

WORKSHOP ITEM SUMMARY SHEET
VILLAGE COUNCIL MEETING
December 5, 2018

Agenda Item:

Traffic Signal, Street Light and Traffic Sign Standards

Description:

The Village of Estero does not currently have uniform standards for traffic signals, street lights or traffic signs. Traffic signals vary from intersection to intersection, street light vary from road to road and generally traffic signs are FDOT standard signs with the exception of a few areas within or adjacent to master planned communities.

Some communities have established uniform standards to improve aesthetics and differentiate their community from others.

The presentation provides examples from other communities and summarize potential costs that could be incurred if standards are implemented.

Financial Impacts:

No financial impacts at this time.

If standards are implemented in the future, both capital and operation/maintenance funds will be required.

Attachments:

1. Presentation

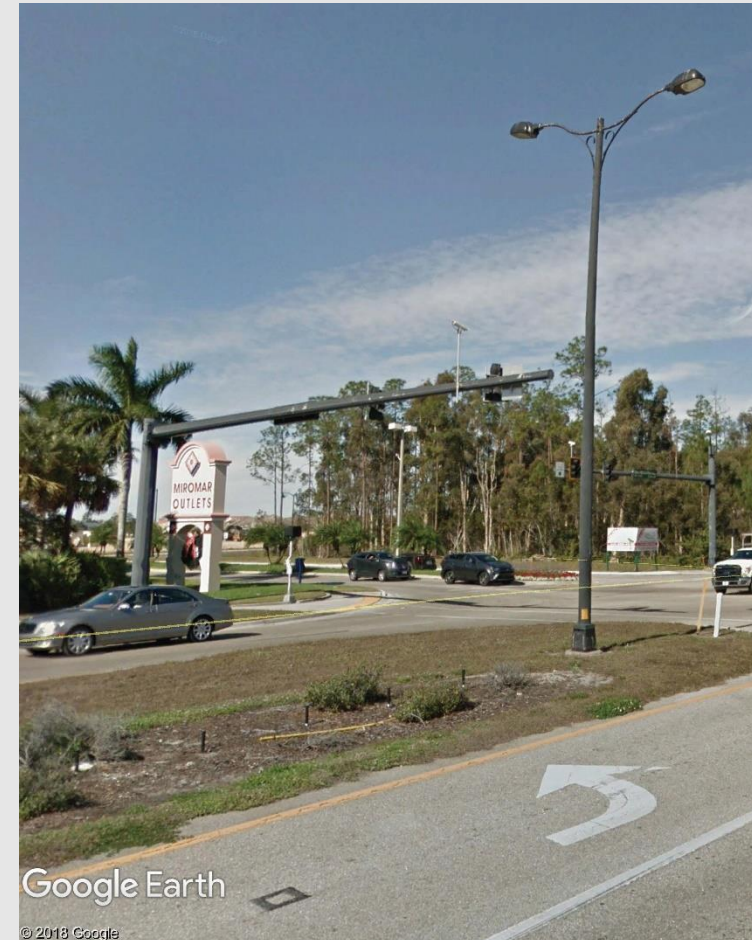


Roadway Signal, Light & Sign Standards

David Willems, P.E.

Outline

- Does Estero want a Standard?
- Existing Traffic Signals, Street Lights & Street Signs
- Examples from other communities
 - Bonita Springs
 - Collier County
 - Naples
 - Weston
- Cost Considerations



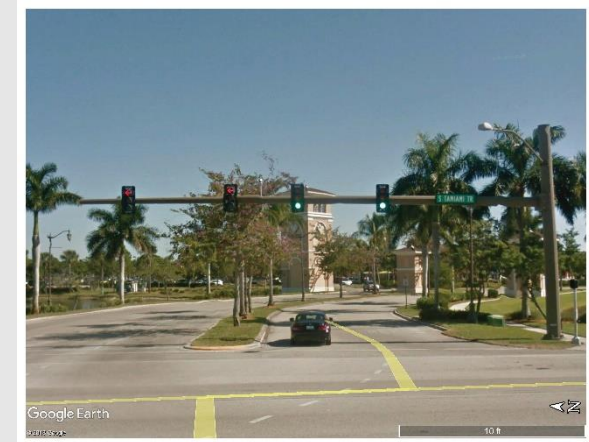
Does Estero want a Standard?

- Provides/expands on Village identity
- Expand/build on standards established within gated communities
- Differentiate Estero from surrounding communities
- Additional cost

