



# Village of Palmetto Bay Villagewide Traffic Calming Study

## DISTRICT 2: FOLLOW-UP MEETING



### Identification of Critical Locations



# AGENDA

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- ▶ Review of Kick-Off Meeting
  - ▶ District 2 – 12/15/16 @ Village Chambers (152nd St. to 168th St.)
- ▶ Study Overview of Data Collection
- ▶ Traffic Calming Criteria
- ▶ Next Steps



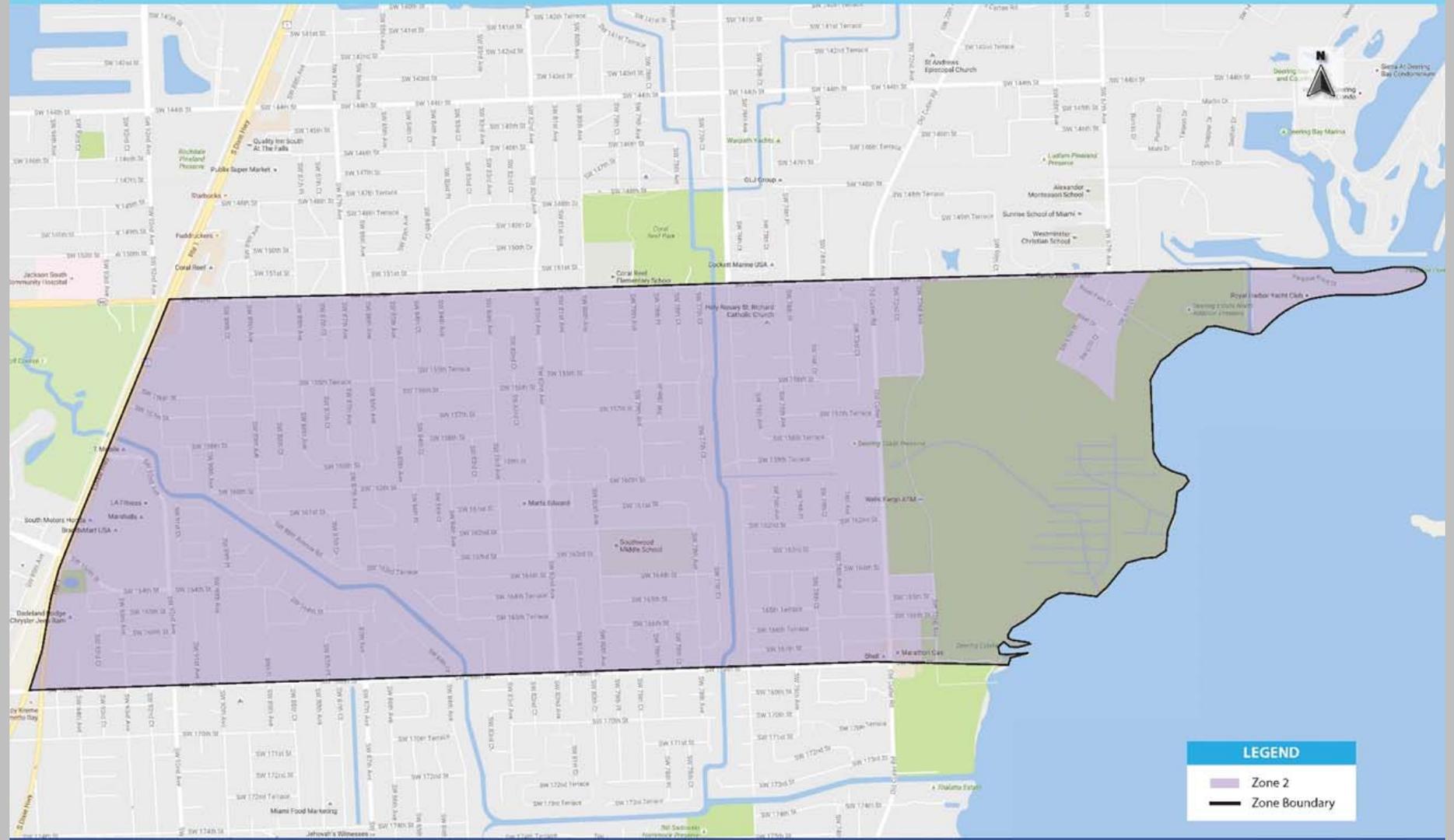


# DISTRICT 2



- CUT-THROUGH
- SPEED
- VOLUME
- SAFETY

ZONE 2



**LEGEND**

- Zone 2
- Zone Boundary





# STUDY PURPOSE

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The purpose and goal of the study is to identify particular locations