District One Rail Traffic Evaluation Study

Workshop December 10, 2008



Agenda

- Overview of Study
- Update on Work Status
 - 1. Identify Impacts / Develop Mitigation
 - 2. Evaluate Freight Routing
 - 3. Passenger Rail Feasibility Assessment
- Next Steps



Overview of Study

Scope of Work

- Four Work Elements
 - 1. Identify Impacts / Develop Mitigation
 - 2. Evaluate Freight Routing
 - 3. Passenger Rail Feasibility Assessment
 - 4. Public/Stakeholder Outreach

Completed Work Tasks To Date

- Ongoing Stakeholder Outreach & Communications
- Review of Previous Studies and Available Information
- Collection of Supplemental Data
- Documentation of Existing Conditions
- Development of Methodologies
- Initiated Technical Analyses



Traffic Impacts and Mitigation

Traffic Impacts/Mitigation Methodology

- Establish Existing Conditions (2008)
- Adjust Roadway Traffic to Future Year (2030)
- Factor in ILC and Associated Development
- Factor in Freight Growth Assumptions
- Analyze Grade Crossings

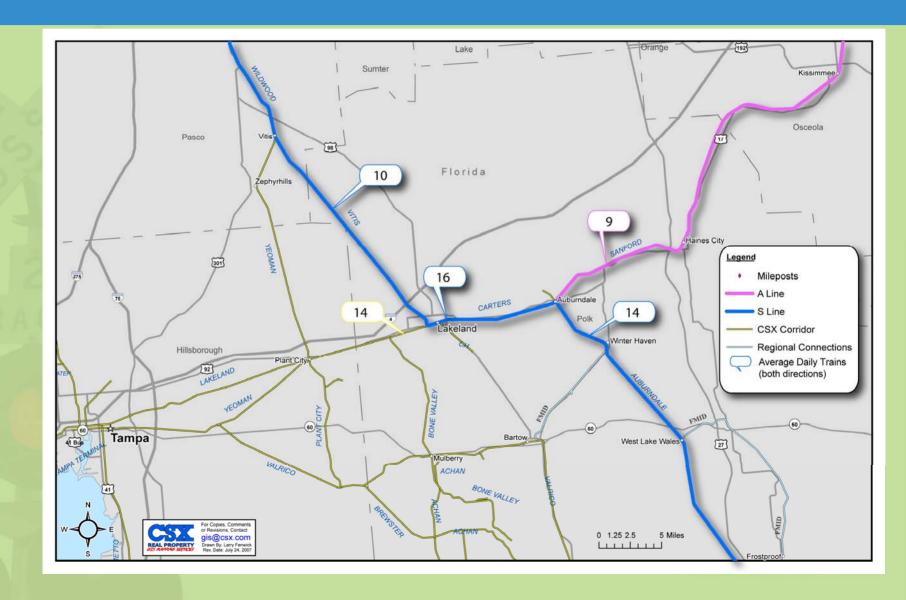


Establish Existing Conditions

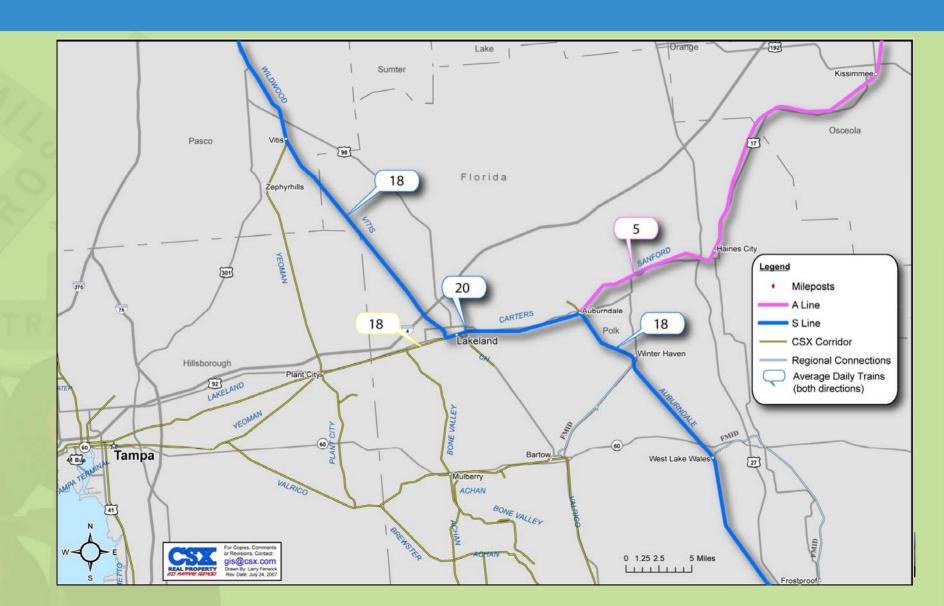
- Obtain Current Traffic Volumes
- Obtain Traffic Operations Data
- Interview
 - Emergency Service Providers
 - Municipal Officials
 - Bus Operators
- Amtrak 4 Trains Per Day
- Freight Volumes