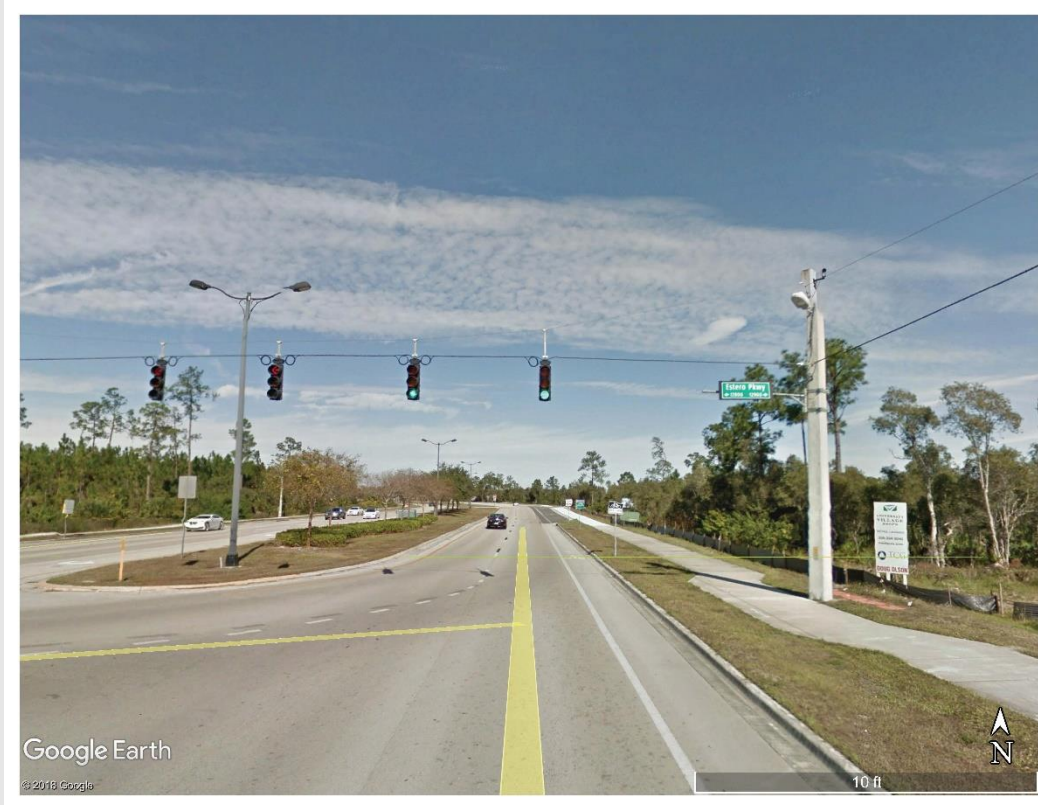


Existing Signals

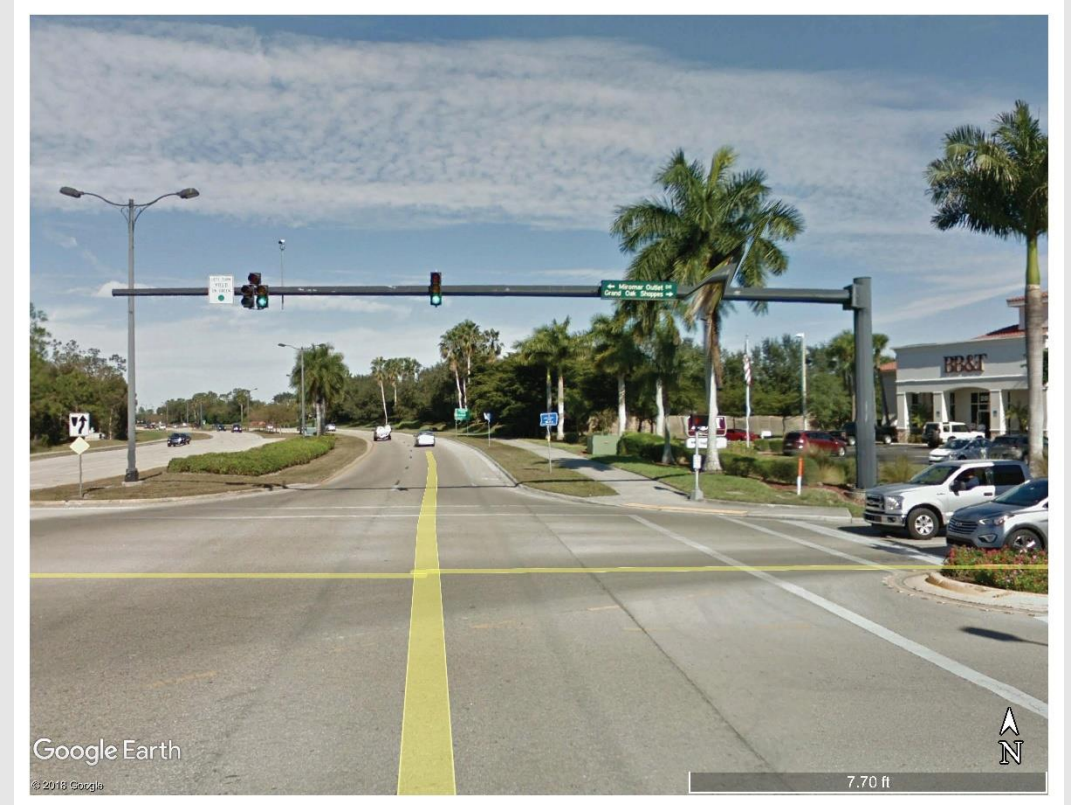
- 21 Signals within Estero
 - Most are galvanized mast arms (9) or cable and span wire (5)
 - Painted signals (7) are maintained by adjacent communities
 - Except, US-41 & Coconut