within the Village of Palmetto Bay which present speeding, traffic volume, or cut-through problems and to develop traffic calming measures to address them.





# STUDY METHODOLOGY

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- ▶ Collect existing traffic data
- ▶ Perform traffic calming analysis
- ▶ Determine critical locations within the Village
- ▶ Prepare recommendations to address issues



# DATA COLLECTION

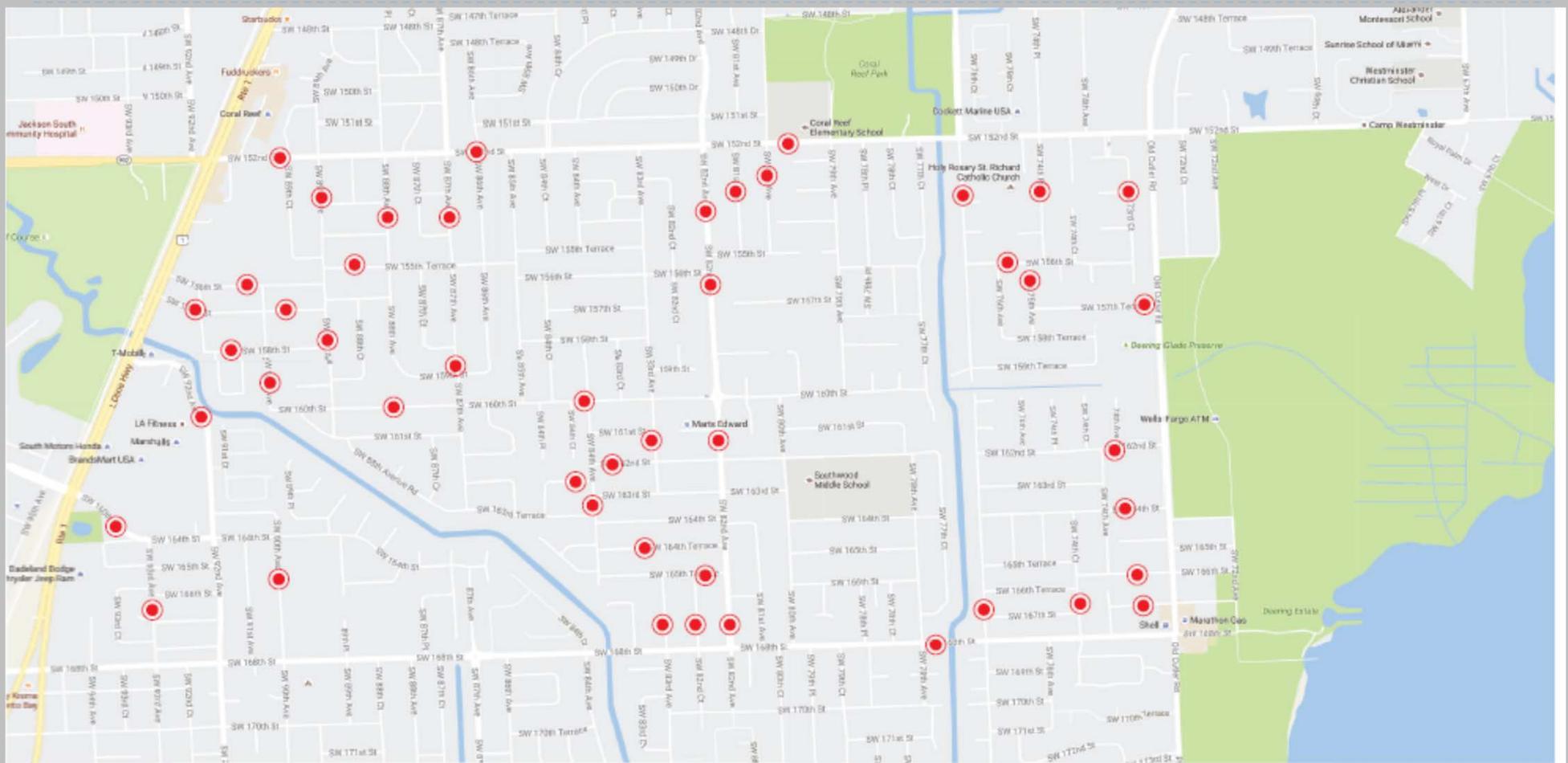
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- ▶ Based on Resident Concerns and Staff input
  - ▶ Traffic Volume Data
  - ▶ Traffic Speed Data
  - ▶ Crash Data
  - ▶ Comment Responses
    - More than 2000 collected





