District One Rail Traffic Evaluation Study

TPO Update
February 12, 2009



Agenda

- Scope and Purpose of Study
- Preliminary Findings
 - 1. Identify Impacts / Potential Mitigation
 - 2. Evaluate Freight Routing
 - 3. Passenger Rail Feasibility Assessment

Scope of Work

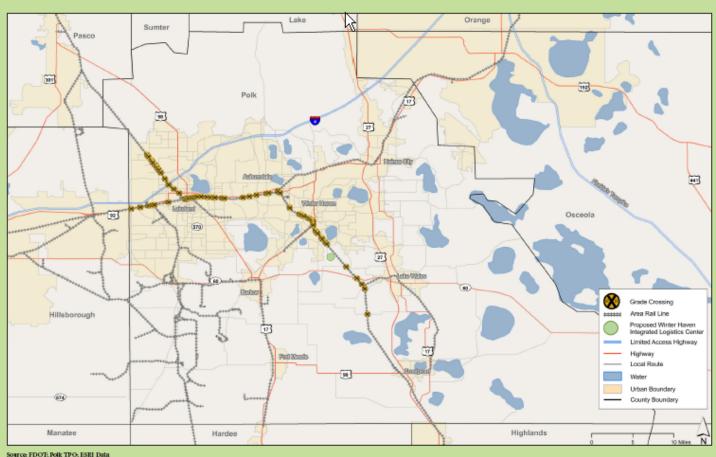
Four Work Elements

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



Traffic Impacts and Potential Mitigation

Study Area Grade Crossing Overview



75 Grade Crossings Under Evaluation

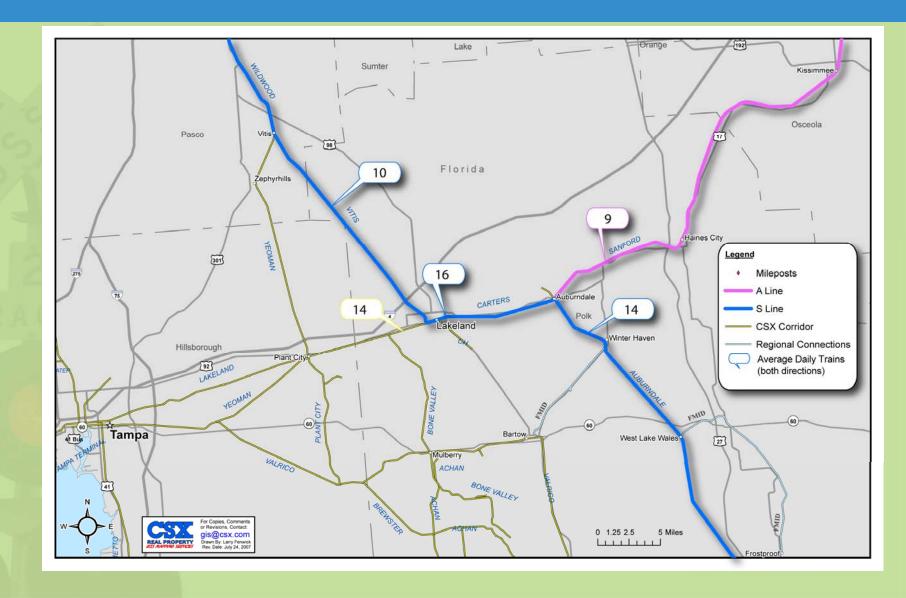


Identify Impacts / Develop Potential Mitigation

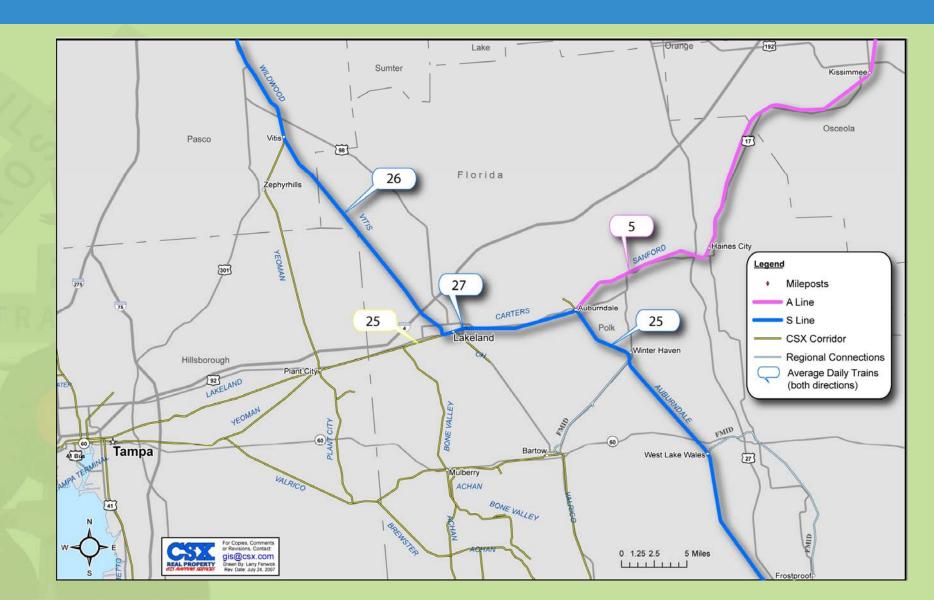
- Existing Conditions (2008)
- Future Conditions (2030) Analysis
 - Without Freight Relocation
 - With Freight Relocation
- Identify Potential Mitigation Strategies



2008 Average Daily Train Movements



2030 (Forecasted) Train Movements



Findings

- 3 Locations Will Experience Level of Service Changes in 2030
 - 10th Street (Lakeland)
 - Level of Service D to F
 - Lake Shipp Drive (Winter Haven)
 - Level of Service D to E
 - McKean Street (Winter Haven)
 - Level of Service D to F



Freight Rail Routing

Corridor Relocation

- Opportunities and Constraints
 - Underutilized / Abandoned Rail ROW's
 - Utility Corridors
 - Transportation Corridors
- Freight Operations
- Land Use Considerations
- Costs



Current Plan



- Total Mileage 79
- ROW Needed 0
- Grade Crossings
 - 107 (Existing)
- Adjacent Developed Areas
 - Lakeland
 - Auburndale
 - Winter Haven



