ORANGE COUNTY FLORIDA

Bithlo Area Traffic Calming Study

South of SR 50

Wednesday October 14, 2026 | 6:00 PM – 7:30 PM

Orange County Public Works,
Traffic Engineering Division

INTRODUCTIONS



Kelly Martinez Semrad

District 5 Commissioner

INTRODUCTIONS

Orange County Traffic Engineering

Humberto Castillero, P.E., PTOE

Division Manager

Humberto.Castillero@ocfl.net

(407) 836-7891

Jerald Marks, Jr.

Project Manager

Jerald.MarksJr@ocfl.net

(407) 836-7892

Study Consultant

Pramod Choudhary, P.E., PTOE

AVCON Inc.

pchoudhary@avconinc.com

(407) 252-7606

Visit the project webpage:
https://bit.ly/BithloTS

PRESENTATION OUTLINE

- Introductions
- Vision Zero/The Four “E’s”
- Traffic Calming and Study History
- Study Area
- Existing Conditions
- Proposed Traffic Calming Measures
- Public Feedback

Vision Zero Action Plan

- The Safe System Approach is “Principles Based” to create a safety culture
- Achieving a Safe Systems requires all five elements
- Safe Roads is a continuum, not an absolute



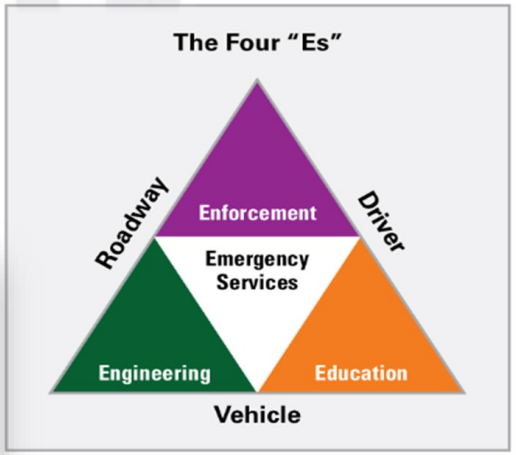
The Four “E’s” Approach

- Engineering
  - Road and Vehicle Design, Planning, Land Use
- Education
  - Awareness, Teaching, Training
- Enforcement
  - Preventing, Policing, and Mitigating Effects
- Emergency Response
  - Incident Response, Fire/Rescue, Hazardous Materials





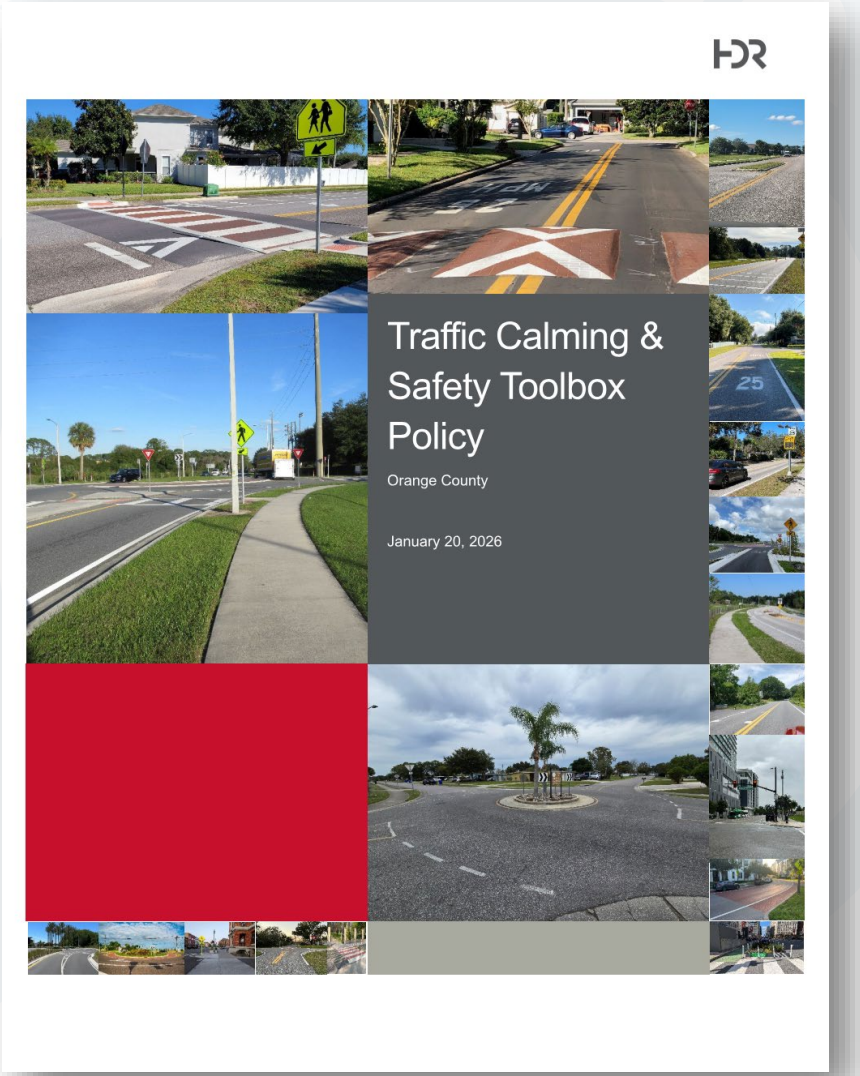






Traffic Calming and Study History

- **Orange County-Led Projects**
  - 311 Requests
  - Pavement Striping Initiative
  - Retro-reflectivity Signage Review
  - Resurfacing (Roads & Drainage Division)
  - Sidewalks (Engineering Division)
- **Traffic Calming Toolbox**
  - Expanded the 1994 Speed Hump Program to 40 treatments for various road types and contexts
  - Guides traffic calming measure selection by providing construction costs, project timeline, and context limitations



