



Presented by: Parsons Brinckerhoff, Inc.



Today's Meeting



Existing Corridor Characteristics

- Passenger Movement
- Traffic Conditions
- Physical Constraints
- Roadway Configuration Analysis

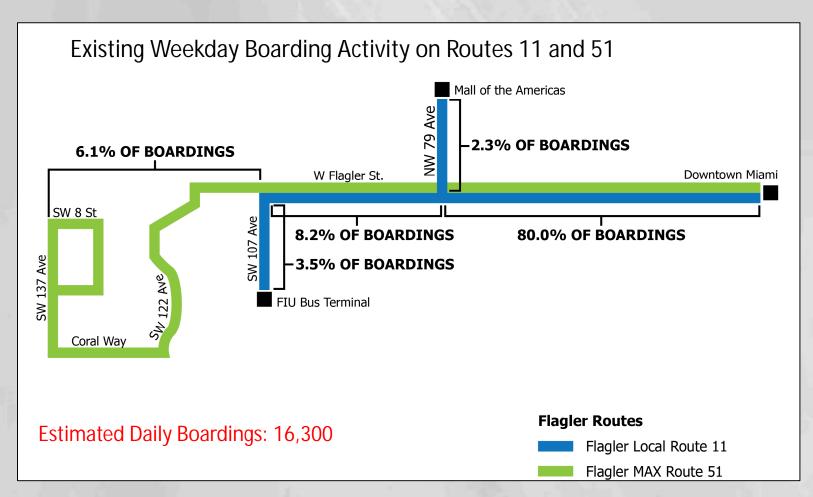
EBS Recommendations

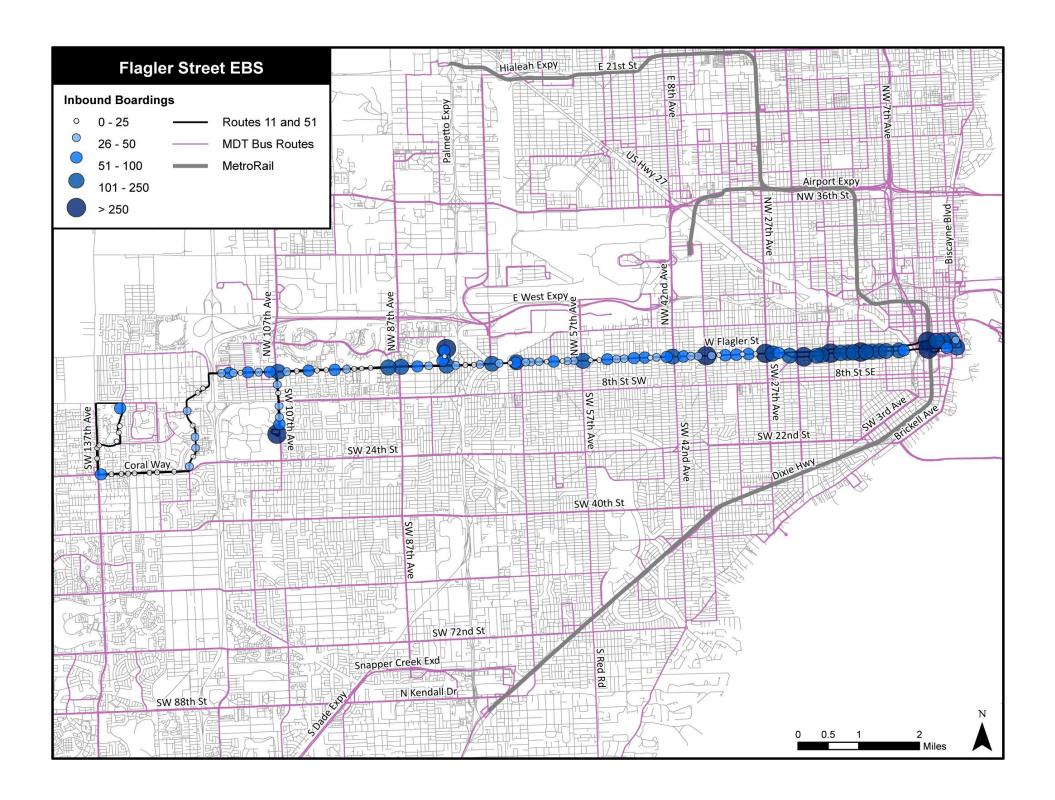
- Service Plan
- Station locations
- Park-and-Ride locations
- •EBS Implementation Plan