Area Features ### CSXT "A" Line CSXT "S" Line Area Rail Line Inactive Rail roposed Winter Haven Integrated Logistics Center Area Roadway Urban Boundary Freight Rail Routing Rail Traffic Evaluation Source: Rureau of Transportation Statistics National Transportation Atlas Database: FDOT: FDEP: ESRI Data November 2008

Current Plan

Advantages

- No ROW Acquisition
- Uses Existing Rail Corridor
- Quiet Zone downtown Lakeland
- Operating Improvements Lakeland

- Freight Traffic downtown Lakeland
- 2010/2011 Increase by 4 Trains
- 2030 Forecast Additional 7 Trains



Alternatives Under Evaluation



Alternative 1: Van Fleet / TECO

Advantages

- Shorter Travel Distances
- Lower Operating Costs
- Less Grade Crossings
- Some Future Trains Rerouted from downtown Lakeland

- Extensive ROW Acquisition
- Higher Infrastructure Needs
- Grade Separations
- Parkland Impacts
 - Van Fleet / TECO Trails
 - Lake Myrtle Park / Sports Complex





Alternative 2: Van Fleet/Chain of Lakes

Advantages

- Shorter Travel Distances
- Lower Operating Costs
- Less Grade Crossings
- Some Future Trains Rerouted from downtown Lakeland
- Disadvantages
- Extensive ROW Acquisition
- High Infrastructure Needs
- Grade Separations
- Parkland Impacts
 - Van Fleet / TECO Trails
 - Chain of Lakes Trail





Alternative 3: Plant City / Bartow

Advantages

- Some Future Trains Rerouted from downtown Lakeland
- Moderate ROW Acquisition

- Longer Travel Distances
- Higher Operating Costs
- CSX Operational Concerns
- High Infrastructure Needs
- Grade Separations
- More Grade Crossings
- Complex Operating Environment
 - Plant City
 - Bone Valley Phosphate Trains