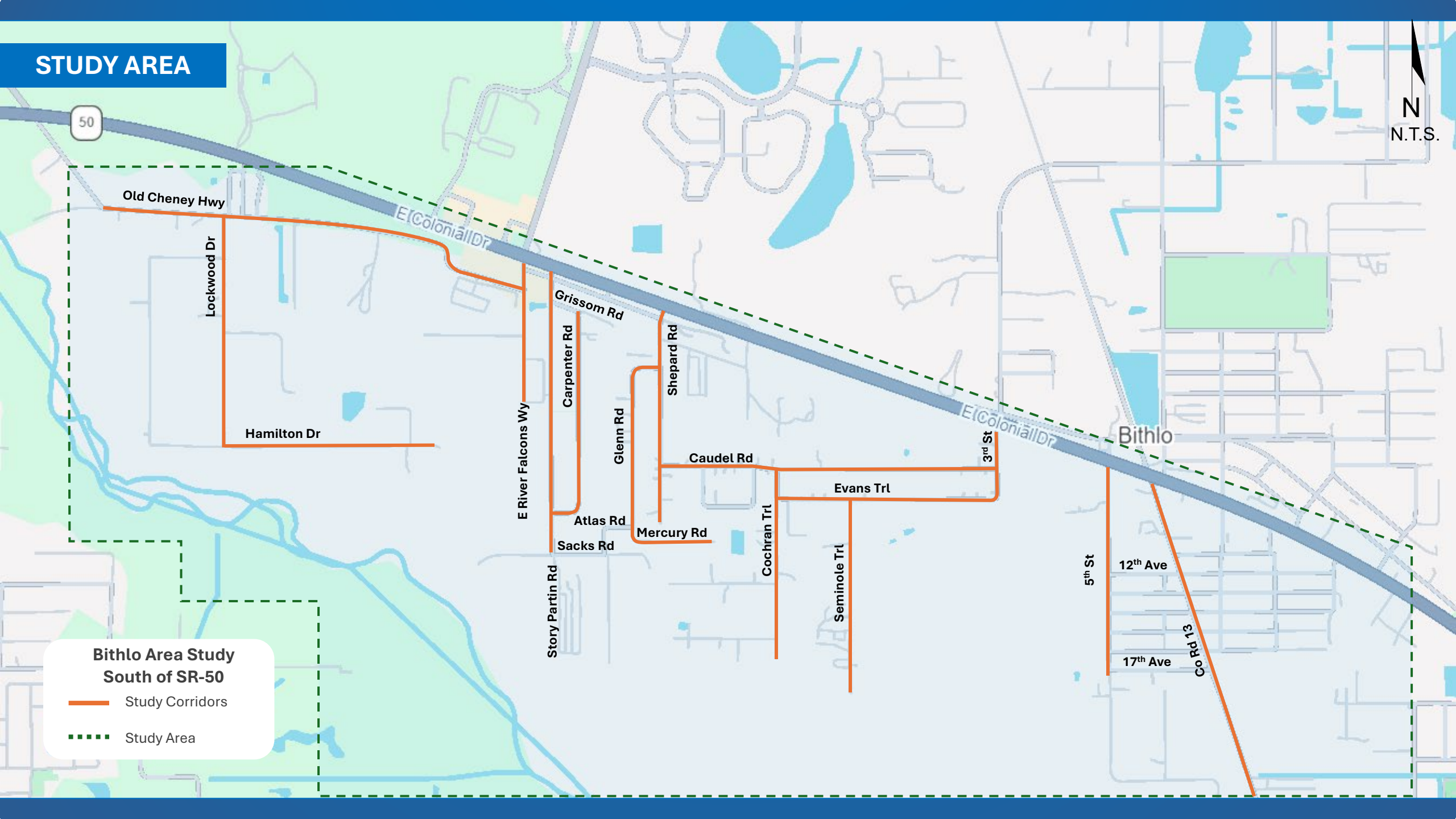
INTRODUCTIONS

Meeting Instructions

- The presentation will be followed by a question-and-answer period
- Comments will be addressed in the order they are received

PRESENTATION OUTLINE

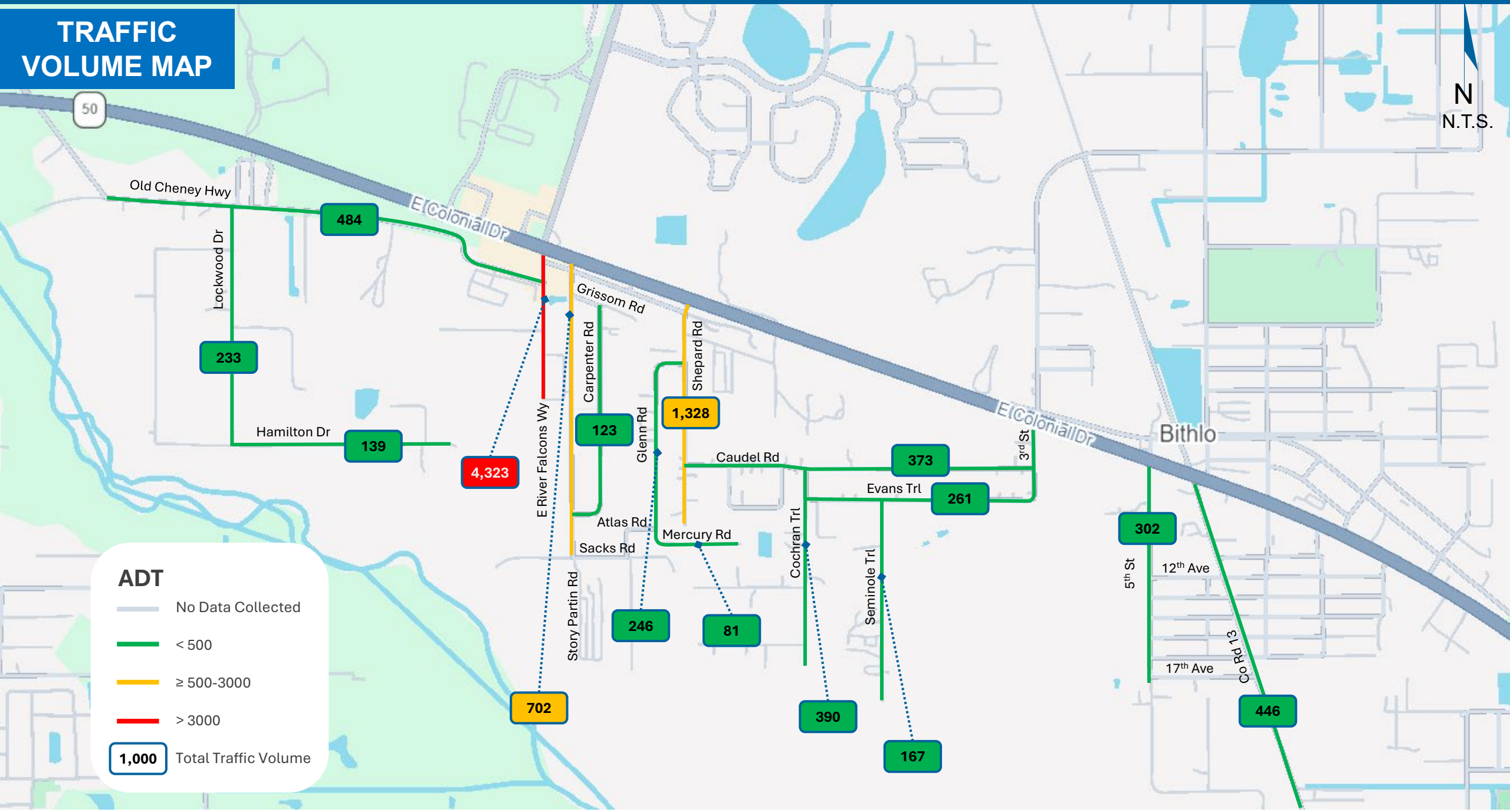
- Introductions
- Vision Zero/The Four “E’s”
- Traffic Calming and Study History
- Study Area
- Existing Conditions
- Proposed Traffic Calming Measures
- Public Feedback

