland South.

Attendance:

Christina Fermin, Marlin Engineering
Jose Santiago, Marlin Engineering
Robert Duncan, Town Council
Rafael Casals, Town Manager
Alfredo Quintero, Public Works Director
Yenier Vega, Assistant Public Works Director
Jeannine Gaslonde, Miami-Dade TPO
A. Peter Paunovic
Tom Condon
Barbara Condon
Jeannine Stuller
Daniel Kruel
Jonathan Knight
Cheryl Motsco

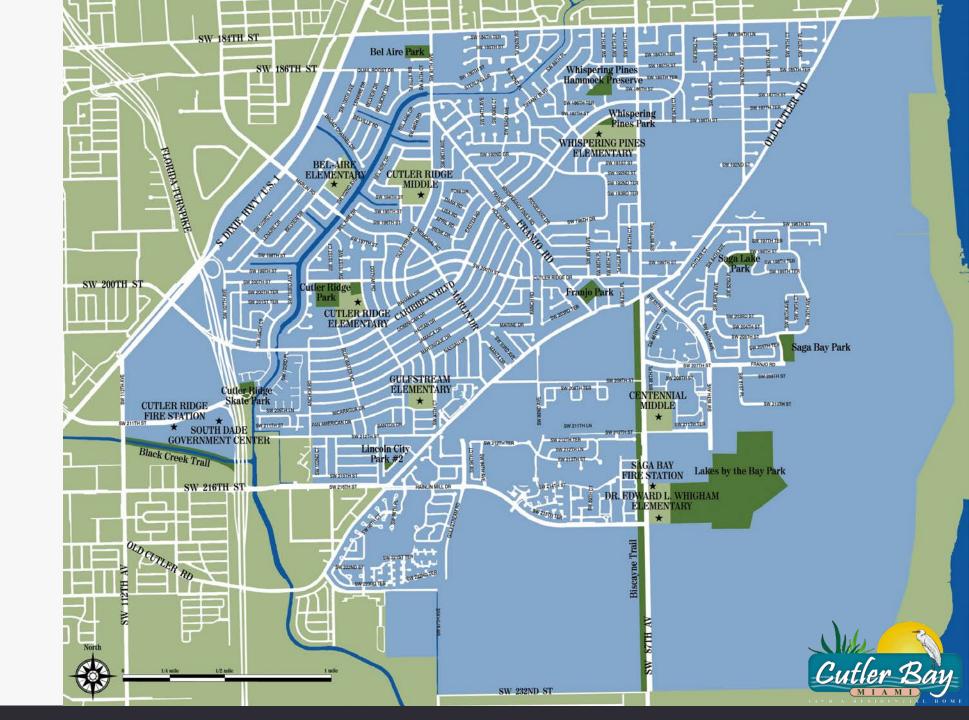
TOWN OF CUTLER BAY





Overview

- » Mobility Hub
- » Purpose
- » Background
- » Development
- » Data
- » Next Steps
- » Discussion



Mobility Hub



What is a Mobility Hub?

"a location where more than one transit route converge, an area where bicycle and pedestrians have access to local land uses, major generators and have land uses that cater the mass movement of commuters."

Town of Cutler Bay Complete Streets
 Corridor Analysis



Source: LA Department of Planning Mobility Hubs A Reader's Guide

TRANSIT AMENITIES

PEDESTRIAN AMENITIES

BIKE AMENITIES

MOTORIZED SERVICES AMENITIES

SUPPORT SERVICES & AMENITIES



"Transit hubs are also social centers and expressions of civic identity that can boost or damage local pride." - CityLab

Transit Transfer Point

Comfortable Walking Destination For All



Mobility Hubs make transferring between different transportation modes and services easy, safe and efficient.



A great pedestrian environment makes Mobility Hubs accessible to everyone not just the very dedicated. Context-Sensitive Designs Are Well Adapted to Site

Mobility Hubs are more than just functional. They are also welcoming, enjoyable, safe, intuitive and enticing.

Popular Place for Private Mobility Services



Successful Mobility Hubs need to be in places that make sense for transportation users and providers alike.

Mobility Hub Amenities

		Bicycl Conne	e ections		Vehicle Bus Connections Infrastructu			ructure	Inforr Signa	nation- nge		Support Services				Activ Uses	e	Pedestrian Connections			
	Mobility Hub Amenities	2.1. Bike Share	2.2. Bike Parking	2.3. Bicycling Facilities	3.1. Ride Share/Pick up-Drop off	3.2. Car Share	3.3. EV Charging Stations	4.1. Bus Layover Zone	4.2. Bus Shelters	5.1. Wayfinding	5.2. Real-time Information	5.3. Wi-Fi/Smartphone Connectivity	6.1. Ambassadors	6.2. Waiting Area	6.3. Safety and Security	6.4. Sustainable Approach	7.1. Retail	7.2. Public Space	8.1. To the Mobility Hub	8.2. At the Mobility Hub	Source: Mobility Hubs: A Reader's Guide – City of Los Angeles
	(N) Neighborhood	•	•	•	•	0	0		0	•	0	0	•	0	0	0	•	•	•	0	bility Hubs
	(C) Central	•	•	0	•	•	•	•		•	•	•	0	0	•	•	0	•	•	•	ource: Mo
	(R) Regional	•	•	•	•		•	•	•	•	•	•	٠	0	•	•	•	•	•	•	S
ľ	Legend:	Vital: 🔴 Recommended: 🔿 Optional:																			









UPWP 5.2 SMART Moves Program

Used by TPO to prioritize and program planning studies to support projects, including:

- » Complete Streets
- » First Mile/Last Mile Connections
- » Connected & Autonomous Vehicles
- » Projects to Enhance Connectivity

Municipal Program: Encourages municipal participation in implementing transportation planning studies and plans.

Public Input: Solicit transportation planning ideas from the general public and other agencies.

SMART PLAN DEMONSTRATION PROJECTS

Pursuant to Resolutions No. 14-18 and No. 29-18, the Miami-Dade Transportation Planning Organization (TPO), in partnership with the Florida Department of Transportation (FDOT), Miami-Dade County, South Florida Regional Transportation Authority (SFRTA), and numerous local municipalities have coordinated to deliver SMART Plan Demonstration projects countywide. This program of projects includes a mixture of local, regional, state and federal funding.





Boston Crosswalk

Scope of Services

- » **Identify** a comprehensive network of mobility hubs.
- » Improve mobility and safety for pedestrians, bicyclists and transit users.
- » Assess the Town Circulator and provide recommendations.
- » Final recommendations will be evaluated and prioritized.





Town of Cutler Bay Mobility Hub Plan

TASKS AND SUBTASKS	November '18	December '18	January '19	February '19	March '19	April '19	May '19	June '19	July '19	August '19	September '19	October '19
Task 1. Background Information/Existing Conditions	Thereased 10	Duranda 10	oundary 15	reoraal j 10	indivit 12	1412 12	and Joints	van 17	July 12	August 17	September 17	General 19
a. Review relevant Multi-modal transportation planning studies												
b. Obtain and assess Existing / Future Land Use and Zoning and ROW												
c. Obtain MDDTPW, Town Circulator Stop and Ridership Data and Files												
Task 2. Public Involvment and Coordinatio												
a. Project Management Teleconferences (6, 30 Minutes)												
b. Coordination with Public, TPO, MD DTPW												
c. Town Commission Meetings (2)	}	╏╍┿╍╏╍┾╍╸										
d. Community Meetings (2)	┠╍┼╍╂╍	╉╍┼╍╂╍┼╍	┠╌╂╌┼╌┼╌	╂╍┼╍┼╍╁╍	╺╍┾╍╅╍╁╍	┝╍╌╂╍╌┼╍╌┤╍╍╸	┠╍┼╍┼╍╂╍╸	┠╍┼╍╆╍┾╍	╂╍╁╍┼╍┼	┝╍┼╍┼╍╂╍		┟╍╊╍╍╂╍
e. Study Advisory Group (3 meetings)	┝╍┽╍╆╍	┠╍┼╍╆╍┾╍╸		┢╍┟╍┼╍╂╍┙	┝╍┿╍┿╍				┠╍┨╍┾╍┝╍╸			┢╍╊╍╍╋╍
Task 3. Data Collection and Transit Hub Assessment		<u> </u>			<u> </u>		<u> </u>		<u> </u>			
a. Interview Town Circulator Drivers/Operator	 						 		 			 - ∔-
b. Ride Town Circulator Routes and Use Speedtracker for Speed/Delay and Rider Survey												
c. Interview Metrobus Riders at transfer points and at Cutler Bay Transitway Stations	 	╏╍┼╍┼╍┼╍										
d. Analysis of MIOVision results	<u>├</u> ┼┼┼	┝╍┼╍┼╍			╺╍╋╍╋╍╬╍		┠╍┽╍┼╍╂╍╸		┠╍┨╍┾╍┾╍			┝╍┠╍┝╍┼╸
e. GIS Analysis of ridership and route demographics									<u> </u>			
f. Development of alternative system routes and schedules		╏╌┼╌╏╌┼╌		<u>+</u>			<u> </u>					┢╼╋╍┿╍┿
g. Sketch Planning Stop/Hub Utilization Assessment	┠╍┿╍┾╍╋╍╸	╏╍┽╍┟╍┼╍╸	┠╍╁╍┼╍┾╍	╂╍┼╍┽╍╅╍┙			┠╍┿╍┾╍╋╍╸	┝╍┿╍╆╍┿╍	╉╍╋╍┿╍┾╍╸	┝╍┿╍┿╍╈╍		┟╍╋╍╍┿╍
h. Capital, O&M Cost Analysis (3 Schedules)									┢╍┟╍┝╍			
Task 4. Mobility Hub siting and Conceptual Design	444	Ai i	K JL	k k			L	L	┻╼╾┛╾╾╸╁╼╼╼└╼╼╸	┕╼╼┵╼╼┵╼╼┻╼╼	J	
a. Hub Siting Analysis up to 12 locations				and see here here	level seed seed from	www.lawalawas					and mere mail from	and and and b
b. Development of Neighborhood, Community and Central Hub Templates												
c. Review of Right of Way, Adjacent Land Use and Ped/Bike Access												
d. Assessment of permitting requirements												
e. Cost Estimates 12 locations												
Task 5. Documentation												
a. Recommendations: Prioritization												
b. Potential Funding	<u> </u>	┠╍┟╍┠╍	 				 ↓↓					
c. Powerpoint presentations for Commission Meetings												
d. Final Report												AND AAA AAA

Background

The Strategic Miami Area Rapid Transit (SMART) Plan



South Dade Transitway

- » 20-miles from Dadeland South Metrorail Station to SW 344th Street Park and Ride/Transit Terminal
- » Connects Miami CBD to Village of Pinecrest, Village of Palmetto Bay, Town of Cutler Bay, City of Homestead, and Florida City.
- » BRT to begin by 2022

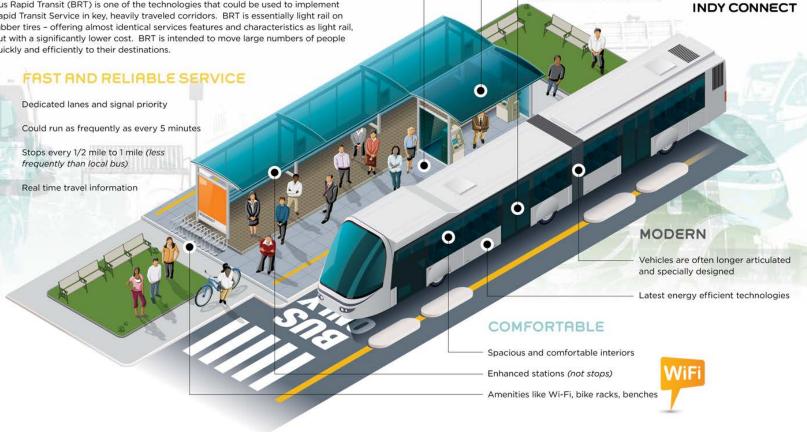


Bus Rapid Transit (BRT)

- **High-Quality Bus-Based Transit System**
- **Dedicated Lanes**
- Transit Signal Preemption
- Fast
- Comfortable
- Frequent

WHAT IS BRT? LIGHT RAIL ON TIRES

Bus Rapid Transit (BRT) is one of the technologies that could be used to implement Rapid Transit Service in key, heavily traveled corridors. BRT is essentially light rail on rubber tires - offering almost identical services features and characteristics as light rail, but with a significantly lower cost. BRT is intended to move large numbers of people quickly and efficiently to their destinations.



