

## 5.2. Traffic Signal Timing Plans

Traffic signal timing plans were provided by the City for signalized intersections within the Study Area. The traffic signal timing plans can be found in **Appendix C**. The plans were used to perform the existing conditions analysis.

## 5.3. Existing Traffic Volumes

Existing turning movement count data were collected at 13 Study Area locations on November 27, 2018, with count data for Camelback Road collected on November 29, 2018. Count locations are shown in **Figure 8**. Counts were collected for 6 hours: from 6:30 AM to 8:30 AM, from 11 AM to 1 PM and from 4 PM to 6 PM. The northbound through movements in the PM peak hour are greater than the southbound through movements in the AM peak hour. The 2018 peak hour turning movement counts collected for the Study Area are shown on **Figure 9**. As mentioned in **Section 5.1**, left turns are prohibited at signalized intersections during the peak periods. However, left turn movements were observed at these locations. These left turn maneuvers reduce the intersection capacity in the peak hours. More detailed traffic count data is included in **Appendix E**.

The turning movement counts were used to derive 24-hour traffic volumes along the corridor. **Figure 10** shows the existing annual average daily traffic (AADT) for the Study Area corridor.

Existing daily traffic volumes along 7th Avenue within Study Area extents along the corridor; AADT ranges between approximately 35,000 and 62,000 vehicles per day. The highest AADT is near the middle of the corridor at Indian School Road. The AADT increases south to north between McDowell Road and Indian School Road, then the AADT decreases from south to north between Indian School Road and Northern Avenue. The AADT is directionally skewed towards northbound.

Figure 8 – 7th Avenue Turning Movement Count Locations



Service Layer Credits: Maricopa County Assessor's Office

Figure 9 – 7th Avenue Existing Turning Movement Counts

**Turning Movement Counts  
Existing 2018**

**Legend**  
 XX AM  
 (XX) PM  
 ○ Prohibited Movement

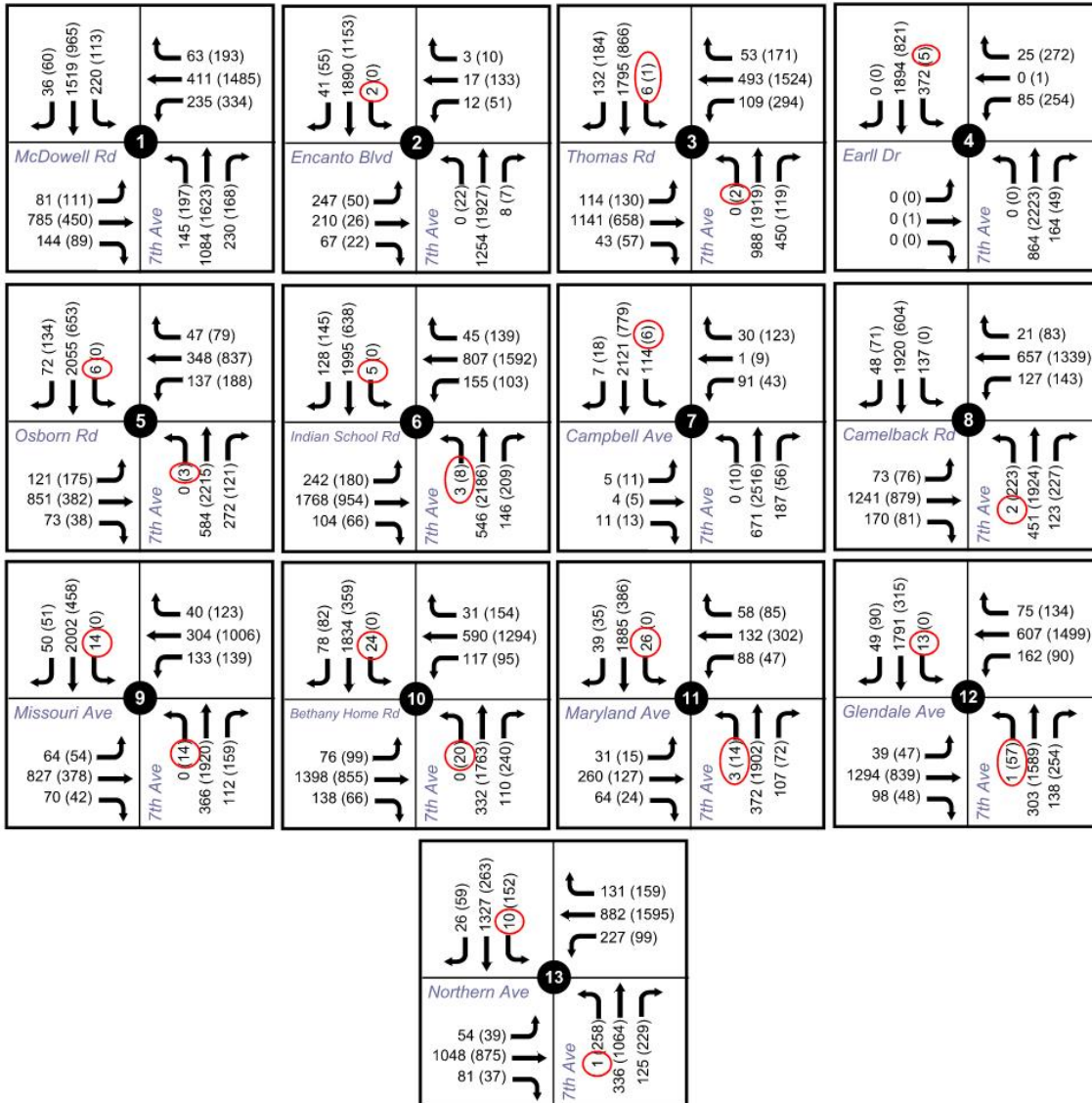


Figure 10 – 7th Avenue Existing Traffic Volumes

