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May 19, 2009

Temporary Traffic Calming Plan

36th Street and Equestrian Trail

Knox Road to Elliot-Warner Road



Kerry Wilcoxon
City of Phoenix Street Transportation Department
Safety & Neighborhood Traffic

Neighborhood Streets



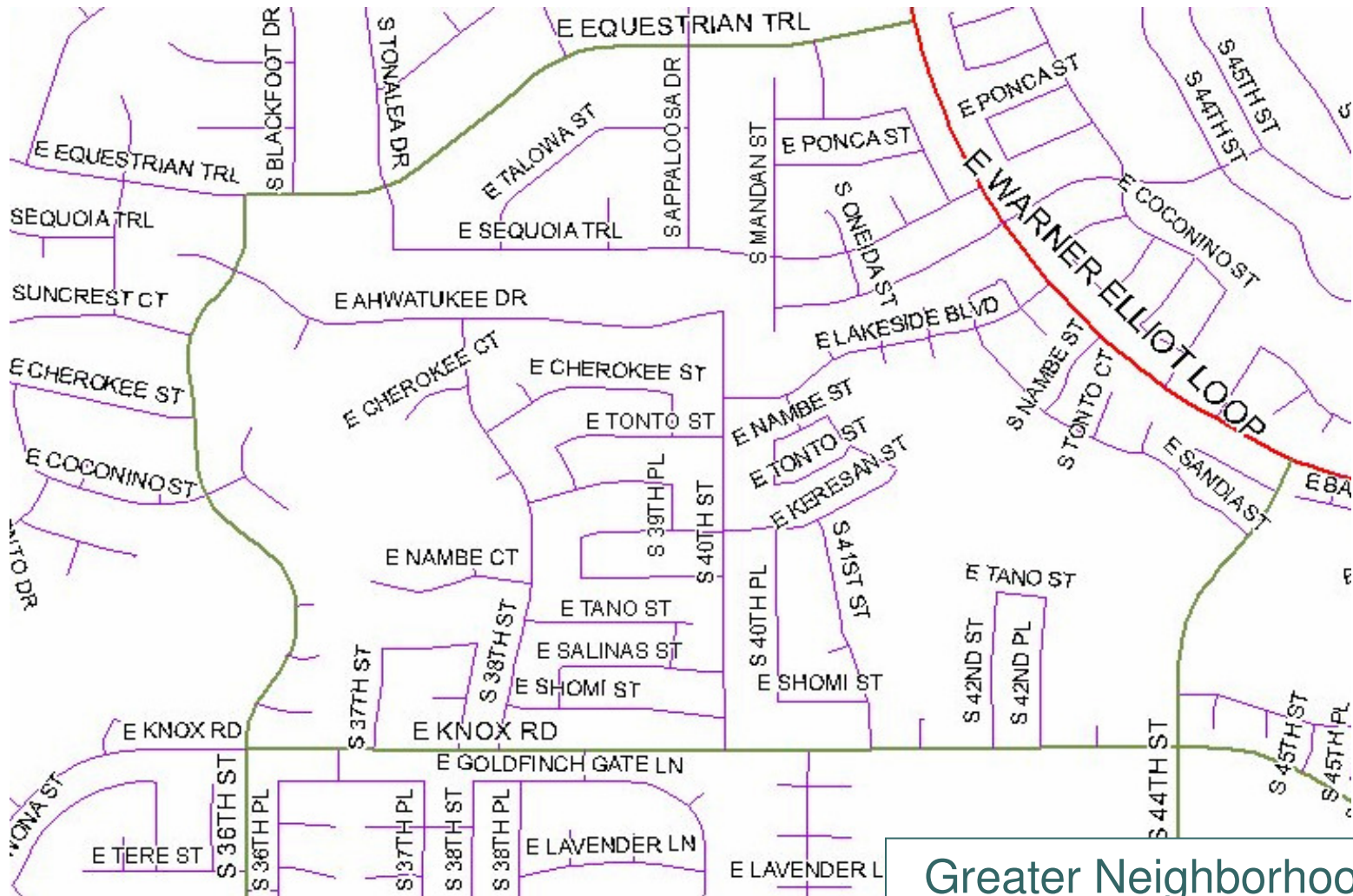
Arterial Street



Collector Street



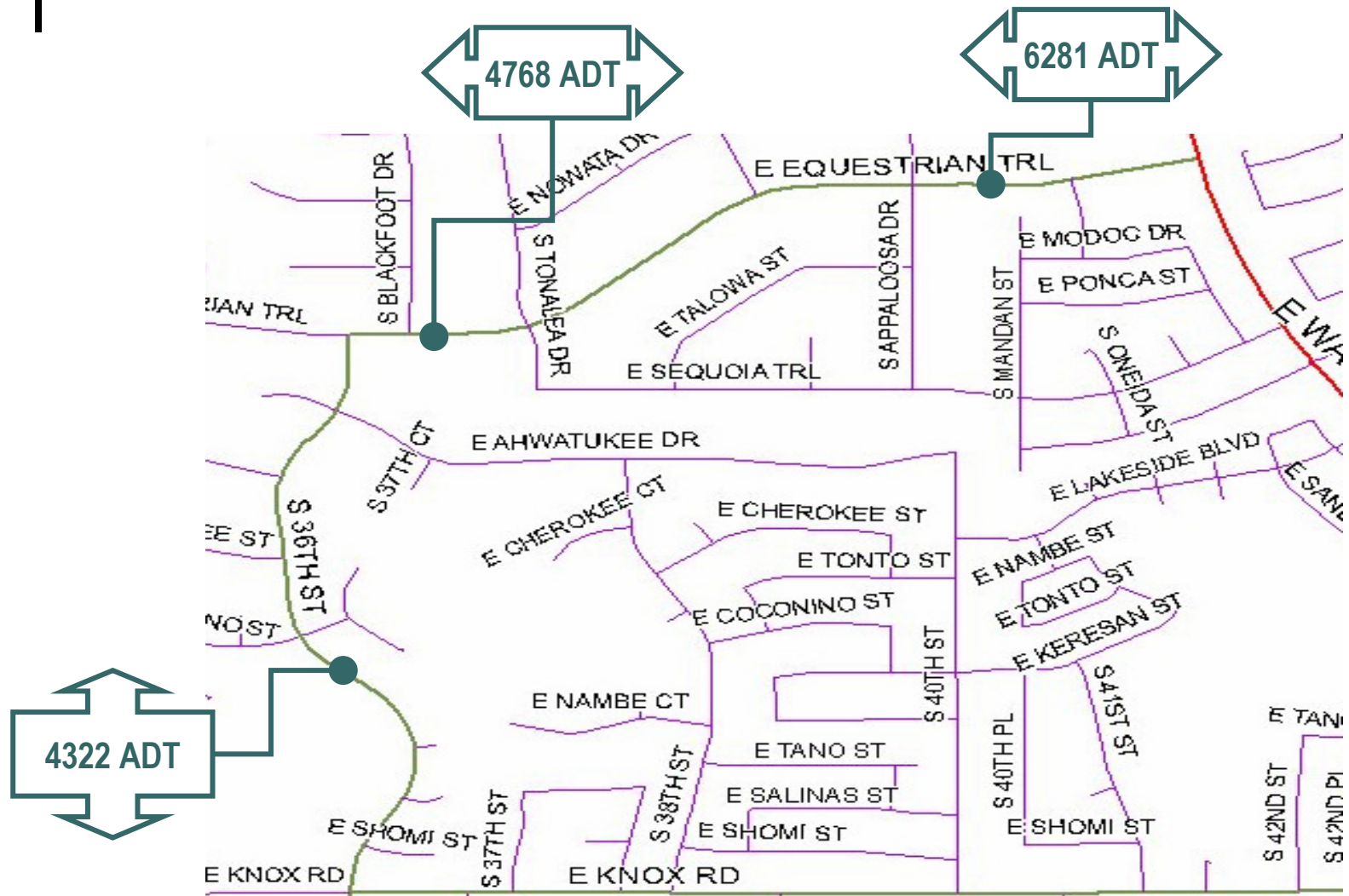
Local Street



Greater Neighborhood

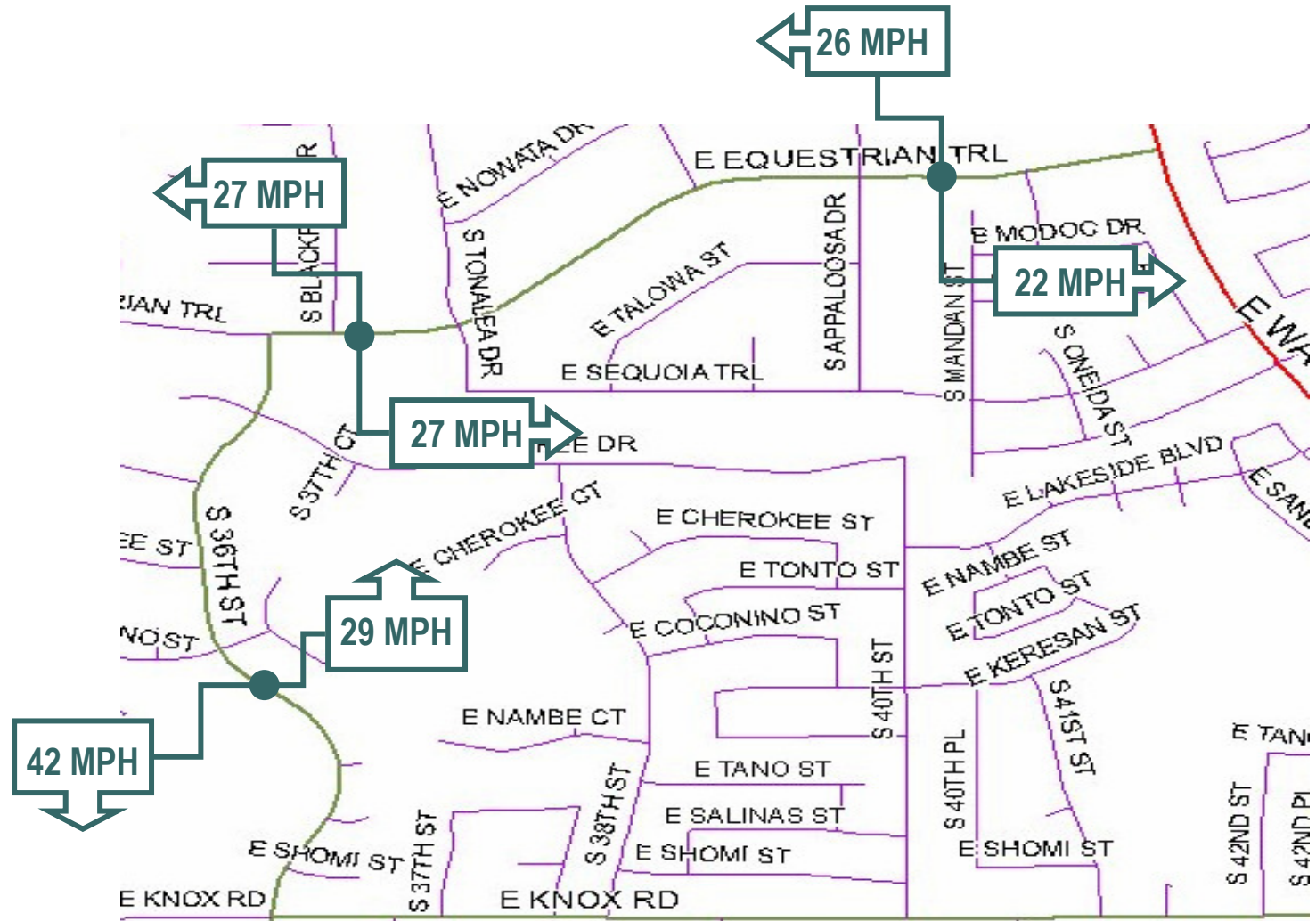