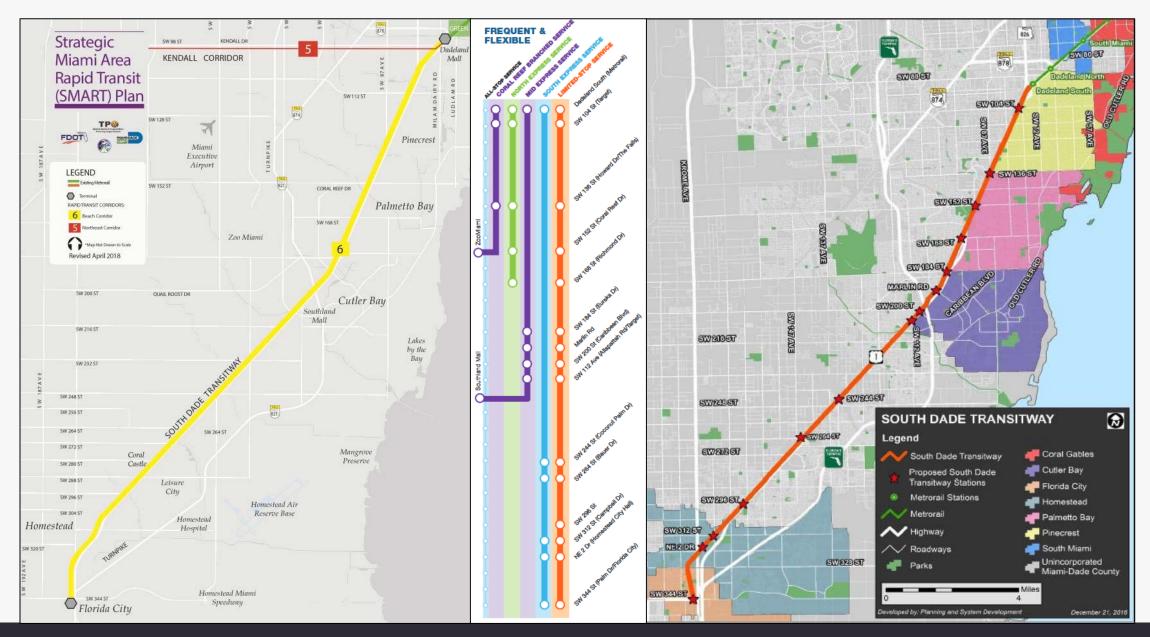
CONVENIENT

Off-board fare collection

Multiple doors for quick boarding

Level boarding

South Corridor Rapid Transit Project



Station Rendering

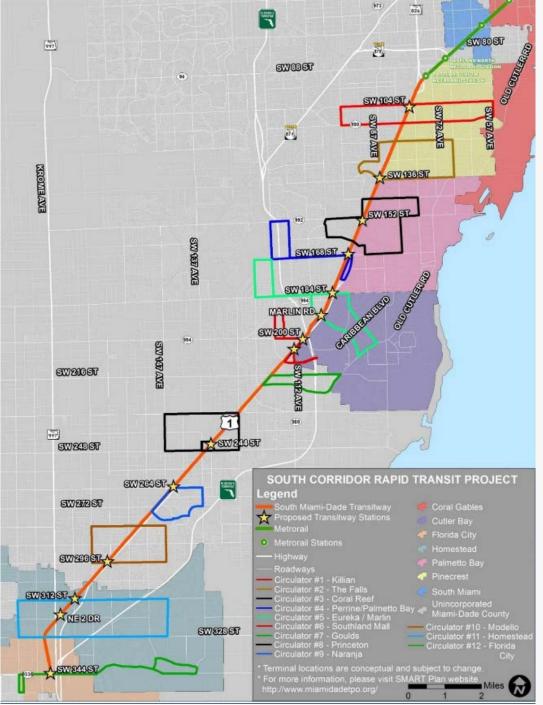
DRAFT – South Dade Rapid Transit Corridor PD&E August 2018



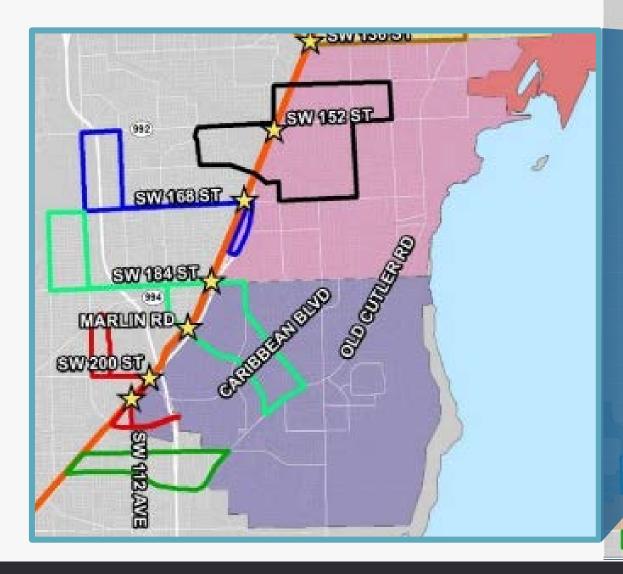
South Dade Rapid Transit Corridor Project Feeder Bus Program

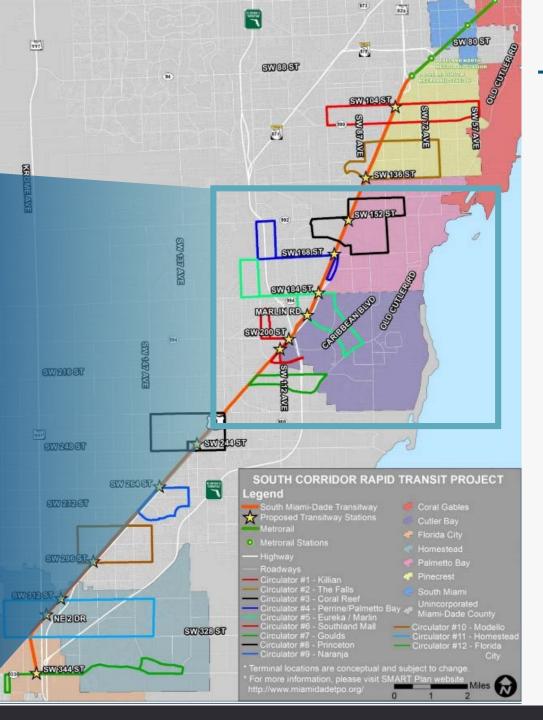
DRAFT PD&E August 2018

- » First and Last Mile Connection
- » Based on Input Received along the Corridor
- Municipalities along Transitway May
 Restructure their Existing Local Bus Service
- » Explore Partnership Options with Transportation Network Companies (TNC's)
- » Future: Autonomous/Connected Vehicles Could Replace Current Technology



Bus Feeder System

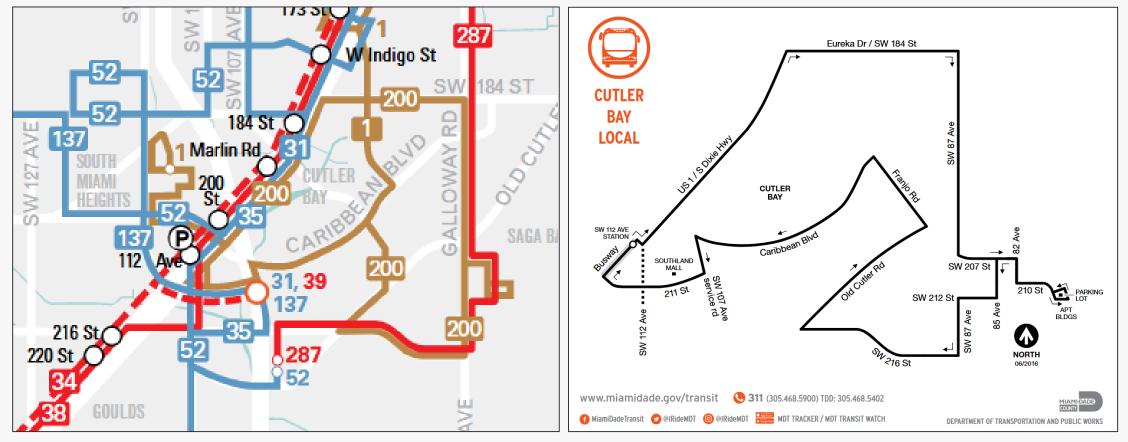




Existing Bus Service

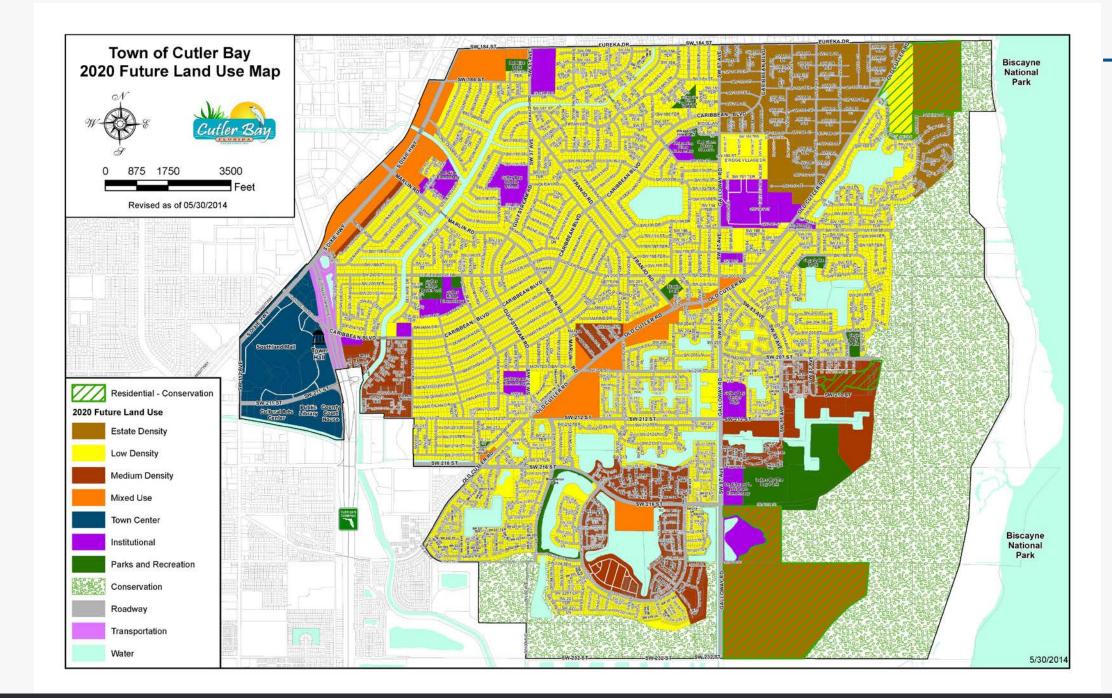
MetroBus

Town Circulator (Route 200)