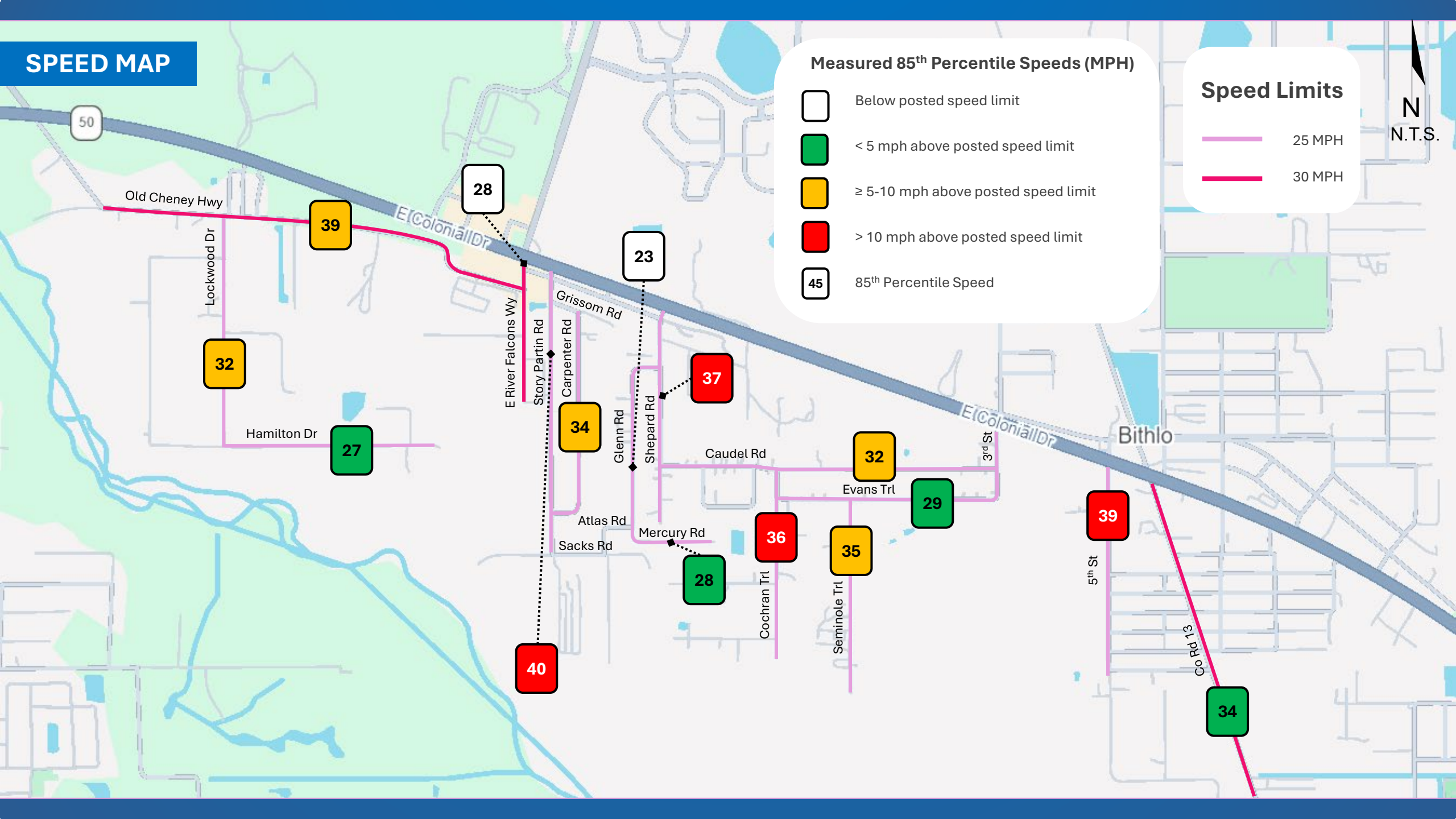

STUDY AREA
50
N
N.T.S.
Old Cheney Hwy
E Colonial Dr
Lockwood Dr
Hamilton Dr
Grissom Rd
E River Falcons Wy
Carpenter Rd
Glenn Rd
Shepard Rd
Caudel Rd
Evans Trl
3rd St
Bithlo
Atlas Rd
Mercury Rd
Sacks Rd
Story Partin Rd
Cochran Trl
Seminole Trl
5th St
12th Ave
17th Ave
Co Rd 13
Bithlo Area Study
South of SR-50
Study Corridors
Study Area

