

MEMORANDUM

To: Village President & Board of Trustees
c/o Gregory Jackson, Village Manager
Village of Long Grove

Fr: Geoffrey L. Perry, P.E., Village Engineer

Date: May 24, 2022

Re: Checker Road Traffic Calming
Beta Testing Sequencing Memorandum
Village of Long Grove

To continue the discussion of traffic calming on Checker Road, below is a suggested timeline for beta testing of various traffic calming devices:

1. Complete 24-Hour Traffic Counts prior to installation of any traffic control measures to establish a baseline for Average Daily Traffic Volume, peak Travel Times and Vehicle Speed. Counts will be done with three (3) sets of tube counters. Cost = \$2,400
2. Partner with the Village of Kildeer for their two Electronic Speed Display signs to be installed on Checker Road for two weeks. We recommend one be installed in each direction on Checker Road approximately 1,300' east of the intersection of Checker Road and Schaeffer Road (Location #2). The Electronic Speed Display signs capture vehicle speed readings that can be analyzed for the effectiveness of the traffic calming device. Cost = \$0
3. Complete 24-Hour Traffic Counts two weeks after removal of Electronic Speed Signs. Cost = \$750
4. Wait two weeks. Purchase (if needed) and install water-filled jersey barriers in the form of a traffic choker on Checker Road, approximately 1,300' east of the intersection at Checker Road and Schaeffer Road (Location #2) for two weeks. Elia Township can assist in the installation. Cost = \$1,500
5. Optional: Complete 24-Hour Traffic Counts during beta test of Temporary Choker. Cost = \$750
6. Complete 24-Hour Traffic Counts two weeks after removal of Temporary Choker. Cost = \$750
7. Wait two weeks. Purchase two temporary speed tables to be installed at Checker Road approximately 1,300' east of the intersection of Checker Road and Schaeffer Road (Location #2) and on Checker Road approximately 700' east of the intersection at Checker Road and Schaeffer Road (Location #3). Cost \$10,000
8. Optional: Complete 24-Hour Traffic Counts during beta test of Temporary Speed Tables. Cost = \$750
9. Complete 24-Hour Traffic Counts two weeks after removal of Temporary Speed Tables. Cost = \$750

Notes:

1. All traffic counts will be completed with three (3) sets of tubes. Tubes will remain in place throughout the entire testing period to avoid additional expense of removing and reinstalling for each traffic count.
2. The effectiveness of the traffic calming device, when in place, can also be obtained via driving through the corridor during known peak travel times and documenting findings. Feedback regarding the traffic calming devices should also be expected in the form of phone calls, emails, or other communications. Thus, the traffic counting when the various devices are in place is listed as optional above.
3. The traffic counts two weeks after each traffic calming device is removed are included as these counts will assist in determining if a traffic calming device has a longer lasting impact on driver behavior.