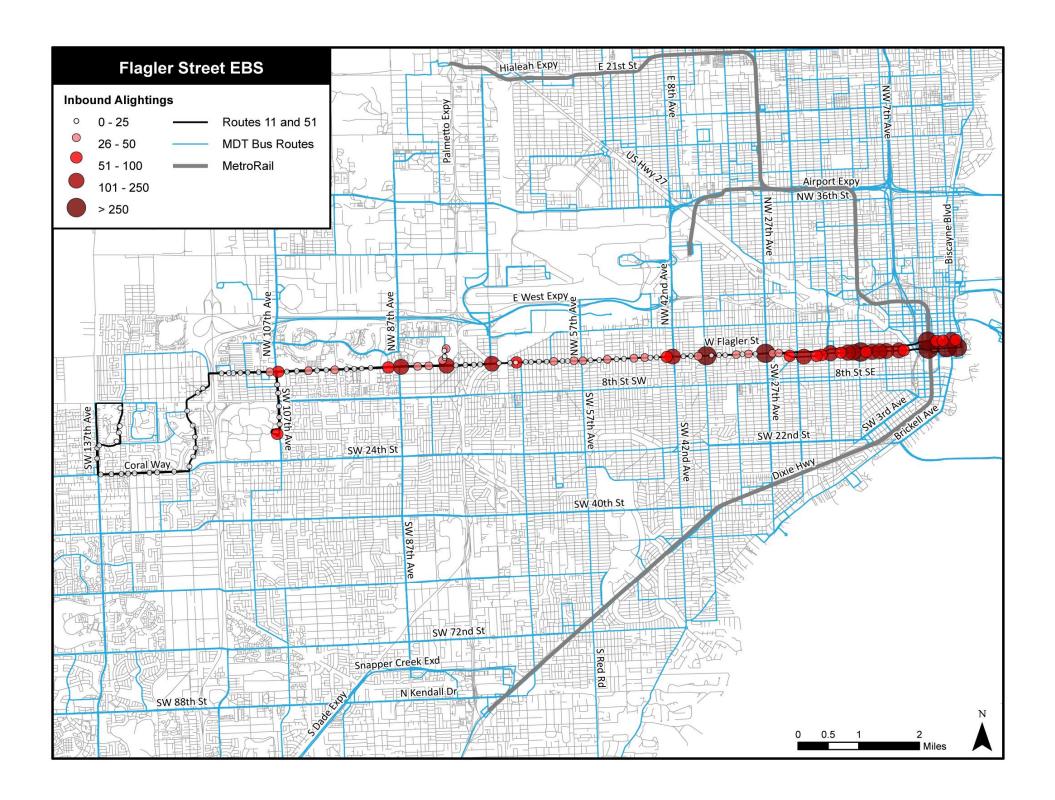


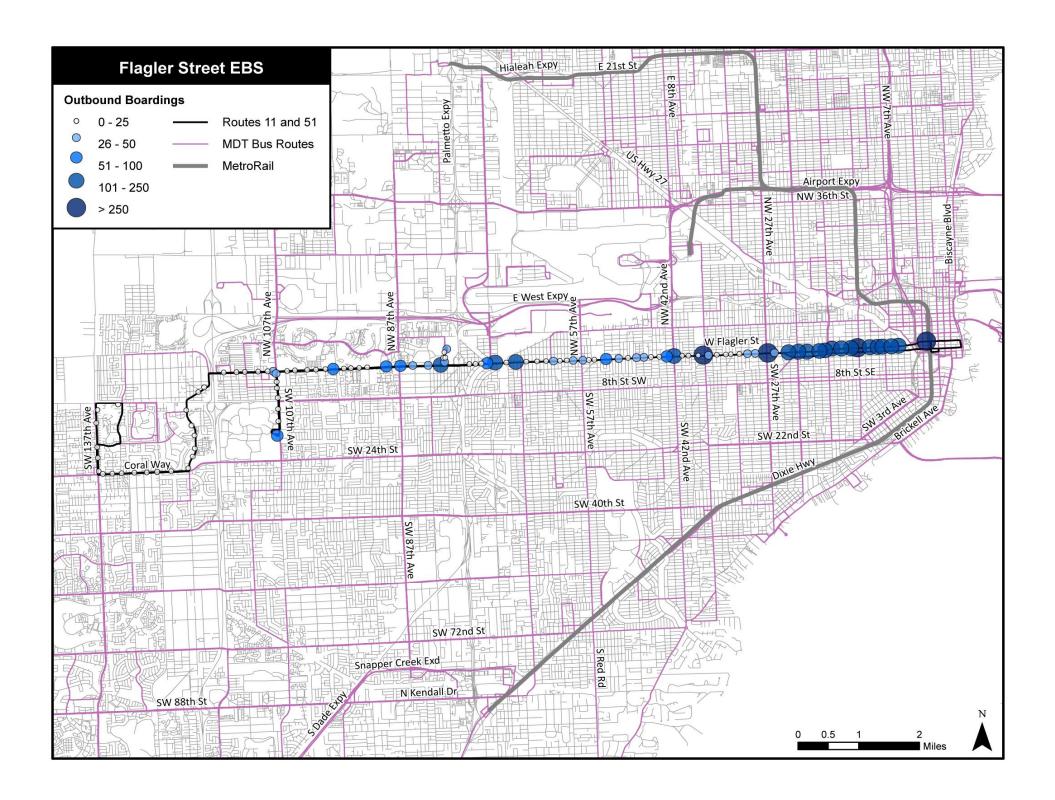
Existing Service Plan

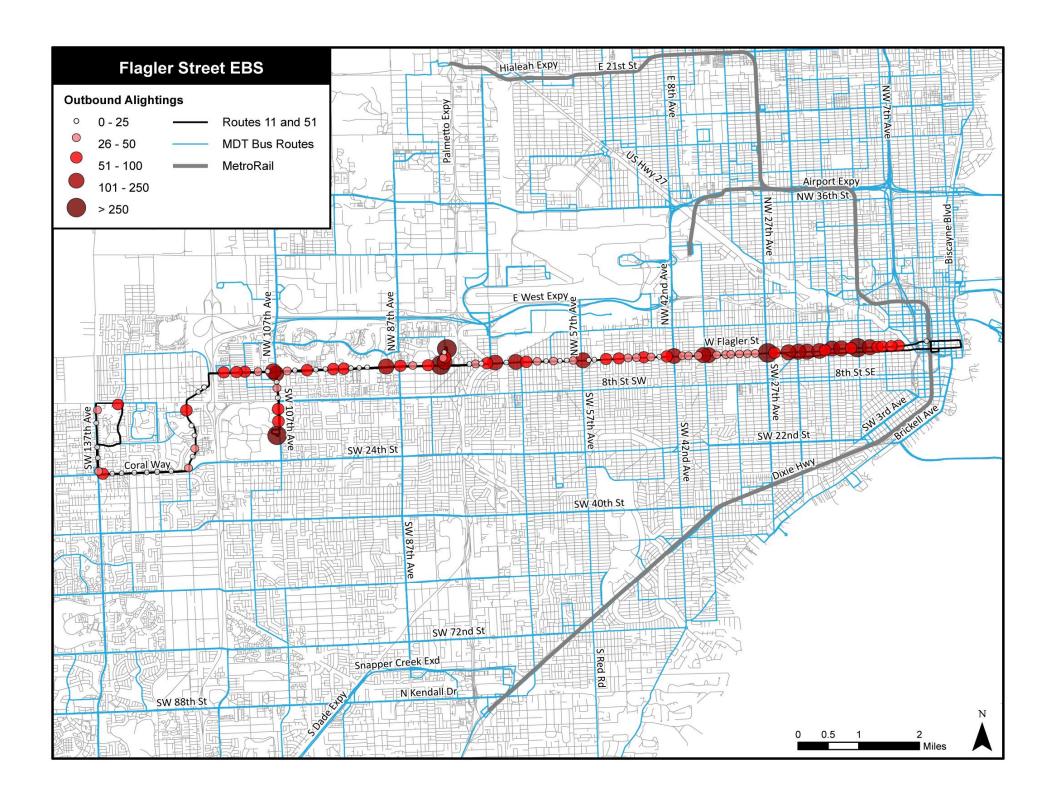


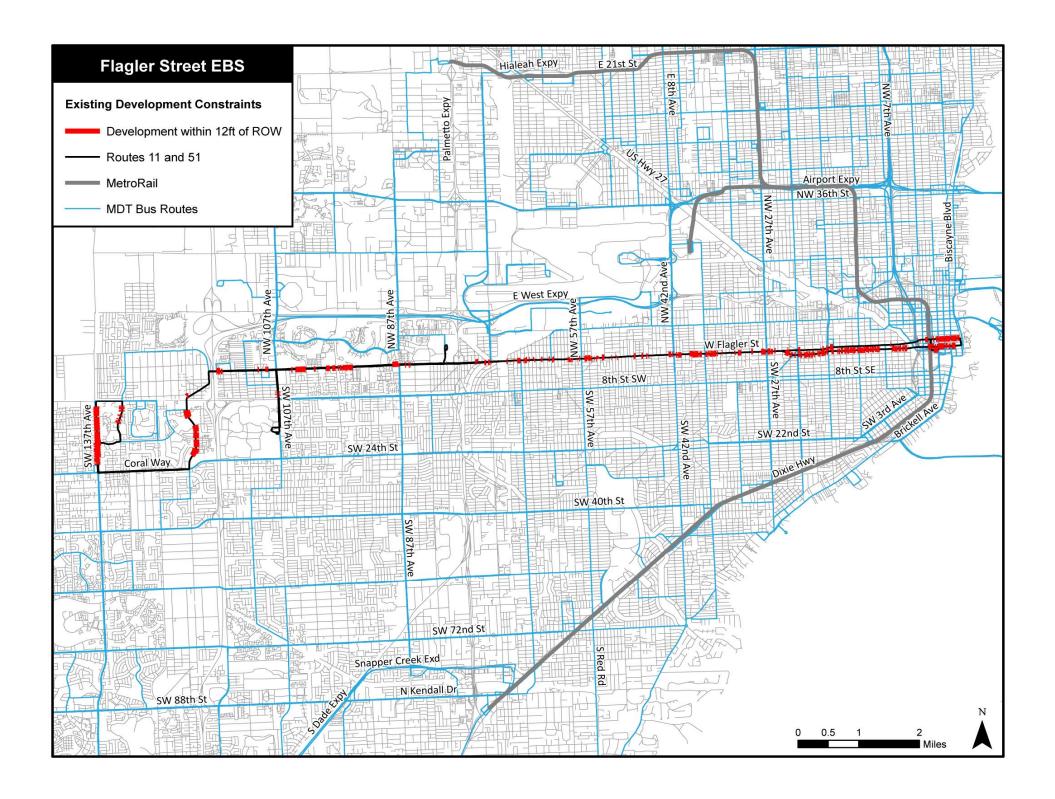














Roadway Configuration Analysis



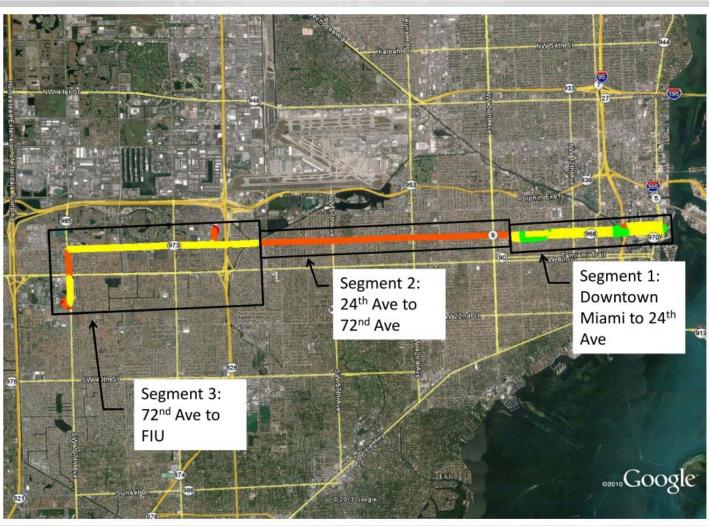
Directional through lanes

Green: 4

Yellow: 3

Orange: 2

Red: 1





Traffic Analysis



								Can we take a lane?			
Segment	Description	EB Capacity	WB Capacity	AM EB Demand	AM WB Demand	PM EB Demand	PM WB Demand	AM EB	AM WB	PM EB	PM WB
1	Two-way segment along Flagler St. from NW 107th Ave. to NW 87th Ave.	1,950	1,950	1,950	1,000	1,250	2,100	No	Yes	Yes	No