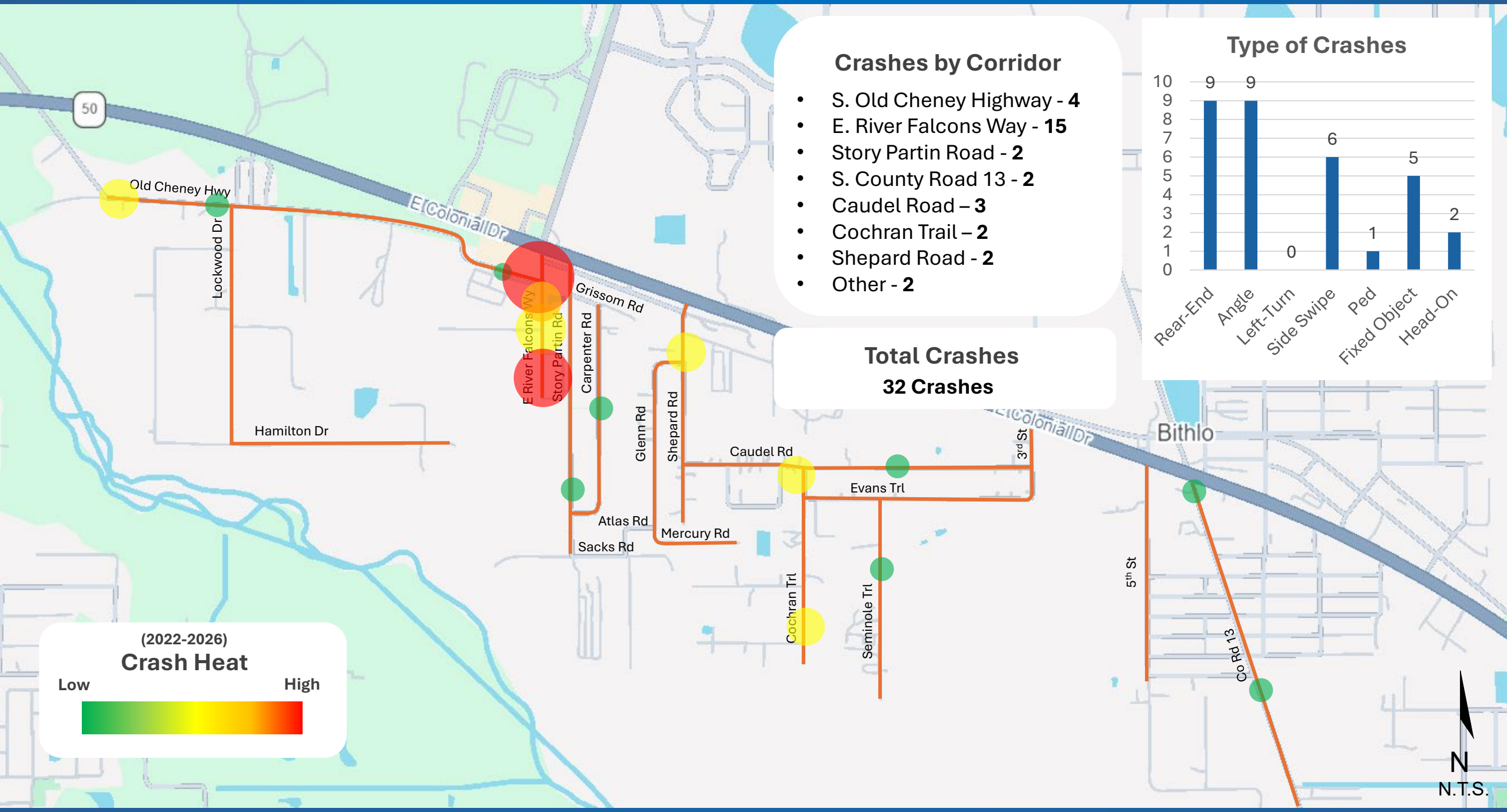
PRESENTATION OUTLINE

- Introductions
- Vision Zero/The Four “E’s”
- Traffic Calming and Study History
- Study Area
- **Existing Conditions**
- Proposed Traffic Calming Measures
- Public Feedback

TRAFFIC VOLUME MAP




SPEED MAP
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45
85th Percentile Speed
Speed Limits
25 MPH
30 MPH
N
N.T.S.
50
E Colonial Dr
Old Cheney Hwy
Lockwood Dr
Hamilton Dr
E River Falcons Wy
Story Partin Rd
Carpenter Rd
Grissom Rd
Glenn Rd
Shepard Rd
Caudel Rd
Evans Trl
3rd St
Bithlo
Atlas Rd
Mercury Rd
Sacks Rd
Cochran Trl
Seminole Trl
5th St
Co Rd 13
39
28
23
32
37
34
27
32
29
36
35
28
39
40
34