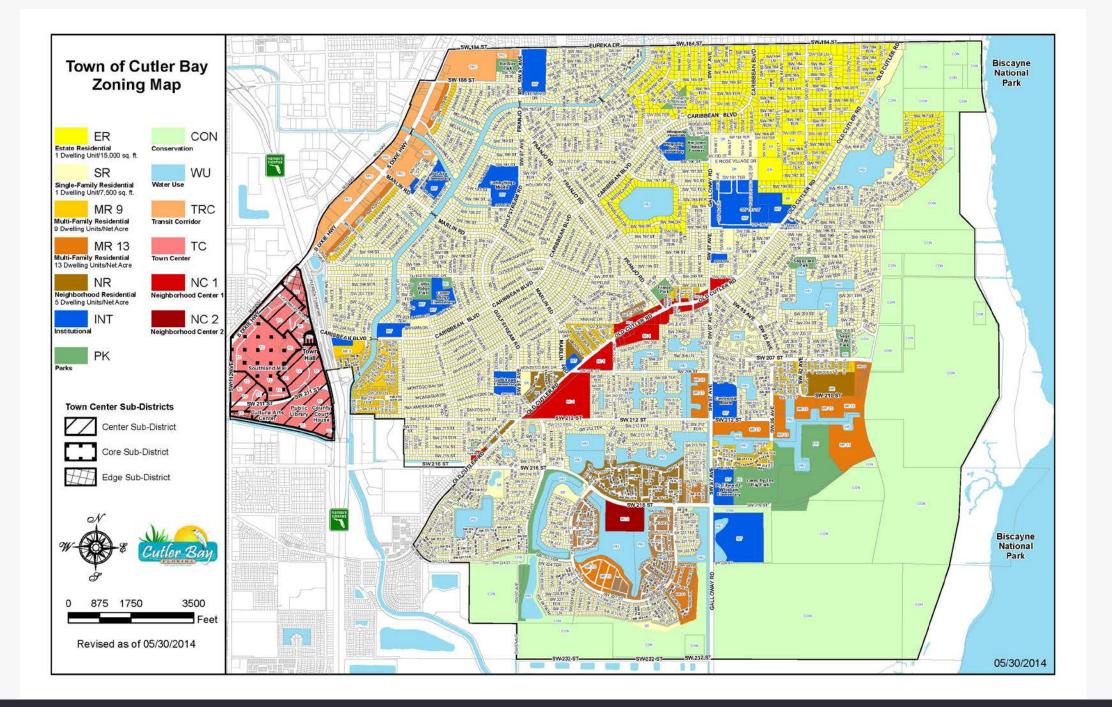


Planning & Development



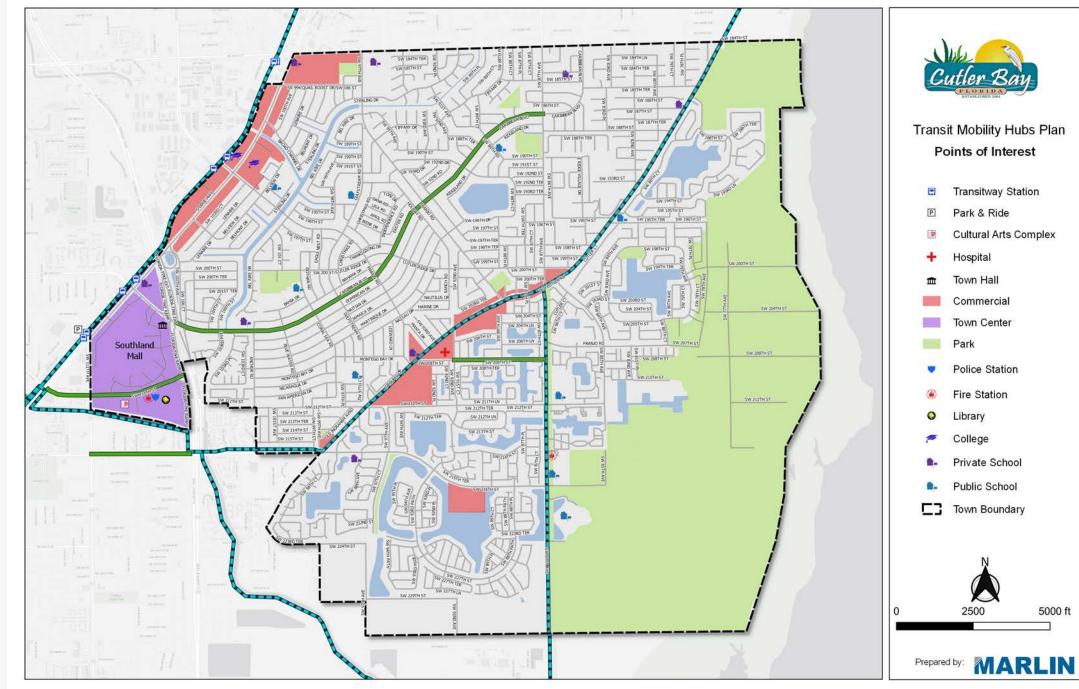


Land Use Map



Zoning Map

0 **Ma** of Interest Points



Community Statistics

DATA



Stats

Population (Est. 2017): 45,101

Median Age: 36.2

Households: 12,682

Housing: 71% Owner Occupied

Median Value/Rent: \$235,000/\$1,442

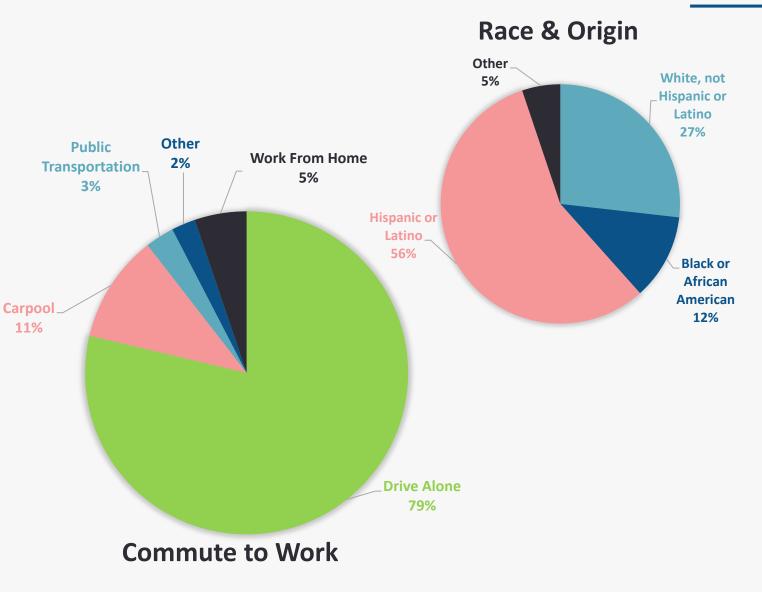
Mean Travel Time to Work: 41.6 Minutes

Median HH Income: \$70,473

Language Other than English: 54.8%

High School Graduate or Higher: 89.1%

-Census QuickFacts

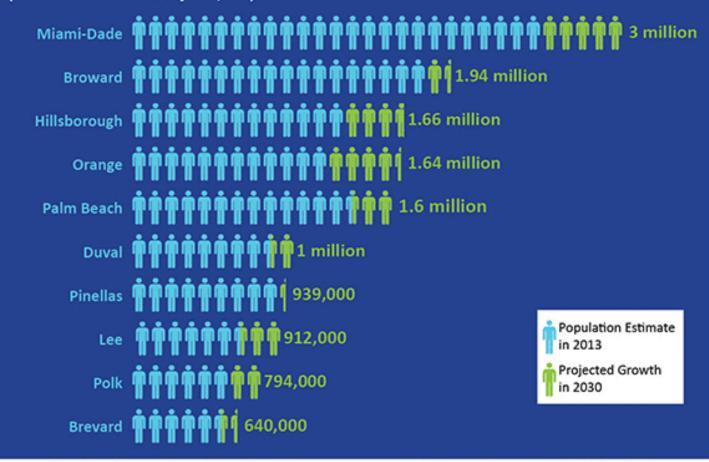


Future Growth

» 2030 County Growth Projected:10.5%

- » 2040 County Projection: 3.3 Million
- » **2020 Town Projected Growth:** 55,000

10 LARGEST POPULATIONS BY COUNTY IN 2030¹ (Shown in increments of 100,000)



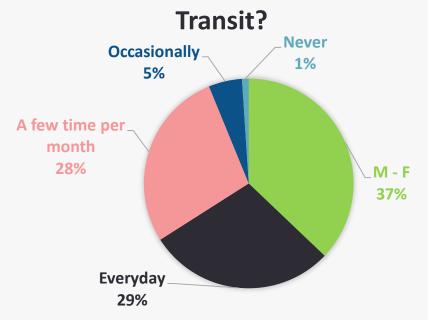
¹ Data from University of Florida's Bureau of Economic and Business Research (BEBR) Projections of Florida Population by County 2015-2040

Transit Survey

DATA



How Many Times Per Week Do You Ride



31% of Respondents end their Trip at Dadeland South & 20% end their Trip at Government Center

74% of Respondents use Transit to Connect to/from Work

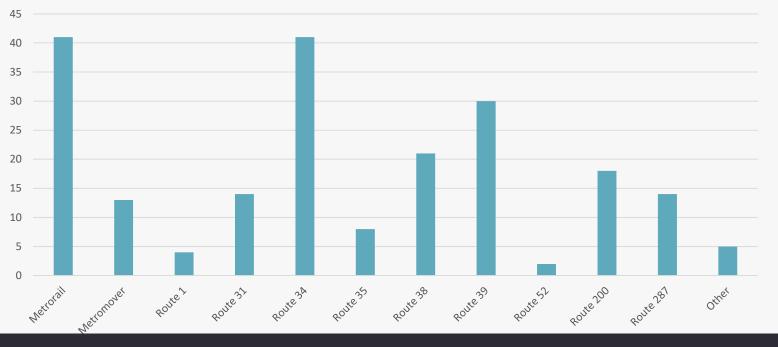
69% of Respondents Transfer

56% of Respondents begin their Trip between 6 AM and 7:30 AM

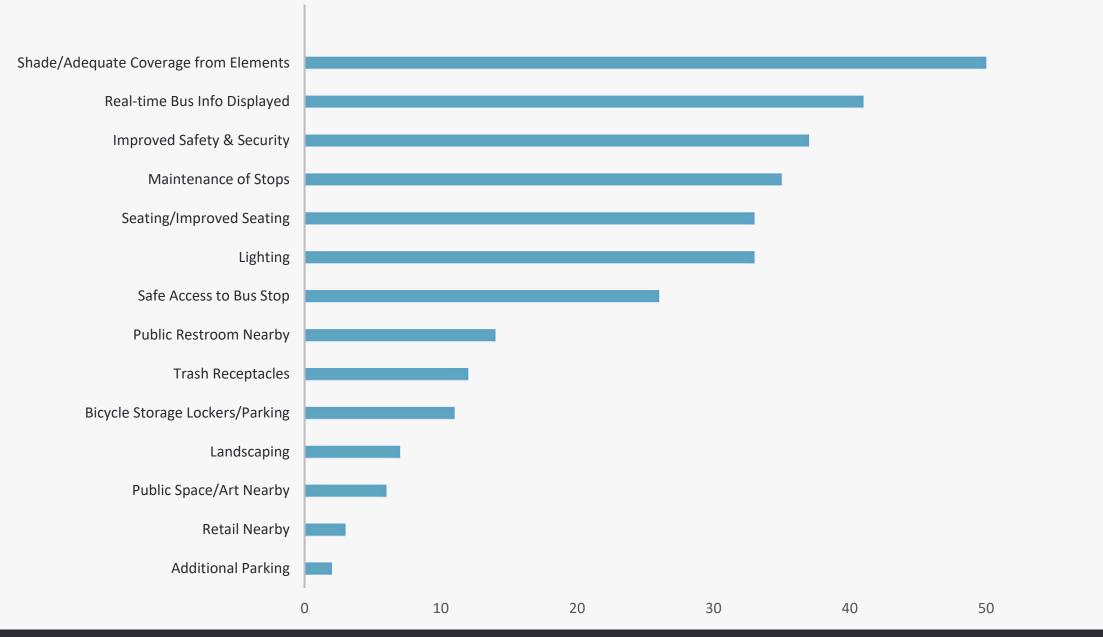
60% of Respondents arrive to their destination between 7:30 AM and 9 AM

41% of Respondents begin their Trip at the SW 112 Transitway Stop

Which Routes Do You Take?

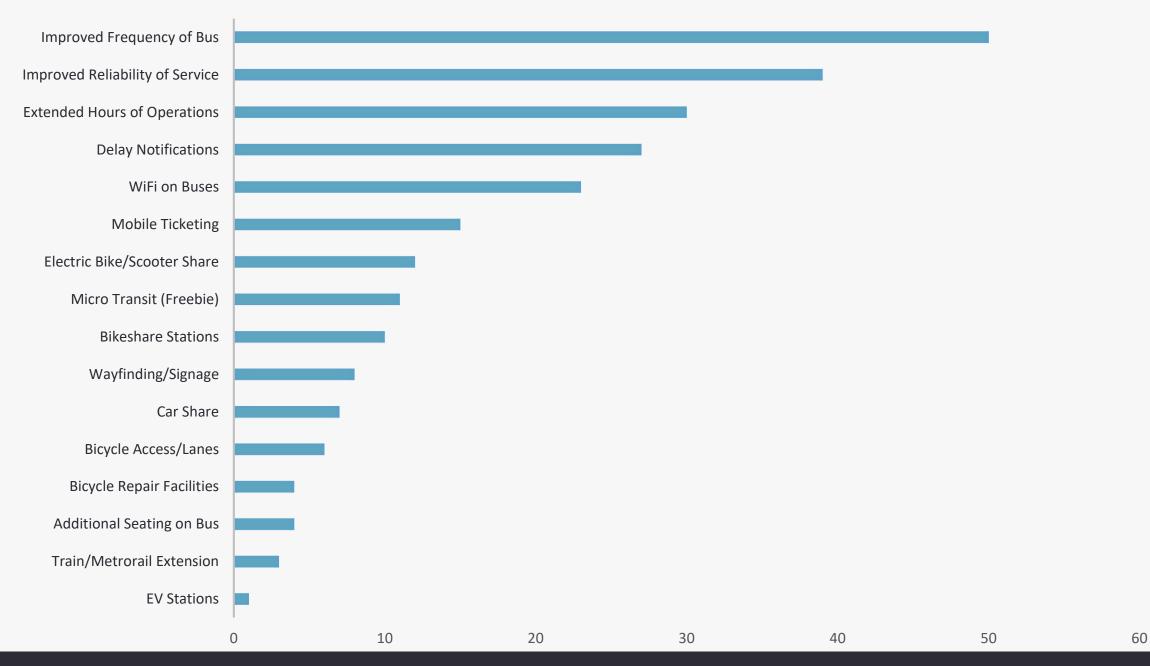


Bus Stop Amenities



60

What Would Improve Your Commute?

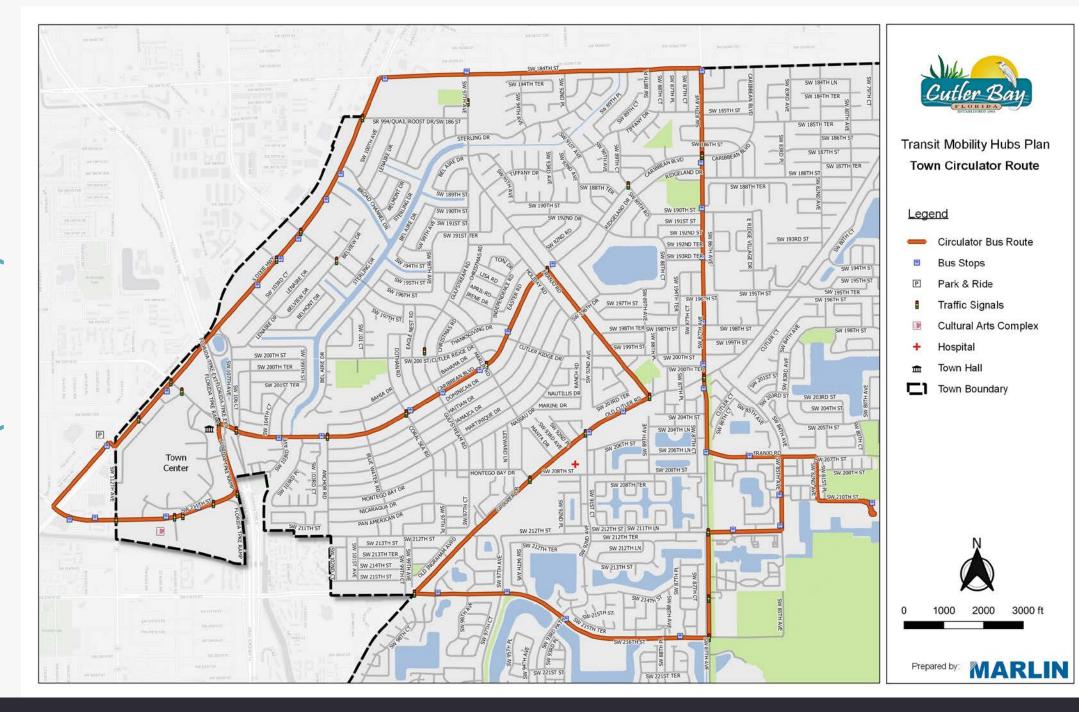


Transit

DATA



In Circulator (Route 200) Town



Cutler Bay Circulator

- » **Start/End:** Old Cutler Road @ Publix
- » Time: Approximately 51 minutes
 » Stopped: 22 minutes
 » Travel: 34 minutes
- » Travel Distance: 13.7 miles
- » Average Speed: 23 mph
- » Operating Hours:
 - » Monday Saturday: 8:40 AM to 5:40 PM
 - » Sunday: 10:40 AM to 3:40 PM