2	Two-way segment along Flagler St. from NW 87th Ave to Palmetto Expy.	2,859	2,859	1,950	1,250	1,700	2,150	No	Yes	Yes	No
3	Two-way segment along Flagler St. from Palmetto Expy to NW 72nd Ave.	2,859	2,859	2,300	1,300	1,800	2,550	No	Yes	Yes	No
4	Two-way segment along Flagler St. from NW 72nd Ave to NW 57th Ave.	1,888	1,888	1,200	1,250	1,300	1,800	No	No	No	No
5	Two-way segment along Flagler St. from NW 57th Ave to Le Jeune Rd.	1,888	1,888	1,100	800	1,200	1,400	No	Yes	No	No
6	Two-way segment along Flagler St. from Le Jeune Rd to NW 24th Ave.	1,888	1,888	1,150	900	1,150	1,250	No	Yes	No	No
1 /	One-way EB along SW 1st St. and One-way WB along Flagler St between NW 24th Ave and NW 12th Ave	2,340	2,340	2,250	1,100	1,700	2,000	No	Yes	No	No
1 8	One-way EB along SW 1st St. and two-way segment along Flagler St. from NW 12th Ave to NW 6th Ave.	2,340	2,340	1,350	950	1,050	1,200	Yes	Yes	Yes	Yes
1 9	One-way EB along SW 1st St. and One-way WB along Flagler St. from NW 6th Ave to I-95.	3,120	2,340	650	150	550	450	Yes	Yes	Yes	Yes
1 10	One-way EB along SW 1st St. and One-way WB along Flagler St. from I-95 to NW 2nd Ave.	2,340	780	675	150	550	475	Yes	No	Yes	No
1 11	One-way EB along SW 1st St. and two-way segment along Flagler St. from NW 2nd Ave to Biscayne Blvd.	2,340	780	500	200	600	400	Yes	No	Yes	No



Roadway Configuration Analysis



				Restricted Curbside Bus Lanes				
	Median Busway	Reversible Center Bus Lane	Curbside Busway	Restricted Curbside Bus Lane with Reversible Center Lane for Autos	Restricted Curbside Bus Lane (All Times)	Restricted Curbside Bus Lane (Peak Periods; Both Directions)	Restricted Curbside Bus Lane (Peak Periods; Peak Directions)	Mixed Traffic
Segment 1 Flagler Street and SW 1st Street One-Way Pair								
Segment 2 Flagler Street between NW 24th Avenue and NW 72nd Avenue								
Segment 3 Flagler Street between NW 72nd Avenue and SW 107th Avenue to FIU								