Typical Traffic Conditions

Traffic Volume



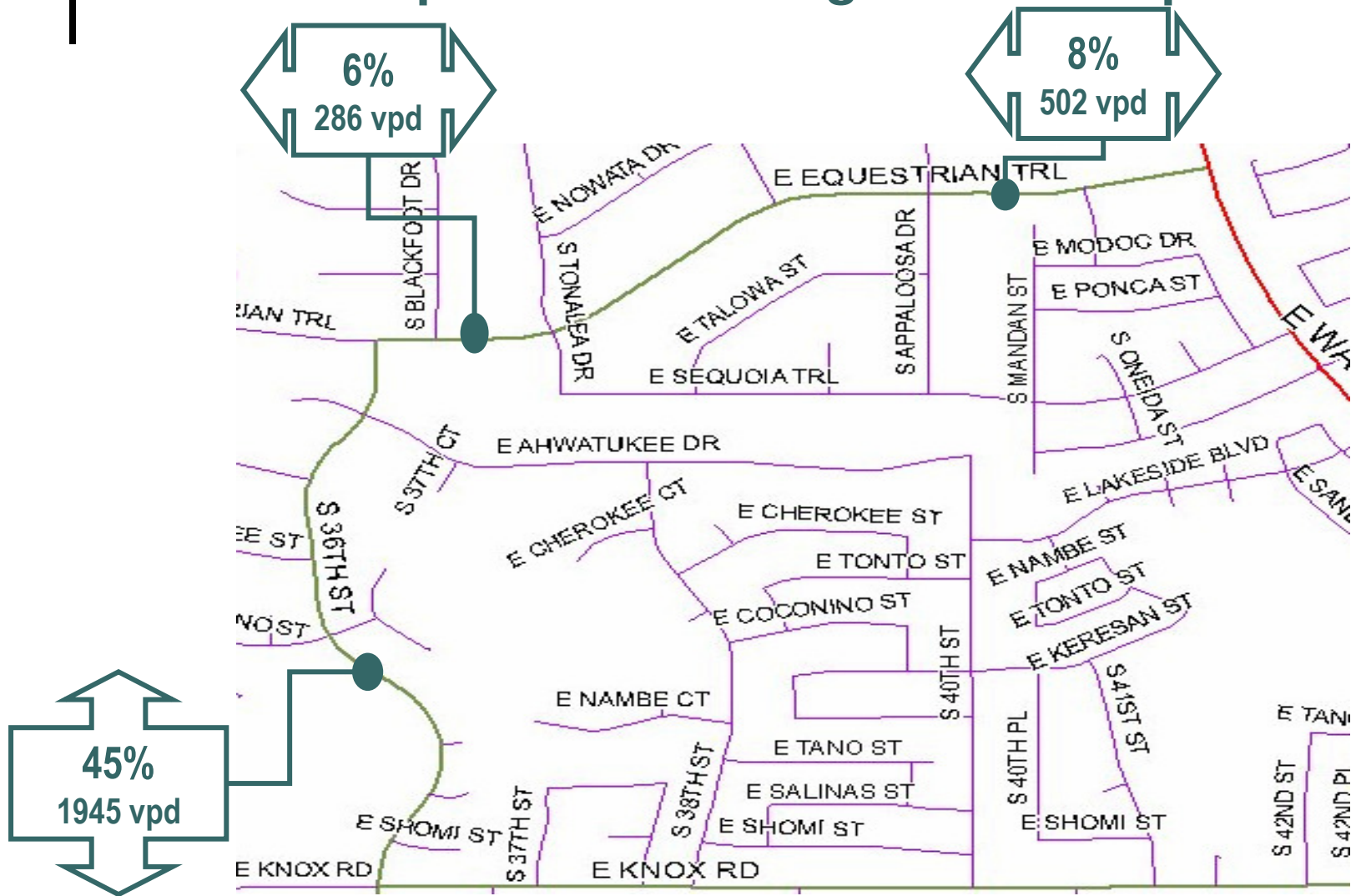
Typical Traffic Conditions

Traffic Speed – Directional Averages



Typical Traffic Conditions

Traffic Speed – Percentage Over 35 mph