Alternative 4: Winston/Bartow

Advantages

- Some Future Trains Rerouted from downtown Lakeland
- Moderate ROW Acquisition

- Longer Travel Distances
- Higher Operating Costs
- **CSX Operational Concerns**
- High Infrastructure Needs
- **Grade Separations**
- More Grade Crossings
- Complex Operating Environment
 - Winston Yard / Bone Valley





Alternative 5: Winston / Homeland

Advantages

- Some Future Trains Rerouted from downtown Lakeland
- Moderate ROW Acquisition

- Longer Travel Distances
- Higher Operating Costs
- CSX Operational Concerns
- High Infrastructure Needs
- Grade Separations
- More Grade Crossings
- Complex Operating Environment
 - Winston Yard / Bone Valley





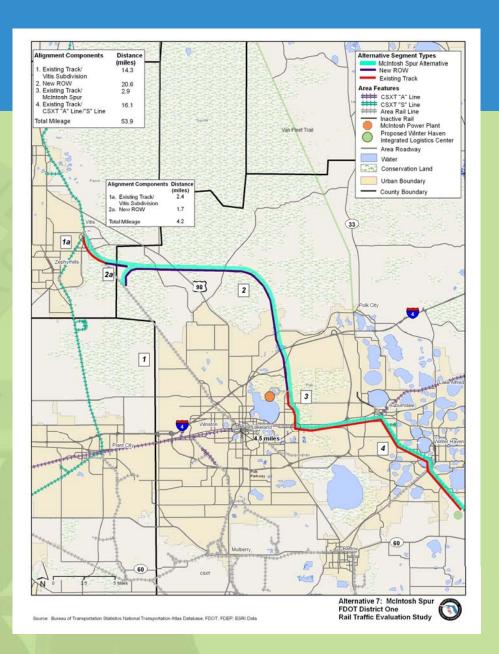
Alternative 6: Vitas / Polk City

Advantages

Some Future Trains Rerouted from downtown Lakeland

- CSX Operational Concerns
- High Infrastructure Needs
- Environmental Challenges
- Parkland Impacts
 - TECO Trail
 - Lake Myrtle Park / Sports Complex





Alternative 7: McIntosh Spur

Advantages

Some Future Trains Rerouted from downtown Lakeland

- CSX Operational Concerns
- High Infrastructure Needs
- Environmental Challenges



Common Issues - All Relocation Alternatives

- Freight Continues to Operate Through Downtown Lakeland
 - Local trains continue to operate on the "A" and "S" Lines
 - Through trains would divert to an alternate route
- Infrastructure Improvements Still Required on "S" Line
- Shifts Community Impacts
- Significant Infrastructure Costs
- Property Acquisition Required



Passenger Rail Feasibility

Passenger Rail Service

- Identify Passenger Rail Needs within Polk County
- Opportunities and Constraints
 - Orlando Metropolitan Area Plans
 - TBARTA Planning
 - Regional Plans
- Macro Level Analysis
 - Demand Forecasting (Ridership Analysis)
 - Operations Planning
 - Costing
 - Socioeconomic / Environmental Considerations



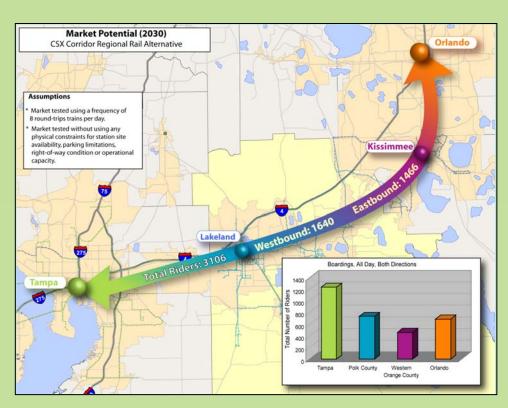
Passenger Rail Alternatives Tested (2030)