Key: Red: Unlikely; Yellow: Possible; Green: Most Likely



Queue Jump Lane Analysis

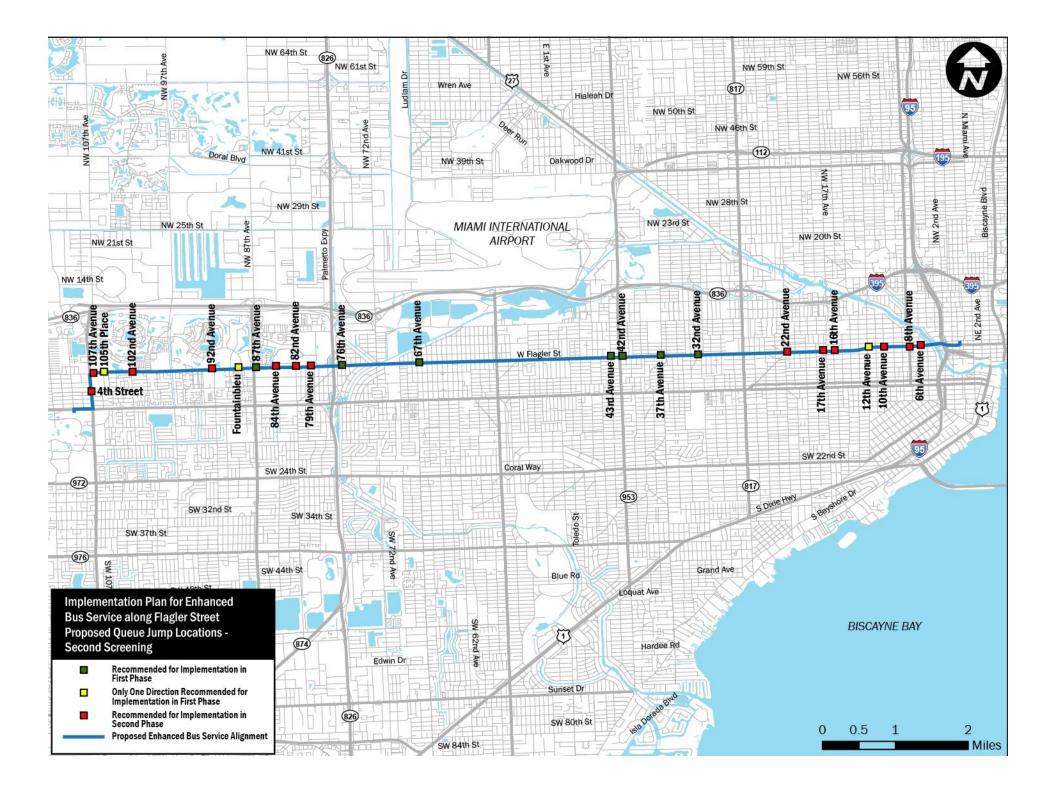


Preliminary Screening

- Station location
- Segment Level of Service (LOS)
- Availability of a right turn lane
- Availability of right-of-way

Secondary Screening:

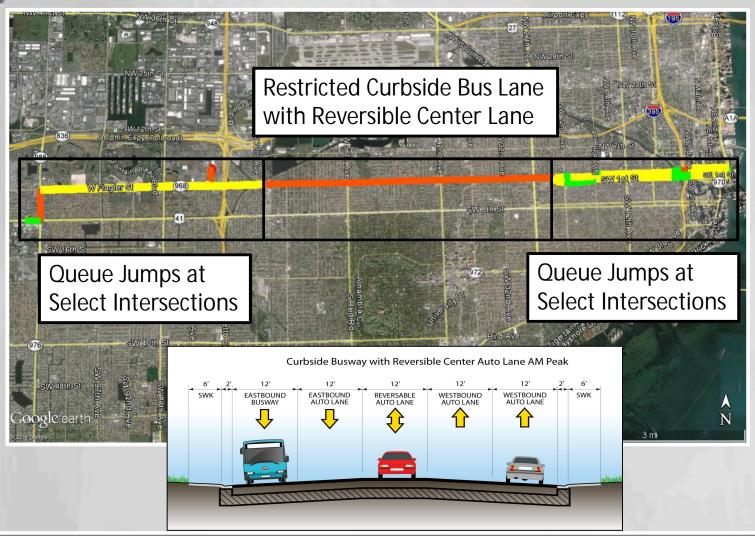
- AM/PM Peak period field observations
- Queue length
- Station location
- Right-of-way constraints





Recommended Roadway Configuration Analysis







Service Plan Analysis

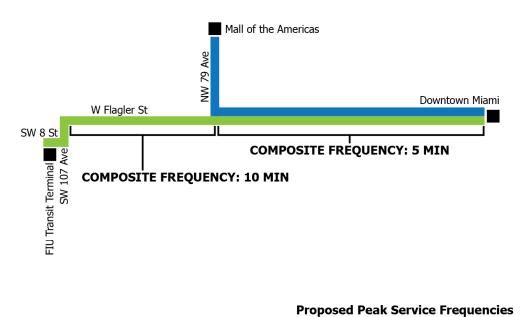


- Recommendation:
 - Concentrate all EBS service between FIU and Downtown Miami
 - Will improve travel times by:
 - Increasing frequency in some segments
 - Shifting trips to Limited Stop EBS service











