



# Traffic Mitigation

Presentation to CTOC – January 6, 2022

By: Tony S. Abbo, P.E., PTOE  
City Traffic Engineer





# Traffic Mitigation - Overview

---

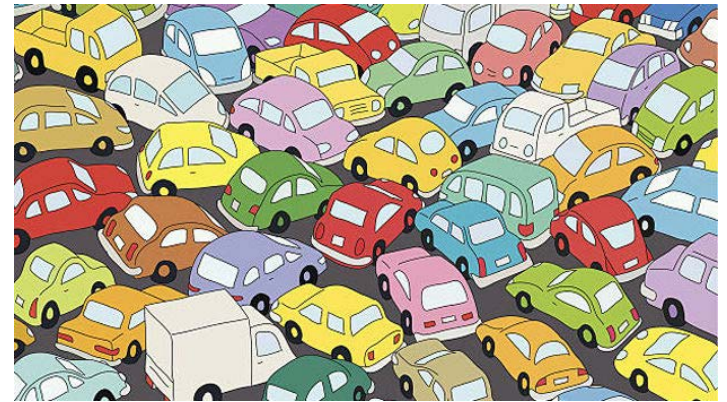
- Staffing:
  - One Engineer (PE)
  - Two field staff that report to the Engineer





# Our Goal

- To create a safe roadway for all modes of Travel
  - Vehicular
  - Pedestrian
  - Bike
  - Equestrian
- Move people and goods efficiently and safely through our roadway network





# Traffic Mitigation - Overview

- Functions

- Signing and striping request

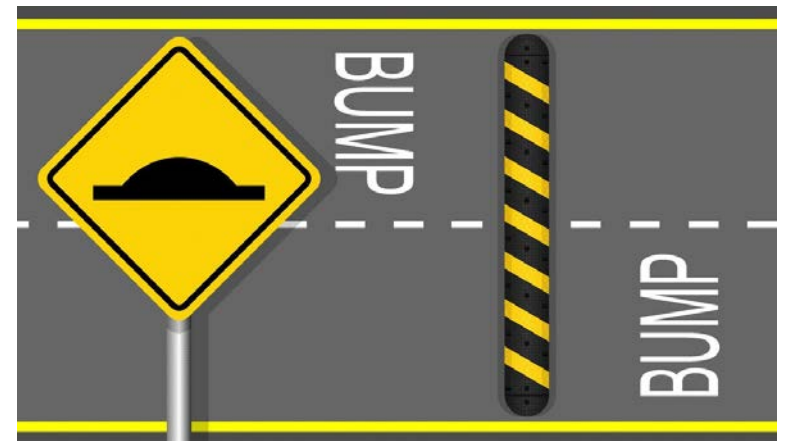
- GlendaleOne – Phone Calls – E-mails  
Walk in request

- Traffic Studies

- Speed Cushions

- School Zones

- School Traffic Circulation





# Traffic Mitigation - Overview

---

- Traffic Safety – All Modes
  - Vehicular
  - Pedestrian
  - Bike
- Crash data collection/roadway safety analysis
- Traffic Count Program
- New signal/signal timing requests



# Signing & Pavement Markings

- Traffic Staff receive numerous requests for:
  - New Signing
  - New pavement markings
  - Repair of signing
    - Damaged by crash
    - Vandalized (Graffiti)
    - Non reflective
  - Staff prepares a work order
  - Work done by Signing and pavement marking crew





# Traffic Studies

---

- Signal Warrant Studies
- Speed Studies
- Pedestrian Hybrid Beacon (HAWK) Studies
- Crash Cushion Warrant Studies
- No Parking Studies
- Left turn Warrant Studies
- Other



# Speed Cushion

- Requirements that need to be met
  - Residential Street
  - Minor collector only if homes front the road
  - 85% speed 7 MPH over the posted speed limit
  - No less than 500 Vehicles per Day (VPD) and no more than 3,000 VPD on the road





# Speed Cushion

- Petition process
  - Identify effected homeowners
  - 70% of affected homeowners have to agree
  - 100% of the people adjacent to the speed Cushion have to agree





# Sample Letter

December 27, 2021

Raul Manzolo  
4858 W Shangri-La Rd.  
Glendale, AZ 85305

RE: Speed cushions, Missouri Ave., 85<sup>th</sup> Ave to 87<sup>th</sup> Ave.