Existing Signals

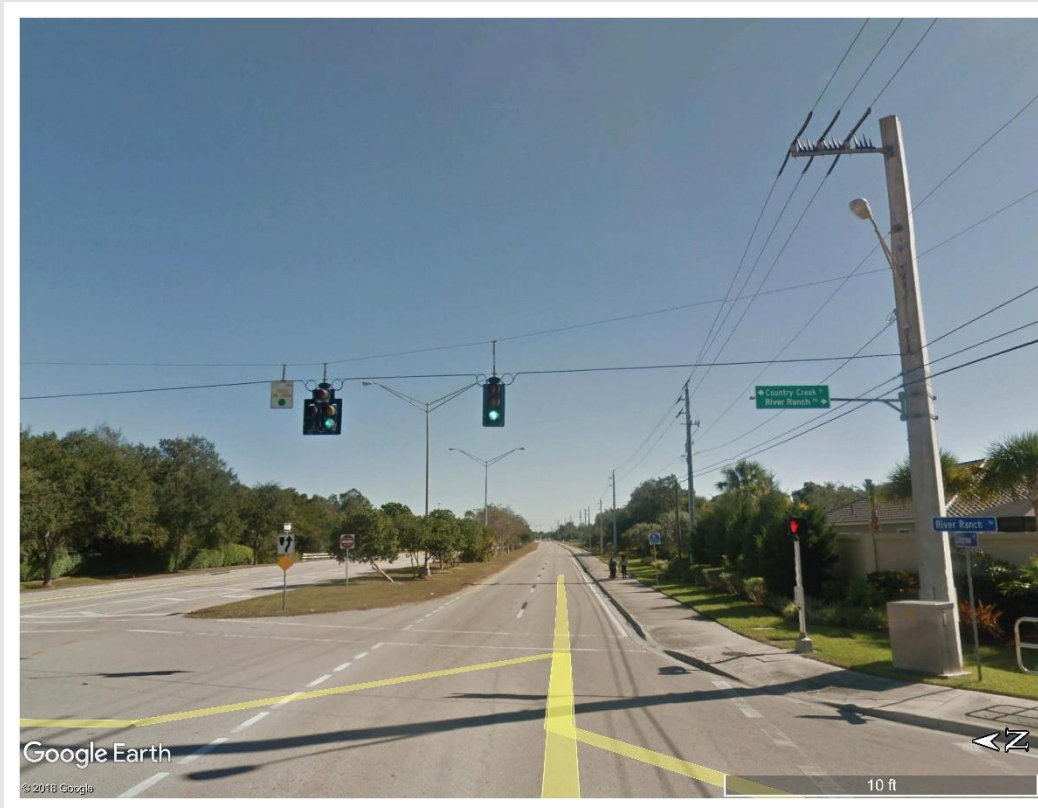


Ben Hill at Estero Parkway

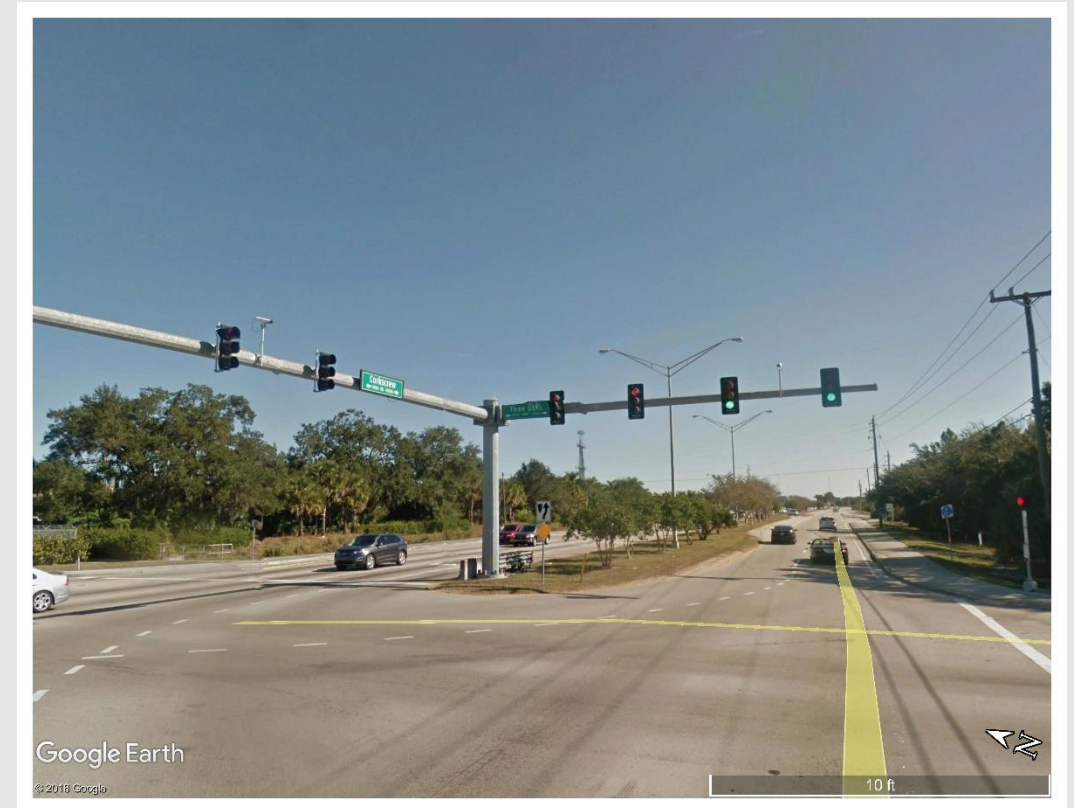


Ben Hill at Miromar

Existing Signals

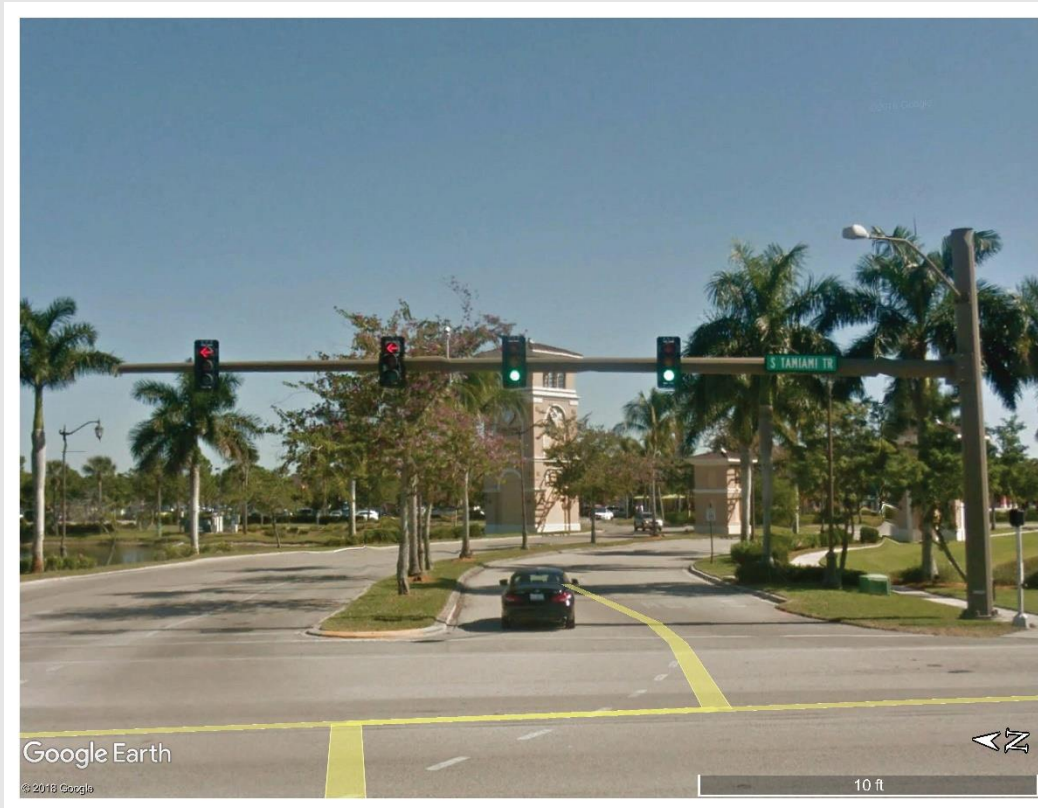


Corkscrew at River Ranch

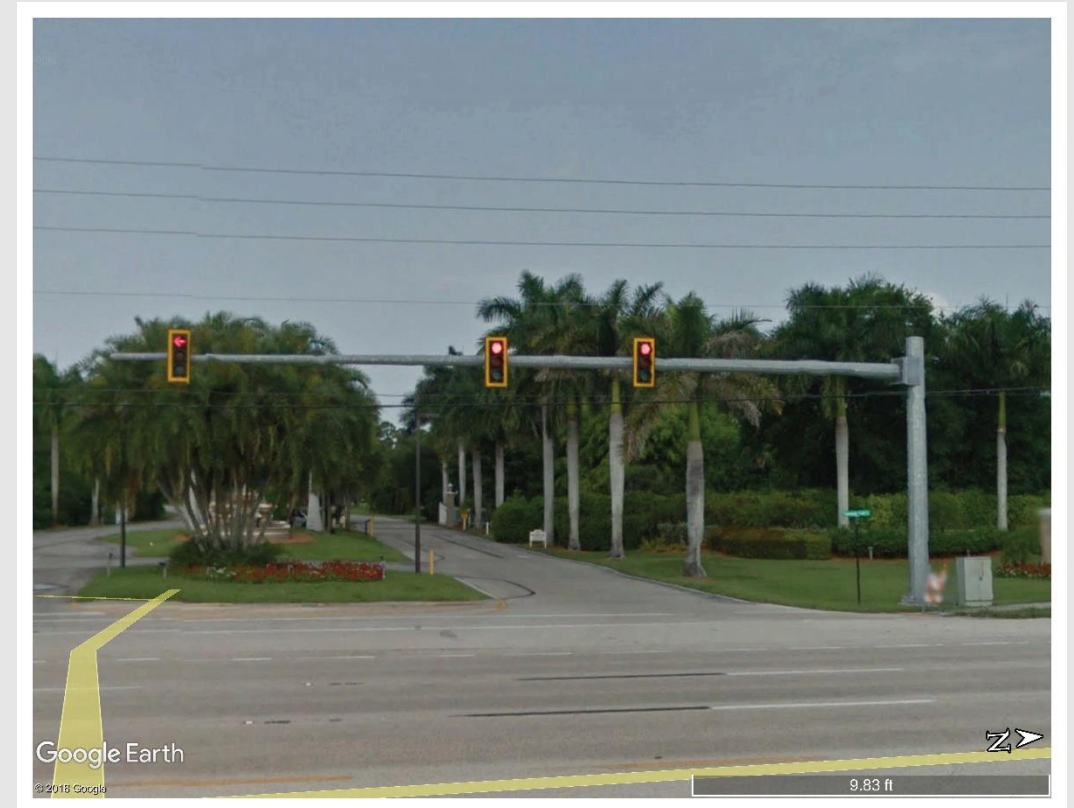


Corkscrew at Three Oaks

Existing Signals



US-41 at Coconut Point



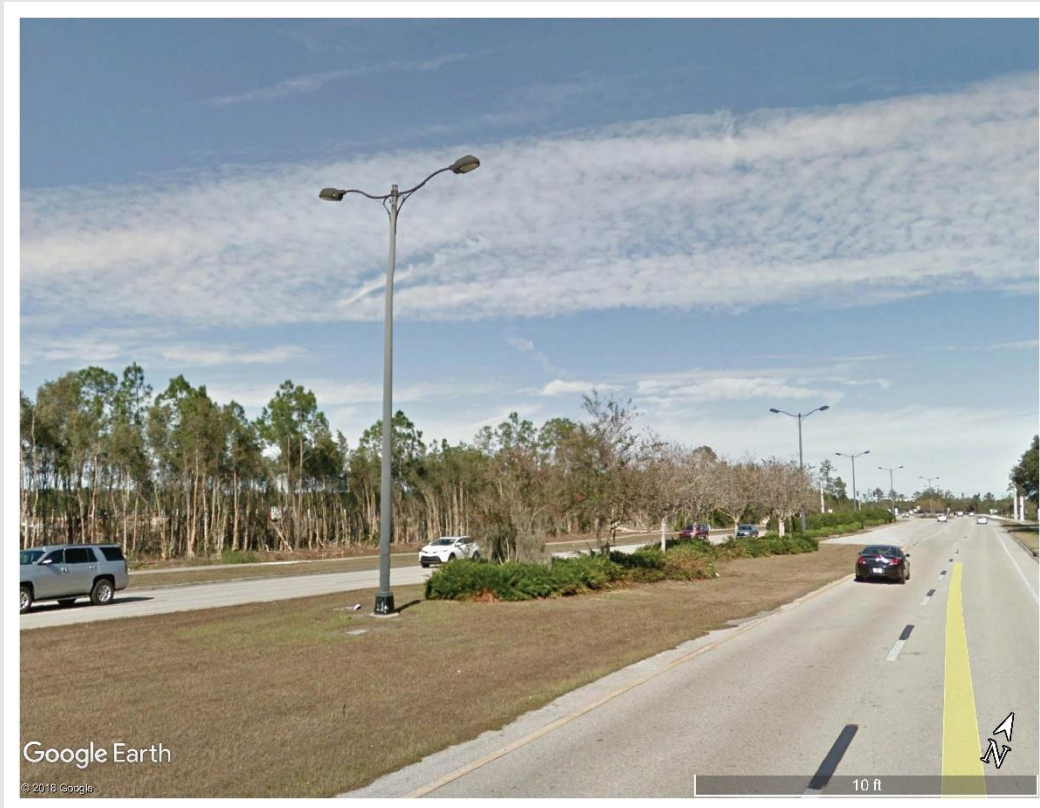
US-41 at Coconut

Existing Street Lights

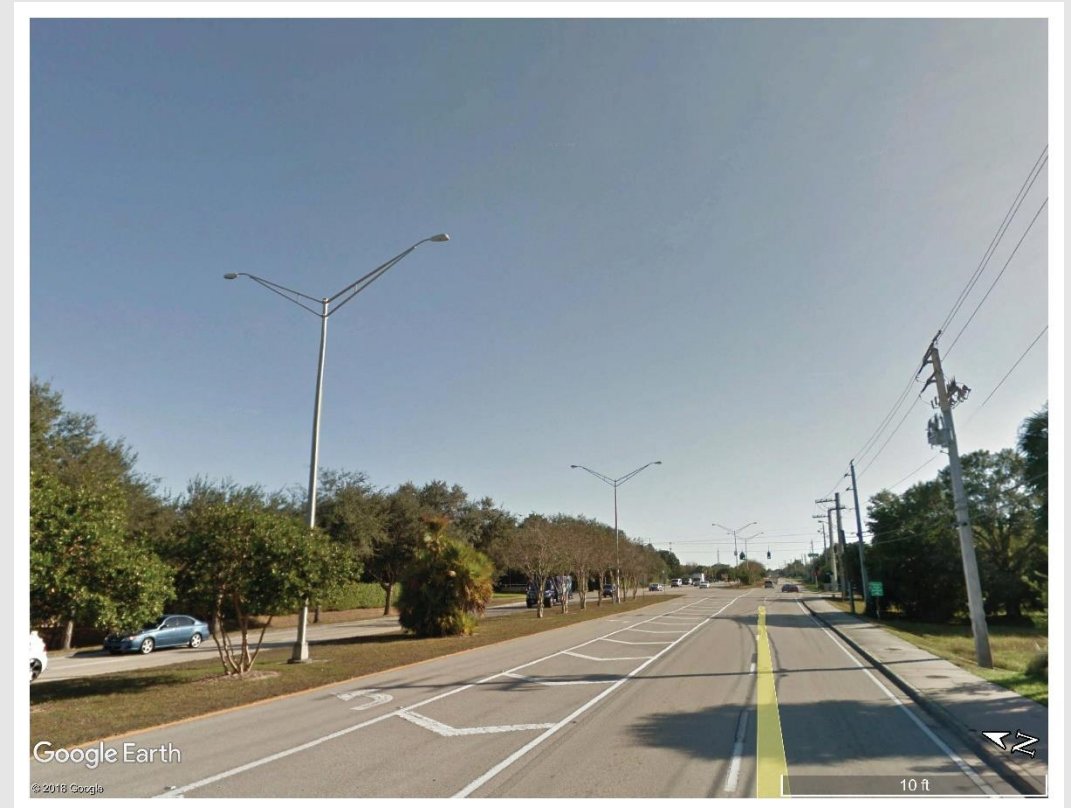
