



19 May 2022

Ms. Joseline Castaneda
Planner
City of Glendale
5850 West Glendale Avenue
Glendale, Arizona 85301

Approved

By Alan Heathcoat 05/25/2022 8:24:26 AM

**SUBJECT: GLENDALE 75 CIRCLE K
75TH AVENUE/GLENDALE AVENUE
TRAFFIC IMPACT STATEMENT SUMMARY**

Hello Ms. Castaneda:

Please find attached a brief summary of the approved *Glendale 75 Circle K Traffic Impact Statement* (TIS) dated 2 September 2021 and completed by Southwest Traffic Engineering, LLC (SWTE). Circle K has proposed a new project located on the southeast corner of 75th Avenue/Glendale Avenue in Glendale, Arizona. The project will consist of a new 14 fueling station gas station with a convenience store that will replace an existing 12 fueling station gas station with a convenience store.

Access

Four driveways currently serve the existing Circle K on the southeast corner of 75th Avenue/Glendale Avenue. Two of these driveways will be relocated to serve the new Circle K and the adjacent proposed shopping center, while the two remaining driveways will be removed. The adjacent shopping center will also be served by two additional driveways that will be accessible from the project site.

The two driveways closest to the intersection of 75th Avenue/Glendale Avenue will both be right in/right out only while the remaining two driveways will provide full access to the site.

Traffic Volumes

Daily traffic volumes were not required by the City of Glendale to be taken for the analysis set forth in the TIS. Weekday AM/PM turning movement counts can be found in the TIS. As noted, the project will be replacing an existing 12 fueling station gas station with convenience store. **Table 1** compares the trip generation for the proposed convenience store/gas station to the existing convenience store/gas station.

Table 1 – Estimated Site Trip Generation Difference

Time Period	14 Fueling Station Super Convenience Market/Gas Station (LUC 960)	12 Fueling Station Super Convenience Market/Gas Station (LUC 960)	Difference
Average Daily, Inbound (vtpd)	1,614	1,383	231
Average Daily, Outbound (vtpd)	1,614	1,383	231
Total Weekday Daily	3,228	2,766	462
AM Peak Hour, Inbound (vtph)	197	169	28
AM Peak Hour, Outbound (vtph)	197	169	28
Total AM Peak	394	338	56
PM Peak Hour, Inbound (vtph)	161	138	23
PM Peak Hour, Outbound (vtph)	161	138	23
Total PM Peak	322	276	46

vtpd - vehicle trips per day, vtph - vehicle trips per hour

Recommendations

The warranted eastbound right turn lane at West Glendale Access should be constructed and maximized to fit within the available geometry.

The improvements to the project access points (i.e. removal and relocation) are expected to reduce the overall impact of the project site on the surrounding roadway system. Currently, there are four driveways to the site that are closely spaced and located adjacent to the intersection of 75th Avenue/Glendale Avenue. Closely spaced driveways and driveways located near signalized intersections like 75th Avenue/Glendale Avenue are not ideal and can increase the potential for vehicle conflicts. The removal of two of the existing access points to the project site and the relocation of the two remaining driveways away from 75th Avenue/Glendale Avenue is expected to reduce the number of potential conflicts points, and improve traffic operations, in the area, and clarify the intentions of turning vehicles into and out of the site.

If you have any further questions, feel free to contact me at 602.266.SWTE (7983).

Respectfully Submitted,

Andrew Smigielski, PE, PTOE, PTP
 Southwest Traffic Engineering, LLC
 Principal of the Firm



cc: Jill Kaiser, Land Development Consultants (by email)