Dear Mr. Manzolo

Thank you again for contacting the City of Glendale regarding your interest to install Speed Cushions and/or Speed "Feedback" Signs. The first step needed to determine the roads eligibility for speed cushion installation is a speed study. The speed has been conducted on your road and it has been determined that the road is a candidate for speed cushion installation.

Below is the main criteria that needs to be met in order to qualify for speed cushions with both factors needing to pass:

1. 500 vehicles or more per day traveling on your street: 1842 ADT – requirement met
2. A minimum 85<sup>th</sup> percentile speed of 7 mph above the posted speed limit: 34.21 MPH – requirement met

The second step in the process is a petition. I have enclosed the petition spreadsheet with this letter and the process for the installation of speed cushions (or speed feedback signs), including an aerial of the preliminary speed cushion and sign locations (red rectangles) for your neighborhood and the homes of signatures to be collected. On the petition form there are (17) highlighted addresses whose 100% compliance needs to be in favor of installation of the speed cushion and signs due to the locations effecting their property.

Please review the speed cushion layout attachment (aerial) carefully. Using design guidelines as maintaining 50+ feet distance from fire hydrants and avoiding driveways, some homeowners/renters may not be happy with the locations. So please consider this before you start circulating the petition. Accompanying the speed cushions will be signs (yellow diamonds) near the speed cushions if the street qualifies.

I suggest that you start with the homeowners/renters abutting the speed cushions and/or signs (17 homes), as the speed cushions and/or signs will be installed near their homes. These addresses are highlighted on the petition and their compliance will be indicated by their signature. Remember that their full compliance is required. The petition is to show that your neighbors are in support of having speed cushions installed at the designed locations. The standard qualification process will require 70% of the residents be in favor of the installation of speed cushions. According to the required 70% and the number of affected homes being 45, 32 homes constitute the required 70%. If you fall short of the 70%, the street will not qualify, and you can try again in approximately two years, if you so choose. In some cases, adjustments can be made to the location of cushions and/or signs.

If you wish in the interim, you may submit a request for Speed Enforcement through the GlendaleOne app or at [www.glendaleone.com](http://www.glendaleone.com), under new service request. This request will go directly to the Glendale Police Department for monitoring and enforcement and may help with calming traffic in the meantime.

5850 W. Glendale Ave. 623-930-2000  
Glendale, AZ 85301

The completed petition form is due back no later than **February 22, 2022**. If you wish, you may have a neighbor assist you in collecting signatures.

If we missed an address on the petition or a home that just became vacant, feel free to add address or comment on the sheet. If you have any questions at all about the process or this petition, please feel free to contact me at 623-930-2644.

Regards,



Justin Smith  
Traffic Engineering Technician  
Transportation Department

jsmith2@glendaleaz.com  
P 623.930.2644 | C 623.692.4892  
6210 W. Myrtle Ave., Ste. 112  
Glendale, AZ 85301

We improve the lives of the people we serve every day.  
Community • Integrity • Excellence • Innovation • Learning



# Sample Petition

**PETITION TO THE CITY OF GLENDALE, TRANSPORTATION DEPARTMENT**

We, the specified undersigned residents in area of 49th Ave., Peoria Ave. to Cheryl St., by our signatures request the City of Glendale to conduct a Neighborhood Traffic Study (NTS) to determine if Traffic Mitigation Devices (speed feedback signs or cushions) are warranted along 49th Ave., Peoria Ave. to Cheryl St. The City will need 70% of signatures in favor to proceed with the installation, as the signs would be located in front of their property(s). If you fall short of the 70%, the streets will not qualify, you can try again if you choose, in approximately two years. **Residents are required to fill out information below. One signature per house hold. If not readable, vote will not count. These numbers must be easy to read.**

