Votran TDP

Transit improvement for International Speedway Blvd. Presentation to ISB Coalition Chryn. Planning Committee

October 15, 2012



TDP Context

 Geography: Volusia County has 1,200 square miles with 16 cities

• The Transit Development Plan (TDP) is the community vision of transit improvements expected for the next ten years. It includes an array of operating, capital, planning and policy priorities. Votran uses the plan as the framework for identifying improvements and the corresponding funding components.

• The ISB Corridor is central to the core service area of public transportation in Volusia County. The Transfer Plaza is the service hub located just north of the corridor. Another major transfer location is Volusia Mall directly in the ISB corridor.



Coordinated Transit







Votran Service on ISB



Route 10 has 30 minute frequency and where Routes 18/19 over lap with Route 60 there is 30 minute service



Existing Route Service

- Average rider profile
 - Age: 16-24
 - Female
 - > White
 - Earning under \$10,000
 - There is little difference between the responses in the age and gender categories



Cross County Service

Challenges





Relevant TDP Priorities

 Corridor approach for planning improvements

 Infrastructure improvements and Traffic control features

Development Review



Corridor Approach

 The TDP described a group of most heavily-traveled corridors in the county with existing fixed-route bus service operating at high ridership levels. The ISB Corridor has been identified in the TDP as one of these corridors.

 A transit corridor is geographically focused to maximize the impact of investment, which could include many of these features:
Premium service means a combination of factors that contribute to the image that attracts a choice rider.
Easy-to-recognize stops and stations. Artful enhancements to structures. Frequency of service that remains on high profile thoroughfares.



Corridor Approach

Identify corridors for transit emphasis Determine type and level of development Density Form Determine appropriate premium modes and service levels Develop supportive underlying network Plan enhanced infrastructure and amenities Direct investment





Corridor Component

Infrastructure Improvements

Features that make passengers more comfortable and help them navigate the system, including shelters and benches

• Information displays may include "you are here" that profiles points of interest within walking distance of the stop. Schedule information could be provided through "next bus" technology.

• Ticket Vending Machines (TVM) are another passenger amenity for major stop locations and especially suited for super stops.

• Traffic control features such as signal prioritization and dedicated lanes.



Development Review

- Context of existing service and funding
- Modal split analysis for new development
- Votran is a Service of Volusia County, subject to budgets that are set by the County Council
- Votran role in development review will be defined with County Growth and Resource Management.

 Transit Oriented Development and Municipal Planning Departments



Future Direction - Map

- East-west connectivity
- Local circulation
- Connectivity to trails, airports and other attractors



Unfunded TDP Initiatives

• **ISB Circulator:** New circulator service that loops around the airport using ISB, Clyde Morris, Beville and Williamson.

 Route 60: This is the cross county route that begins at the Transfer Station and travels ISB to Northgate Plaza in Deland. Extension of service to Deland ITF, frequency improvements to 30 minutes, extended hours for night and Sunday service.

Sunrail Station connection to Daytona Beach: New express service to be defined.

 Williamson Blvd from Port Orange to Ormond Beach: New service from Pavillion in Port Orange to Ormond Beach.

• **Route 18/19:** From the Transfer Plaza travels along ISB to serve the airport, Volusia Mall, taking Bill France to LPGA, to Williamson, to Walmart on Granada, to A1A, south on A1A to the Ocean Center, then returning to the Transfer Plaza via A1A and ISB. Frequency to 30 minutes and longer hours.





Looking toward Speedway from Barnes & Noble on ISB

Same stop as above in front of Barnes & Noble across from Speedway



Daytona Beach at the corner of International Speedway Boulevard & Clyde Morris Boulevard



In many respects, this site is a typical strip shopping center anchored by a "big box" retail outlet. However, under the right conditions, its neighboring uses, which include Halifax Hospital, Mainland High School, three colleges, Volusia Mall and the airport, could provide a sizable customer base with easy access of the site by foot or transit. The following series of images demonstrates how the outer perimeter of the parking lot could be developed to create a pedestrian-friendly, destination.