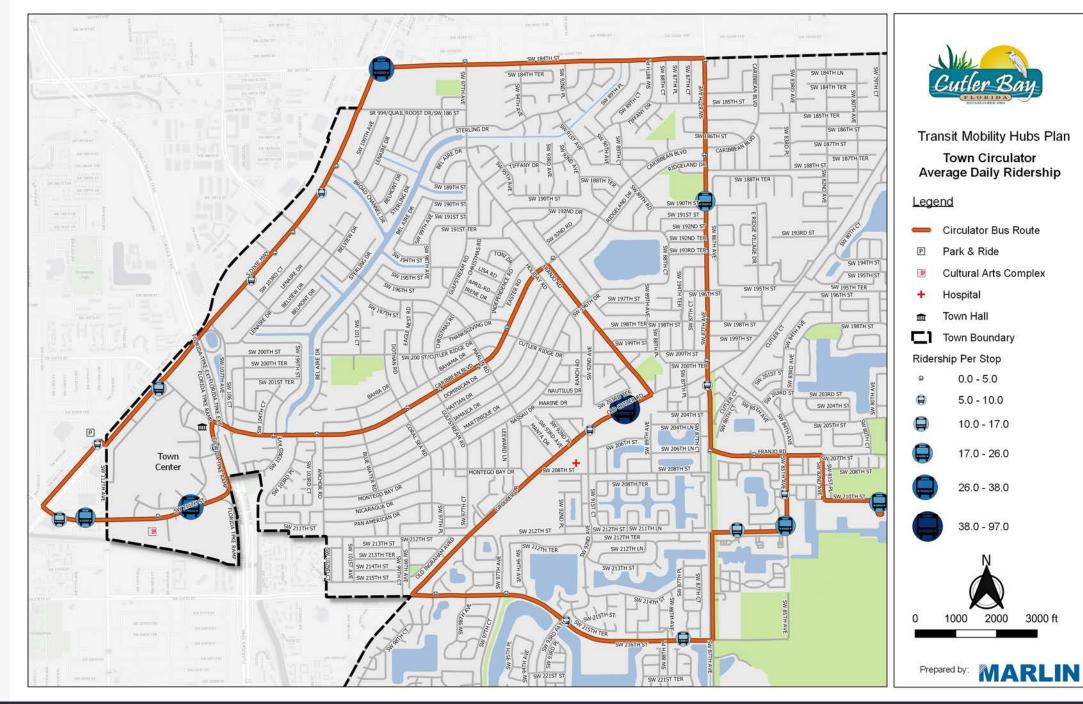
MDT Tracker APP

- » Download via the Google Play or Apple Store
- » Real-time tracking of all Miami-Dade Transit
- » Trip Planning

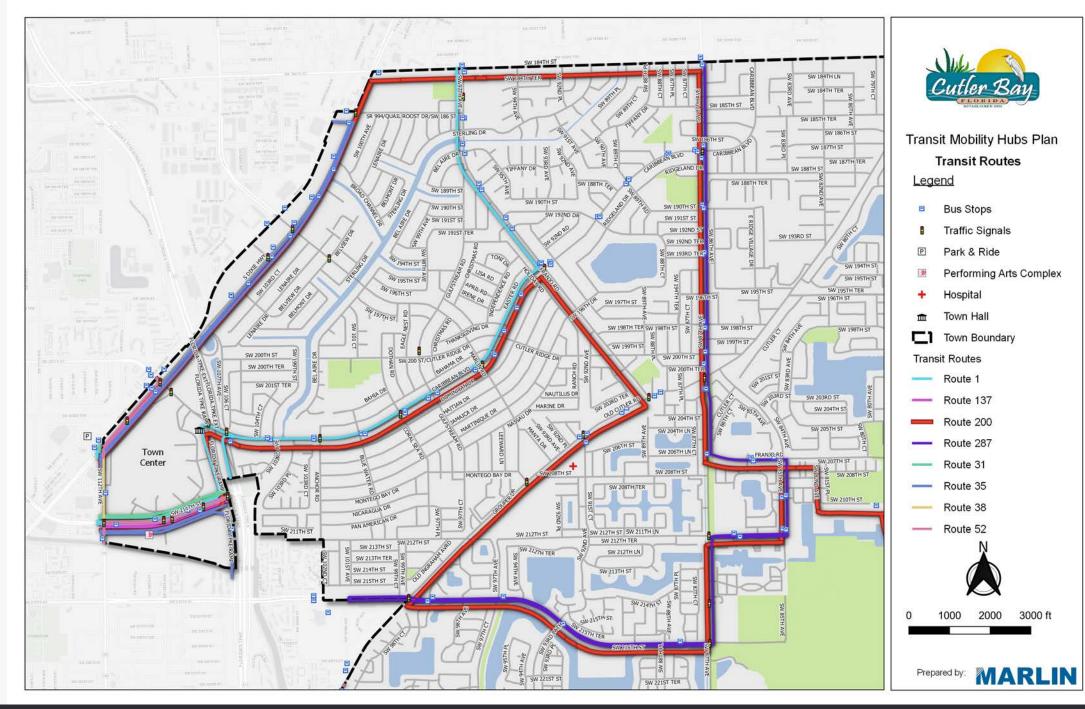




aily Ridership Average

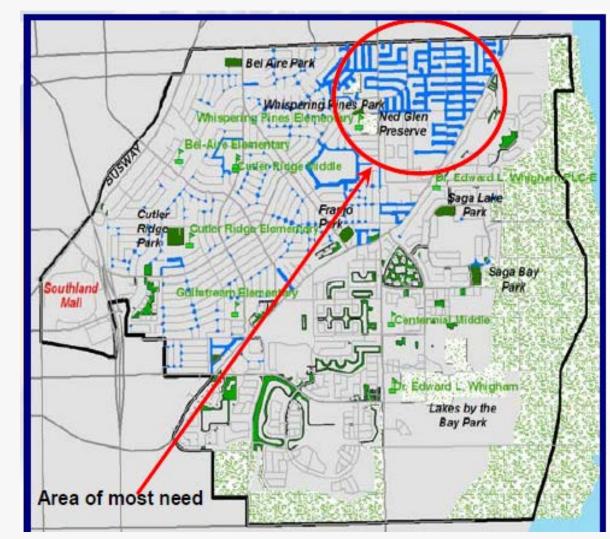


S U C Ro S 5 Metrob



Pedestrian Network

- » Overall well developed network
- Missing sidewalks primarily in the northeast
- Town Center/Southland
 Mall has poor
 connectivity and little
 pedestrian connectivity
- » 16 Bicycle & Pedestrian Destinations

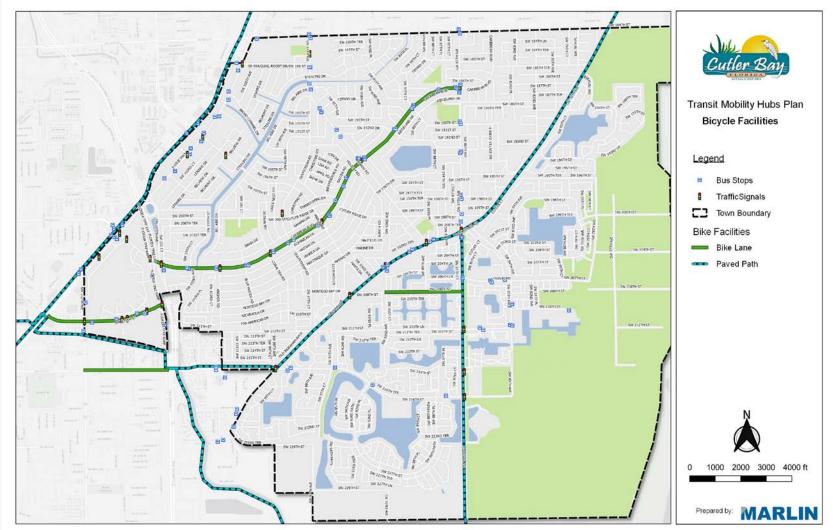


Source: Town of Cutler Bay Bicycle & Pedestrian Master Plan, 2011

Bicycle Network

Existing Bicycle Network

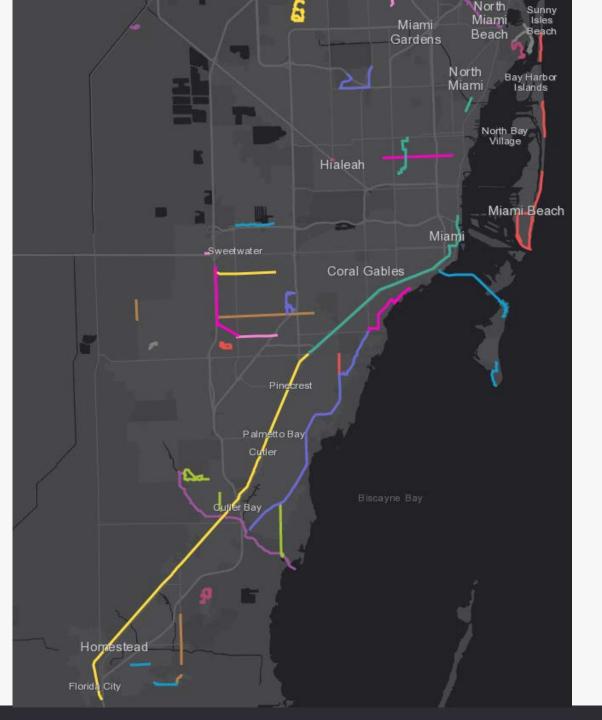
- » Old Cutler Road
- » Caribbean Boulevard
- » SW 87th Avenue
- » SW 211th Street
- » SW 208th Street



Regional Bicycle Network

Regionally Connected

- » Old Cutler Trail
- » Black Creek Trail
- » South Dade Trail
- » Biscayne Trail



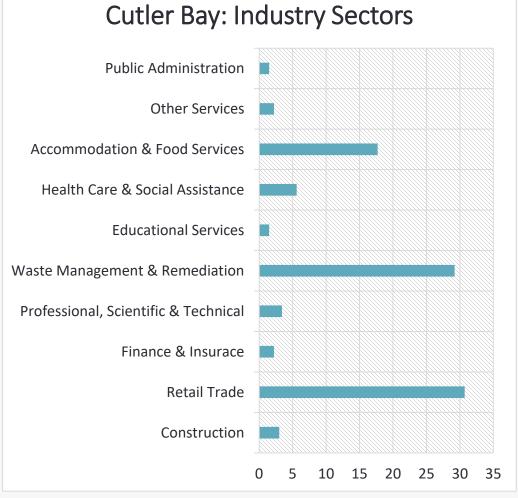
Employment

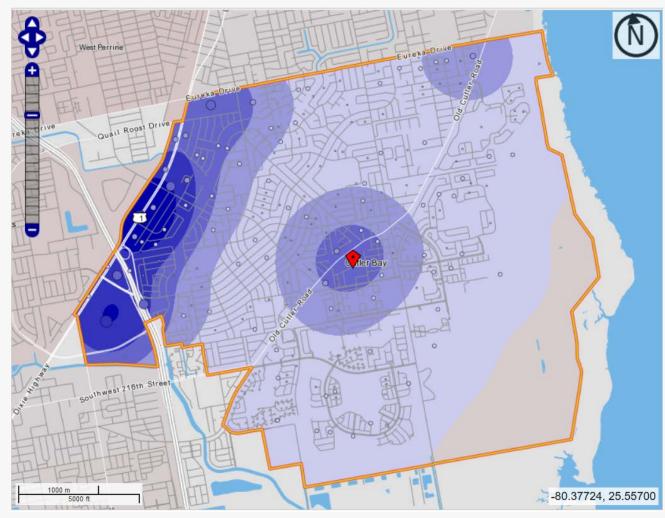
DATA



Stats

Businesses (2012): 5,941

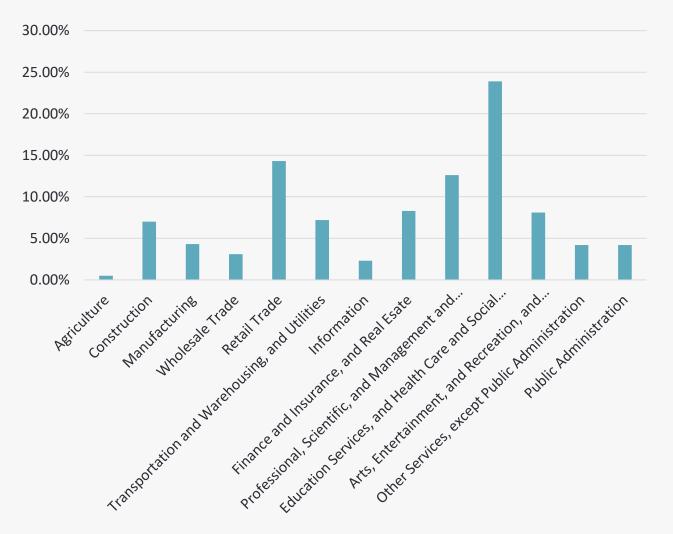




Source: On The Map

Cutler Bay Residents & Employed Industries

- 1. Education Services, Health Care and Social Services
- 2. Retail Trade
- 3. Professional, Scientific,
 Management,
 Administration and Waste
 Management



Next Steps



Task 4: Conceptual Design

» Hub Siting Analysis

» Mobility Hubs Development

- » Neighborhood » Community
- » Commercial
- » Review of ROW, Land Use & Bicycle Pedestrian Access
- » Assessment of Permit Requirements
- » Cost Estimates



SITE ENHANCEMENT COST ESTIMATES

Enhancement:	Minimum Investment:	Full Investment:
Bike and Pedestrian Enhancements:	\$20,000	\$370,000
High-Visibility Pick-Up and Drop-Off Areas:	\$10,000	\$10,000
Real-Time Digital Bus Time Display:	\$80,000	\$80,000
TOTAL ENHANCEMENTS COST:	\$110,000	\$460,000

Source: Mobility Hubs – Project Connect

Public Workshop #2 Save the Date - September 3, 2019

Conceptual Designs

Hub Siting Analysis

Recommendations

Additional Public Input



What would make YOUR community more walkable?