	Address	Signature	Print Name	Phone	Yes	No
1	4838 W SHAWNEE-LA RD		Raul Morales	623.329.0770		
2	11219 N 49TH DR					
3	11225 N 49TH DR					
4	4903 W SHAWNEE-LA RD					
5	4902 W MISCAL ST					
6	4901 W MISCAL ST					
7	4904 W DESERT COVE AVE					
8	4903 W DESERT COVE AVE					
9	4902 W MERCER LN					
10	4901 W MERCER LN					
11	4904 W CHRISTY DR					
12	10650 N 49TH AVE					
13	10654 N 49TH AVE					
14	10638 N 49TH AVE					
15	10632 N 49TH AVE					
16	10626 N 49TH AVE					
17	10622 N 49TH AVE					
18	10614 N 49TH AVE					
19	10608 N 49TH AVE					
20	10602 N 49TH AVE					
21	10611 N 49TH AVE					
22	10617 N 49TH AVE					





# School Zones

---

- Establishing School Zones
- Enhancing striping and/or pavement markings within School Zone
  - Upgrade the signing and striping
  - Install High visibility crosswalks
- Address congestion around school zones



# School Zones

---

- Traffic Circulation

- Work with school resource officers

- Recent example was had staff working with the Legacy Charter School and Glendale PD relating to ingress and egress issues onto 67<sup>th</sup> Avenue and Thunderbird Road



# School Zones

- Speed feedback signs
- Recent installs include
  - Ironwood HS
  - Cactus HS
  - Legacy Charter



SCHOOL ZONE INSTALLATIONS			
Schools	Rank	Notes	Expected Completion year
Independence HS	1	Done	2/1/2020
Arrowhead Elementary	1	Update to bring to current standard - missing radar speed sign on Union Hills.	7/1/2022
Apollo High	1	Update to bring to current standard - missing radar speed sign - Designed -	3/1/2022
Mountain Ridge HS	2	Done	2/1/2020
Legacy Traditional School	2	Done	10/1/2021
Deer Valley HS	4	51st Avenue is Phoenix roadway. Need to coordinate with the City of Phoenix.	12/31/2023
Ironwood HS	5	Done	Done
Cactus HS	5	Done	Done
Copper Canyon HS	5	Not designed	7/1/2022
Glendale HS	9	Not designed	Planned for November of 2022
Coyote Ridge Elementary School	11	Not designed	7/1/2024
Kellis HS	12	Not designed - 91st Avenue is MCDOT roadway	
Luke Elementary	13	Not designed -Speed can only be reduced to 35 MPH.	



# Request for No parking

---

- City receives numerous request for to establish “No Parking” zones
- There is a petition process
  - Less than 10 houses 100% approval
  - More than 10 houses, 70% Approval
- Numerous request around schools
- Enforcement is a concern





# Traffic Safety

---

- Investigate high crash locations
- Work with MAG to obtain funding
- Work with Glendale PD to implement low-cost improvements that can help mitigate safety issues
- Work with neighboring cities
- Road Safety Assessments (RSA)





# Pedestrian Safety

- Rectangular Rapid Flashing Beacon (RRFB)
  - Install on Glendale Ave
- One more location planned on Glendale Ave