Typical Traffic Conditions

Traffic Crash History 2005-2007

01/07/06 11:04 pm
1 Vehicle (Curb)
Speed Too Fast ①

10/09/06 12:25 pm
U-Turn
Made Improper Turn ②

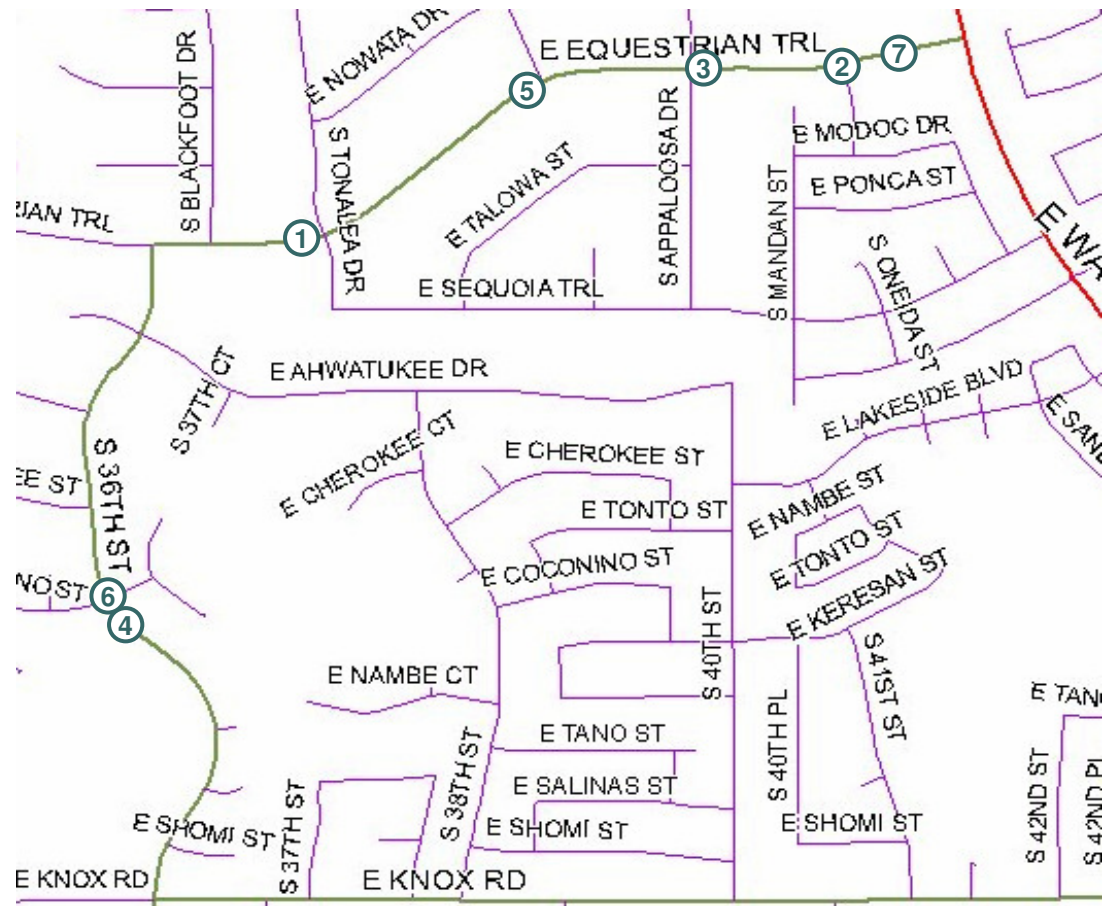
10/20/06 7:53 am
Rear End
Speed Too Fast ③