How could Transit be more CONVIENANT than driving?

Change is inevitable, how could change be **POSITIVE**?

Take Our Survey!

English



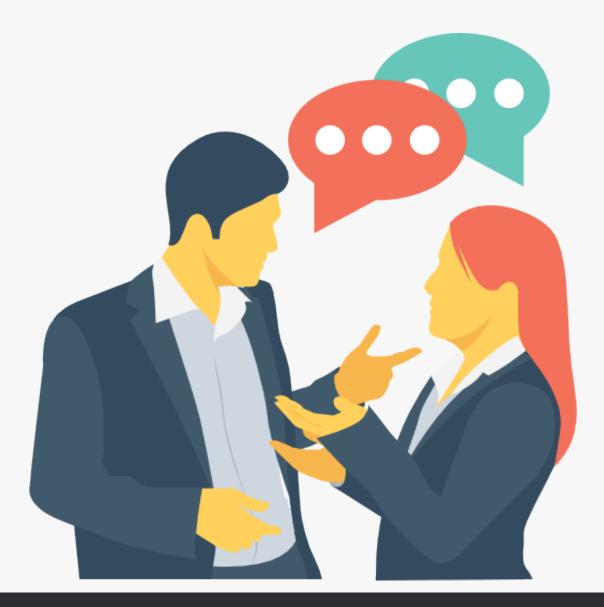
https://forms.gle/7Yq3MKD78uPFaWBs8

Español

https://forms.gle/by3RRHDJPdkFZqh27



Discussion









TOWN OF CUTLER BAY **PUBLIC INVOLVEMENT WORKSHOP** *We want to hear from you!*

PROJECT OVERVIEW

The Town of Cutler Bay was awarded a grant from the Miami-Dade Transportation Planning Organization to conduct a local area Strategic Miami Area Rapid Transit (SMART) Moves study for the purpose of enhancing connectivity between the Town and the South Dade Transitway. The Plan will analyze existing MetroBus service, the Cutler Bay Town Circulator operations, and identify enhancements to the transit services as well as identifying improvements for stops and transfer points. The focus on stops and transfer points is to improve accessibility, connectivity, mobility and safety for pedestrians, bicyclists and transit users by identifying locations for neighborhood, community and commercial level mobility hubs along the Town's roadway network. A mobility hub is the convergence of frequent transit, development with mixed land uses, density and people to cater to the mass movement of people.

WHAT TO EXPECT

The 2nd Public Involvement Workshop is a follow up to the first workshop held on April 30, 2019 and will be held in English and Spanish to obtain input from residents and stake holders and to share conceptual designs. Graphics will be displayed and the project team will be available to answer any questions.

The public involvement workshop is being conducted in a universally accessible location. Pursuant to the provisions of the Americans with Disabilities Act, any person requiring special accommodations to participate in the hearing is asked to advise the Town at least four (4) business days before the hearing by contacting the Town Clerk at (305) 234-4262. If you are hearing or speech impaired, please contact the Town using the Florida Relay Service, 1(800) 955-8771 (TTY) or 1(800) 955-8770 (Voice) or dial 7-1-1.

Any non-English speaking person wishing to attend the public hearing should contact the Town Clerk at (305) 234-4262 at least four (4) business days prior to the hearing and an interpreter will be provided.

Save the Date for the 2nd Public Involvement Workshop!

WORKSHOP (ENGLISH*)

Date: Monday, September 23, 2019

Time: 6:00 p.m.-8:00 p.m.

Place: **Cutler Bay Town Center** Council Chambers, Ste 115 10720 Caribbean Boulevard Cutler Bay, FL 33189

WORKSHOP (SPANISH**)

Date: Monday, September 23, 2019

Time: 2:00 p.m.-4:00 p.m.

Place: **Pine Woods Villa** Club House Dining Room 8420 SW 188 Terrace

Cutler Bay, FL 33157

*Interpretes bilingües estarán disponibles durante el taller

**Bilingual interpreters will be available at the workshop



EL PUEBLO DE CUTLER BAY TALLER DE PARTICIPACIÓN PÚBLICA

¡Queremos su opinión!

DESCRIPCIÓN DEL PROYECTO

El Pueblo de Cutler Bay recibió una subvención del estudio Miami-Dade Area Rapid Transit (SMART) Movimientos para perfeccionar la conectividad entre el pueblo y las vias de tránsito en el sur del condado. El plan analizará el servicio de MetroBus que ya existe, las operaciones de circulación del pueblo de Cutler Bay, y modernizará los servicios de tránsito, así como también reestablecerá paradas y puntos de traslados. El enfoque en las paradas y los puntos de traslado es mejorar la accesibilidad, conectividad, movilidad y la seguridad para peatones, ciclistas y usuarios de tránsito mediante la identificación de lugares para los centros de movilidad en el vecindario, en la comunidad y a nivel comercial a lo largo de la interconexión de carreteras del pueblo. Un centro de mobilidad es la union del tránsito fluvial, el desarollo de lugares con usos mixtos para residencias, comercios y lugares de entretenimiento, y el movimiento masivo de personas.

QUE ESPERAR

El segundo taller de participación pública es a continuación del primer taller que ocurrió el 30 de abril del 2019. Habra un taller en inglés y en español para recibir comentarios de los residentes y para compartir diseños conceptuales. Gráficos sobre el proyecto se mostrarán y el equipo de este proyecto estará disponible para responder cualquier pregunta.

El taller de participación pública se lleva a cabo en un lugar de acceso universal. Bajo las disposiciones de la Ley de Estadounidenses con Discapacidades, se le pide a cualquier persona que requiera adaptaciones especiales para participar en la audiencia que avise a la ciudad a menos cuatro (4) dias hábiles antes de la audiencia comunicándose con el Secretario Municipal al (305) 234-4262. Si tiene problemas de audición o del habla, comuniquese con el pueblo a través del servicio de retransmisión de Florida al 1 (800) 955-8771 (TTY) o al 1 (800) 955-8770 o marque el 7-1-1.

Cualquier persona que no hable inglés y desee asistir a la audiencia pública debe comunicarse con el Secretario Municipal al (305) 234-4262 al menos cuatro (4) dias habiles antes de la audiencia, y se le proporcionara un interprete.

Apunte la fecha para el segundo taller de participación pública!

TALLER (ESPAÑOL*)

Fecha: Lunes, 23 de septiembre del 2019

Hora: 2:00 p.m.-4:00 p.m.

Lugar: **Pine Woods Villa** Club House Dining Room 8420 SW 188 Terrace Cutler Bay, FL 33157

TALLER (INGLÉS**)

Fecha: Lunes, 23 de septiembre del 2019

Hora: 6:00 p.m.-8:00 p.m.

Lugar: **Cutler Bay Town Center** Council Chambers, Ste 115 10720 Caribbean Boulevard Cutler Bay, FL 33189

*Bilingual interpreters will be available at the workshop

**Interpretes bilingües estarán disponibles durante el taller

CUTLER BAY MOBILITY HUBS PLAN



GUEST SIGN-IN SHEET

Public Meeting – Monday, September 23, 2019 | 2 P.M. to 4 P.M. Pine Wood Villas – Club House Dining Room (8420 SW 188 Ter)

NAME	BUSINESS OR GROUP	ADDRESS	TELEPHONE NUMBER	EMAIL ADDRESS
ALFREDO QUINTERD	REPRESENTING TOWN PR CUILGR BAM	10720 CARGEBERF BLUF	3/239-4262	AQUINSERACLUSULFERY-EL.G.
ChERY MOTSOO	Miami-Dade TRANSIT	701 NW1 CT, Miami FL 33136	786-469-5162	mots ce Omiamidade. gue
YENNER VEBA	TOWN OF BAY	10720 CALIBBEAN BLVD Silves	3/224.4262	VEGAP WHERBAY-FE. 609
Jolly Durm	Four	188675W85 Cl cyst 22	7 366414339	SALLYBORNSJOOQ GMAL
William Doulet		18867 SW Pl. cyt 11	305 7762396	Govlet@Gmail
Maria Borros		188685W 120pal	7 86 740 8004	maviela bosch 19670g. nela
Ulariele Back		11 11	ç t — 71	N 11 11
Makeca Lanozo		8498 Sal 188 ApT-17	7500001 5619327	342
Graceslahea	Outles By	11 11 ApTO 10	9862129656	Equacio catento permilicaro
Stellesday	CUTLER BAY	18868 SW 8374p18	The second design of the secon	
Marthe Corresp.	CUTERDO	18867 SV #H 84/9/9.	305 9244181	
Marthie Guerry	Cutler Bay	8630 SW 188 Ter opto 1		
Raulchyala	at In		7864120169	ž —
Carca Bild	uio V		186-6144461	
ARTEN Seo H	cuton	18868 S.W. 85 CT (15)	-186 - 406 - 0166	
Martenamo	100	18863 Sw 85ct (17)	786-129128-	

CUTLER BAY MOBILITY HUBS PLAN



GUEST SIGN-IN SHEET

Public Meeting – Monday, September 23, 2019 | 2 P.M. to 4 P.M. Pine Wood Villas – Club House Dining Room (8420 SW 188 Ter)

NAME	BUSINESS OR GROUP REPRESENTING	ADDRESS	TELEPHONE NUMBER	EMAIL ADDRESS
Felibe Juguero		1886 For 83 PL. a. F. 22 Cutter Bay	786 278 4922	MA
Jullermina Marrero		1868 SW 83 court Apt 14 Coller Bay	786-444-4779	4
JUSUS MARTINOZ		18867 50 83 PL 16		J.MB,
JOSE RODRIGU	EZ	1920 SW 204 ST	7-519-2069	Jose @ JRbuilders. Vs
Flightaduck		189545W86 07. 7	\$62853250	
Jauston Dais		1886820 38 PL. 14 Megni F.	7863:43-0820	
		18 867	78'638544	
Filli Delgoto		18867 SW 83 PL	3252882837	
Olage Ecken	Pine Woods Vil	la	305 542 8714	() _ /
Amead Corcea			305 988 1458	
Usa Maack	Marlin Ferg.	MOD NW 66 ave	954-870 5064	TWACK & Marlinengineum
berardo Gomez		U	4	BGomez@marlinerginer
Christing Fernin	a u	CL	u	Ctermin @ marlin argine
				J

CUTLER BAY MOBILITY HUBS PLAN



GUEST SIGN-IN SHEET

Public Meeting – Monday, September 23, 2019 | 6 P.M. to 8 P.M. Cutler Bay Town Center - Commission Chambers (10720 Caribbean Boulevard)

NAME	BUSINESS OR GROUP REPRESENTING	ADDRESS	TELEPHONE NUMBER	EMAIL ADDRESS	
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Cutler Bay Public Meeting Notes

Monday, September 23, 2019

2 PM – 4 PM

Questions:

- This presentation and project is wonderful, I really want to see the implementation, what year will this plan and improvements begin?
 - Answer: BRT set to begin 2022, amenities would be done in phases. Franjo Road is the next complete streets project set to begin by the Town from the Complete Streets Master Plan and will be completed in 2 years. The Town is also filling in sidewalk gaps identified in the Bicycle and Pedestrian Master Plan along SW 184th Street. This project will begin soon. This is another Master Plan for the Town that the City will be implementing and incorporating into the budget planning process.
- It is my understanding that Cutler Bay will be implementing what Palmetto Bay has done, Freebee?
 - Answer: Yes, the Town is in partnership with the County who has released a Request for Proposal. The Miami-Dade Commission must decide on a vendor and finalize the contract, we will most likely see this service in approximately 6 months.
- Sunday Route used to come at 9 am at the stop on Old Cutler Road by the Publix. Now the bus comes after 10 am. Church service begins at 10 am and I can no longer attend.
 - Answer: Route 70 used to operate on Sundays and was cancelled, the County now provides the Town Circulator service on Sundays beginning at 10:40 am. We will note your comment and include within the report.
- I have a golden passport, why do I have to pay for parking at the parking garage at Dadeland South?
 - Answer: The Fee covers the maintenance of the facility. There is a park and ride facility located near Target at SW 112 Ave along the Transitway nearby which is free to park.
- Resident (who could not attend, but submitted this question) uses the bus every day, wants to know if the Town can provide service every 30 minutes rather than every hour. Has medical issues and has difficult time waiting long periods of time.
 - One of the recommendations includes adding a counter-clockwise bus to assist in cutting down the time.
- Do buses have cameras?
 - Yes, all buses have camera equipment though some of the older bus's cameras may be malfunctioning, County has purchased new buses with newer equipment.
- Homeless man who uses the Town Circulator is often at the bus stop on Old Cutler Road near Publix and gets upset, sometimes aggressive, if someone sits in his seat. How do bus operators handle riders who are aggresive?
 - Bus operators may call dispatch to provide police services, bus operators can also place "Call Police" on their outside sign display.