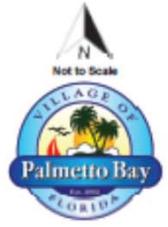
# DATA COLLECTION



## LEGEND

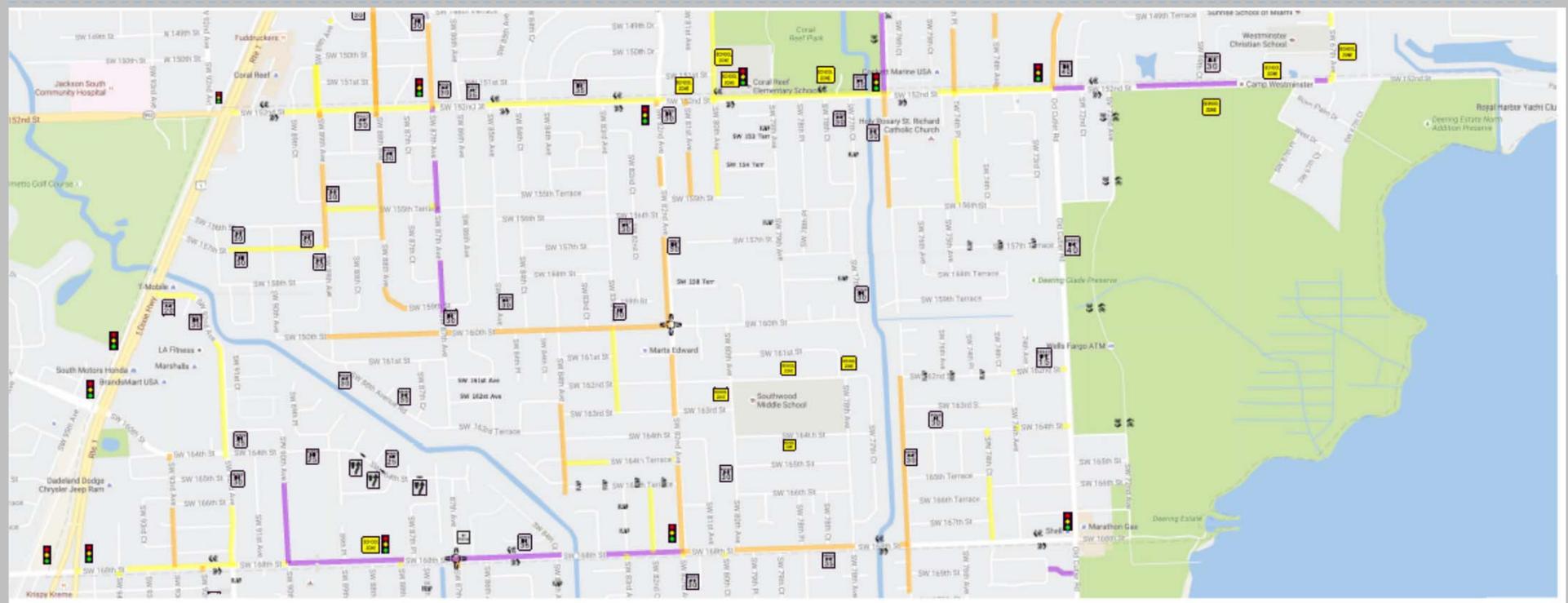
 Device Locations

# TRAFFIC DATA COLLECTION





# MEASURED SPEED



## LEGEND

- |                         |            |
|-------------------------|------------|
| <b>&lt; 4.6 mph</b>     | 0.5 points |
| <b>4.7 to 7.5 mph</b>   | 1.0 points |
| <b>7.6 to 10.5 mph</b>  | 1.5 points |
| <b>10.6 to 13.5 mph</b> | 2.0 points |
| <b>13.6 to 16.5 mph</b> | 2.5 points |
| <b>&gt; 16.5 mph</b>    | 3.0 points |
- 
- |                    |                 |
|--------------------|-----------------|
| Traffic Signal     | Speed Humps     |
| Posted Speed Limit | Street Closures |
| Schools Zones      | Roundabout      |
| Bike Lanes         | Chicanes        |
| Green Sharrows     | Traffic Circles |