2008 Average Daily Train Movements



2010 Projected Average Daily Train Movements

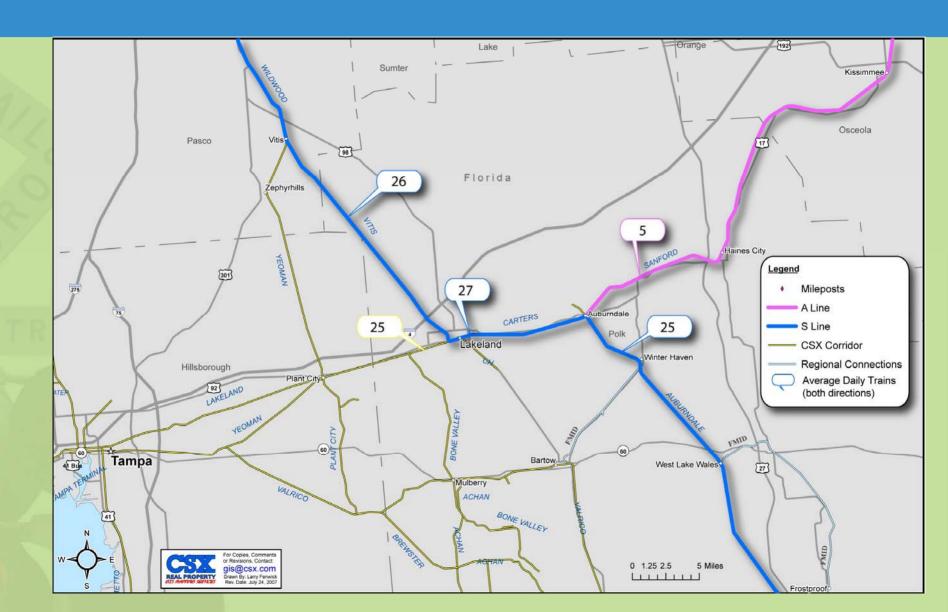


Future Year Assumptions

- Forecast 2030 Traffic Volumes
 - Polk TPO Model
 - Off-Line Modifications
 - ILC & Related Development
- Amtrak
 - 4 Trains Per Day
- Freight Volumes
 - 4 Train Shift ("A" to "S" Line through downtown Lakeland)
 - Increase by 7 Train Movements (through downtown Lakeland)
 - U.S. DOT's Freight Analysis Framework



2030 (Forecasted) Train Movements



Grade Crossing Screening Criteria

- Level of Service
 - Traffic Volumes
 - Delay
- Safety
 - Collision History Review
- Condition of Crossing
- Location/Functional Classification
 - Type of Road Local, Collector, Arterial, Federal, etc.
- System Interconnection
 - Buses (School Or Public Transit), Bike/Pedestrian Route
- Socio-Economic Considerations
 - Access To Schools, Emergency Services & Cultural Facilities



Next Steps

- Traffic Impacts/Mitigation
 - Finalize Analysis
 - Determine Impacts
 - Develop Mitigation If Necessary
 - Prioritize Improvements



Freight Rail Routing

Freight Corridors Methodology

- Connectivity Test
 - Meet Delivery Needs of CSX & Its Customers
 - Serve the ILC in Winter Haven
 - Maintain CSX Through Routes between Jacksonville and Points South (Miami/Tampa)
 - Assess Alternative Routes to Current Proposal