Comments/Requests:

- A lot of people in Pine Wood Villas and East Ridge rely on bus service to provide transportation.
- Biggest issue for local residents is crossing SW 87 Ave., requesting a sidewalk with flashing beacon.
- Resident was told that Town would not install a crosswalk across 87 Ave because Traffic Engineers are in disagreement for installing a crosswalk where a traffic light does not exist.
- Resident request for Town to look at installing security cameras at bus stops.
- Can the bus operator advertise when they take their break? We never know when the bus driver is taking a break and it can be inconvenient at times.
- Town Staff requested report to show each transit route separately with arrows.
- Homeless who use bus often emits an offending odor.

6 PM – 8 PM

Questions:

- Will there be a fee at the parking garage proposed at SW 112 Ave? Current park and ride is free.
 - The fees charged for parking garages typically cover maintenance, though the County may be able to work out an agreement to keep the parking free.
 - Recommendation will include a public private partnership to activate the space and keep costs down.
- Can we park near the SW 211th Street bus stop (near the Southland Mall)? Will I get towed if I park there?
 - Mercedes is using that lot right now and County no longer advertises a park and ride here. Therefore, this area is no longer a park and ride lot.

Comments:

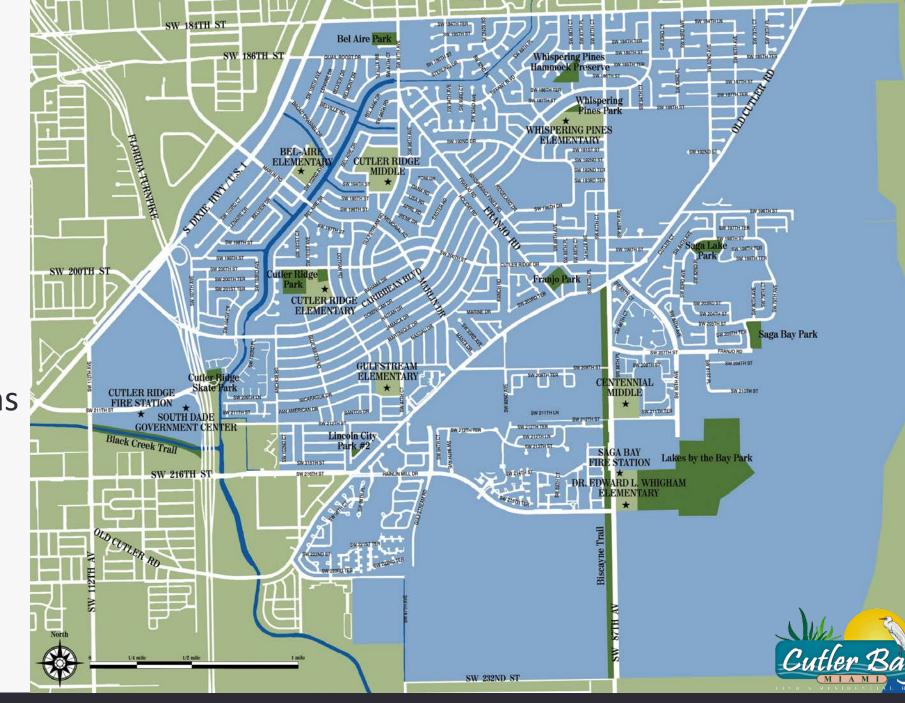
- TPO requests photos of public workshops and final powerpoint.
- Security a concern for traveling at night along the transitway, female regular transit rider had many concerns, is afraid of traveling on transit after dark.





Overview

- » Purpose
- » Background
- » Recommendations
- » Mobility Hubs
- » Open House







Boston Crosswalk

Scope of Services

- » **Identify** a comprehensive network of mobility hubs.
- » Improve mobility and safety for pedestrians, bicyclists and transit users.
- » Assess the Town Circulator and provide recommendations.
- » Final recommendations will be evaluated and prioritized.



Schedule

Town of Cutler Bay Mobility Hub Plan

TASKS AND SUBTASKS	November '18	December '18	January '19	February '19	March '19	April '19	May '19	June '19	July '19	4	Contract on U.O.	October '19
Task 1. Background Information/Existing Conditions	November 13	December 18	January 19	reordary 19	Marth 19	Арги 19	May 19	June 19	July 19	August '19	September 19	October 19
a. Review relevant Multi-modal transportation planning studies												
b. Obtain and assess Existing / Future Land Use and Zoning and ROW	} <u>†</u> ††	┠╍┼╍┼╍	┠╍┧╍┼╍┼╍	┟╌┼╌┼╌╂╌╴			<u> </u>		╏╌┧╌┼╌┼╌			
c. Obtain MDDTPW, Town Circulator Stop and Ridership Data and Files	┝╍┼╍╁╍╆╍╸	┠╍┼╍╂╍┼╍╸	┠╍┨╍┼╍┼╍		┠╍┼╍╂╍┼╍		╂╍┼╍┼╍╂╍╸		╏╌╏╌╎╌╎	┼╌┼╌╁╌		
Task 2. Public Involvment and Coordinatio												
a. Project Management Teleconferences (6, 30 Minutes)	<u>, , , , , , , , , , , , , , , , , , , </u>		<u> </u>		<u> </u>				<u> </u>			
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b. Coordination with Public, TPO, MD DTPW												┝╍╍┠╍╍┽╼
c. Town Commission Meetings (2)												
d. Community Meetings (2)												
e. Study Advisory Group (3 meetings)												
Task 3. Data Collection and Transit Hub Assessment												
a. Interview Town Circulator Drivers/Operator												
b. Ride Town Circulator Routes and Use Speedtracker for Speed/Delay and Rider	<u> </u>	┠╍┼╍┠╍┼╍					<u> </u>		 	┟╍┼╍┼╍╂╍		
Survey	┠╍┿╍┿╍╍╋╍╍	┠╍┿╍┠╍╍			┠╍╁╍╉╍┧╍╸		┠╍┿╍┽╍╋╍╸	┝╾╾╪╼╼╂╾╍┼╾╍		┝╍┥╍┥╍		┝╍╍┠╍╍╄╼
c. Interview Metrobus Riders at transfer points and at Cutler Bay Transitway Stations												
d. Analysis of MIOVision results	┟╍┼╍┼╍╂╍╸		┠╍┨╼┼╍┼╍	┝╍┿╍╈╍			╏╌┼╌┼╌╂╌╴		╏╌╏╌╎╌╎╌	┟╍┼╍┼╍╂╍	╏╍┼╍╂╍┼╍╸	┝╾╋╾┿╾┿╴
e. GIS Analysis of ridership and route demographics	} ──┼──┼── ┼ ──	╏╍┼╍╏╍┼╍			┠╍┼╍╁╍┼╍╸		<u> </u>		ti ii	<u> </u>		
f. Development of alternative system routes and schedules				<u> </u>			<u> </u>		 			
g. Sketch Planning Stop/Hub Utilization Assessment	┠╍┽╍┾╍╋╍╸	┠╍┽╍╆╍┿╍╸	┠╍╁╍┼╍┾╍	┠╍┾╍┿╍╋╍┅	┫╍╍┼╍╍╅╍╍┼╍╍	┠╍╍┠╍╍┽╍╍┾╍╍	╂╍┽╍┼╍╊╍╸	┝╍┼╍╂╍┽╍	╉╍╆╍┾╍┾╍	┠╍┼╍┼╍╉╍	┫╾╍┽╾╍╅╼╍┥╌╌╴	┝╍╋╍╍┾╍┼╸
h. Capital, O&M Cost Analysis (3 Schedules)	┠╍┼╍┼╍╋╍╸	┠╍┼╍┠╍┼╍	┠╍┨╍┼╍┼╍	┠╍╁╍╁╍╉╍┅	┠╍╅╍╅╍		┟╍┽╍╁╍╊╍╸	╺╍╅╍╋╍╅╍	┠╌╁╌┼╌┼╌	┟╍╁╍╁╍╂╍		┝╍╊╍┾╍┿╸
Task 4. Mobility Hub siting and Conceptual Design	L	┠──┴──┨───┟──╴	L lLL	L	III	laasia daadaa daa	III	laadiaa kaadaaa	L iii	L	I i i	llli
a. Hub Siting Analysis up to 12 locations												
b. Development of Neighborhood, Community and Central Hub Templates	<u>}+</u>	 	 	t	 		****		** *	<u> </u>		 - +-
c. Review of Right of Way, Adjacent Land Use and Ped/Bike Access												
d. Assessment of permitting requirements												
e. Cost Estimates 12 locations												
Task 5. Documentation												
a. Recommendations: Prioritization												
b. Potential Funding							┟╍┿╍┝╍╻					
c. Powerpoint presentations for Commission Meetings												
d. Final Report												

Background

The Strategic Miami Area Rapid Transit (SMART) Plan



South Dade Transitway

- 20-miles from Dadeland South Metrorail Station to SW 344th Street Park and Ride/Transit Terminal
- Connects Miami CBD to Village of Pinecrest, Village of Palmetto Bay, Town of Cutler Bay, City of Homestead, and Florida City.
- BRT to begin by 2022



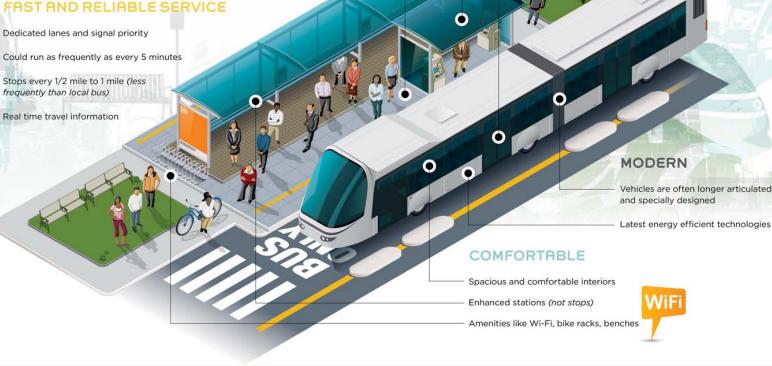
Bus Rapid Transit (BRT)

- High-Quality Bus-**Based Transit System**
- Dedicated Lanes
- Transit Signal Preemption
- Fast
- Comfortable
- Frequent

WHAT IS BRT? LIGHT RAIL ON TIRES

Bus Rapid Transit (BRT) is one of the technologies that could be used to implement Rapid Transit Service in key, heavily traveled corridors. BRT is essentially light rail on rubber tires - offering almost identical services features and characteristics as light rail. but with a significantly lower cost. BRT is intended to move large numbers of people quickly and efficiently to their destinations.

FAST AND RELIABLE SERVICE



CONVENIENT

Off-board fare collection

Multiple doors for quick boarding

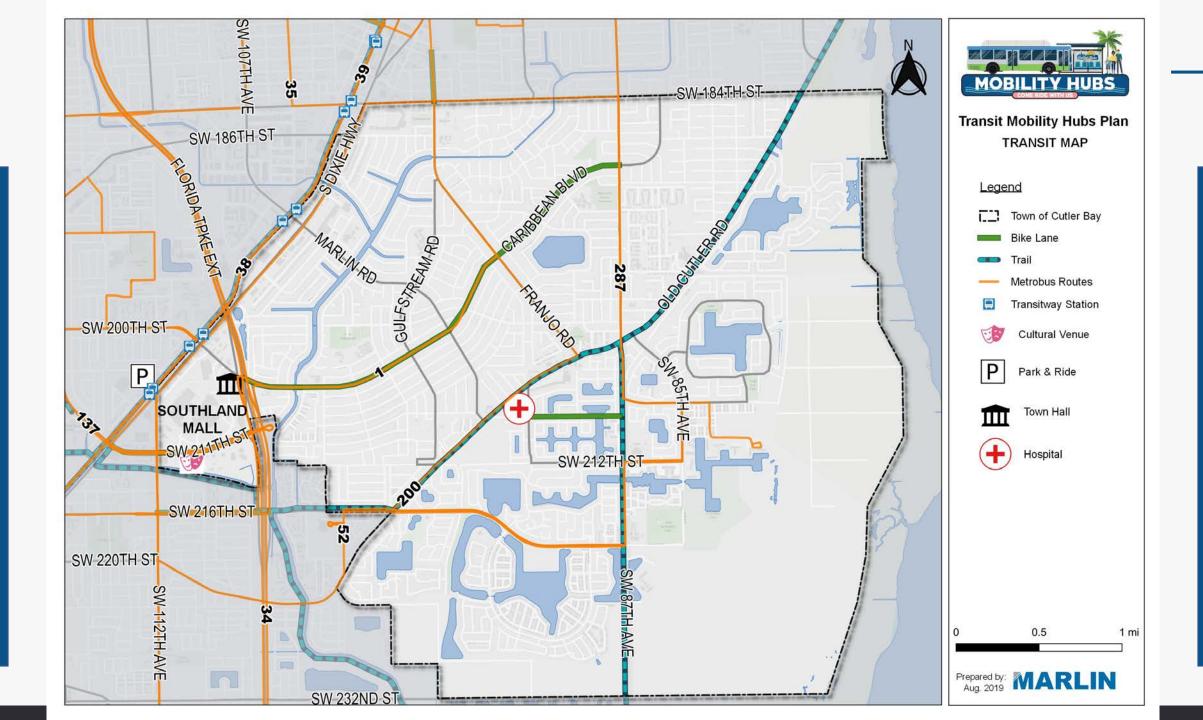
INDY CONNECT

Level boarding

Station Rendering

DRAFT – South Dade Rapid Transit Corridor PD&E August 2018





Recommendations



Town Circulator (Route 200)