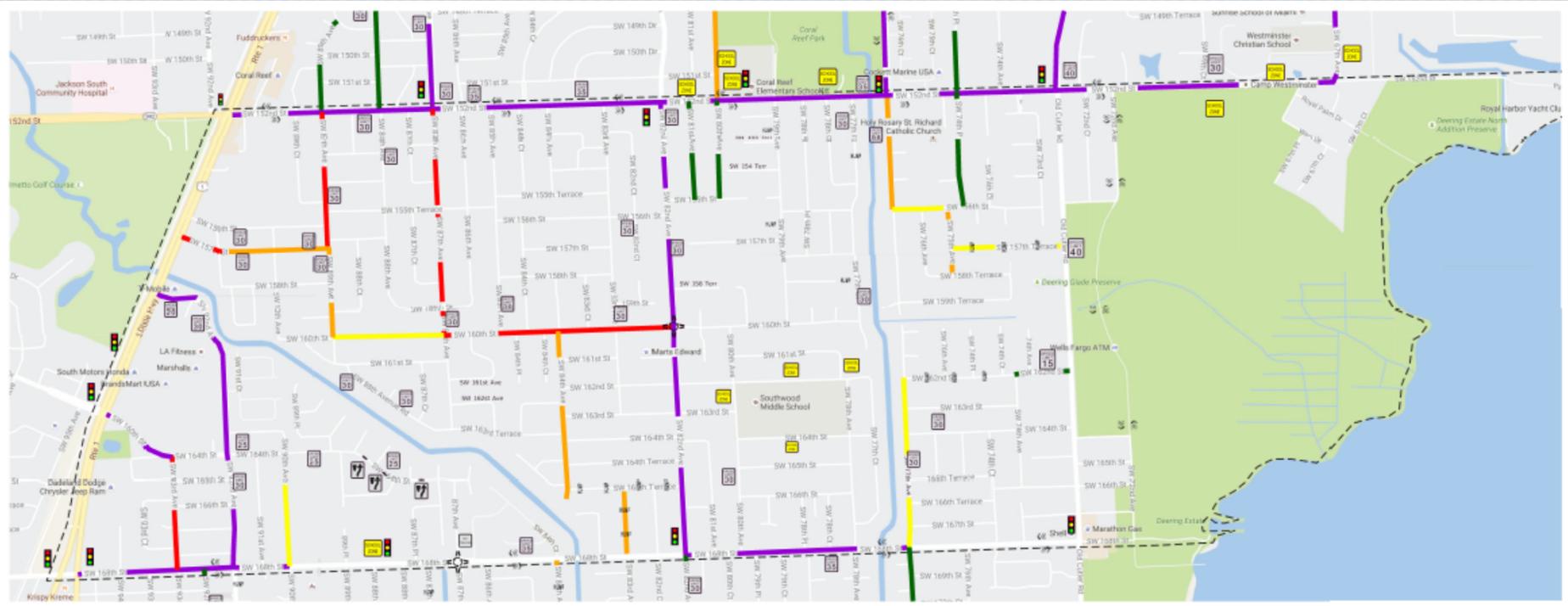
# Measured Speed

85th Percentile Speed above Posted Speed Limit





# MEASURED VOLUME



## LEGEND

- 500-750 Vehicles** █ 0.5 points
- 751-1,100 Vehicles** █ 1.0 points
- 1,100-1,700 Vehicles** █ 1.5 points