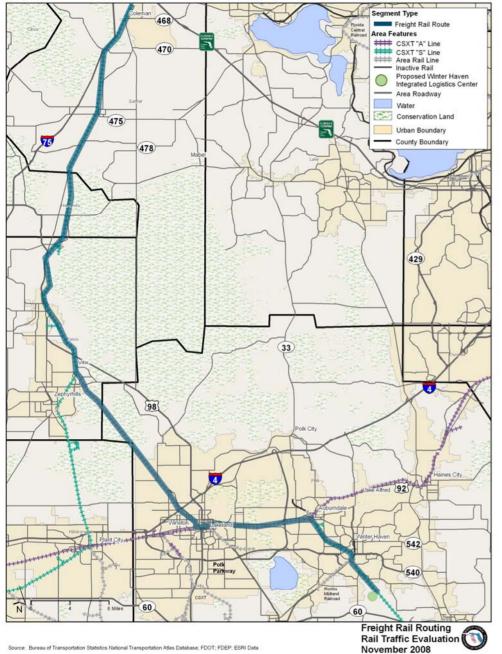


Freight Corridors Methodology

- Long List of Corridors Have Been Screened
 - Active Rail Rights-of-Way
 - Underutilized & Abandoned Rail Rights-of-Way
 - Utility Rights-of-Way
 - Existing & Planned Roadway Rights-of-Way
 - New Corridors



Alternatives For Further Evaluation



CSX "S" Line

- 79 Miles
 - Existing Rail ROW (79) Miles)





Alternative 1: Van Fleet/TECO

- 65 Miles
 - Former Rail ROW (18 miles)
 - Former Rail ROW, Trail (35 miles)
 - Existing Rail ROW (12 Miles)

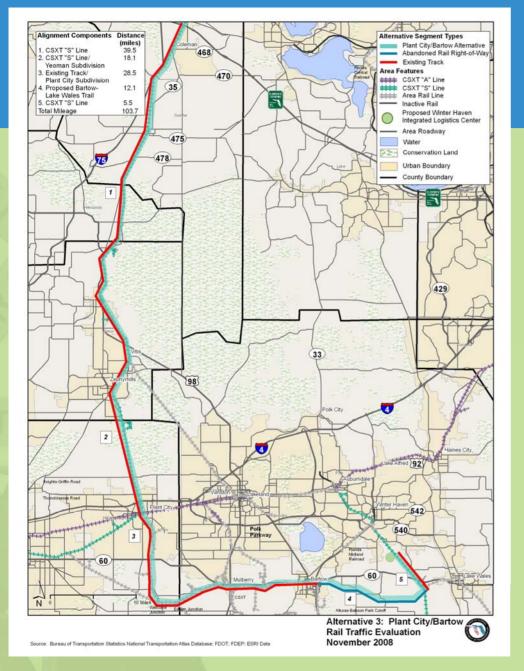




Alternative 2: Van Fleet/Chain of Lakes

- 66 Miles
 - Former Rail ROW(28 miles)
 - Former Rail ROW, Trail (33 miles)
 - Existing Rail ROW (5 Miles)





Alternative 3: Plant City/Bartow

- 104 Miles
 - Former Rail ROW (12 miles)
 - Existing Rail ROW (92 Miles)

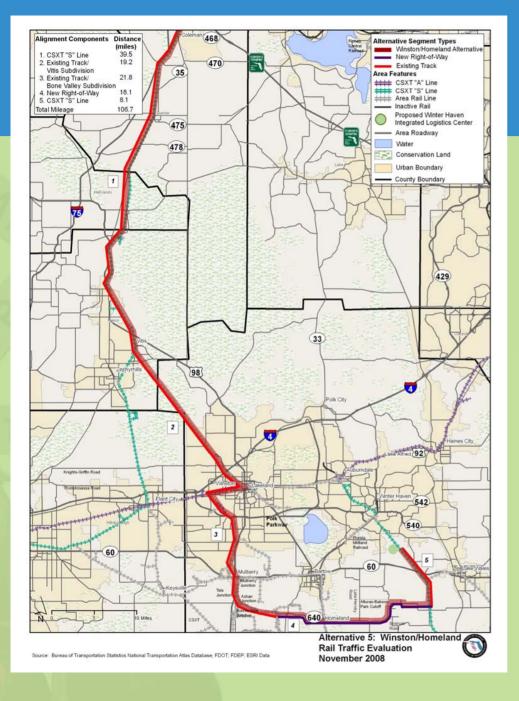




Alternative 4: Winston/Bartow

- 99 Miles
 - New Rail ROW, (12 miles)
 - Existing Rail ROW (87) Miles)