12/17/06 3:27 am
1 Vehicle (Fence)
Speed Too Fast ④

05/08/07 10:18 pm
1 Vehicle
Speed Too Fast
Drinking ⑤

08/14/07 9:17 am
Rear End
Speed Too Fast ⑥

04/17/08 6:11 pm
Sideswipe
Speed Too Fast ⑦





Typical Traffic Conditions Summary

- 36th Street and Equestrian both...
 - are classified as COLLECTOR STREETS
 - Do not qualify for speed humps
 - have moderate traffic volume
 - have high amounts of speeding
 - have no documented crash patterns

Qualify for Collector Street Mitigation

Collector Street Mitigation Program

Resident driven program to install new striping, traffic circles or chicanes on neighborhood collector streets

Devices intended to slow or discourage

Applies to COLLECTOR street intersections or segments





Collector Streets – Why no speed humps?

Collector streets serve as primary emergency access into neighborhoods

Speed humps...

- Increase emergency response time
- Potential damage to emergency equipment

Collector streets are also designed to carry storm run-off for neighborhoods

Speed humps...

- Block or divert run-off



Traffic Mitigation Process

- Contact from Neighborhood
- Conduct traffic study
- Devise Traffic Control Plan
- Obtain Neighborhood Consensus
- Implement and Test Solutions

