



NEW TAMPA AREA TRAFFIC SAFETY STUDY RESULTS MEETING

PRESENTED BY
CITY OF TAMPA



TRAFFIC CONSULTANT
VANUS, INC.



January 13, 2010

AGENDA

- Introduction by Jean Dorzback, PE
City Transportation Manager
- Presentation by VANUS
 - Project Overview
 - Study Results
- Question/Answer Period



PURPOSE OF STUDY

The City of Tampa Conducted a Traffic Safety Study in the Area of Tampa Palms and West Meadows.

The Purpose of This Study was to:

- Identify Citizen Concerns
- Collect Data
- Perform Necessary Traffic Analyses
- Make Recommendations for Potential Improvements



PROJECT APPROACH

- Identify Citizen Concerns (Kick-off Meetings)
- Evaluate Existing Conditions
 - Roadway Speeds
 - Volumes
 - Crash History
 - Field Reviews
- Recommend Improvements
 - Traffic Calming
 - Safety/Signage
 - Multi-modal Accessibility



CITIZENS CONCERNS

- Two Kick-off Meetings
 - 71 Attendees Signed-in
 - 52 Comment Forms Received
- Top Five Concerns
 - Cut-through Traffic on Tampa Palms Boulevard (39)
 - Speeds Will Increase (34)
 - Safety - Pedestrian, Children, School, General, Crime, Traffic (26)
 - Side-street Delay (22)
 - Quality of Life (22)



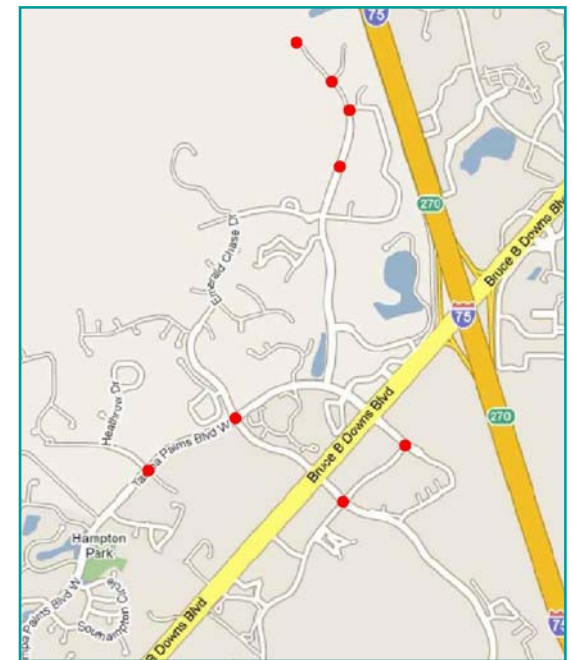
ROADWAYS STUDIED

- New Tampa Boulevard from Meadow Pine Drive to Bruce B. Downs Boulevard
- Commerce Park Boulevard from Tampa Palms Boulevard West to the Freedom High School
- Tampa Palms Boulevard West
- Tampa Palms Boulevard East
- Amberly Drive