- Many different varieties and colors in Estero
- Many are not owned by Estero
- Located in Median, one side and both sides.



Existing Street Lights



Ben Hill Griffin



Corkscrew Near River Ranch

Existing Street Lights



Three Oaks within The Brooks



Three Oaks

Existing Street Lights



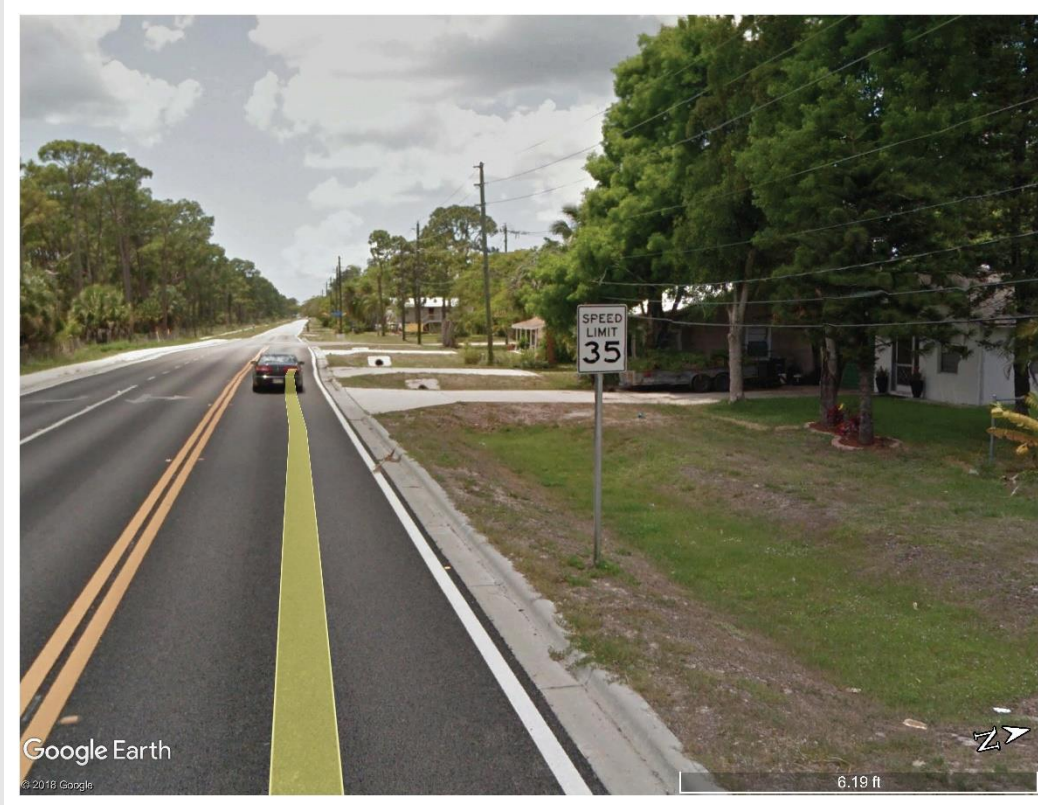
Via Coconut at Williams

Existing Street Signs

- Most are standard FDOT signs and post
- Many communities have decorative signs and posts