# Pedestrian Safety

---

- Buffered Bike lanes
- Green pavement markings





# Traffic Count Program

---

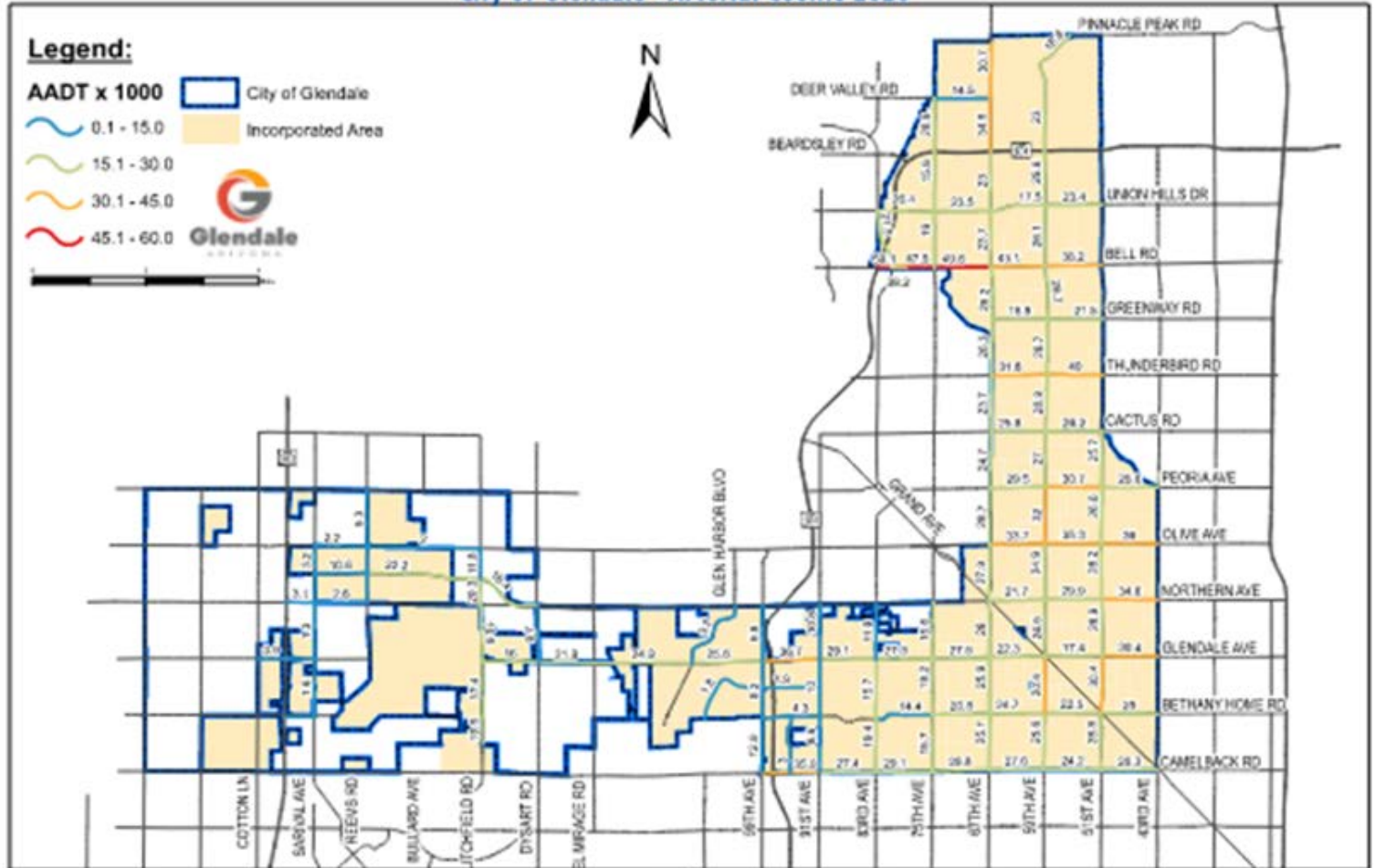
- Every arterial is counted every even year
- Major collectors are counted every odd year