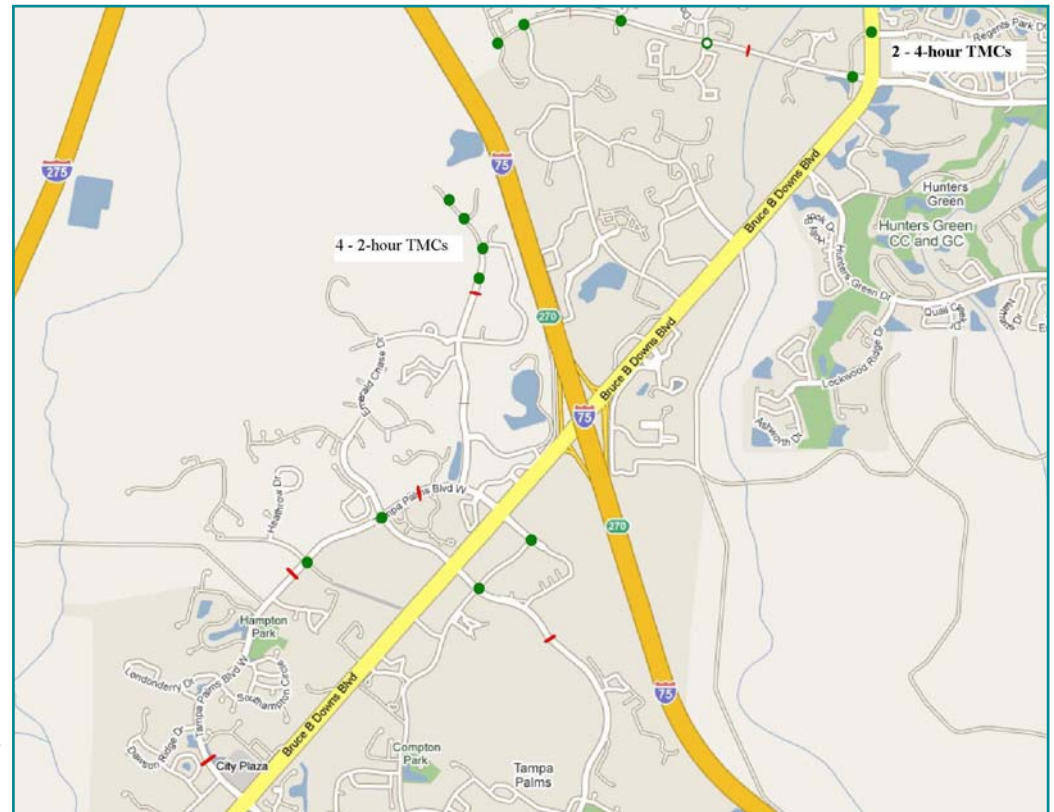
INTERSECTIONS ANALYZED – TAMPA PALMS

- Commerce Park Boulevard at:
 - Freedom High School
 - Liberty Middle School/Technology Drive
 - Primrose Lake Circle/Liberty Middle School
 - New Tampa Regional Park
- Tampa Palms Boulevard West
 - Cypress Preserve Drive
 - Palm Springs Boulevard
- Tampa Palms Boulevard East at Compton Drive
- Commerce Palms Boulevard East of Compton Drive



DATA COLLECTION

- Turning Movement Counts at Identified Intersections
- 7-day Continuous Speed and Volume Counts on All Roadways
- Crash Analysis on Identified Roadways and Intersections



ADDITIONAL STUDY TASKS

- Tampa Palms
 - Freedom High/Liberty Middle School Access
- West Meadows
 - School Bus Stop Operations on New Tampa Boulevard
 - New Tampa Center Ingress/Egress on New Tampa Boulevard
 - Pedestrian/Bicycle Access to West Meadows Community Center



SUMMARY OF RECOMMENDATIONS

36 Recommendations

- Commerce Park Boulevard
 - 10 Recommendations
- Tampa Palms Boulevard West
 - 6 Recommendations
- Tampa Palms Boulevard East
 - 5 Recommendations
- Commerce Palms Boulevard
 - 1 Recommendation
- New Tampa Boulevard
 - 14 Recommendations