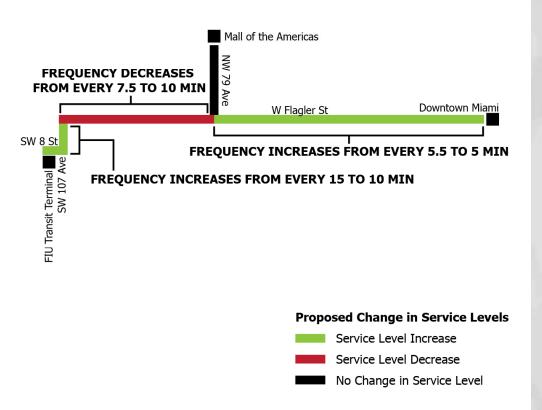
Flagler EBS - Every 10 minutes

Local - Every 10 minutes





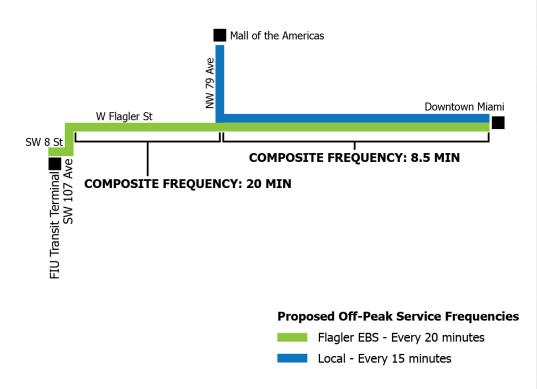
Flagler EBS: Peak Service Changes







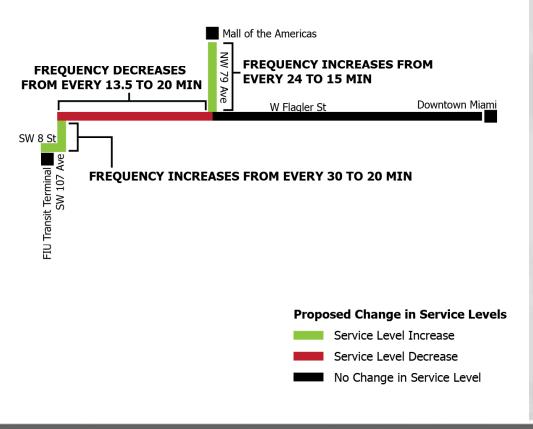
Flagler EBS: Off-Peak Service Plan







Flagler EBS: Off-Peak Service Changes

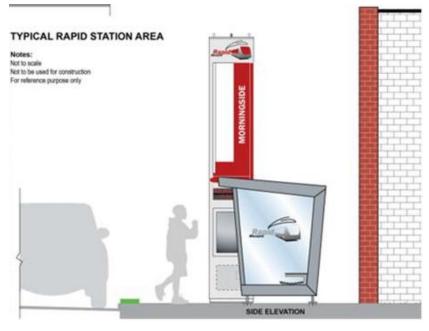


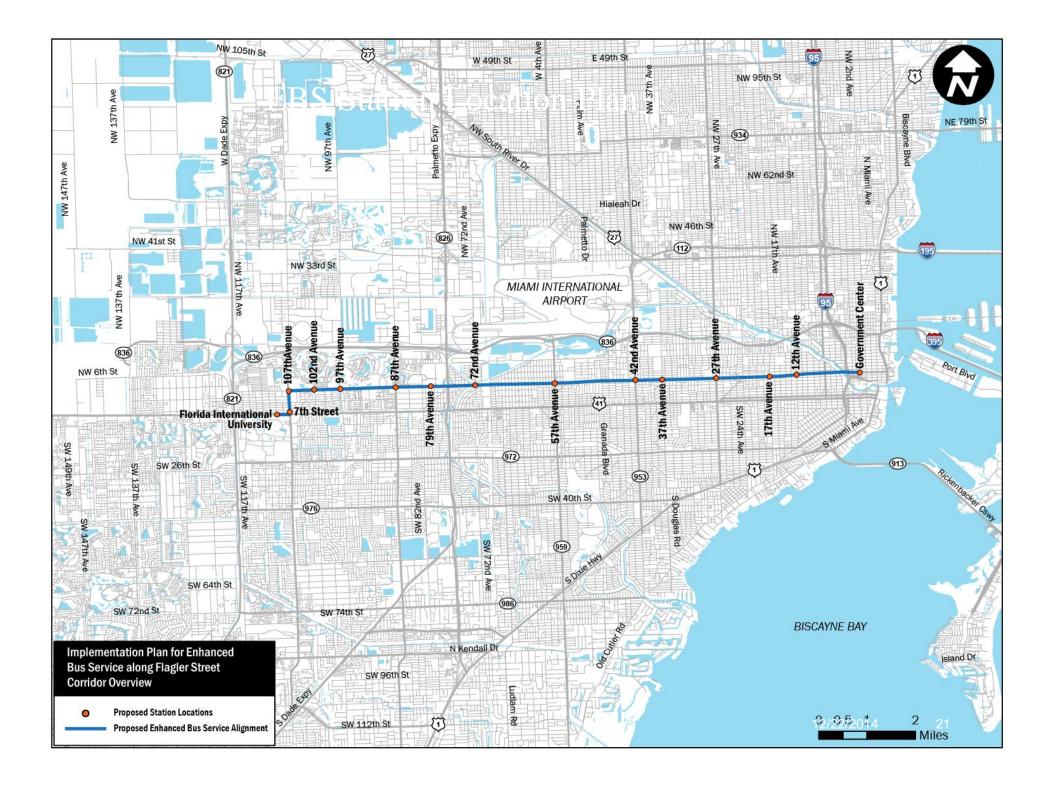


Recommended EBS Station Location Plan



- 28 mainline stations
- 1 Transit Center New Panther Station at FIU
- 14 connecting stations at cross routes (eastbound and westbound):
 - 12th Avenue
 - 17th Avenue
 - 27th Avenue
 - 37th Avenue
 - Le Jeune/42nd Avenue
 - 57th Avenue
 - 107th Avenue



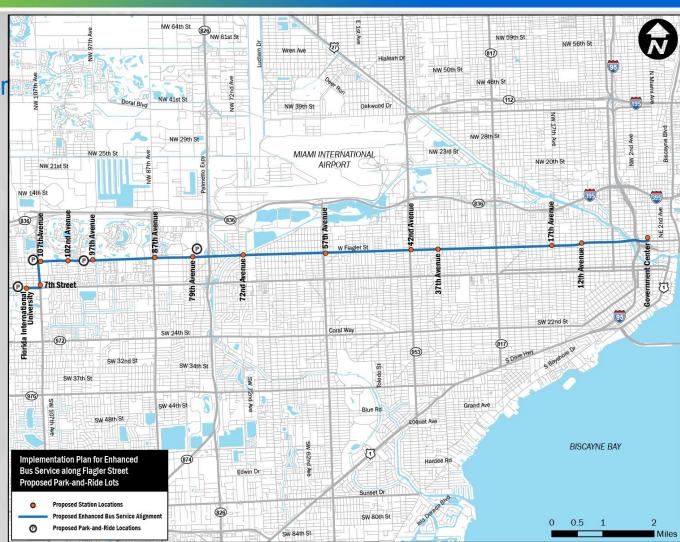




Proposed Park-and-Ride Locations



- Panther Transit Center at FIU
- Flagler Street at 107th
 Avenue
- Flagler Street at SW
 99th Street
- Mall of the Americas





Proposed EBS Implementation Plan

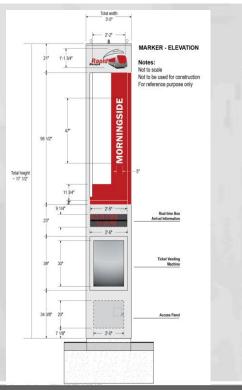


- EBS Branded Service
- Immediate to Short Term (5 years)
 - EBS and local service
 - Peak period curbside lane east of NW 24th Avenue