Phase I

A dedicated one-way service road is constructed to provide local access parallel to International Speedway Boulevard. Landscaping and a shelter are added to improve pedestrian comfort.



Phase II

Mixed-use redevelopment begins with the construction of three –to-five story buildings along the service road. These buildings will house retail on the ground floor along with office and residential above.



Phase III

Spurred by the success of Phase 2, the "streetscape" is completed with the construction of additional mixed-use buildings. This intensity and mix of uses creates a strong user base for transit providing more frequent bus service. All users now have a variety of convenient and comfortable travel options.

Bus Priority Jump Lanes

A jump lane consists of an additional travel lane on the approach to a signalized intersection.

The lane allows the bus to move in front of traffic to increase operational efficiency of the transit system (priority to people, rather than to cars).



Examples of BRT Vehicles



Max, Las Vegas N



Hochbahn, Hambur Germany



Rapid Bus, Austin TX



AC Transit, Oakland



MARTA, Atlanta G





Phileas Bus, Eindhoven, Netherlands

Standard Local Street Before BRT

Newlands & Co www.nc2d.com

Standard Local Street After BRT

How made & Co. www.ne2d.com



*Information on Pad Design taken from Accessing Transit Design Handbook for Florida Bus Passengers Version II, 2008





Basic Bus Stop Pad

2010 Dept. of Justice Standards for Accessible Design :

810.2.1 Surface. Bus stop boarding and alighting areas shall have a firm, stable surface. **810.2.2 Dimensions.** Bus stop boarding and alighting areas shall provide a clear length of 96 inches (2440 mm) minimum, measured perpendicular to the curb or vehicle roadway edge, and a clear width of 60 inches (1525 mm) minimum, measured parallel to the vehicle roadway.

810.2.4 Slope. Parallel to the roadway, the slope of the bus stop boarding and alighting area shall be the same as the roadway, to the maximum extent practicable. Perpendicular to the roadway, the slope of the bus stop boarding and alighting area shall not be steeper than 1:48.810.3















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ltem	Estimated Cost
ADA Boarding and Alighting Pad	\$1,555
Bench Pad	\$900
Bench	\$800
Bus Stop Sign/Pole	\$160
Total	\$3,415*
	*Cost is based on as drawn diagram





Bench

Item	Estimated Cost
ADA Boarding and Alighting Pad	\$600
Bench Pad	\$700
Connector { (L x 4') x \$15 per SF	\$XXXXX
Bench	\$800
Bus Stop Sign/Pole	\$160
Total	\$XXXXX*
	*Cost is based on as drawn diagram



Design Criteria

For standards governing bus stop bench placement see:

FAC Rule 14-20-032 "Placement of Transit Bus Benches"
Accessing Transit: Design Handbook for Florida Bus Passengers
FDOT Design Standards Section 700
Florida Accessibility Code for Building Construction- Chapter 11
2010 Dept. Of Justice Standards for Accessible Design (ADA)

- Section 810.2.1 Surface,
- Section 810.2.2 Dimensions
- Section 810.2.4 Slope
- Section 903.1 General





Bus Stop Pad with Shelter and Trash Bin

Item	Estimated Cost
Concrete Pad	\$2,420
Shelter w/Bench	\$4,200
Bus Stop Sign/Pole	\$160
Total	\$6,780

*Information on Pad Design taken from Accessing Transit Design Handbook for Florida Bus Passengers Version II, 2008





Design Criteria: Transit Bus Stop with Shelter

For standards governing bus stop bench placement see:

FAC Rule 14-20.003 "Placement of Transit Bus Benches"
FDOT Design Standards Section 700
Florida Accessibility Code for Building Construction- Chapter 11
2010 Dept. Of Justice Standards for Accessible Design -

- Section 810.2.1 Surface,
- Section 810.2.2 Dimensions
- Section 810.2.4 Slope
- Section 903.1 General















We drive a great bargain