Table 33: Study Recommendations

Location	Recommendation
New Tampa Boulevard at New Tampa Center	<ol style="list-style-type: none"> 1. Install a traffic signal on Bruce B. Downs Boulevard at Regents Park Drive South. 2. After the Bruce B. Downs Boulevard construction project is completed, the cycle length, splits, and offsets at the intersection of New Tampa Boulevard and Bruce B. Downs Boulevard should be adjusted as necessary. The intersection is part of a signal system, so signal timings along the entire Bruce B. Downs corridor should be evaluated after construction. 3. Maintain the U-Turn prohibition westbound on New Tampa Boulevard. 4. Remove the existing SIGNAL AHEAD warning signs on New Tampa Boulevard. These signs are used for new signal installations or locations with a sight distance problem. They are no longer needed at this location. 5. Restripe both driveway approaches to New Tampa Boulevard to provide a shared left/through lane and an exclusive right-turn lane. 6. Median landscaping needs to meet the 2010 FDOT Design Standards Sight Distance at Intersections, Standard Index 546.
New Tampa Boulevard at Wood Sage Drive	<ol style="list-style-type: none"> 7. Install a traffic signal with pedestrian features to operate during school ingress and egress. 8. Restripe the intersection.
New Tampa Boulevard at Timber Reach Drive	<ol style="list-style-type: none"> 9. Install enhanced pedestrian features across the west leg of the intersection.
New Tampa Boulevard at Highwoods Preserve Parkway	<ol style="list-style-type: none"> 10. After the construction of the extension, it is recommended that the intersection be re-evaluated for a traffic signal. 11. Install route markers for I-75, Bruce B. Downs Boulevard, and Commerce Park Boulevard on the westbound approach to the intersection. 12. Install enhanced pedestrian features across the east leg of the intersection.
New Tampa Boulevard at Meadow Pine/Duquesne Drive	<ol style="list-style-type: none"> 13. As part of the extension project, restripe both side street approaches to provide a left-turn lane and a shared through/right-turn lane.
Commerce Park Boulevard	<ol style="list-style-type: none"> 14. Increased traffic enforcement of the existing speed limit, especially during school ingress and egress. 15. Monitor traffic volumes at Ashington Landing Drive/Primrose Lake Circle South. A traffic signal may be necessary, in the future, when conditions satisfy the warrants. 16. Install route markers for I-75 and Bruce B. Downs Boulevard (Bruce B. Downs Boulevard) on the southbound approach to Tampa Palms Boulevard West. 17. Median landscaping needs to meet the 2010 FDOT Design Standards Sight Distance at Intersections, Standard Index 546.
Commerce Park Boulevard at the School Complex	<ol style="list-style-type: none"> 18. Widen Commerce Park Boulevard to provide a left-turn lane at the northern entrance as part of the extension and bridge over I-75 project. 19. Construct a southbound right-turn lane at the northern driveway. 20. Install a traffic signal at the northern driveway as part of the extension and bridge over I-75 project to operate during school ingress and egress. 21. Install two speed limit signs southbound along the frontage of the school property – one south of the northern driveway and one south of the southern driveway/Primrose Lake Circle North.



Commerce Park Boulevard – Speed Studies

Findings & Recommendations

Location	85 th Percentile Speed (mph)		Posted Speed Limit (mph)
	Northbound	Southbound	
North of USAA	46.4	48.1	40
North of Ashington Landing Drive	45.4	49.3	40

Existing Level of Service - B

- Recommendation:
 - Maintain Existing Speed Limits



Commerce Park Boulevard

Recommendations

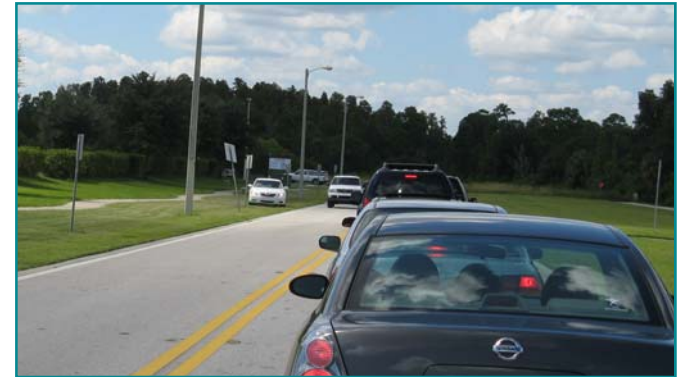
- Increase Traffic Enforcement, Especially During School Peak Hours
- Monitor Traffic Volumes at Ashington Landing Drive/Primrose Lake Circle South – Signal May Be Warranted in the Future
- Install Route Markers at Tampa Palms Boulevard West for I-75 and Bruce B. Downs
- Revise Existing Median Landscaping to Meet FDOT Guidelines for Sight Triangles