Collector Street Projects

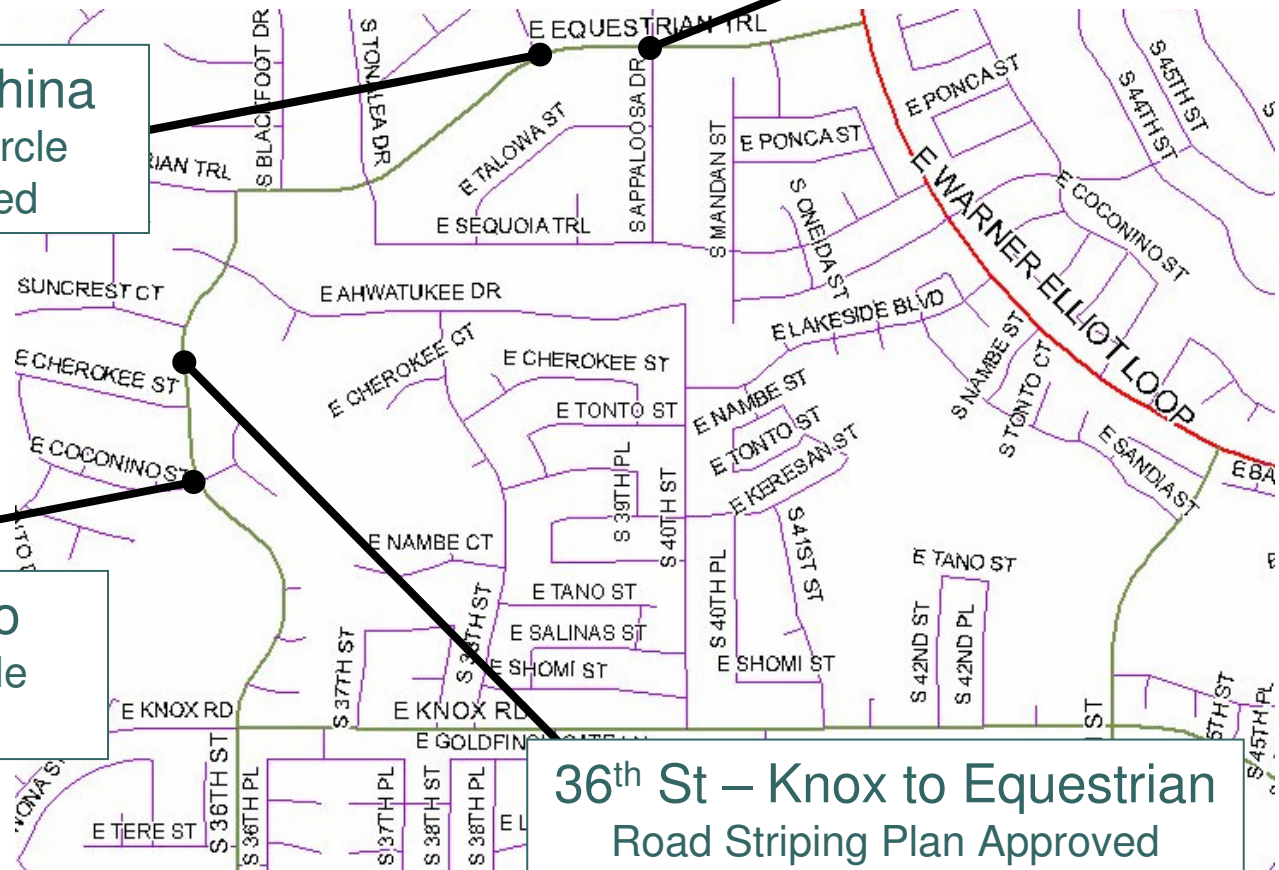
36th Street to Equestrian Trail
Knox to Warner Elliot Loop

Equestrian & Appaloosa
Temporary Traffic Circle
Installation Approved

Equestrian & Kachina
Temporary Traffic Circle
Installation Proposed

36th St & Coconino
Temporary Traffic Circle
Installation Approved

36th St – Knox to Equestrian
Road Striping Plan Approved





Next Steps

- Temporary measures installed – June 2009
- Post-installation traffic observations
 - Summer – August 2009
 - School Year – September 2009
- Neighborhood Meeting – September 2009
- Permanent Petition – September 2009



Permanent Traffic Circle

What is required to make the circles permanent?

- Temporary circles must work (i.e. they must slow traffic)
- A super majority of the residents within the petition boundary must approve installation