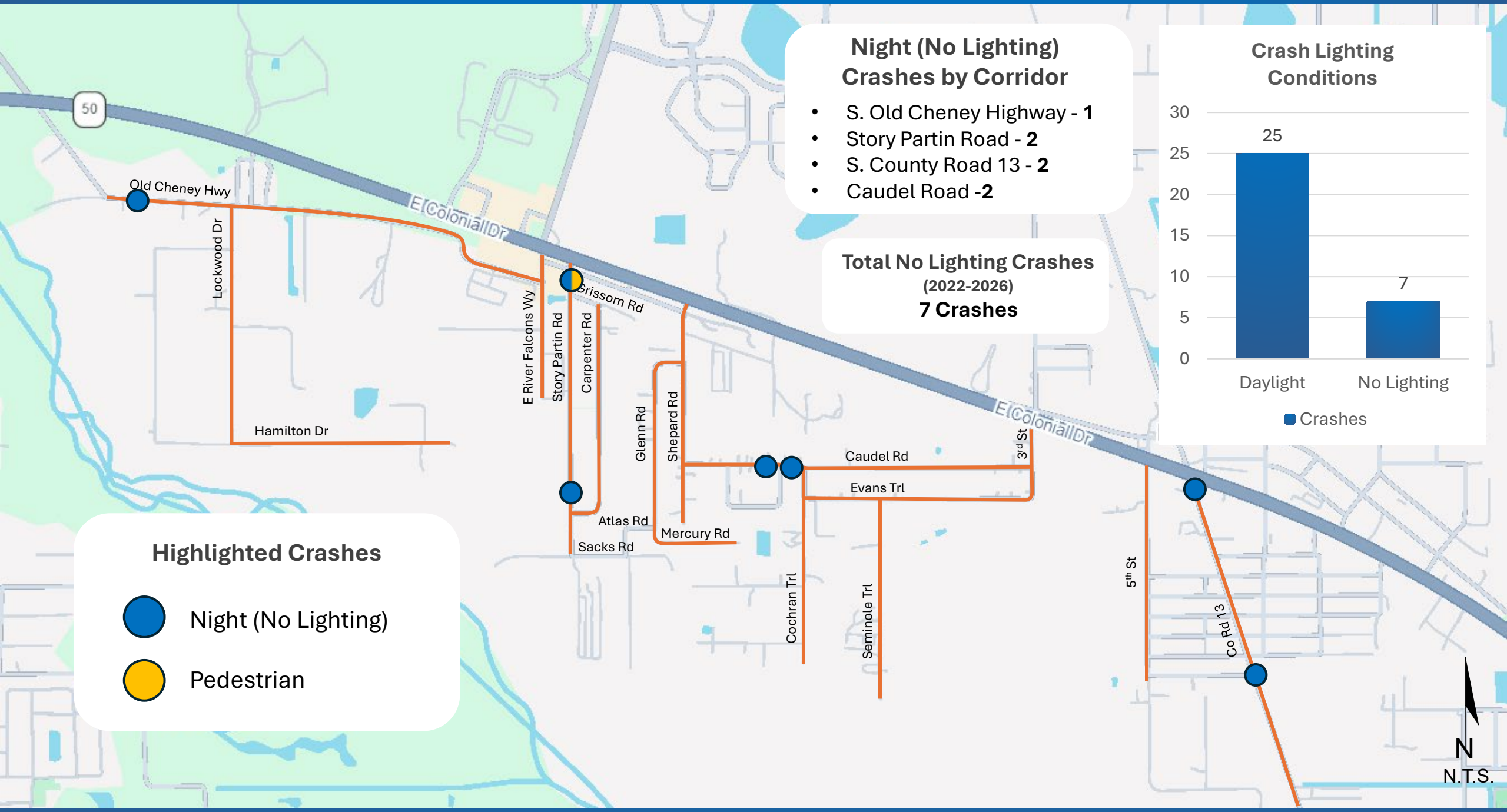
Crashes by Corridor

- S. Old Cheney Highway - **4**
- E. River Falcons Way - **15**
- Story Partin Road - **2**
- S. County Road 13 - **2**
- Caudel Road – **3**
- Cochran Trail – **2**
- Shepard Road - **2**
- Other - **2**