 - Implement Transit Signal Priority
 - First tier of Queue jump locations
 - Park-and-Ride lots
- Short to Medium Term (5-10 years)
 - Peak period curbside lane with reversible center lane between 72nd Avenue and 24th Avenue
 - Second Tier of Queue Jump Lanes











EBS Implementation Plan



Estimated Existing Operating Costs

	Revenue Hours	Cost per Revenue Hour	Revenue Miles	Cost per Revenue Mile	Operations Cost
Existing Route 11	67,424	\$52.65	725,979	\$3.16	\$5,843,975
Existing Route 51 - Flagler Max	24,718	\$52.65	380,205	\$3.16	\$2,502,851
Total	92,142	-	1,106,184	-	\$8,346,826

Projected Project Operating Costs

	Revenue Hours	Cost per Revenue Hour	Revenue Miles	Cost per Revenue Mile	Operations Cost
Proposed Flagler EBS	28,013	\$52.65	430,899	\$3.16	\$2,836,504
Proposed Local Service	74,462	\$52.65	801,353	\$3.16	\$6,452,712
Total	102,475	-	1,232,252	-	\$9,289,216



EBS Implementation Plan



Estimated Capital Costs and Projected Change in Operating Costs

	Net Projected			
Total Capital Costs	Change in Total			
	Annual O&M Costs			
\$35,592,000	\$942,391			





Questions?