Permanent Traffic Circle

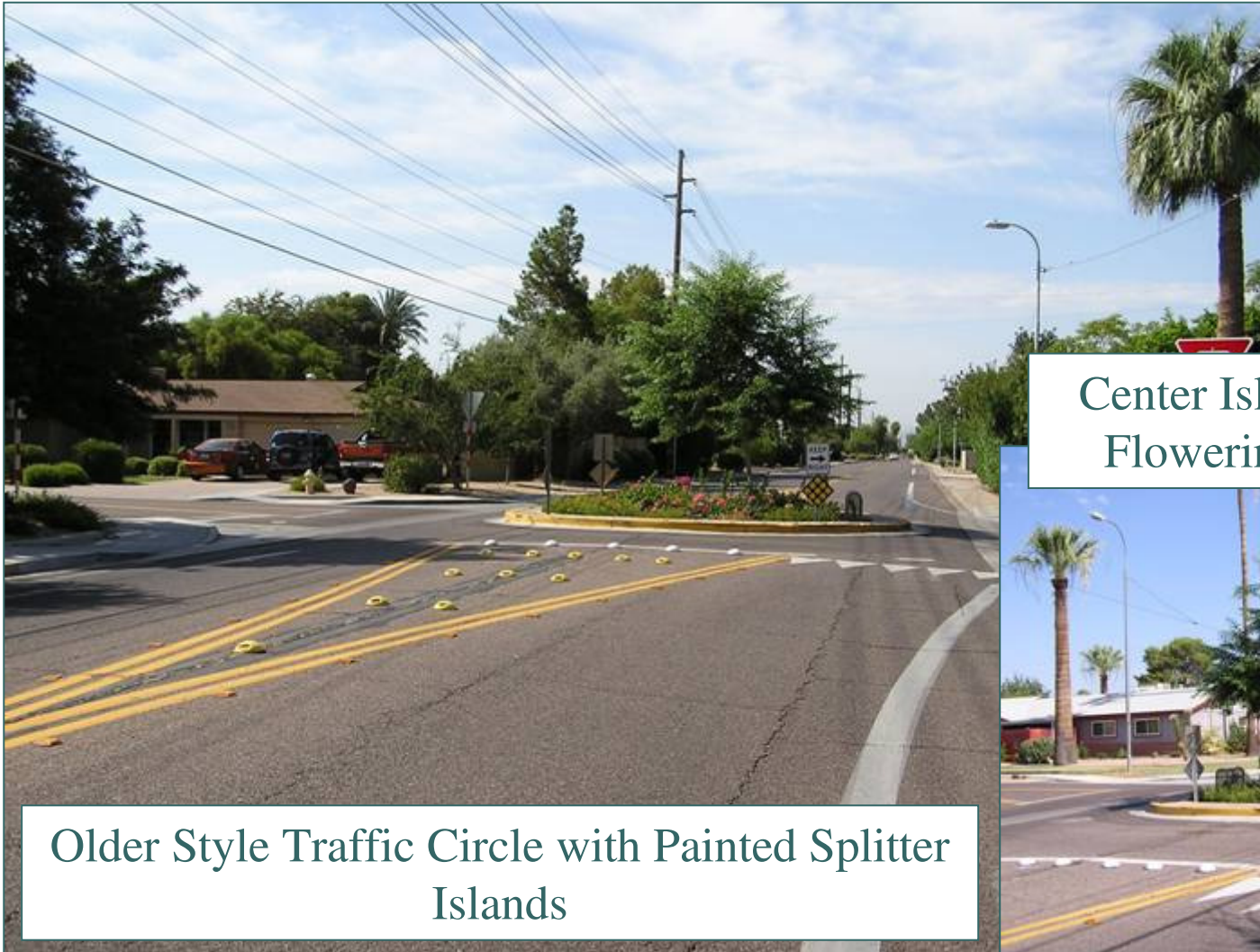
If permanent traffic circles are approved, what will they look like?

- Each design is unique to the intersection and neighborhood but the city ensures that all permanent circles are:
 - Safe
 - Effective at slowing traffic and
 - Attractive