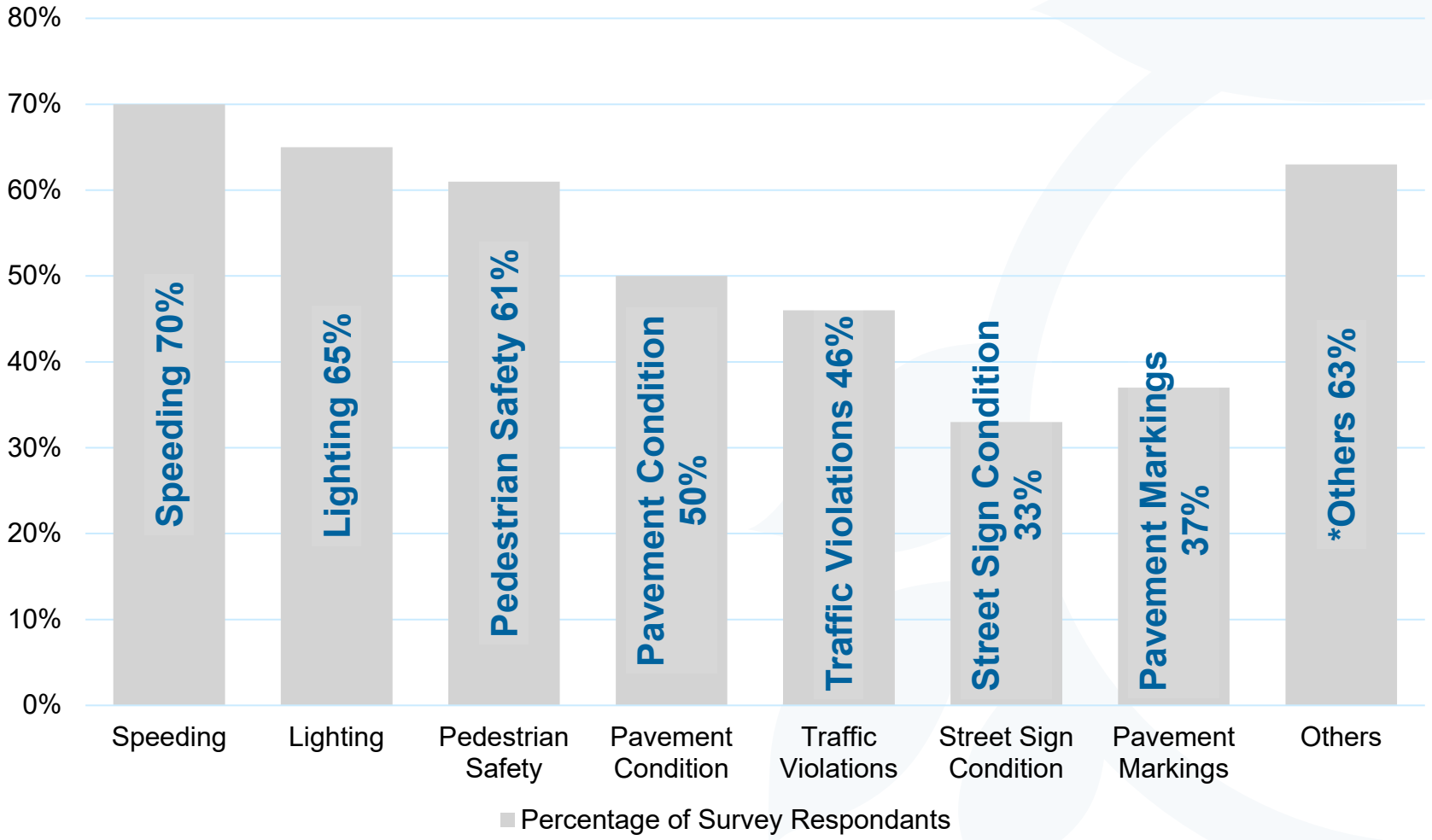
Total Crashes

32 Crashes

Type of Crashes


50
Old Cheney Hwy
E Colonial Dr
Lockwood Dr
Hamilton Dr
E River Falcons Wy
Story Partin Rd
Carpenter Rd
Brissom Rd
Glenn Rd
Shepard Rd
Caudel Rd
Evans Trl
3rd St
Atlas Rd
Mercury Rd
Sacks Rd
Cochran Trl
Seminole Trl
5th St
Co Rd 13
E Colonial Dr
Night (No Lighting) Crashes by Corridor
S. Old Cheney Highway - 1
Story Partin Road - 2
S. County Road 13 - 2
Caudel Road -2
Total No Lighting Crashes
(2022-2026)
7 Crashes
Crash Lighting Conditions
30
25
20
15
10
5
0
25
7
Daylight
No Lighting
Crashes
Highlighted Crashes
Night (No Lighting)
Pedestrian
N
N.T.S.