- 1,701-2,300 Vehicles** █ 2.0 points
- >2,300 Vehicles** █ 2.5 points

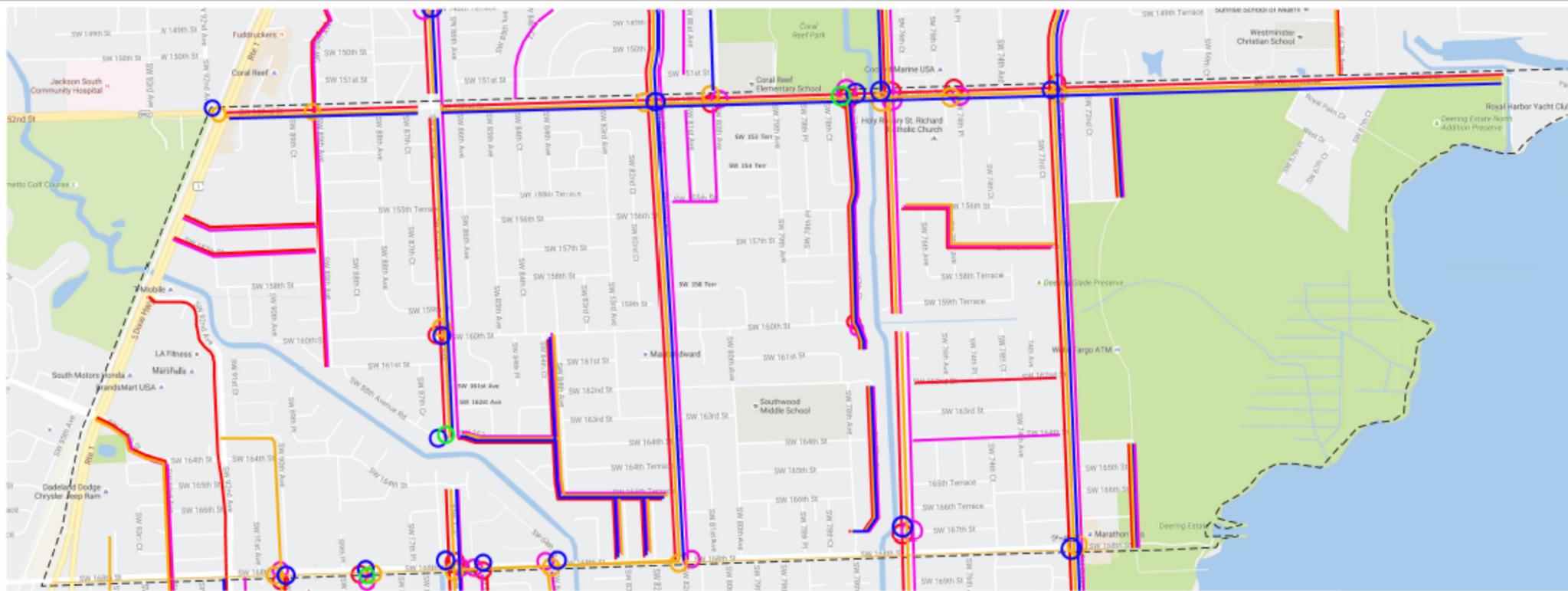
- Traffic Signal
- Posted Speed Limit
- Schools Zones
- Bike Lanes
- Green Sharrows
- HUMP
- Street Closures
- Roundabout
- Chicanes
- Traffic Circles