Permanent Traffic Circles

Location – 15th Ave and Townley Ave



Older Style Traffic Circle with Painted Splitter Islands



Center Island with Tree and Flowering Ground Cover



Permanent Traffic Circles

Location – Oak St and 12th St



Island with Young Tree and Flowering Ground Cover

Older Style Traffic Circle with Raised Splitter Island



Permanent Traffic Circles

Location – Virginia Ave and 8th Street



Older Style Traffic Circle with Contextual Landscaping



Mesquite Trees and Desert Grass



Permanent Traffic Circles

Location – Stanford Dr and 43rd St



Older Style Traffic Circle with Desert Landscaping

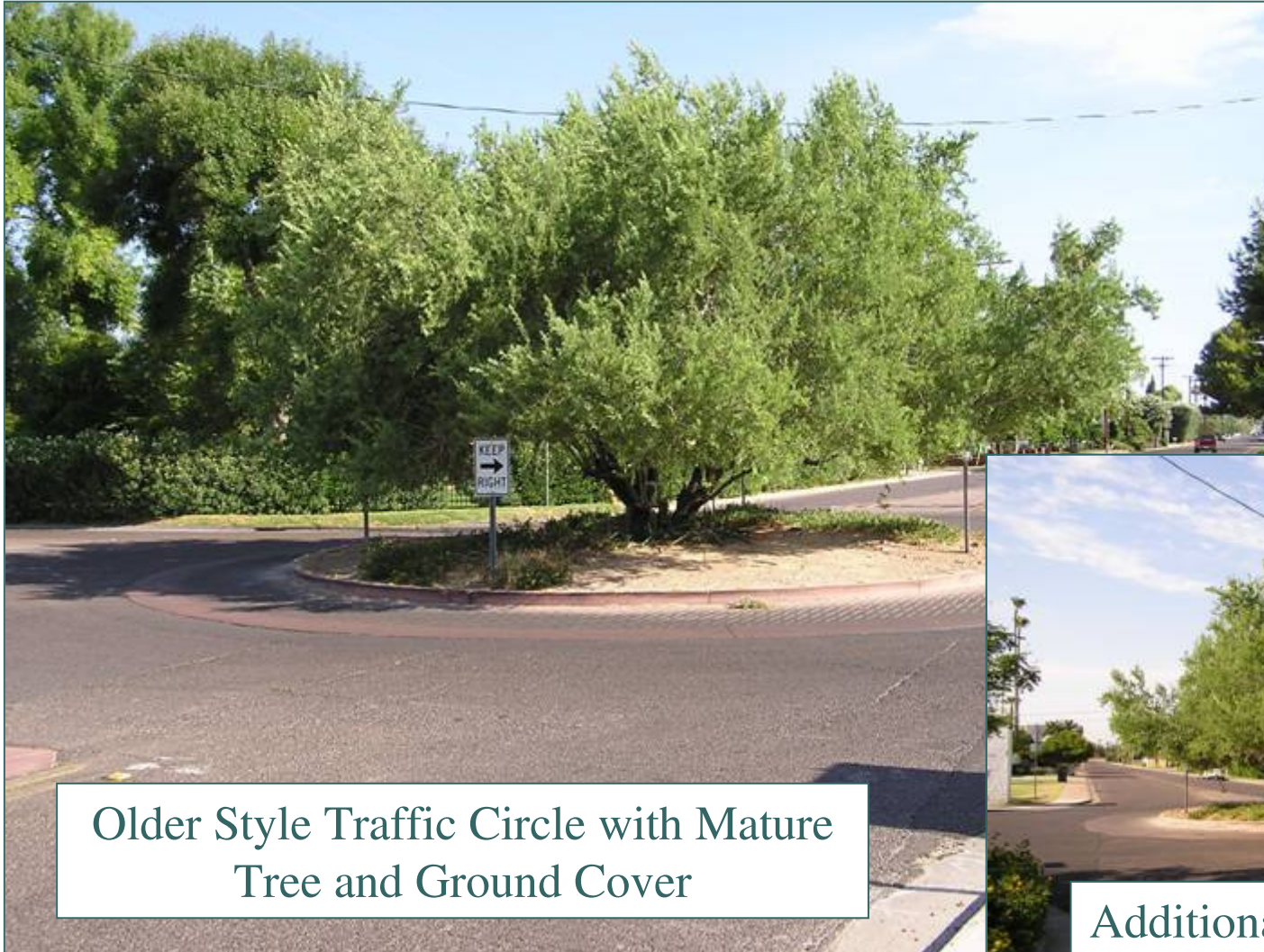


Splitter Island with Pedestrian Facilities

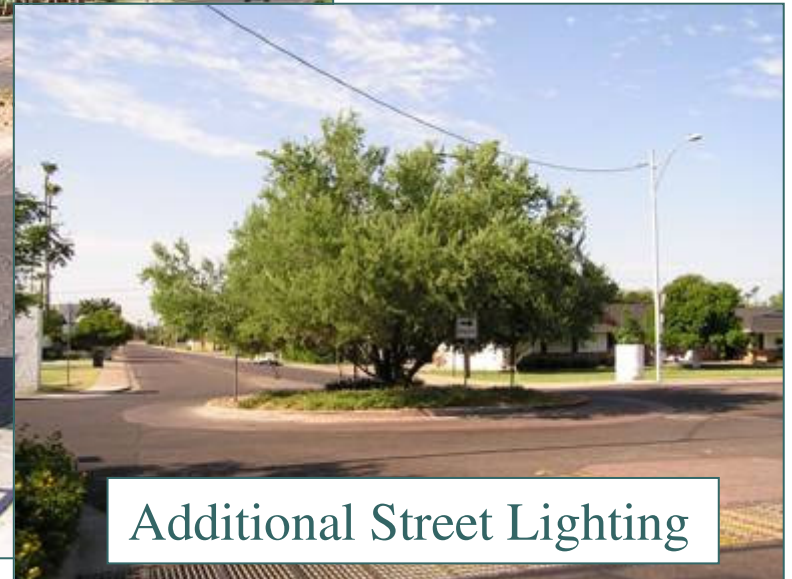


Permanent Traffic Circles

Location – Lafayette Blvd and Invergordon Rd



Older Style Traffic Circle with Mature Tree and Ground Cover



Additional Street Lighting



Permanent Traffic Circles

Location – Central Ave and Mountain View Rd



Older Style Traffic Circle with Large, Well Landscaped Splitter Island



Pedestrian Pass-through



Permanent Traffic Circles

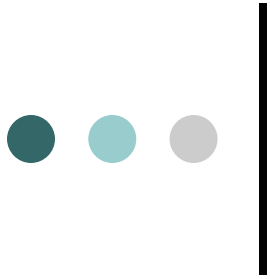
Location – 15th Ave and El Caminito Dr



Modern Style Traffic Circle with Raised Truck Apron and Mature Landscaping



Bicycle Bi-pass Ramp



Questions

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