Commerce Park Boulevard at School Complex

Findings

- Vehicles Queuing in the Through Lane
- Vehicles Blocking Driveways
- Lack of Adequate Queue Storage on Site
- Lack of Adequate Traffic Control
- Mixing of Student Drivers with Other Traffic
- Separate School Bus Entrance at New Tampa Community Park
 - 26 Freedom High School Buses
 - 21 Liberty Middle School Buses



Commerce Park Boulevard at School Complex

Recommendations

- In Conjunction with the New Tampa Boulevard Extension Project
 - Add a Northbound Left-turn Lane at the Northern Driveway
 - Add a Southbound Right-turn Lane at the Northern Driveway
 - Install a Part-time Traffic Signal at the Northern Driveway
 - Install Two Additional Speed Limit Signs in the Vicinity of the School Complex
- City Staff is Working with the School Board to Address Queuing on Commerce Park Boulevard



Commerce Park Boulevard at New Tampa Community Park

Findings & Recommendations

- Findings:
 - Current School Bus and School Deliveries Entrance
 - Traffic - Late Evenings/Weekends
 - East Approach Leads Into a Pond
 - Traffic Signal Not Warranted
- Recommendations:
 - Block Access to East Approach
 - Convert to Lane Ends Merge Left



Tampa Palms Boulevard West – Speed Studies

Findings & Recommendations

Location	85 th Percentile Speed (mph)		Posted Speed Limit (mph)
	Eastbound / Northbound	Westbound / Southbound	
West of Amberly Drive	44.0	45.8	40
South of Cypress Preserve Drive	45.0	44.4	35
West of Catlin Drive	44.8	43.5	35

Existing Level of Service - B

- Recommendations:
 - Maintain Existing Speed Limits



Findings & Recommendations

- Findings
 - 17 Crashes in Three Years at Amberly Drive
 - 12 Crashes in Three Years at Palm Point Plaza
- Recommendations
 - Increase Traffic Enforcement
 - Revise Existing Median Landscaping to Meet FDOT Guidelines for Sight Triangles
 - Monitor Crashes at Amberly Drive and Palm Pointe Plaza



Tampa Palms Boulevard West at Cypress Preserve Drive

Findings & Recommendations

- Findings:
 - School Crossing with Special Emphasis Crosswalks
 - 3 Crossing Guards
 - No U-turn Southbound During School
 - 171 Pedestrians and Bicyclists During Eight-hour Count
 - No Reported Crash Problem
 - Traffic Signal Not Warranted
- No Recommendations



Tampa Palms Boulevard West at Palm Springs Boulevard

Findings & Recommendations

- Findings:
 - 17 Angle Crashes (5.6 per year)
 - School Crossing with Special Emphasis Crosswalks
 - 2 Crossing Guards
 - No U-turn Northbound During School
 - 208 Pedestrians and Bicyclists During Eight-hour Count
 - Traffic Signal Not Warranted
- Recommendations:
 - Relocate No U-turn Sign
 - Continue to Monitor Crashes
 - Re-evaluate for a Future Traffic Signal



Other Roadways – Speed Studies

Findings & Recommendations

Location	85 th Percentile Speed (mph)		Posted Speed Limit (mph)
	Northbound	Southbound	
Amberly Drive – South of Belmont Road	44.2	46.1	40
Tampa Palms Boulevard East - East of Ashbury Palms Drive	49.1	48.0	40

Existing Level of Service - B

- Recommendation:
 - Maintain Existing Speed Limits



- Increase Enforcement of Existing Speed Limit
- Install additional speed limit signs
 - One Eastbound, East of Bruce B. Downs Boulevard on the North End
 - One Westbound, West of Ashbury Palms Drive



Tampa Palms Boulevard East at Compton Drive

Findings & Recommendations

- Findings:
 - 14 Angle Crashes (4.67 per year)
 - Narrow Median
 - Compton Drive Volumes Higher
 - All Markings Faded
 - Traffic Signal Not Warranted
 - Pedestrian Signal not Warranted
- Recommendations:
 - Monitor Crashes
 - Conduct a Four-way Stop Analysis
 - Restripe All Intersection Markings