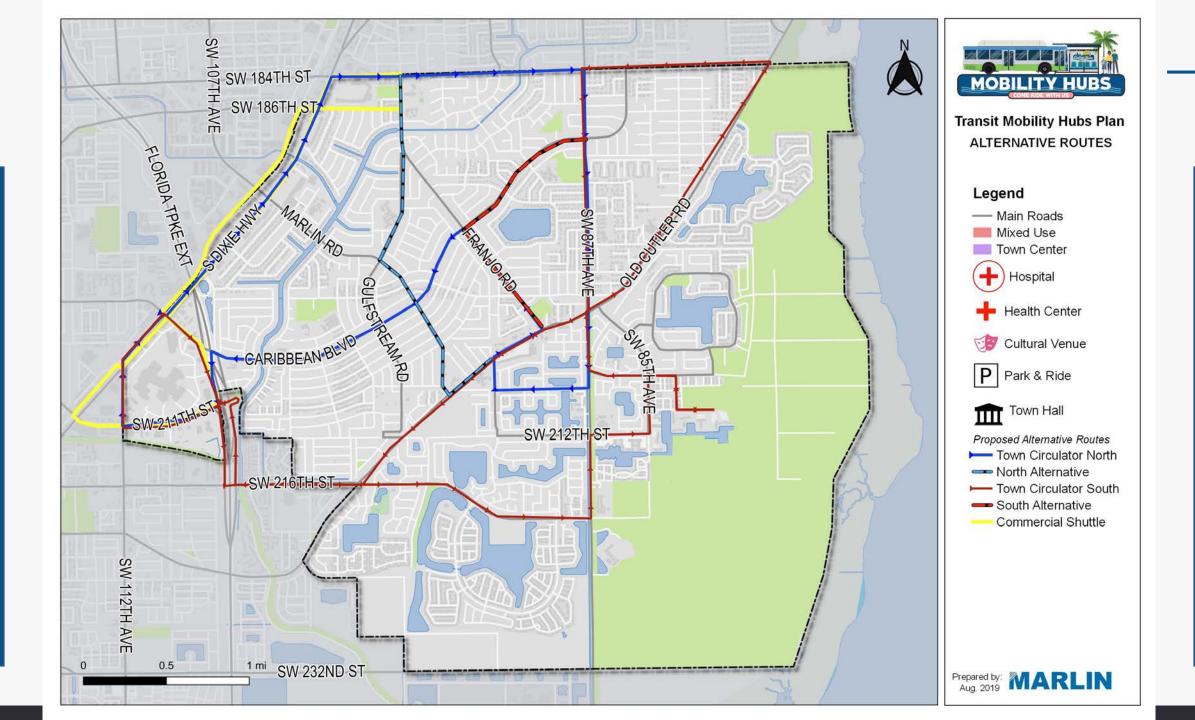
» IMMEDIATE:

 » Extend hours of operation to include peak travel periods
 » Add additional bus counterclockwise

» FUTURE (Optional):

» Bifurcate Route with modifications to serve additional residents





Mobility Hubs



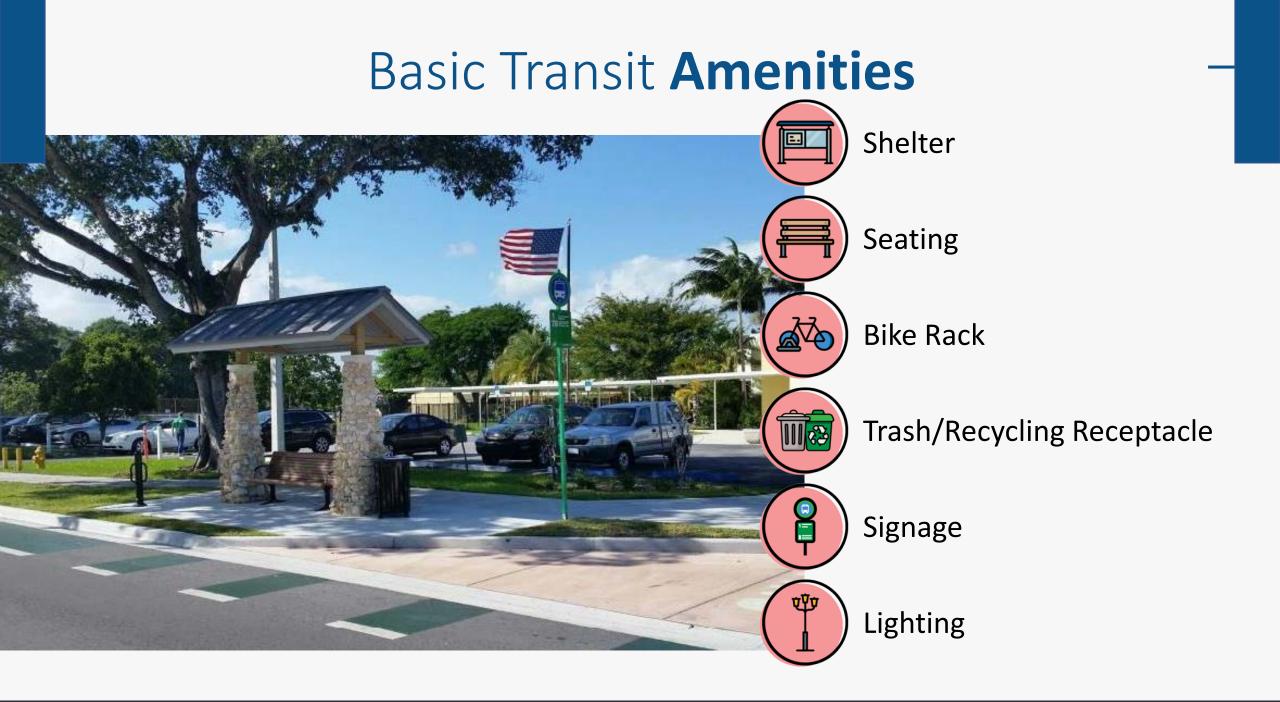
What is a Mobility Hub?

"a location where more than one transit route converge, an area where bicycle and pedestrians have access to local land uses, major generators and have land uses that cater the mass movement of commuters."

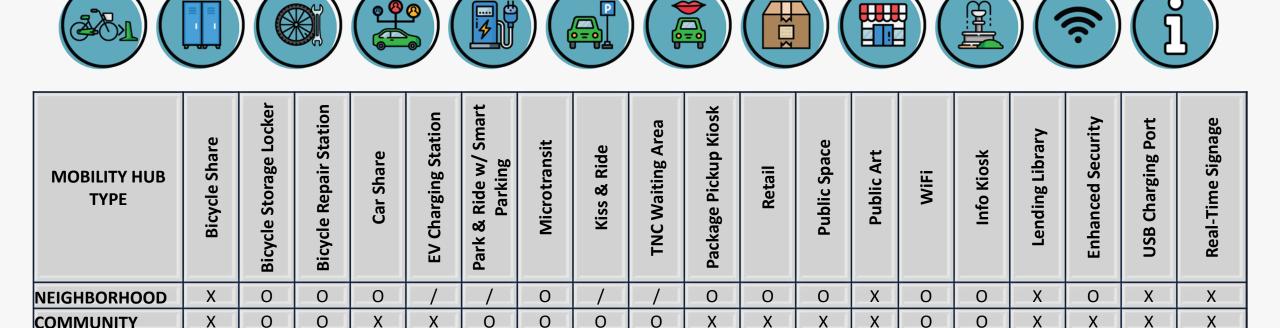
 Town of Cutler Bay Complete Streets Corridor Analysis



Source: LA Department of Planning Mobility Hubs A Reader's Guide



Mobility Hub Amenities





X - RECOMMENDED O - OPTIONAL / - NOT APPLICABLE

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REGIONAL

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Mobility Hubs

Neighborhood Hubs

Lakes by the Bay

» 216 St / 85 Ave

Cutler Ridge

» Caribbean Blvd / Anchor Rd

Caribbean / Franjo

» Caribbean Blvd / Franjo Rd

Pine Wood

» 87 St / 190 St

Eureka Drive East

» 184 St / Old Cutler Rd

The Isles

» 216 St / Vacant Parcel

Community Health

» 102 Ave / 216 St

Community Hubs

Marlin

» Marlin Rd / US 1

Eureka Drive West

» 184 St / US 1

Town Center

» Old Cutler Rd / Franjo Rd

Miami Heights

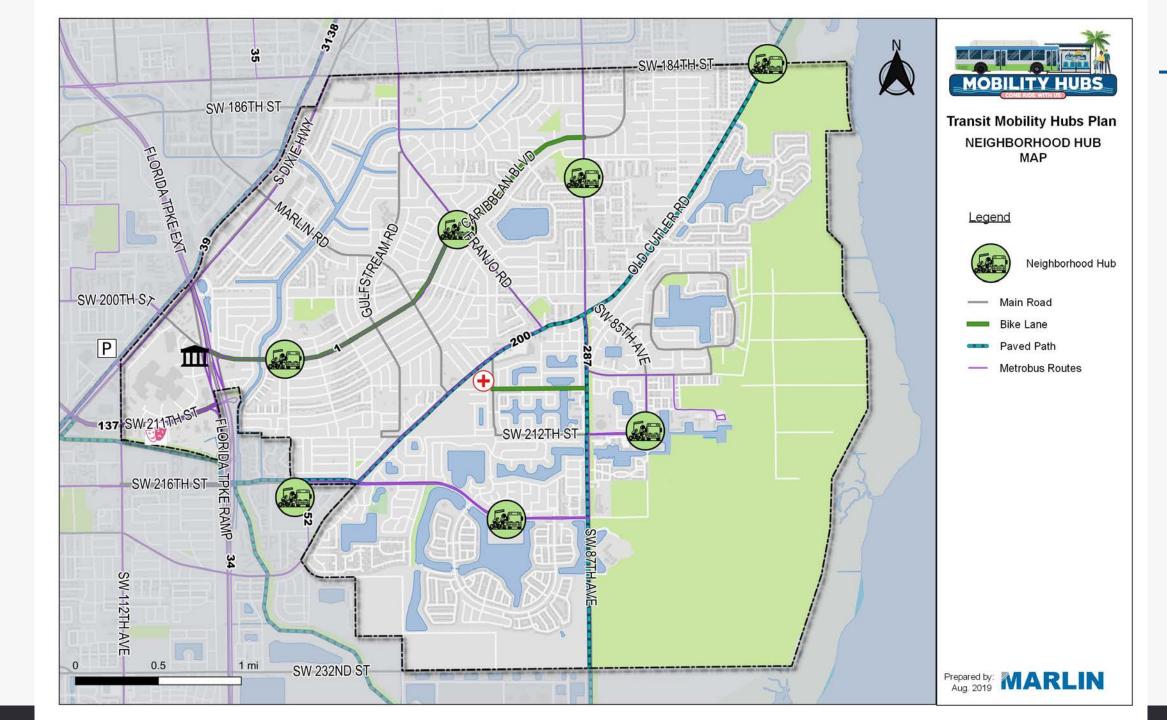
» 200 St / US 1

Regional Hub

Cutler Bay

» 112 Ave & US 1





Neighborhood Hubs: Amenities





Neighborhood Hubs: Infrastructure



All Neighborhood Hubs

- » Missing sidewalk links
- » Enhanced Pedestrian Crossings
- » Pedestrian Signage
- » Enhanced Landscaping
- » Artistic Box Wraps

Where Feasible

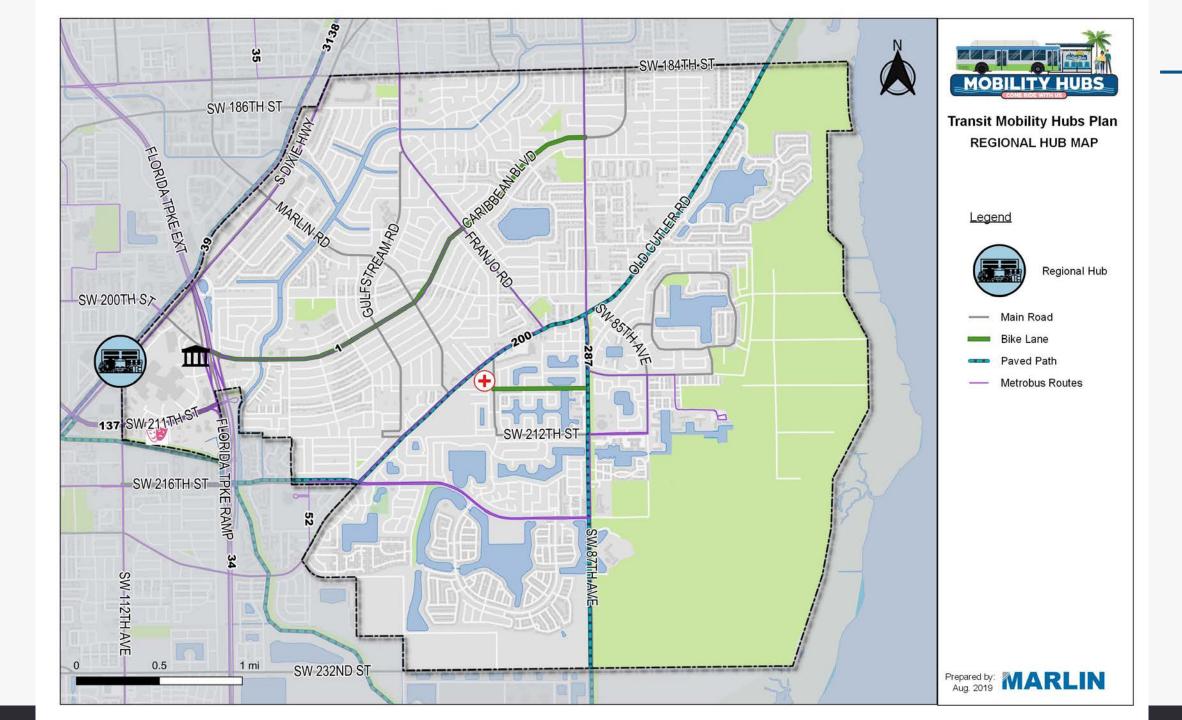
- » Pedestrian Lighting
- » Bike Lanes
- » Curb Extension
- » Midblock Crossing
- » On-Street Parallel Parking
- » Multiuse Path