# 24 Hour Vehicle Counts





# PUBLIC COMMENTS



## LEGEND

- Speed complaint point
- Speed complaint segment
- Traffic Volume complaint point
- Traffic Volume complaint segment
- Cut-through complaint point
- Cut-through complaint segment
- Bike/Pedestrian complaint point
- Bike/Pedestrian complaint segment
- Signage complaint point

# Public Comments



# TRAFFIC CALMING CRITERIA GUIDELINES



## Criteria Adopted by Village of Palmetto Bay

### Criteria 1: Speed and Volume

Points	85 <sup>th</sup> speed is... above posted speed limit
0.5	less than 4.6 mph
1.0	4.6 to 7.5 mph
1.5	7.6 to 10.5 mph
2.0	10.6 to 13.5 mph
2.5	13.6 to 16.5 mph
3.0	more than 16.5 mph

Points	volume 24 hr.
0.5	500 - 750 veh.
1.0	751 - 1,100 veh.
1.5	1,101 - 1,700 veh.
2.0	1,701 - 2300 veh.
2.5	More than 2,300 veh.

### Criteria 2: Number or Accidents

Points	No. of accidents
0.5	1-2
1.0	3
1.5	4 or more

# TRAFFIC CALMING CRITERIA GUIDELINES

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## Criteria Adopted by Village of Palmetto Bay

- i. Any street that ranks 2.5 or higher is eligible for traffic calming. The neighborhood street would require 2/3 voter approval from residents and is subject to final roadway design.
- ii. Any street that ranks 2.0 will be studied by the Village's Transportation Engineer to determine if other measures may be helpful in addressing concerns.

The following items may be considered, but not limited, as part of the study:

1. Location of school, pedestrian oriented facility (i.g. elderly housing) or community facility (i.g. Park) located on the subject street or within an established walking area.
2. Driveway density.
3. Presence/ absence of sidewalks.



# TRAFFIC CALMING CRITERIA GUIDELINES

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## Criteria Adopted by Village of Palmetto Bay

- iii. Any street that scores less than a 2.0 and is determined to not be an appropriate location based on the study completed will not be eligible for re-evaluation for twelve (12) months after the speed/volume study is conducted. After two (2) years of testing, if the street does not qualify for traffic calming, the project is ineligible for re-testing for twenty-four (24) months.



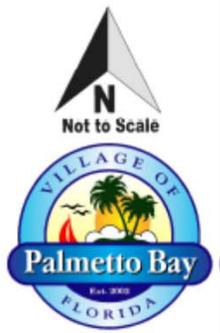


# CRITICAL LOCATIONS



- LEGEND**
- **Criteria Compliance**  
    > 2.5 points
  - **Criteria to Consider**  
    2.0 to 2.5 points
- |  |                           |  |                        |
|--|---------------------------|--|------------------------|
|  | <b>Traffic Signal</b>     |  | <b>Speed Humps</b>     |
|  | <b>Posted Speed Limit</b> |  | <b>Street Closures</b> |
|  | <b>Schools Zones</b>      |  | <b>Roundabout</b>      |
|  | <b>Bike Lanes</b>         |  | <b>Chicanes</b>        |
|  | <b>Green Sharrows</b>     |  | <b>Traffic Circles</b> |

# Compliance



# TYPES OF TRAFFIC CALMING

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## ***Speed Control Measures:***