Commerce Palms Boulevard at Compton Drive

Findings & Recommendations

- Findings:
 - Compton Drive Volumes Equal to Commerce Palms Boulevard
 - Traffic Signal Not Warranted
- Recommendations:
 - Install Speed Limit Signs Eastbound and Westbound on Commerce Palms Boulevard



IMPROVEMENTS CURRENTLY PLANNED

Tampa Palms

- City Staff is Working with the Tampa Palms CDD Regarding Pedestrian Access Adjacent to Hampton Park and is Considering Installing Enhanced Pedestrian Features

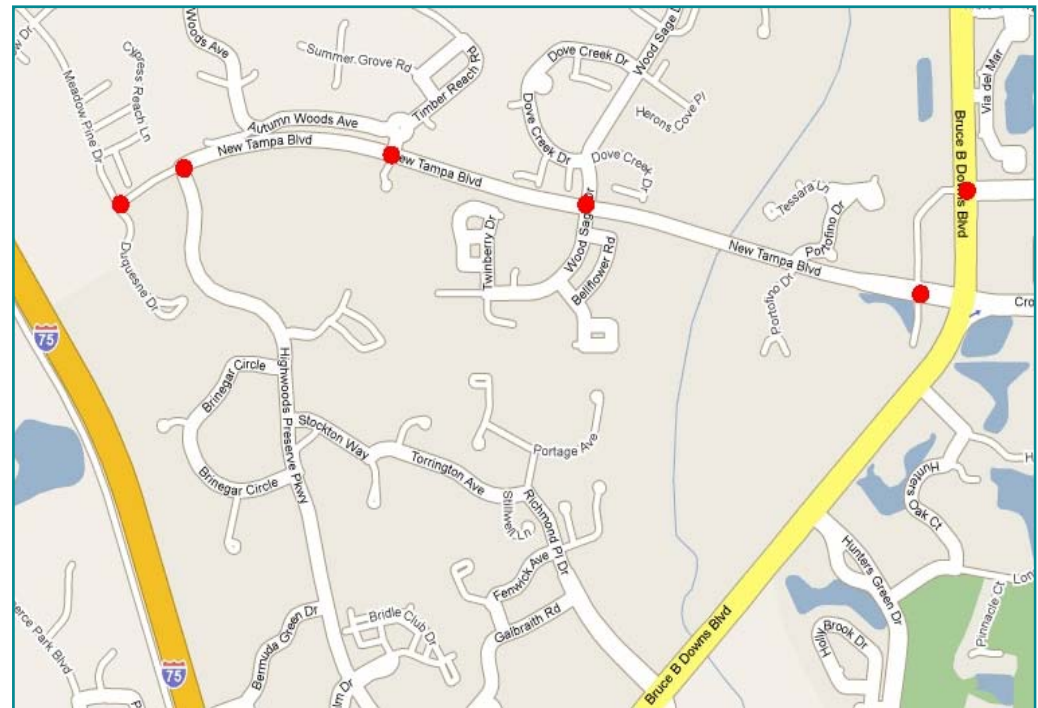


- City Staff is Working with Various CDDs and HOAs Concerning Speeding, U-turns, Intersection Sight Visibility, Parking on ROW, and School Zone Issues



INTERSECTIONS ANALYZED – WEST MEADOWS

- New Tampa Boulevard at:
 - New Tampa Center Access
 - Wood Sage Drive
 - Timber Reach Road/West Meadows Community Club
 - Highwoods Preserve Parkway
 - Meadow Pine/Duquesne Drive



New Tampa Boulevard – School Bus Stops

Findings & Recommendations

- Findings
 - FS 316.172 – All Vehicles Approaching a School Bus Which Displays a Stop Signal Shall Come to a Full Stop While the Bus is Stopped.
 - All Existing Stops on the Curb Side of the Road
 - No Students Cross New Tampa Boulevard
 - U-turns Onto Duquesne Drive
- Recommendation:
 - City to Coordinate with the School Board Regarding Future Bus Stop Changes



