

**Memorandum
Public Works Department**



To: City Manager
Subject: Stop Signs
Date: May 2, 2017
Number: 2017-049

SOURCE OF REQUEST:

Katie York
4101 26th Avenue
Rock Island, IL 61201

NATURE OF REQUEST:

The Traffic Engineering Committee received a request from Katie York to replace the yield signs with stop signs at the intersection of 40th Street and 26th Avenues.

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WARRANTS:

The excerpts from the Manual of Uniform Traffic Control Devices (MUTCD) are attached.

CONTACTS WITH RESIDENTS:

None

TRAFFIC STUDY INFORMATION:

The current intersection has yield signs on the 40th Street approaches.

The installation of stop signs is not warranted.

COST:

The cost to the city is minimal.

RECOMMENDATION:

The Traffic Engineering Committee recommends that the City Council deny the request.

Submitted by: Larry Cook, Interim Public Works Director
Traffic Engineering Committee

Approved by: Randall D. Tweet, Interim City Manager

Memorandum

Public Works Department



To: Traffic Engineering Committee
Subject: Request for STOP signs at 40th Street and 26th Avenue
Date: May 1, 2017
TEC No: 17-05

The Engineering Division evaluated a request about replacing the YIELD signs with STOP signs at the intersection of 40th Street and 26th Avenues. Current this intersection has YIELD signs on the 40th Street approaches. Traffic at the above intersections was counted on April 11, 2017. According to the latest Manual of Uniform Traffic Control and Devices (MUTCD), STOP signs can be warranted at an intersection if one of the following warrants is met:

Intersection of a less important road where application of the normal right-of-way rule would not be expected to provide reasonable compliance with the law: The traffic study indicated the following volumes at these intersections:

-) 40th Street's north approach carried 35 AADT and the south approach 147 AADT;
-) 26th Avenue's west approach carried 129 AADT and it's east approach 415 AADT.

The intersection was observed to meet the application of the normal right-of-way rule with reasonable compliance with the law in accordance with their current traffic control signage. Therefore this warrant was not met.

Street entering a through highway or street (arterial): 40th Street and 26th Avenue are classified as local streets. *Therefore this warrant was not met.*

Unsignalized intersection in a signalized area: In accordance with MUTCD criteria, there are no signalized intersections in this area. *Therefore this warrant was not met.*

Minimum vehicular volumes: To satisfy the traffic warrant, the vehicular volume entering the intersections from the major street (26th Avenue) approaches (total of both approaches) should average at least 300 vehicles/hour for any 8 hours of an average day. The study indicated that the major street averaged less than 23 vehicles per hour for the busiest 8 hours of an average day. *Therefore this warrant was not met.*

Restricted view or crash records indicate a need for control by the STOP sign: There are no obstructions that would restrict a motorist's vision at these intersections. To satisfy the accident experience warrant, at least 5 or more reported crashes in a 12-month period that is susceptible to correction by a STOP sign installation at each intersection. Accident reports filed with the City of Rock Island Police Department indicate that there were no (0) reported accidents at these intersections in the past 3 years that may have been avoided with the installation of STOP Signs. *Therefore this warrant was not met.*

Summary: *The traffic study performed on the date referenced above indicated that the intersection of 40th Street and 26th Avenue did not meet any of the above warrants or conditions for the installation of two-way or four-way STOP signs.*

Submitted by: Michael J. Kane, P.E., City Engineer

STOP

Regulatory Signs

2B-5 Warrants for Stop Sign

Because the STOP sign causes a substantial inconvenience to motorists, it should be used only where warranted. A STOP sign may be warranted at an intersection where one or more of the following conditions exist:

1. Intersection of a less important road with a main road where application of the normal right-of-way rule is unduly hazardous.
2. Street entering a through highway or street.
3. Unsignalized intersection in a signalized area.
4. Other intersections where a combination of high speed, restricted view, and serious accident record indicates a need for control by the STOP sign.

Prior to the application of these warrants, consideration should be given to less restrictive measures, such as the YIELD sign (2B-7) where a full stop is not necessary at all times. Periodic reviews of existing installations may be desirable to determine whether, because of changed conditions the use of less restrictive control or no control could accommodate traffic demands safely and more effectively.

STOP signs should never be used on the through roadways of expressways. Properly designed expressway interchanges provide for the continuous flow of traffic, making STOP signs unnecessary even on the entering roadways. Where at-grade intersections are temporarily justified for local traffic in sparsely populated areas, STOP signs should be used on the entering roadways to protect the through traffic. STOP signs may also be required at the end of diverging roadways at the intersection with other highways not designed as expressways. In most of these cases, the speeds will not warrant any great increase in the sign sizes.

STOP signs shall not be erected at intersections where traffic control signals are operating. The conflicting commands of two types of control devices are confusing. If traffic is required to stop when the operation of the stop-and-go signals is not warranted, the signals should be put on flashing operation with the red flashing light facing the traffic that must stop.

Where two main highways intersect, the STOP sign or signs should normally be posted on the minor street to stop the lesser flow of traffic. Traffic engineering studies, however, may justify a decision to install a STOP sign or signs on the major street, as at a three-way intersection where safety considerations may justify stopping the greater flow of traffic to permit a left-turning movement.

STOP signs may be used at selected railroad-highway grade crossings only after their need has been determined by a detailed traffic engineering study. Use of the STOP

sign at railroad-highway grade crossings is described in section 8B-9.

Portable or part-time STOP signs shall not be used except for emergency purposes. Also, STOP signs should not be used for speed control.





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If you would like to report a crime or drug activity please use the [Police Report a Complaint](#) or if you would like to report graffiti/trash/weeds/vacant properties please use the [Inspections Report a Problem](#) .

For all other service requests please submit your information below. Please remember online submissions will take time to process and are forwarded to the appropriate department for follow-up.

Request Information

Request Type:* Follow Up By:*

Request:*

Contact Information (Optional)

Name:	Katie York	Address:	4101 26th Avenue	
Phone:	563-529-0684	City:	Rock Island	
Email:	Nick.and.Mii@gmail.com	State:	IL	Zip: 61201

* indicates required fields.

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The following form was submitted via your website: Service Request

Request Type:: Streets & Sidewalks

Follow Up By:: Letter

Request:: We would like to see about a stop sign being put in on the corner of 40th Street and 26th Avenue. There is a Yield sign there now. In the past 5 years they have been quite a few families with small children that have moved in into the neighborhood. Cars seem to just fly down 26th Avenue and they also fly right through the yield sign. These people have no respect for the kids that are out playing along side walks or riding bikes, And they make it very hard to us parents to let our kids ride bikes with how fast these cars go. We all try to make sure our children stay on sidewalks but with friends living across the street they all like to go back and forth to yards and play. A lot of us neighbors have talked about this for about a year now. If we have to pay for the stop sign we are willing to put our money together and buy them for our street. This is very important to us and our community. We feel if a stop sign

was put in place the speeding issue would be monitored better. These people are going 30 PLUS MPH on the side road.

Name:: Katie York

Address:: 4101 26th Avenue

Phone:: 563-529-0684

City:: Rock Island

Email:: Nick.and.Mii@gmail.com

State:: IL

Zip: : 61201

Additional Information:

Form submitted on: 3/28/2017 11:11:27 AM

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