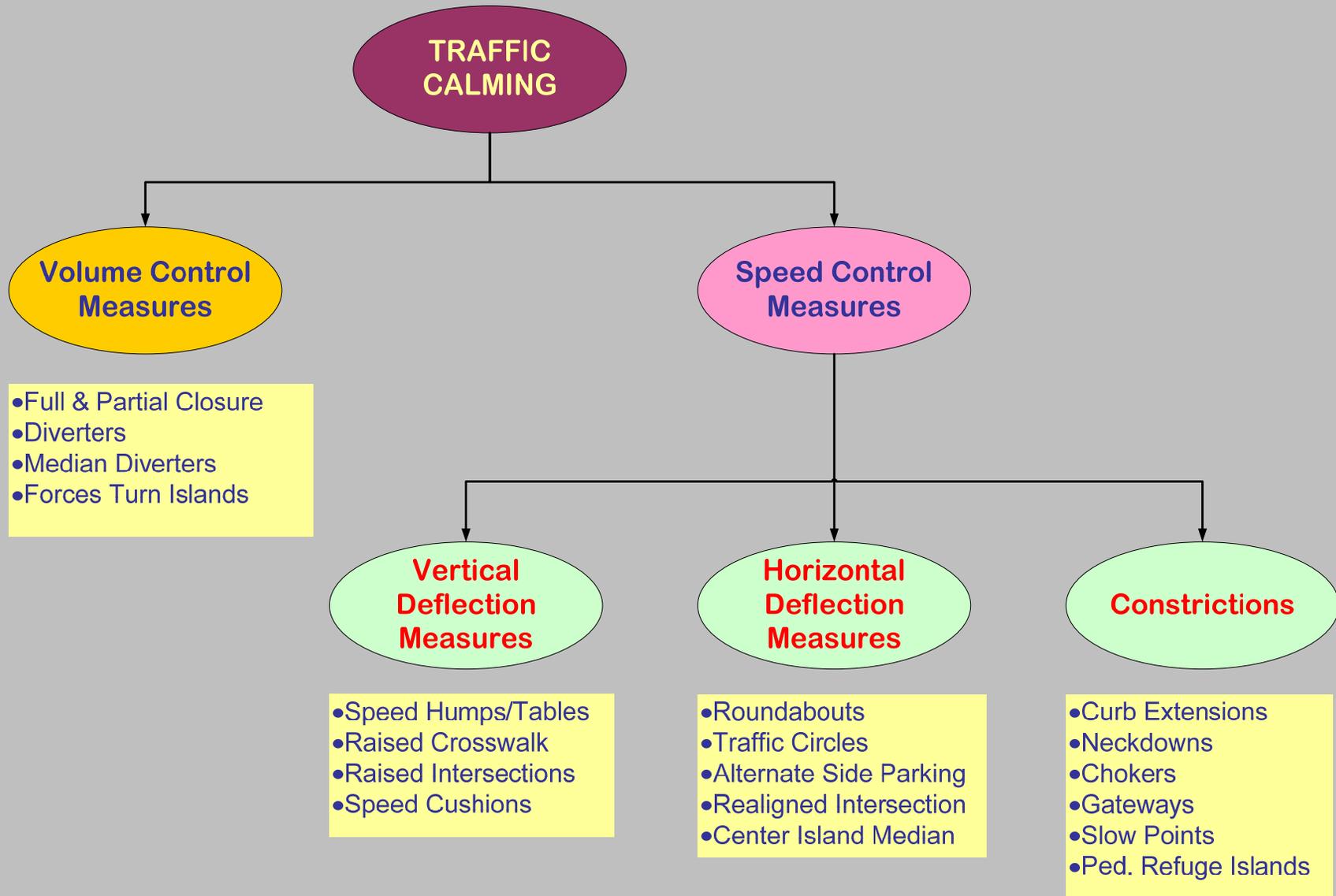
- Speed Humps and Speed Tables
- Traffic Circles and Roundabouts
- Raised intersections
- Horizontal Alignment Changes
- Landscaping
- Chicanes

## ***Volume Control Measures:***

- Street Closures
- Diagonal Diverters
- Semi-Diverters
- Turn Restrictions
- Right-in Right-out Diverter



# TYPES OF TRAFFIC CALMING



# NEXT STEPS

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- ▶ Identify Performance Goals for Roadways in critical need
- ▶ Prepare preliminary recommendations to meet established performance goals
- ▶ Meet with County to obtain approval of recommended traffic calming devices
- ▶ Prioritization of projects / Funding Identification/Timeline for Implementation



# QUESTIONS?

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