New Tampa Boulevard – Speed Studies

Findings & Recommendations

Location	85 th Percentile Speed (mph)		Posted Speed Limit (mph)
	Eastbound	Westbound	
East of Wood Sage Drive	46.2	48.5	40
West of Timber Reach Road	44.6	45.6	40

Existing Level of Service – B

- Recommendation:
 - Maintain Existing Speed Limits



New Tampa Boulevard at New Tampa Center

Findings

- Angle and Left-turn Crashes
- Intersection Queues
- Congested Median Opening
- Parking Lot Used as a Cut-through
- Bruce B. Downs Widening Project
 - Dual Left-turn Lanes
 - Additional Through Lane Eastbound
- Should Not Signalize at this Time



New Tampa Boulevard at New Tampa Center

Recommendations

- Install Signal at Bruce B. Downs and Regents Park Drive South
- Remove the Existing Signal Ahead Warning Signs
- Maintain the U-turn Prohibition Westbound
- Restripe Driveways to Provide Exclusive Right-turn Lane
- Revise Existing Median Landscaping to Meet FDOT Guidelines for Sight Triangles
- Review Signal Timings



New Tampa Boulevard at Wood Sage Drive

Findings & Recommendations

- Findings:
 - Clark Elementary School Access
 - Significant School Traffic
 - Special Emphasis Crosswalks
 - Advance Pedestrian Crossing Signs
 - All Students Bussed Across New Tampa Boulevard
 - No Reported Crash Problems
 - Meets 4-Hour Signal Warrant
- Recommendations:
 - Install a Part-time Traffic Signal
 - Restripe the Intersection



New Tampa Boulevard at Timber Reach Road

Findings & Recommendations

- Findings:
 - West Meadows Community Center
 - New Sidewalk on the South Side
 - Special Emphasis Crosswalks
 - Advance Pedestrian Crossing Signs
 - Traffic Signal Not Warranted
 - No Reported Crash Problem
 - Pedestrian Signal Not Warranted (53 Pedestrians/Bicyclists Crossed on Memorial Day 2009)
- Recommendations:
 - Install Enhanced Pedestrian Features



New Tampa Boulevard at Highwoods Preserve Parkway

Findings & Recommendations

- Findings:
 - Special Emphasis Crosswalk
 - Advance Pedestrian Crossing Signs
 - No Reported Crash Problem
 - Traffic Signal Not Warranted
- Recommendations:
 - Install Enhanced Pedestrian Features
 - Install Route Markers for I-75, Bruce B. Downs, and Commerce Park Boulevard
 - Re-evaluate for Future Traffic Signal



New Tampa Boulevard at Meadow Pine/Duquesne Drive

Findings & Recommendations

- Findings:
 - Intersection Located at the Current End of New Tampa Boulevard
 - No Reported Crash Problem
 - Traffic Signal Not Warranted
- Recommendations:
 - Restripe the Side Street Approaches
 - Left-turn Lane
 - Shared Through/Right-turn Lane



IMPROVEMENTS CURRENTLY PLANNED

West Meadows

- Sidewalk

- City of Tampa Installed Sidewalk on South Side of New Tampa Boulevard from Timber Reach Road to Meadow Pine Drive
- February, 2010 – City to Install Sidewalk from Woodsage Drive to Timber Reach Road



- Hillsborough County - Bruce B. Downs Boulevard from Palm Springs Boulevard to Pebble Creek Drive Widening
 - Additional Turn Lanes at New Tampa Boulevard Intersection
 - Construction Starts January 18, 2010



Questions and Answers

Questions?