CSX Corridor Regional Rail Alternative

Opportunities

- Existing rail right-of-way
- Existing rail stations
- Serves established town centers

- Coordination of freight and passenger service
- Coordination with SunRail service



I-4 Airport Regional Rail Alternative (to Orlando Central Business District via CSX)

Opportunities

- Median of I-4 has been reserved for high-capacity transit service
- Potential for regional park & ride
- Existing rail right-of-ways to
 Tampa and Orlando downtowns

- Sections along I-4 could be isolated from established communities
- Connect I-4 median into downtown Orlando and Tampa
- Coordination with freight and passenger service
- Extensive capital investment required



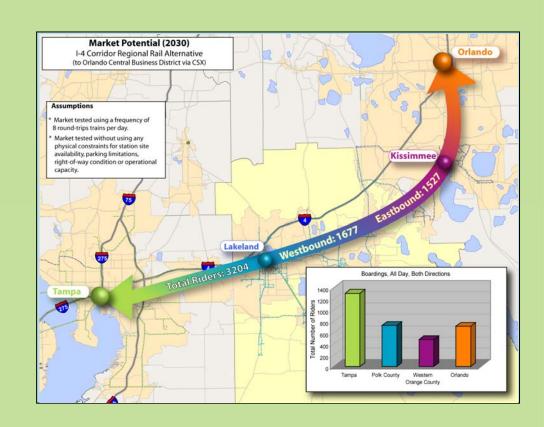


I-4 Corridor Regional Rail Alternative (to Orlando Airport)

Opportunities

- Median of I-4 has been reserved for high-capacity transit service
- Potential for regional park & ride

- Sections along I-4 could be isolated from established communities
- Right-of-way acquisition
 between I-4 and the airport
- Coordination with passenger and freight rail



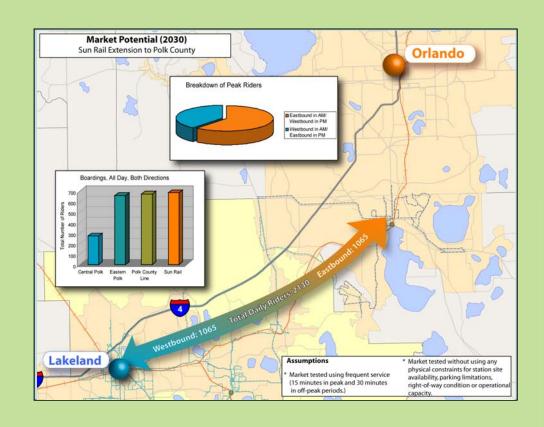


SunRail Extension to Polk County

Opportunities

- Existing rail right-of-way
- Builds off investment in SunRail systems, expanding regional benefits

- Coordination with freight and passenger service
- Coordination with proposed
 SunRail operations
- Grade crossings

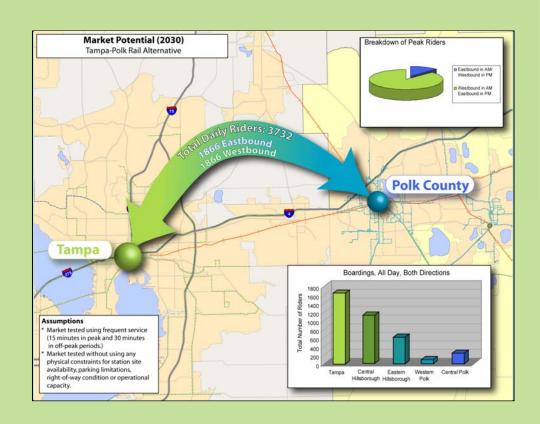


Tampa-Polk Alternative

Opportunities

- Existing rail right-of-way
- Existing rail stations

- Coordination with freight and passenger service
- Coordination with ongoing
 TBARTA studies
- Grade crossings



Schedule & Outreach

Schedule & Outreach

- Schedule
 - February 25, 2009 Final Workshop-Winter Haven
 - March 2009 Study Complete
- Website <u>www.fdotrailtrafficevaluation.com</u> for Updates

Contact The Team

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