Existing Street Signs

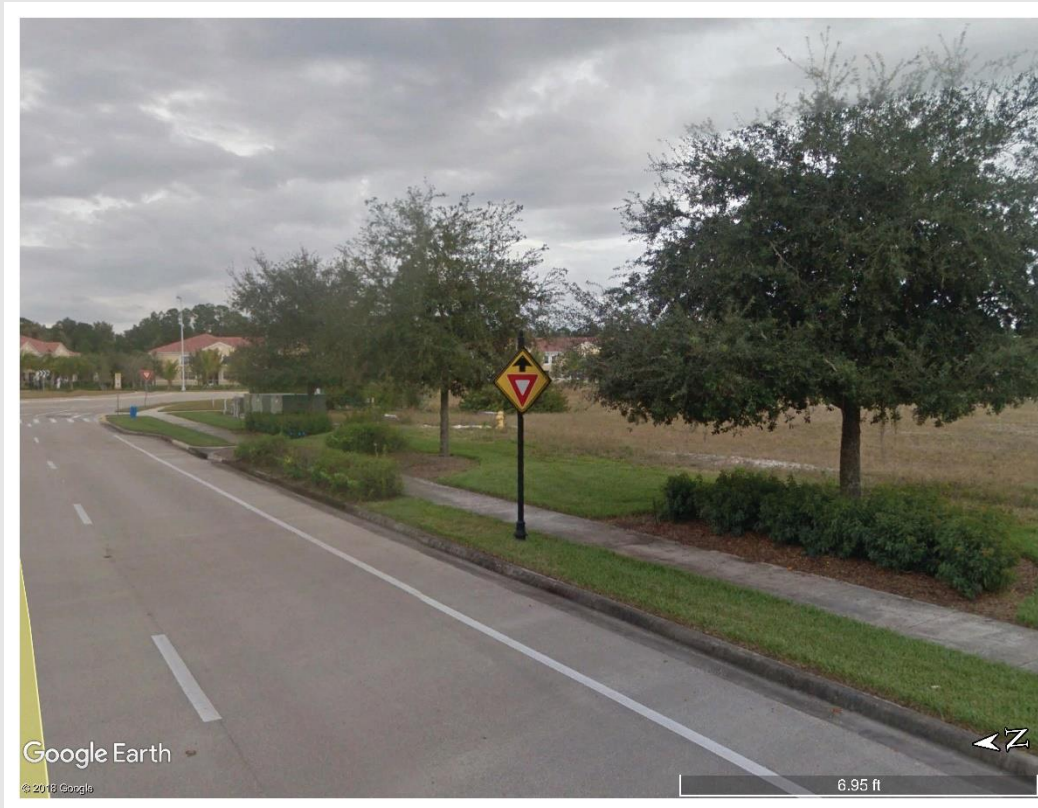


Speed Limit Sign

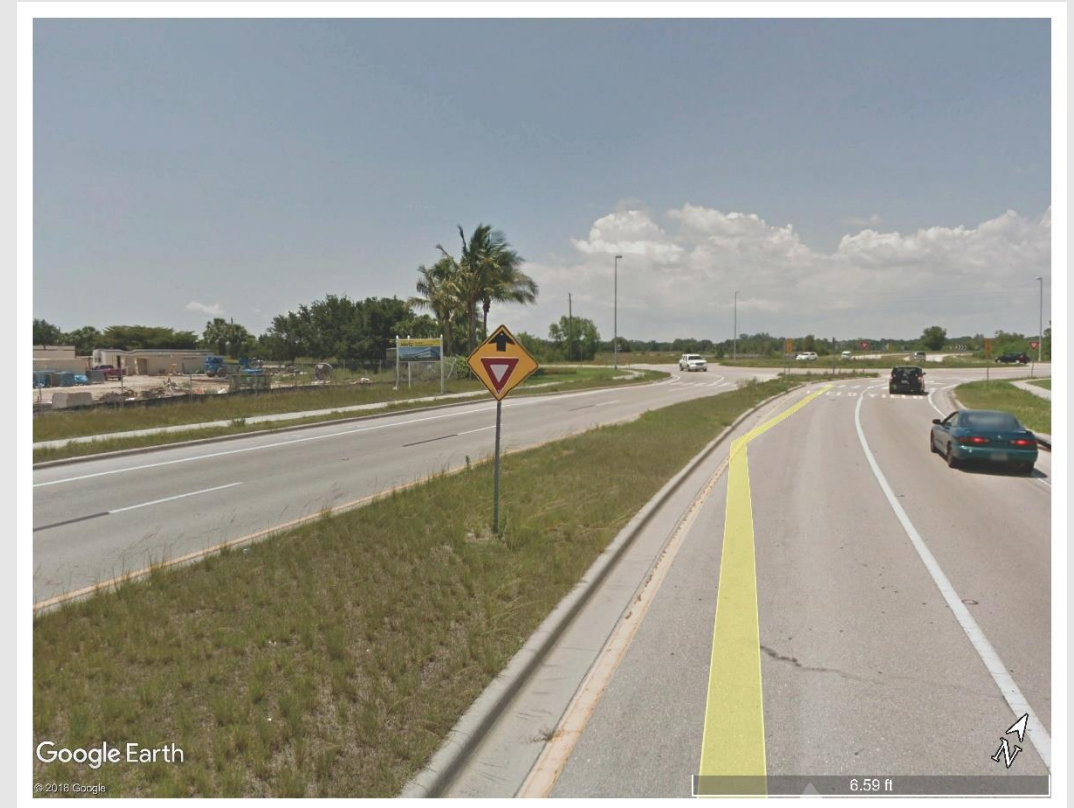


Stop Sign

Existing Street Signs



Yield Ahead Sign – Pelican Colony



Yield Ahead Sign – Via Coconut Point

Example Standards

- Bonita Springs
- Collier County
- City of Naples
- City of Weston



Bonita Springs



Traffic Signal



Street Light

Bonita Springs



Speed Limit Sign

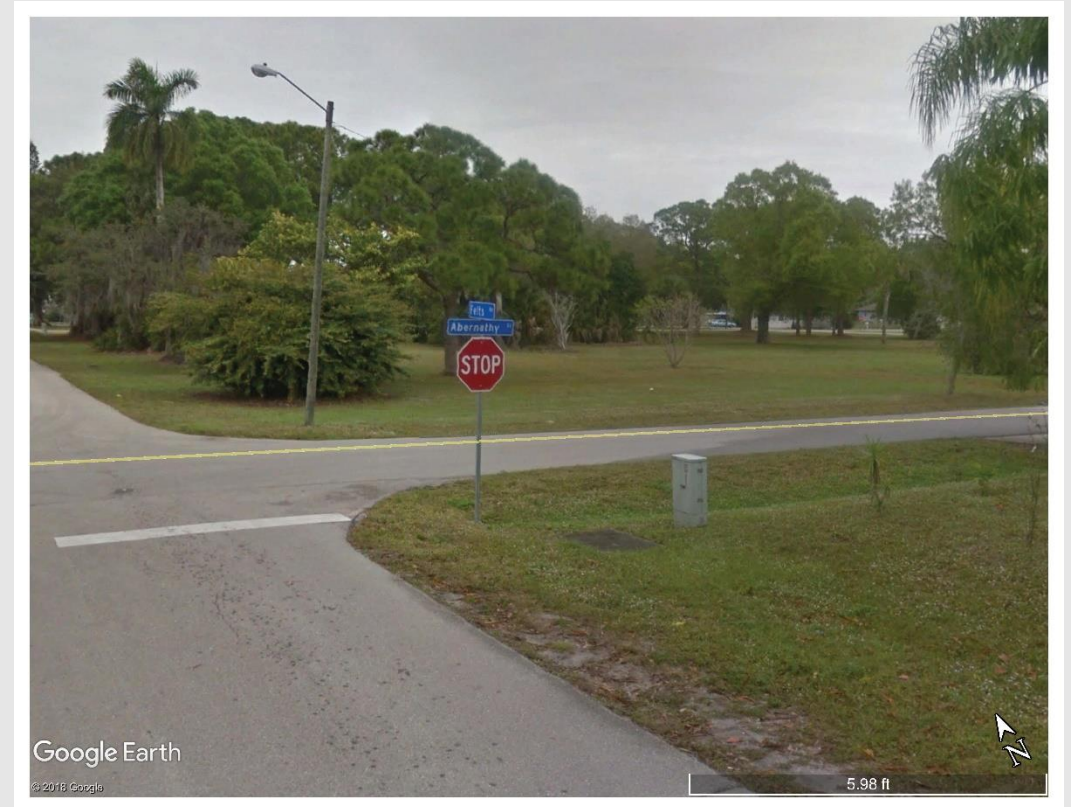


Speed Limit Sign

Bonita Springs

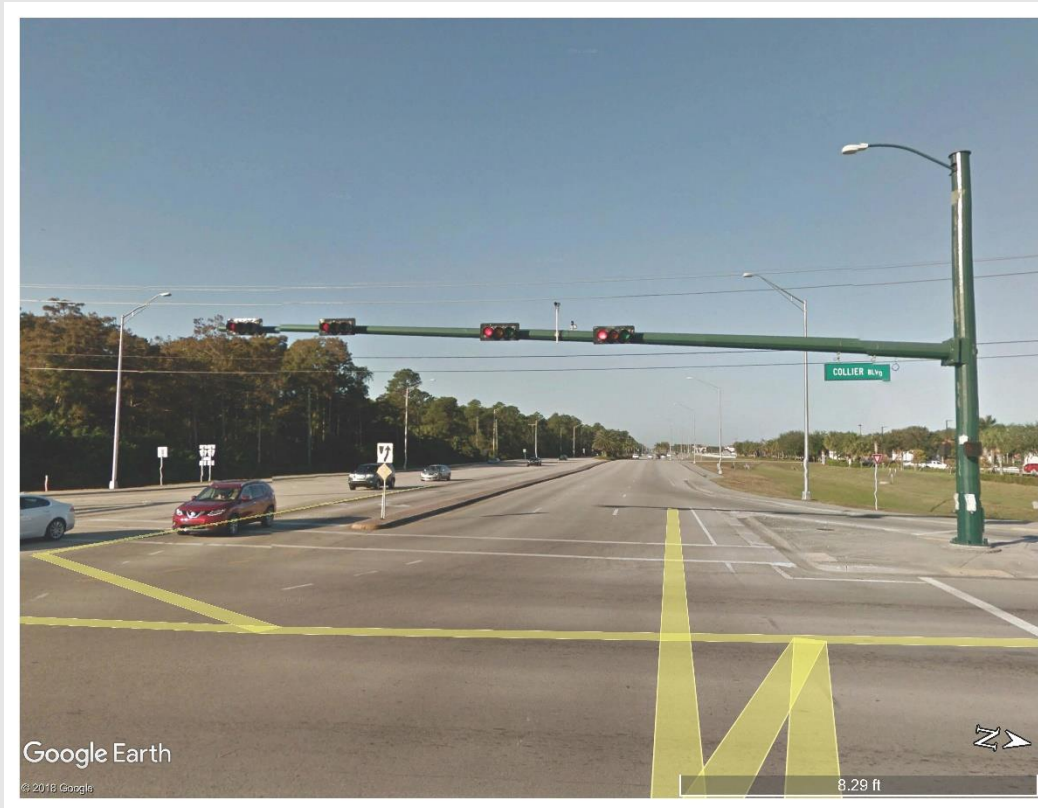


Stop Sign



Stop Sign

Collier County



Traffic Signal

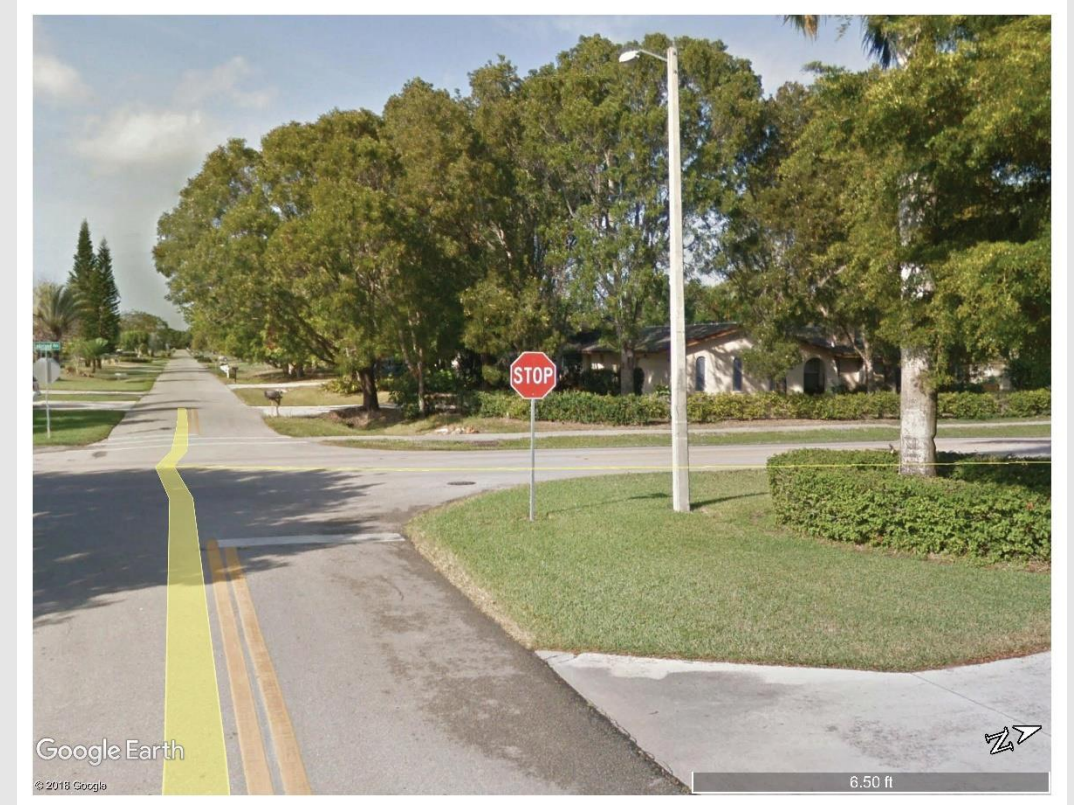


Street Light

Collier County

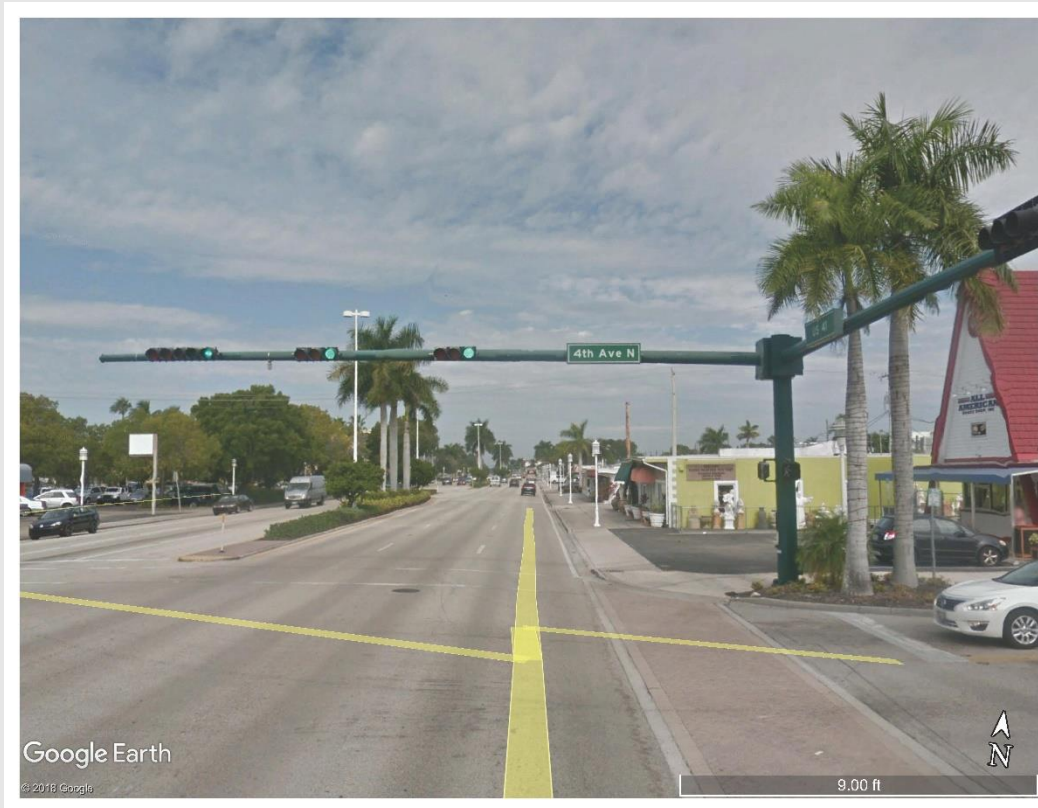


Speed Limit Sign

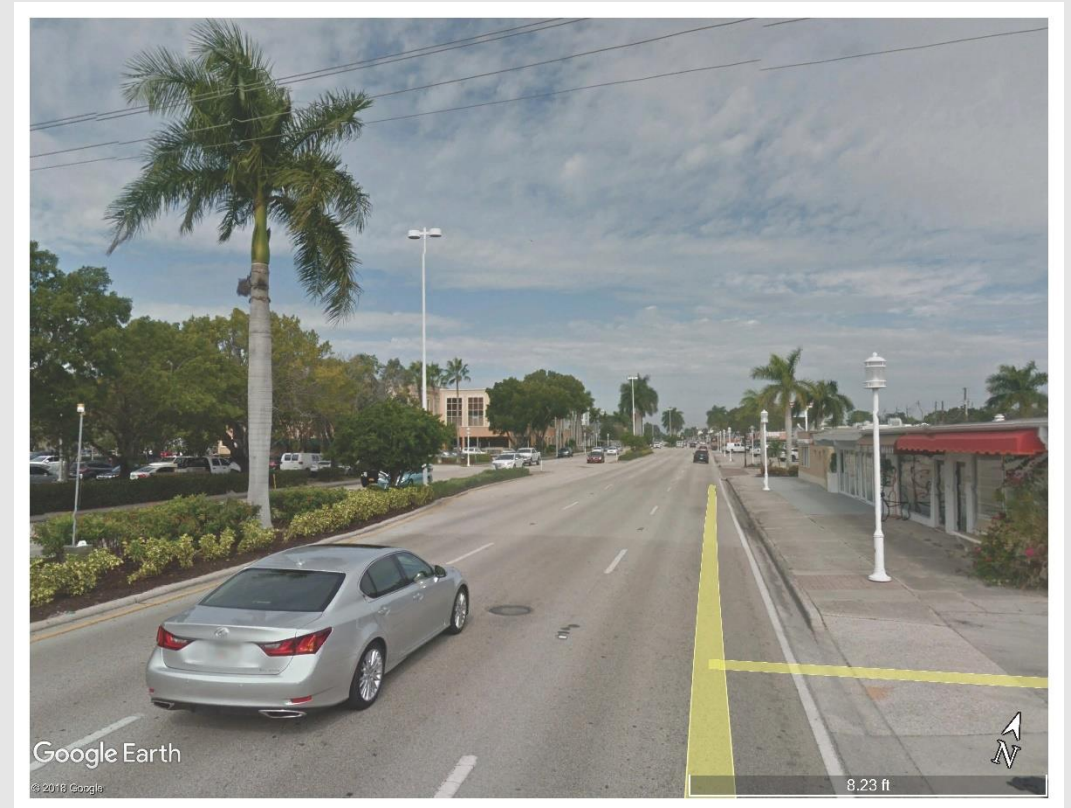


Stop Sign

City of Naples



Traffic Signal

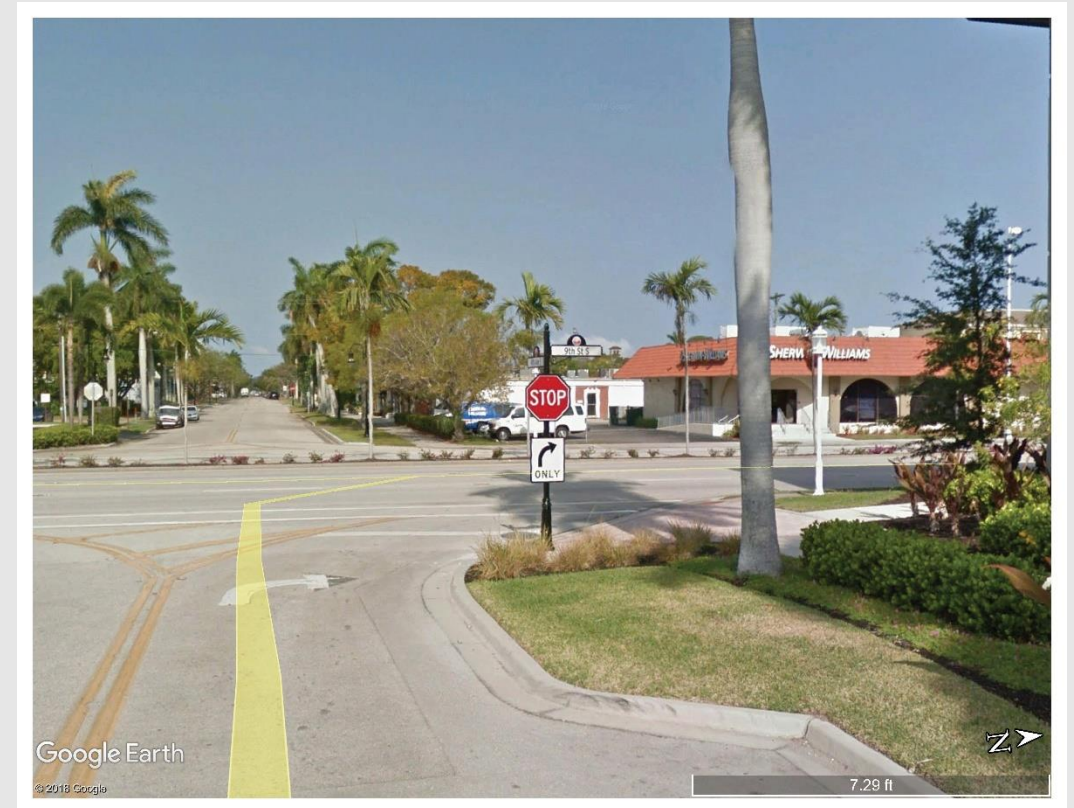


Street Light

City of Naples

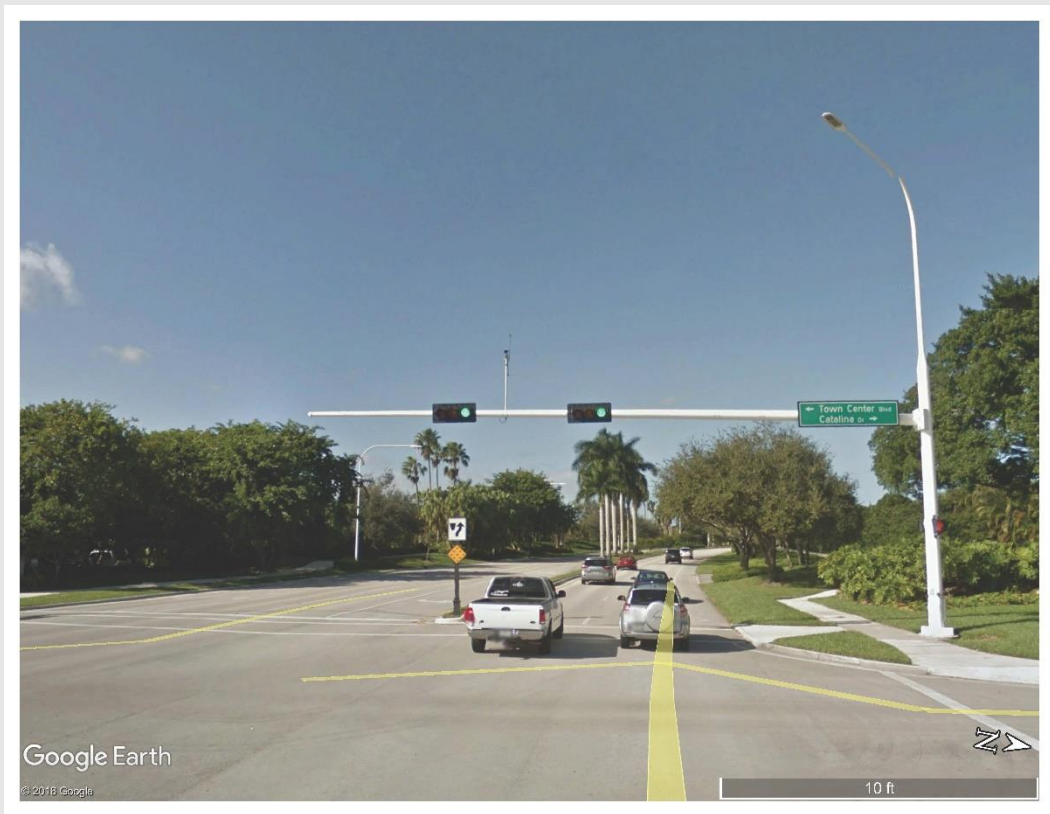


Speed Limit Sign



Stop Sign

City of Weston



Traffic Signal



Street Light

City of Weston