# Traffic Count Program

City of Glendale - Arterial Counts 2020





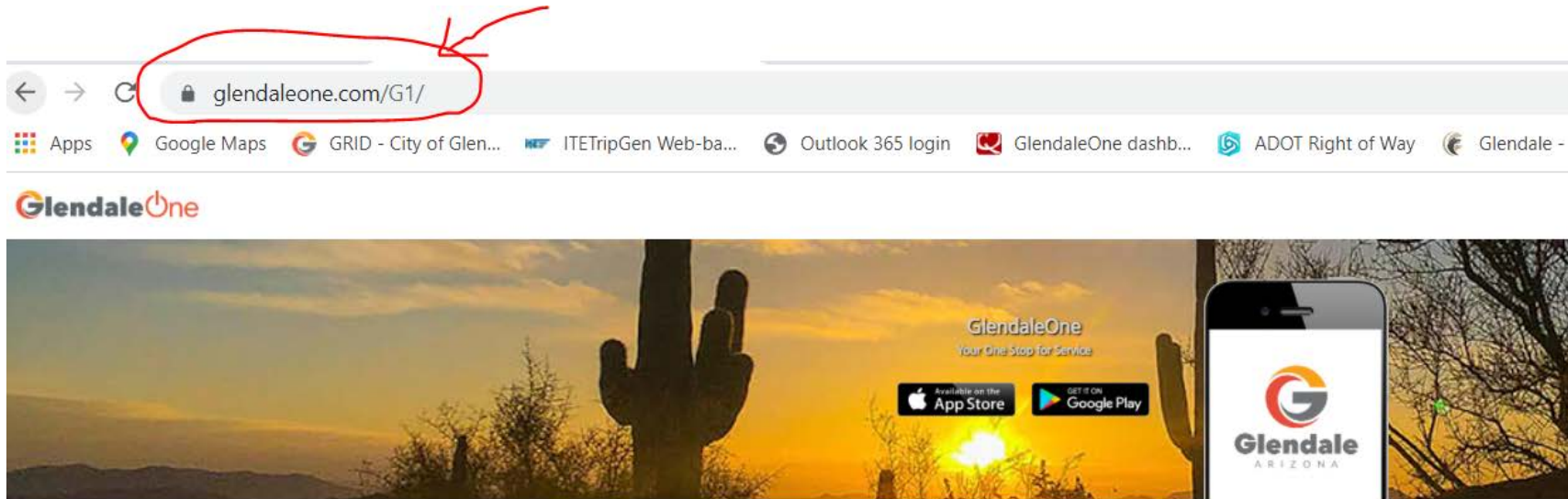
# How Can We report a Problem?

---

- Easiest way to report an issue is through GlendaleOne
  - Online
  - There is also a Phone App
  - This is the best way to do so as every Ticket is tracked through the system
- Contact us Via E-mail
- Contact by Phone



# How Can a Problem Be Reported?



Welcome to GlendaleOne - Your One Stop for Service

For information regarding the city's response to the Coronavirus (COVID-19) pandemic, please visit [www.glendaleaz.com/coronavirus](http://www.glendaleaz.com/coronavirus)

GlendaleOne provides access to non-emergency services and information 24/7; and, includes a knowledge base of frequently asked questions and important phone numbers. To report an issue or concern, enter the location, type of issue, and contact information to have your request automatically sent to the correct department. For a quick tutorial on how to use GlendaleOne, [click here](#).

\* Always call 9-1-1 in the event of an emergency.  
[++ Public Record Requests](#)



Knowledge Base (FAQ)



Service Request



Contact



# Tony Abbo's Contact Info

---



**Tony S. Abbo, P.E., PTOE**  
City Traffic Engineer  
Transportation Department

tabbo@glendaleaz.com  
P 623.930.2951 | C 623.693.1202  
6210 West Myrtle Avenue, Suite 112  
Glendale, AZ 85301

**We improve the lives of the people we serve every day.**  
Community • Integrity • Excellence • Innovation • Learning



# Questions