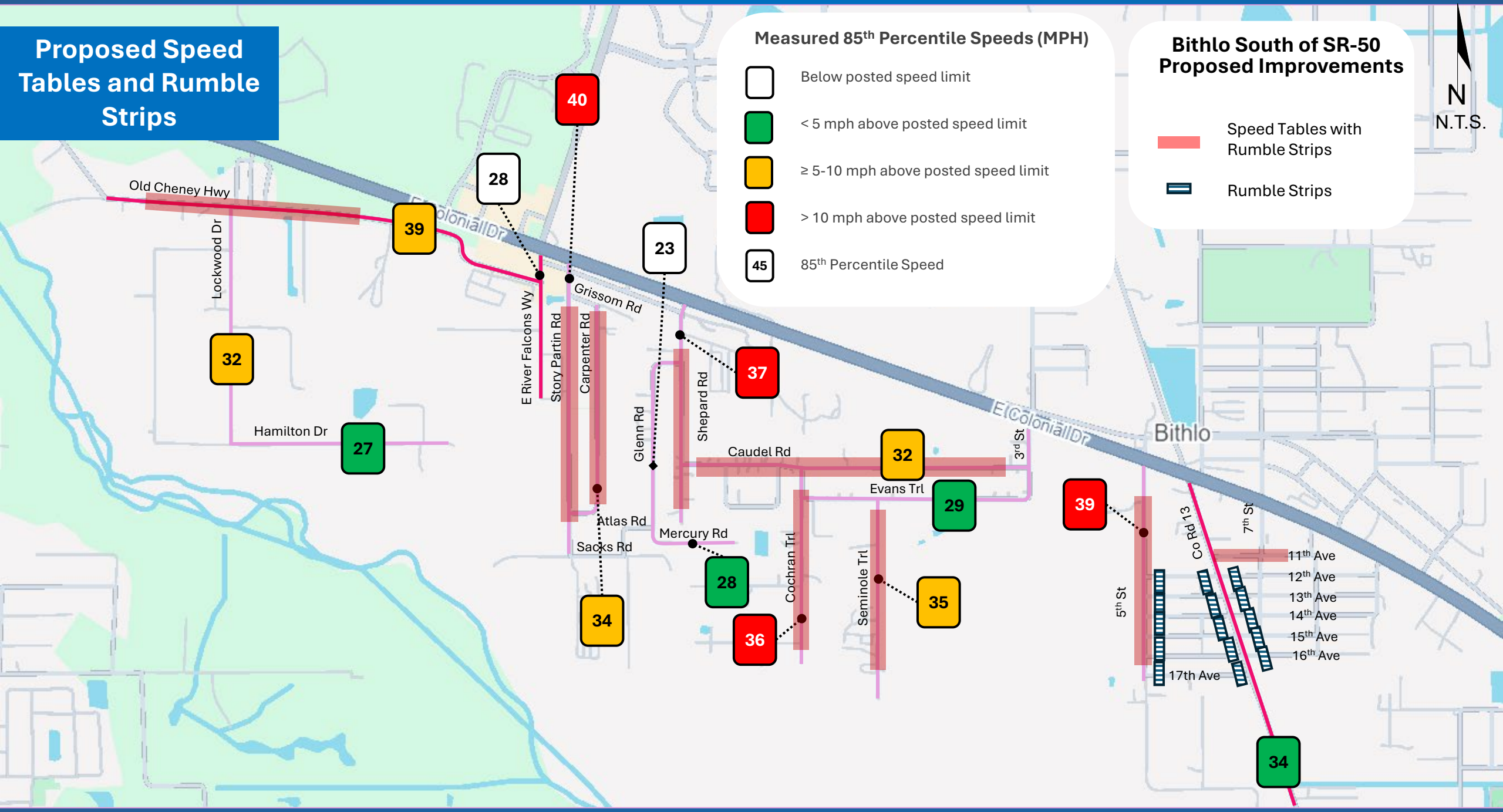
EXISTING CONDITIONS – PUBLIC COMMENTS

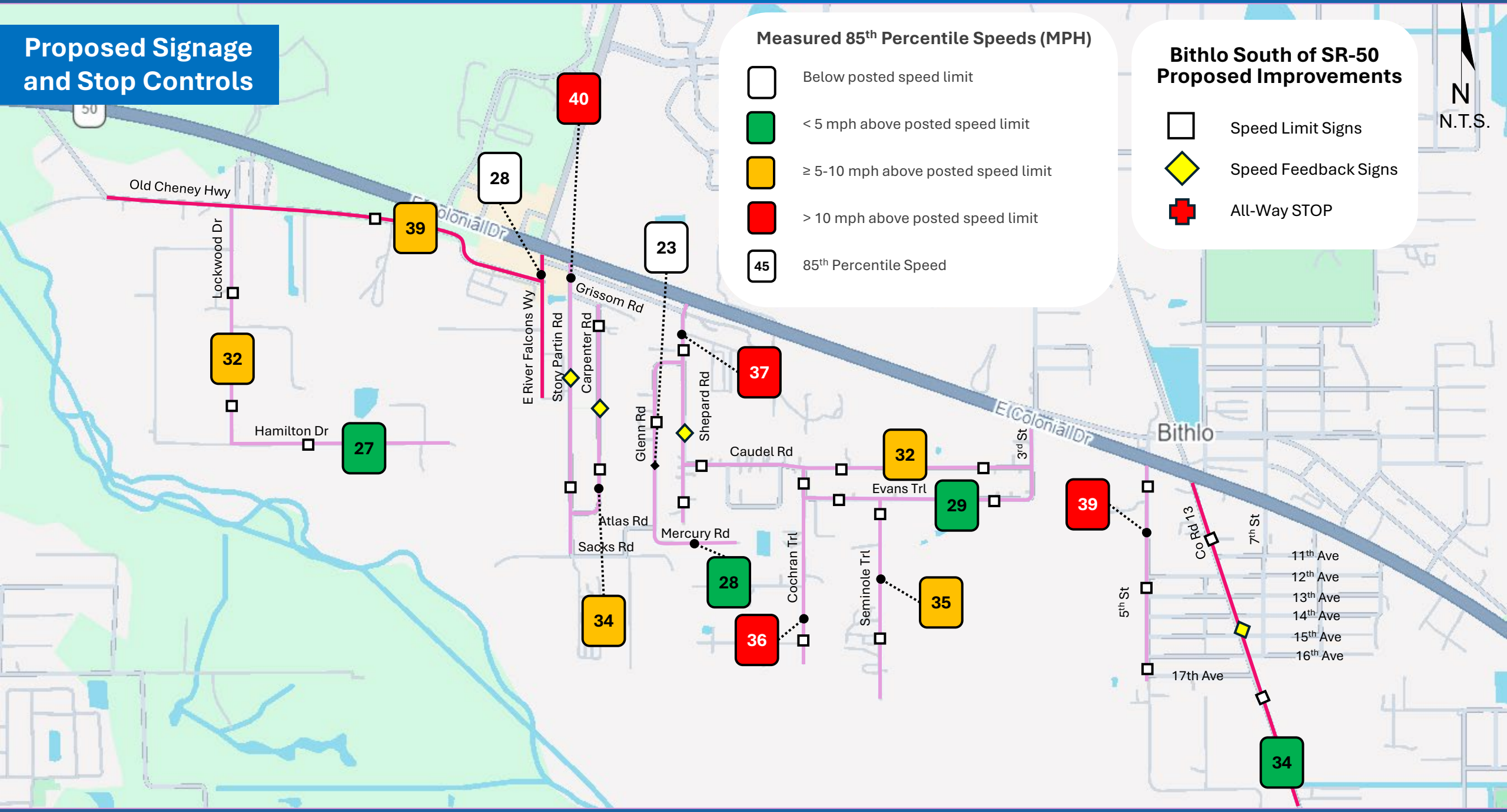


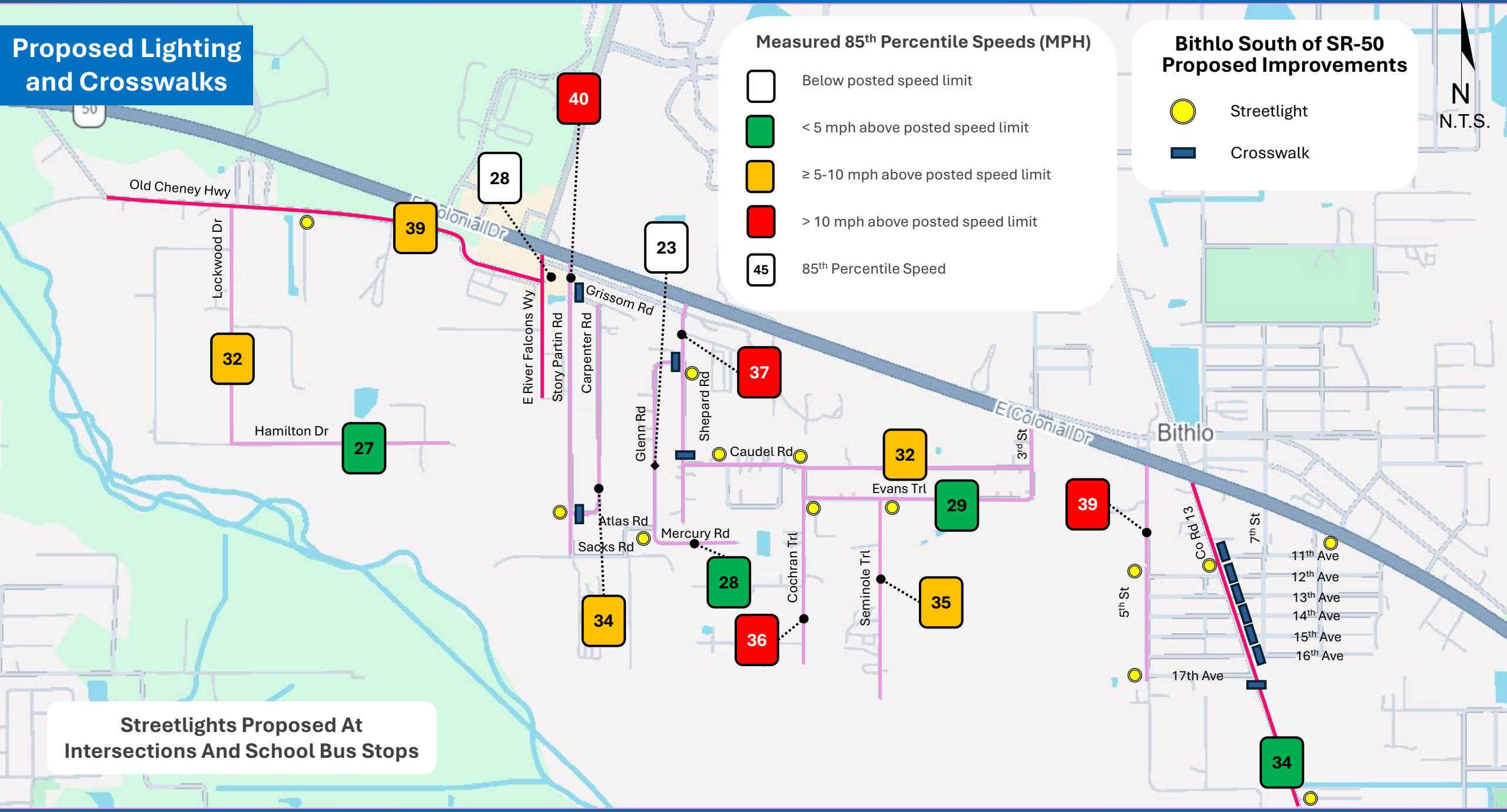
*Others (Enforcement, drainage, unmaintained ditches, street flooding, trash on the roads, horses on the road, reckless bike riding by children, safe drinking and bathing water supply, underground sewage system, asking for traffic signals at many locations, racing on the roads, complaining about neighbors, drug peddling, poor landscape, poor condition of the city, etc.)