Speed Limit Sign



Stop Sign

City of Weston



School Sign

Cost Considerations-Traffic Signal

- Traffic Signals
 - Strip existing pole & repaint - \$20,000 - \$30,000 ea.
 - Paint galvanized poles - \$10,000 - \$15,000 ea.
 - Maintenance – Inspect annually, repair as needed
- Maintenance - Repaint every 5-7 years (\$20,000 - \$30,000 ea.)
- New Traffic Signals \$500,000 - \$600,000
- Replacement Costs
 - Replace cable and span wire: $5 \times \$600,000 = \$3,000,000$
 - Paint Galvanized: $9 \times \$15,000 = \$135,000$
 - Repaint: $7 \times \$30,000 = \$210,000$
 - Total = \$3,345,000

Cost Considerations-Street Lights

- Light Poles
 - Replacing - \$3,000 per pole
 - Painting - \$1,000 per pole
- Maintenance – Repaint every 5 - 10 years (\$500 per pole)
- Replacement Costs
 - Three Oaks Parkway: $50 \times \$3,000 = \$150,000$
 - Ben Hill Griffin Parkway: $26 \times \$3,000 = \$78,000$
 - Corkscrew Road: $43 \times \$3,000 = \$129,000$
 - Via Coconut Point: $8 \times \$3,000 = \$24,000$
 - Total = \$381,000