Alternative 5: Winston / Homeland

- 107 Miles
 - New Rail ROW (18 miles)
 - Existing Rail ROW (89 Miles)



Freight Corridors Methodology

- Next Steps
 - Input on These Draft Corridors
 - Feasibility
 - Other Options to be Explored
 - Define Corridor Characteristics in More Detail
 - ROW Availability/Requirements
 - Physical Conditions
 - Operational Considerations
 - Conceptual Costs
 - Institutional Issues
 - Presentation of Findings

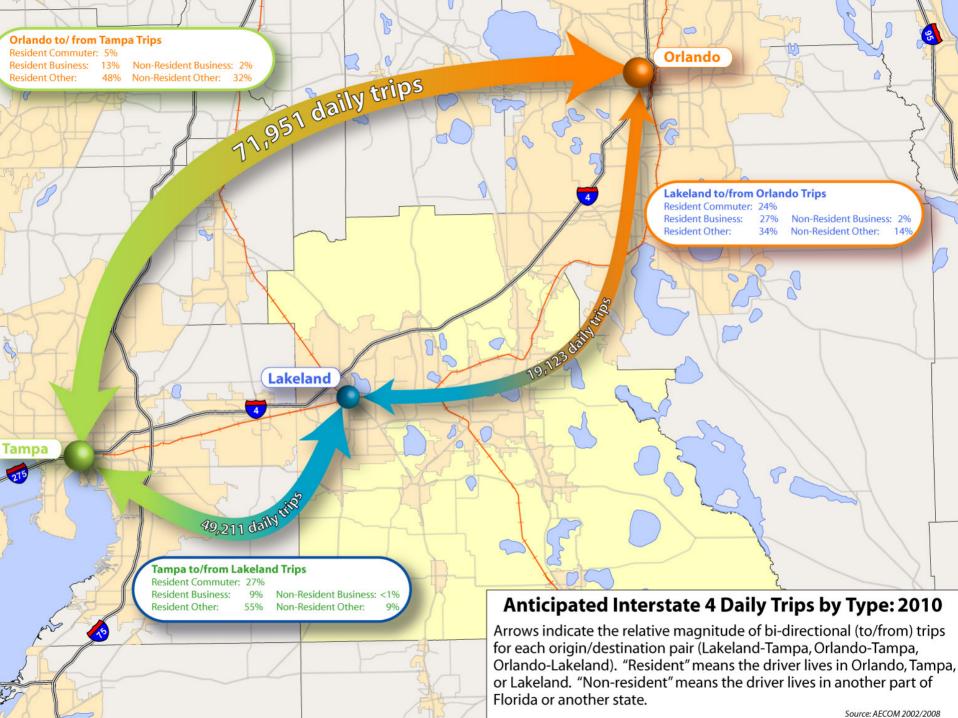


Passenger Rail Feasibility

Passenger Rail Feasibility Work Conducted

- Related Studies/Initiatives
 - TBARTA
 - Central Florida Rail
 - High Speed Rail Initiative
 - Intercity Rail Vision Plan
- Establish Feasibility Study Level Methodologies
 - Physical Needs & Cost
 - Operations
 - Demand
- List of Alternatives for Testing





Passenger Rail Market Test Assumptions

- Right of Way Location
 - I-4 and CSX Corridors
- Right Of Way Capacity
 - Limitations By Other Users (Freight, Amtrak, Other Passenger) Were Not Placed On The Alternatives
- Station Locations
 - Generalized Locations Assumed
- CFRail and TBARTA
 - Infrastructure, Service & Stations Assumed To Be Operational
- Mode Assumptions