PRESENTATION OUTLINE

- Introductions
- Vision Zero/The Four “E’s”
- Traffic Calming and Study History
- Study Area
- Existing Conditions
- **Proposed Traffic Calming Measures**
- Public Feedback


Proposed Speed Tables and Rumble Strips
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45 85th Percentile Speed
Bithlo South of SR-50 Proposed Improvements
Speed Tables with Rumble Strips
Rumble Strips
N
N.T.S.
Old Cheney Hwy
Lockwood Dr
Hamilton Dr
E Colonial Dr
E River Falcons Wy
Story Partin Rd
Carpenter Rd
Grissom Rd
Glenn Rd
Shepard Rd
Caudel Rd
Evans Trl
Atlas Rd
Sacks Rd
Mercury Rd
Cochran Trl
Seminole Trl
3rd St
Bithlo
5th St
Co Rd 13
7th St
11th Ave
12th Ave
13th Ave
14th Ave
15th Ave
16th Ave
17th Ave
40
28
39
23
32
37
27
32
29
28
34
36
35
39
34


Proposed Signage and Stop Controls
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45 85th Percentile Speed
Bithlo South of SR-50 Proposed Improvements
Speed Limit Signs
Speed Feedback Signs
All-Way STOP
N
N.T.S.
Old Cheney Hwy
E Colonial Dr
Lockwood Dr
Hamilton Dr
E River Falcons Wy
Story Partin Rd
Carpenter Rd
Grissom Rd
Glenn Rd
Shepard Rd
Caudel Rd
Evans Trl
Atlas Rd
Sacks Rd
Mercury Rd
Cochran Trl
Seminole Trl
Bithlo
3rd St
Co Rd 13
7th St
5th St
11th Ave
12th Ave
13th Ave
14th Ave
15th Ave
16th Ave
17th Ave
40
28
39
23
32
27
37
32
29
28
34
36
35
39
34


Proposed Lighting and Crosswalks
Measured 85th Percentile Speeds (MPH)
Below posted speed limit
< 5 mph above posted speed limit
≥ 5-10 mph above posted speed limit
> 10 mph above posted speed limit
45 85th Percentile Speed
Bithlo South of SR-50 Proposed Improvements
Streetlight
Crosswalk
N
N.T.S.
Streetlights Proposed At Intersections And School Bus Stops
Old Cheney Hwy
E Colonial Dr
Lockwood Dr
Hamilton Dr
E River Falcons Wy
Story Partin Rd
Carpenter Rd
Grissom Rd
Glenn Rd
Shepard Rd
Caudel Rd
Evans Trl
Atlas Rd
Sacks Rd
Mercury Rd
Cochran Trl
Seminole Trl
3rd St
5th St
Co Rd 13
7th St
Bithlo
11th Ave
12th Ave
13th Ave
14th Ave
15th Ave
16th Ave
17th Ave
40
28
39
23
32
37
27
32
29
28
34
36
35
39
34

PRESENTATION OUTLINE

- Introductions
- Vision Zero/The Four “E’s”
- Traffic Calming and Study History
- Study Area
- Existing Conditions
- Proposed Traffic Calming Measures
- Public Feedback

PUBLIC FEEDBACK

Ways to Provide Feedback During the Meeting

- Ask questions and speak with project team members at the community meeting
- Submit a written comment form or fill out a speaker card

NEXT STEPS

- Submit Your Feedback
  - Written comment forms
  - By email
- Draft Report
  - Anticipated for County review in early November 2026
- Final Report
  - Anticipated by mid-November 2026
    - Short-term recommendations typically implemented in 0-2 years
    - Mid-term recommendations typically implemented in 3-5 years
    - Long-term recommendations typically implemented in 5+ years
- Vertical Deflection Implementation (Speed Cushions or Speed Tables)
  - Prior to the installation of vertical deflection traffic calming measures, ballots will be distributed to directly affected property owners. To proceed with the installation, at least 66% of the returned ballots must be in favor of the proposed improvements