

39th and Reno Road Circulation Study

The District Department of Transportation (DDOT) collected data to assess the impacts of modifications that were implemented at the intersection of 39th and Reno Road in June 2017. DDOT was specifically interested in assessing the impacts of the modifications on travel patterns (diversion of vehicle trips resulting from the one-way northbound conversion of 39th Street between Reno Road and Jennifer Street), speed and crashes.

The data collection effort consisted of:

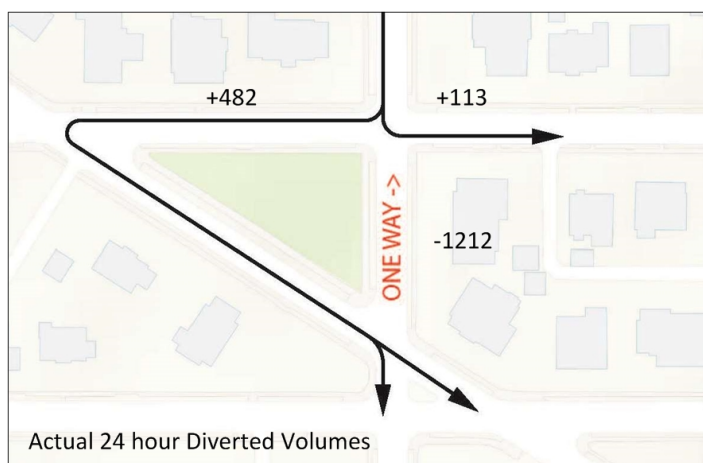
- 24 hour traffic volume counts and traffic speed data along roadway segments for a period of 48-72 hours.
- Video data collection at key intersections to assess turning movements. The video data collection at intersections collected turning movements on all intersection approaches from 7:00 AM-10:00 AM and 4:00 PM-7:00 PM for one day.
- DC traffic crash database

This data collection effort enabled DDOT to determine how travel patterns have shifted around the northbound conversion of 39th Street. The following figure details the shift in these travel patterns.



What does the data tell us?

The conversion of 39th Street between Reno Road and Jenifer Street has resulted in a circulation shift around the northbound section as expected. As seen in the data, southbound 39th Street through motorists at Jenifer Street are now largely making a right turn and then a left turn onto Reno Road. A smaller portion of these southbound 39th Street through motorists at Jenifer Street are now making a left turn and accessing Reno Road via 38th Street. In May 2017, prior to the conversion of 39th Street, DDOT shared some projections with the community of how circulation patterns may shift as a result of the conversion. The actual shift in circulation patterns is less than DDOT estimated suggesting that motorists are bypassing the study area. . The figure below details the actual circulation shift in an averaged 24 hour period.



In addition, DDOT has been monitoring crashes within the study area following the 39th Street conversion. There has been a single, non-injury, police-reported crash since the conversion in June 2017. While it is too soon to attribute safety improvements to the conversion, this marks a break from the previous trend of five police-reported crashes with four injuries from March 2017 to June 2017. DDOT will continue monitor the crashes within the study area and is hopeful that a downward trend will be established over time.

Generally, the speed data indicates that traffic speeds remained consistent to speeds recorded prior to the conversion, with the exception of northbound 39th Street between Reno Road and Jenifer Street. This section reported an increase of four miles per hour to 23 miles per hour.

Volume data

Turning Movement Count Site	March (AM/PM)	September (AM/PM)	Change in Trips	Percent Change
Reno Rd and Jocelyn St	381/493	512/558	131/65	34%/13%
39 th and Jocelyn Sts	180/141	185/190	5/49	3%/35%
Reno Rd and Jenifer St	416/550	573/644	157/94	38%/17%
39 th and Jenifer Sts	219/184	203/209	-16/25	-7%/14%
38 th and Jenifer Sts	144/126	186/162	42/36	29%/29%
Reno Rd and 39 th St	510/633	635/730	125/97	25%/15%
39 th and Ingomar Sts	109/86	86/86	-23/0	-21%/0%

24 Hour Count Site	March (ADT ¹)	September (ADT ¹)	Change in Trips	Percent Change
Reno Rd, between Jocelyn and Jenifer Sts	6,260	6,346	86	1%
Reno Rd, between Ingomar and Huntington Sts	7,846	7,196	-650	-8%
Jenifer St, west of Reno Rd ²	-	823	-	-
Jenifer St, between Reno Rd and 39 th St	434	916 ³	482	111%
Jenifer St, between 39 th and 38 th Sts	458	571	113	25%
39 th St, between Jenifer St and Reno Rd	1,858	646	-1212	-65%

¹ Average Daily Traffic (ADT)

² Site added after before study

³ Site collected 11/1-11/3 and may reflect further circulation modification

Speed data

24 Hour Count Site	March (MPH ¹)	September (MPH ¹)	Change in Speed
Reno Rd, between Jocelyn and Jenifer Sts	30	30	0
Reno Rd, between Ingomar and Huntington Sts	32	33	1
Jenifer St, west of Reno Rd ²	-	26	-
Jenifer St, between Reno Rd and 39 th St	21	19	-2
Jenifer St, between 39 th and 38 th Sts	25	23	-2
39 th St, between Jenifer St and Reno Rd	19 ³	23	4

¹ 85th Percentile speed

² Site added after before study

³ Northbound data only

Crash data

Date	Time	Location	Type	Severity
3/31/2017	10:12 AM	39 th St and Reno Rd	Angle	Property Damage Only
4/24/2017	11:30 AM	39 th St and Reno Rd	Angle	3 Possible Injuries
6/1/2017	5:58 PM	39 th St and Reno Rd	Angle	Property Damage Only
6/2/2017	5:19 PM	39 th St and Reno Rd	Angle	1 Possible Injury
6/5/2017	11:56 AM	39 th and Ingomar Sts ¹	Fixed object	Property Damage Only
6/27/2017	3:10 PM	39 th St and Reno Rd	Angle	Property Damage Only

¹ Report indicates that crash was at 39th St and Reno Rd