Passenger Rail Market Test Methodology

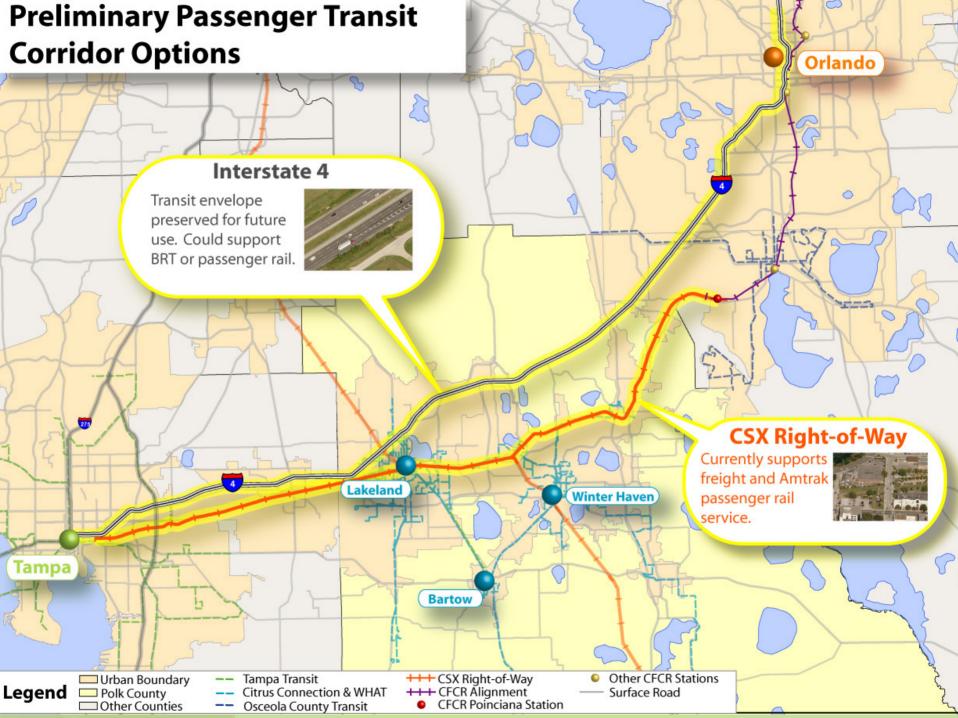
- Projection Year 2030
- Requires Integration or "Stitching" of Several Travel
 Demand Models
 - West Central Florida Regional Planning Model
 - Central Florida Regional Planning Model
 - Tampa Orlando Intercity Passenger Rail Model



Passenger Rail Market Test Alternatives

- CSX Corridor Regional Rail
- I-4 Corridor Regional Rail
- TBARTA Extension to Polk County
- CFRail Extension to Polk County





CSX Corridor Regional Rail

- Utilize CSX Freight Corridor
- Service Oriented Toward the Intercity/ Business/Recreational Market
 - 8 Round Trip Trains Per Day
- Stations
 - Tampa Union Station
 - Lakeland Downtown
 - Kissimmee
 - Orlando Downtown





Lakeland



I-4 Corridor Regional Rail

- Utilize Median of I-4, Reserved for High Capacity Transport
- Service Oriented Toward the Intercity/ Business/Recreational Market Stations
 - 8 Round Trip Trains Per Day
- Stations
 - Tampa
 - Lakeland
 - I-Drive
 - Orlando



TBARTA Extension to Polk

- Utilize CSX Freight Corridor
- Expansion of TBARTA Concepts to Polk County
- All Day Service Oriented Toward Tampa Peak Period Market
- Stations
 - Tampa
 - TBARTA Stations
 - Potential Intermediate Stations
 - Lakeland Downtown



Tampa

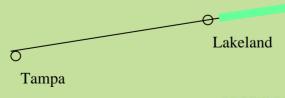


Orlando

CFRail Extension to Polk County

- Utilize CSX Freight Corridor
- CFRail Extension from Poinciana to Lakeland
- All Day Service Oriented Toward Orlando Peak Period Market
- Stations
 - Planned CFRail Stations
 - Potential Intermediate Stations
 - Lakeland Downtown





Passenger Rail Service Methodology

- Next Steps
 - Develop Operating Characteristics
 - Determine Market Potential
 - Estimate Order of Magnitude Costs
 - Identify Opportunities and Challenges
 - Presentation of Findings



Schedule & Outreach

Schedule & Outreach

Schedule

- Summer/Fall 2008 Data Collection & Preliminary Analysis
- Winter 2009 Technical Results
- Spring 2009 Findings
- Opportunities to Be Involved
 - Attend Pubic Workshops & Talk with the Study Team
 - Visit Website <u>www.fdotrailtrafficevaluation.com</u> for Updates
 - Provide Comments at Tonight's Meeting



Contact The Team

Arlene Barnes

Rail Administrator

FDOT District One

801 N. Broadway

PO Box 1249

Bartow, FL 33831

863-519-2349

arlene.barnes@dot.state.fl.us

Jeff Stiles

Jacobs Engineering

400 North Ashley Drive

Tampa, FL 33602

813-217-4035

jeffrey.stiles@jacobs.com



District One Rail Traffic Evaluation Study

Workshop December 10, 2008