CONTACT INFORMATION

Jean Dorzback, PE
Transportation Manager
City of Tampa
Transportation Division
306 E. Jackson Street, 290A4E
Tampa, Florida 33602
Phone: (813) 274-8045
Email: Jean.Dorzback@tampagov.net



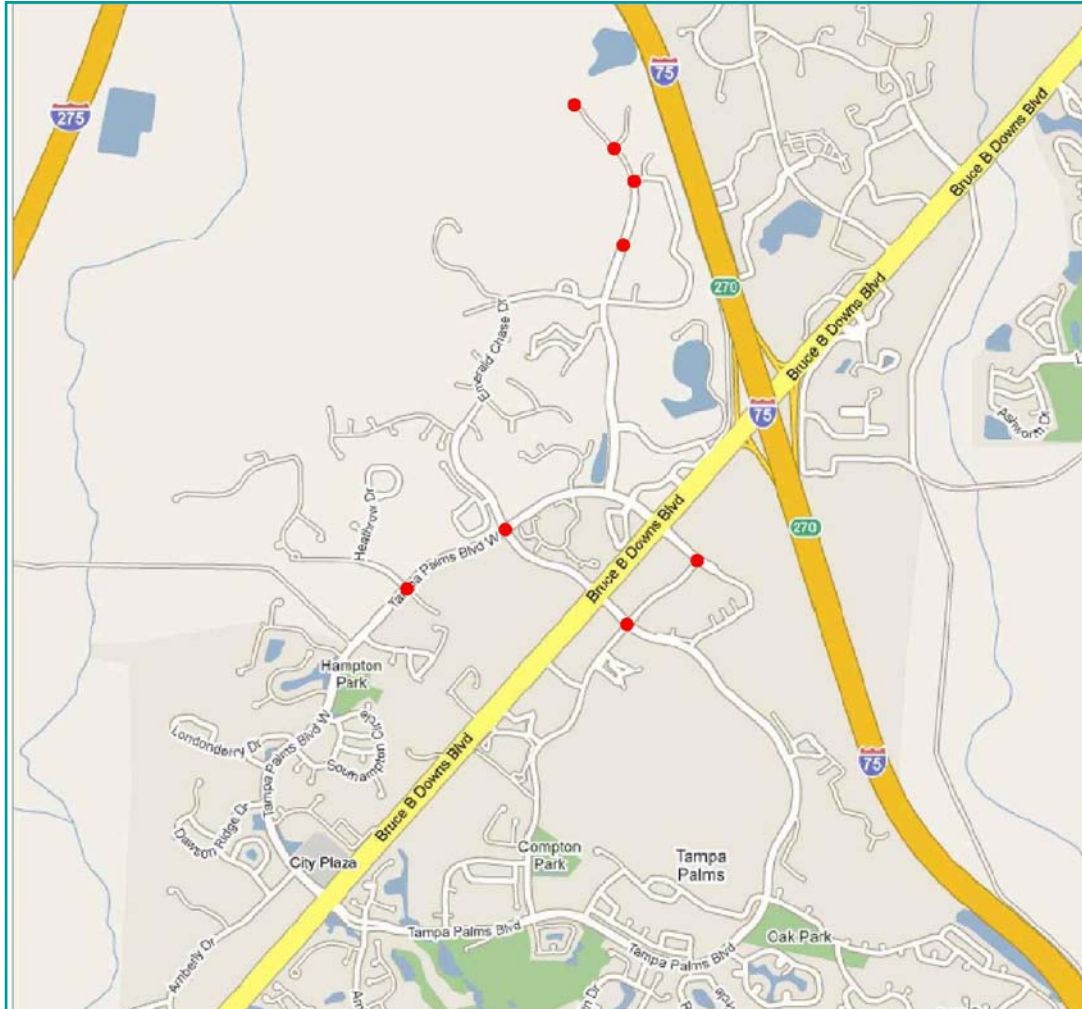
FUTURE VOLUMES

Segment	2025 without Extension	2025 with Extension
New Tampa Boulevard		
CR 581 to Shopping Center	16,900	19,000
Shopping Center to Timber Reach Road	10,400	13,000
Timber Reach Road to Highwoods Preserve	7,200	11,700
Highwoods Preserve to Commerce Park Boulevard	3,500	8,500
Commerce Park Boulevard		
Tampa Palms Boulevard West to New Tampa Boulevard	9,600	12,600
Tampa Palms Boulevard West		
CR 581 south to Amberly Drive	12,400	12,000
Amberly Drive to CR 581 north	19,400	19,300
Tampa Palms Boulevard East		
CR 581 to Compton Drive	6,350	6,500
Compton Drive east	2,200	2,300