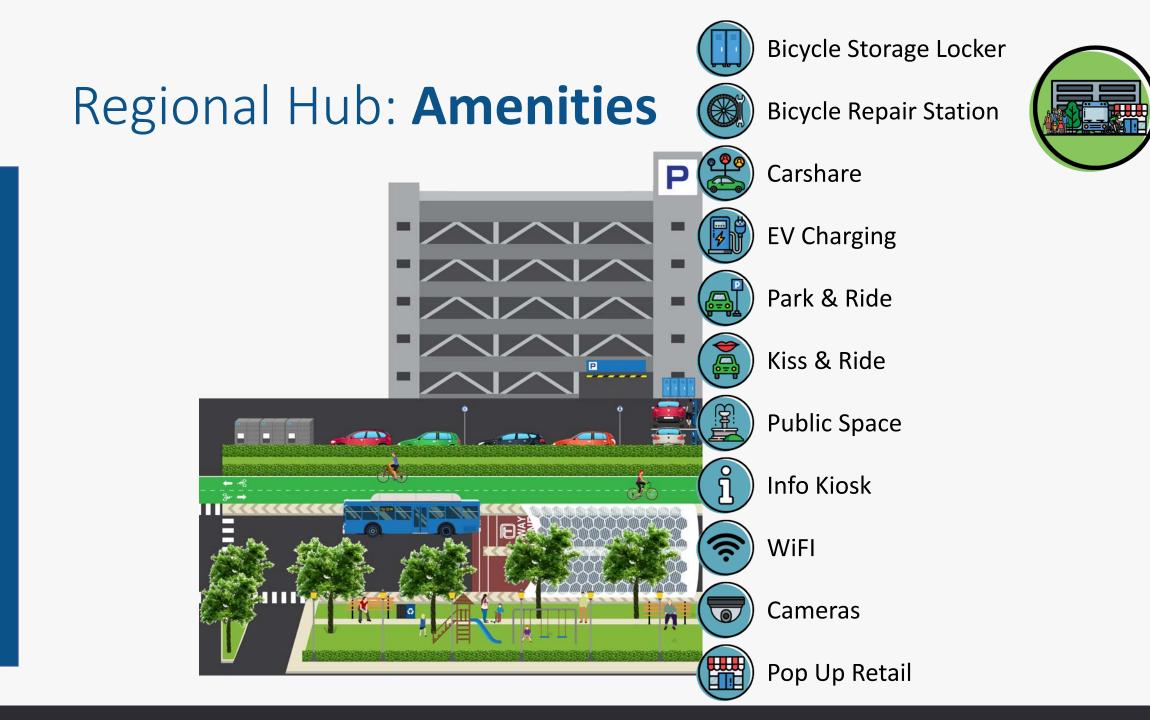


Community Hubs: Infrastructure



All Community Hubs	Where Feasible
» Missing sidewalk links	» Public Plaza
» Enhanced Pedestrian Crossings	» Park & Ride
» Pedestrian Signage	» Kiss & Ride
» Enhanced Landscaping	» Midblock Crossing
» Artistic Box Wraps	» Public Art
» Bike Signal	
» Bike Lanes or Multiuse Path	
» Pedestrian Lighting	





Regional Hub: Infrastructure

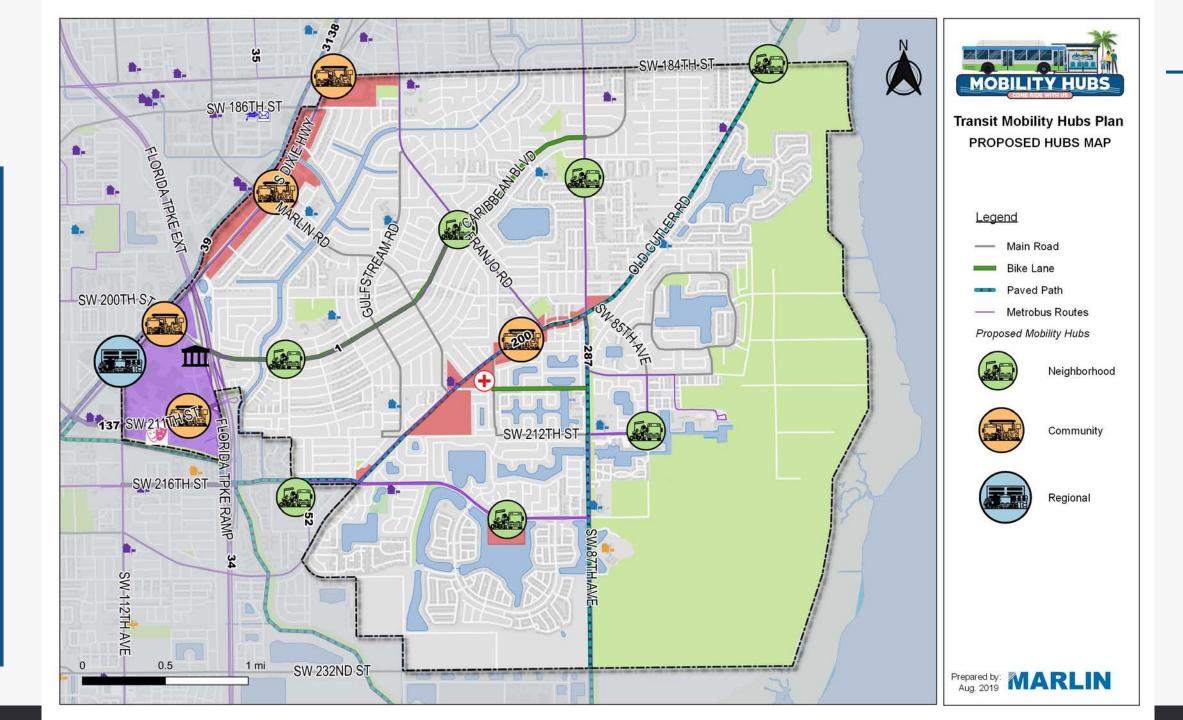


Recommendations

» Parking Garage
» Kiss & Ride
» TNC Waiting Area
» Rework of Entrance
» Enhanced Crossings
» Pedestrian Signage

Town of Cutler Bay

» Enhanced Landscaping
» Mixed Use Development
» Linear Park
» Information Kiosk
» Artistic Box Wraps
» Public Art



Recommendations

- » Support Previous Recommended Bike/Ped Improvements
- » Support of Town Street Tree Master Plan
- » Supports Increased Density & Mixed Use along US 1
- » Branding/Marketing Plan
- » Curbside Management Plan
- » TDM Program

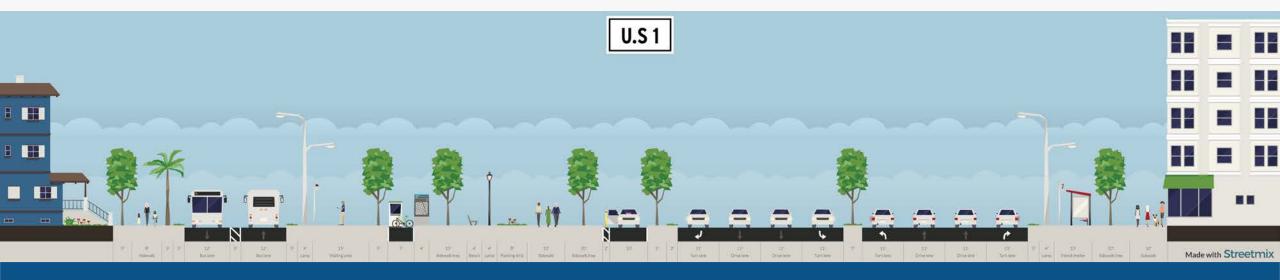
» Explore the use of Shared Mobility

- » Create Transit Partnerships with Neighboring Communities
- » Implement Green Infrastructure Techniques
- » Pedestrian Promenade along US 1 / Transitway Island

Reimagining US1/W Dixie Highway



Location: US1 & SW 200 Street



LINEAR PARK **EXAMPLES**



2 2

What would make **YOUR** community more walkable?

How could Transit be more **CONVIENANT** than driving?

Change is inevitable, how could change be **POSITIVE**?



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Appendix V

Development Review Checklist for Mobility Hub Elements



MOBILITY HUB CHECKLIST							
lements	Standard	Example	Coodinating Agency	To Be Considered (Yes, No, N/A)	Comments		
Pedestrian				(100)1001101			
Connected Sidewalks	Section 3-72, 3-80 & 3-134	5' Minimum unobstructed, 8' preferred	Town Planning Dept.	1			
Jniversal Design	ADA Requirements	Clear Zone, sloping, clearance	Town Public Works Dept.	1			
Elorida Native Canopy Trees for shade. Right Tree/Right Place:		Live Oak, Mahogany, Gumbo Limbo, Verawood, Black Ironwood, Simpson		1			
itreet Trees	Sections 3-102, 3-133 (15) & Town Street Tree Master Plan	Stopper, etc	Town Public Works Dept.				
edestrian Lighting	25' - Full Cutoff, Warm White: Section 3-151	Town Approval	Town Public Works Dept.	1			
rosswalks	Pavers, Stamped Asphalt, High Emphasis or similar: Section 3-133	Complete Streets Corridor Analysis (p. 51), Town Mobility Hubs Plan (p. 74)	Miami-Dade DTPW	1			
Aid-Block Crossings	Flashing Beacon, Signage, Crosswalk, Traffic Light	Complete Streets Corridor Analysis (p. 51)	Miami-Dade DTPW				
edstrian Signals	County Standard	Push Buttons/ Countdown / Lead Pedestrian Interval (LPI)	Miami-Dade DTPW				
In Street Parking	22' x 8' (+ optional door zone): Section 3-140 & 3-142	SW 208th Street	Town Planning Dept.				
eating	None	Benches, Seats, Standing Bars	Town Planning Dept.				
nternal Circulation	Section 3-133	Pedestrian Connectivity, Completing the Network	Town Planning Dept.				
ollards	Device to stop vehicles from crossing into pedestrian zone	Bollards, Planters or similar	Town Planning Dept.	+ + + + + + + + + + + + + + + + + + + +			
Complete Streets Treatment	Section 3-133	Refer to Town of Cutler Bay Complete Streets Corridor Analysis	Town Public Works Dept.	+ +			
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licycle				+ +			
Bicycle Parking	6 per 50,000 SF: Section 3-72	Bicycle Rack, Storage Lockers, Bicycle Parking Areas	Town Planning Dept.	+ +			
showering Facilities	Section 3-72	Optional, facilities for biking to work	Town Planning Dept.	1 1			
showering Facilities	5' Bike Lane, 8' Shared Use Path, or Protected/Buffer Bike Lanes:		Town Planning Dept.	+ +			
Bicycle Facility		Town Mobility Hubs Plan (p. 75)	Taura Bublia Marka Dant				
	Section 3-133		Town Public Works Dept. Miami-Dade DTPW				
Bicycle Repair Station	County Standard	See Old Cutler Road Bike Repair Stations, Bike Repair Shop	Miami-Dade DTPW				
Transit	The state of the state		To a D LP We do Doot				
Shelter	Town Adopted Standard	See Old Cutler Road	Town Public Works Dept.				
eating	Town Adopted Standard	See Old Cutler Road	Town Public Works Dept.				
Trash/Recycle Receptacle	Town Adopted Standard	See Old Cutler Road	Town Public Works Dept.				
ighting	Section 3-151	Adequate shelter lighting	Town Public Works Dept.				
Right-of-Way	Article II	ROW for Transit Shelter & Amenities	Town Public Works Dept.				
				-			
Amenties	to be considered for placement near Transit						
Bikeshare	Town Mobility Hubs Plan	Docking Station such as Citibike or similar	Town Public Works Dept.				
Carshare	Town Mobility Hubs Plan	Zipcar or similar	Town Public Works Dept.				
Park & Ride	Town Mobility Hubs Plan	Marked Spaces, Signage	Town Public Works Dept.				
Kiss & Ride	Town Mobility Hubs Plan	Managed Curbside Area	Town Public Works Dept.	<u>+</u>			
V Charging Station	Town Mobility Hubs Plan	Tier 1, 2 or 3	Town Public Works Dept.	<u>+</u>			
Aicrotransit	Town Mobility Hubs Plan	Shuttle service, Golf Carts, or similar	Town Public Works Dept.	<u>+</u>			
Package Pickup Kiosk	Town Mobility Hubs Plan	Amazon locker or similar	Town Planning Dept.	<u> </u>			
Public Space	Town Mobility Hubs Plan	Pocket Park, Linear Park, Plaza, Space	Town Planning Dept.	<u> </u>			
Public Art	Town Mobility Hubs Plan	Local Artist Partnership/Box Wrapping of Mechanical Equip.	Town Planning Dept.				
ViFi	Town Mobility Hubs Plan	Hotspot	Town Public Works Dept.				
nhanced Security	Town Mobility Hubs Plan	Emergency Callbox, Security Cameras, Lighting	Town Public Works Dept.				
ISB Charging Station	Town Mobility Hubs Plan	Near Transit or Public Space	Town Public Works Dept.				
Vayfinding	Town Mobility Hubs Plan	Town Adopted Standard	Town Public Works Dept.				
nformation Kiosk	Town Mobility Hubs Plan	Transit & Community Information Display Kiosk	Town Public Works Dept.				
Retail	Town Mobility Hubs Plan	Near Transit	Town Planning Dept.				
Other:	Town Mobility Hubs Plan	Amenity supporting Mobility Hub	Town Planning Dept.				
Aaintenance Plan	Maintenance of Pedestrian, Bicycle and Transit Facilities		Town Public Works Dept.				