Cost Considerations-Traffic Signs

- Options
 - Decorative - \$1000 per sign
 - Standard - \$325 per sign
- Decorative Sign Maintenance – Repaint every 7-10 yrs. (\$150 per sign)
- Replacement Costs
 - Corkscrew Road: Est. 210 signs x \$1000 = \$210,000
 - \$210,000/5.3 miles = \$40,000/mi.
 - 26.2 miles of roadway = \$1,050,000 est.

Signal Options

1. As is
 - New signals likely galvanized
 - Replacements galvanized
2. Standard for New/Replacement Signals
 - Establish standard but only apply to new or replacement signals
3. Standard for Signals
 - Establish standard and actively replace existing signals to meet standard

Note: Village only owns one traffic signal. All others owned by LDOT of FDOT

Street Light Options

1. As is
 - Maintain existing lights
 - New lights selected on case by case basis
2. Standard for New/Replacement Street Lights
 - Establish standard but only apply to new street lights
 - Would effectively never expand to Village wide standard
3. Standard for Street Lights
 - Establish standard and actively replace existing lights to meet standard

Note: Village only owns street lights on US-41 and other Village maintained roads. To fully implement any standard Village would need to replace Lee County lights on Three Oaks Pkwy, Corkscrew Road and Ben Hill Griffin Pkwy.

Traffic Sign Options

1. As is
 - Maintain existing signs
 - All new sign meet FDOT standard
2. Standard for New/Replacement Signs
 - Establish standard but only apply to new or replacement signs
3. Standard for Signals
 - Establish standard and actively replace existing sign to meet standard

Note: Village only owns signs on Village maintained roadways. To get the standard implemented along all roadways the Village would need to install/maintain signs on County and/or FDOT roadways.

Next Steps

No Estero wide standards

1. No next step

Pursue standards

1. Decide which standards to pursue
2. Hire a consultant (or staff) to study and provide options/recommendations
3. Obtain public input
4. Council to make decision on Estero standards

Questions?