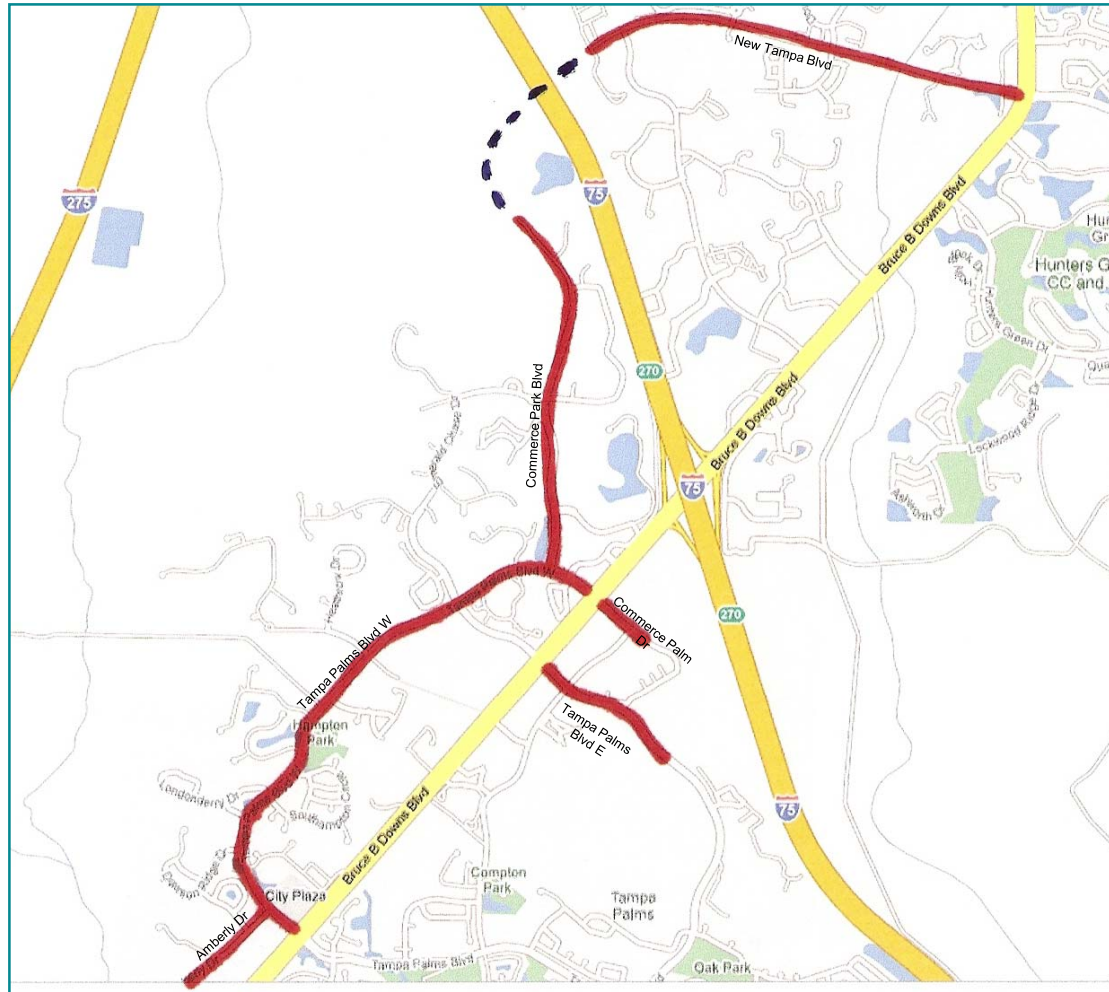
URS Noise Assessment – March 2008



INTERSECTIONS ANALYZED – TAMPA PALMS



ROADWAYS STUDIED



INTERSECTIONS ANALYZED – WEST MEADOWS

