

REQUEST FOR Residential All-Way Stop Control Engineering Department Northfield, Minnesota

Due to the increasing number of requests for all-way stop control and to address concerns for vehicle speed and safety in residential neighborhoods, the City established this traffic all-way stop control policy.

This policy provides a procedure to respond to requests for all-way stop control in residential neighborhoods and to address the safety and quality of life issues related to these concerns. It is the intent of this policy to address the need for a review, screening and justification procedure for the installation of all-way stop control in residential neighborhoods.

The Minnesota Manual on Uniform Traffic Control Devices (MnMUTCD) establishes "warrants" for all-way stop control. However, these warrants are not intended to address the conditions present on residential neighborhood/local streets. These Mn/MUTCD warrants are intended to address the conditions present on higher functional classification roadways such as major collector and arterial streets.

The City of Northfield residential all-way stop control policy recognizes that there are conditions that may justify all-way stop control at local residential street intersections. These predominant causes or conditions are related to vehicle speed, traffic volume, sight distance, pedestrian activity and traffic accident history. It also recognizes that there must be a method to screen requests for all-way stop control in order to reduce the indiscriminate use of all-way stop control where it is not justified.

Upon receiving an initial request for all-way stop control the city will provide the interested party with an informational flyer describing the policy and procedure and specific information concerning all-way stop control, what it can and cannot do for the neighborhood, what the likely side effects of all-way stop control are, what cautions should be considered, and who they should contact at the city should they choose to go forward with their request for all-way stop control. Along with this flyer, a petition form and instructions for use will be attached in order to obtain support in the form of signatures from the neighborhood.

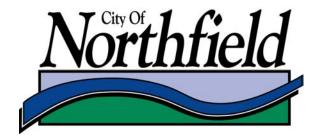
Should the neighborhood decide to go forward with their all-way stop control request, they should complete the attached petition form and submit this petition to the City of Northfield Engineering Department, 801 Washington Street, Northfield, MN. Once this signed petition has been received by the Engineering Department a site survey and traffic data collection will be scheduled for the subject intersection. This site survey and data collection can be done only from May through October due to weather related conditions.

This site survey will include traffic volume counts on all intersection legs and an approach speed survey on the uncontrolled approaches. A review of sight distance, pedestrian use and traffic accident history for the past 12 months will also be completed.

When the site survey/traffic data collection has been completed, the subject site will be evaluated based on a worksheet system where points are scored for the various speed, volume, sight distance, traffic accident history and pedestrian use criteria. When a minimum point threshold is reached or exceeded the all-way stop control may be justified. The final recommendation to install all-way stop control will be made based on this evaluation and the professional judgment of the appropriate city staff. The site evaluation, data collection, and staff recommendation will be completed within 60 days of receipt of the submitted petition.

Once the final recommendation to install all-way stop control has been given, for the subject intersection the appropriate Resolution for City Council action will be prepared and included in the agenda for the next available City Council meeting. The neighborhood will also be notified of this action.

If the final recommendation for the subject site is not to install all-way stop control, the neighborhood will be notified of that decision and provided additional materials relative to their case and what other actions or measures could be considered.



IS ALL-WAY STOP CONTROL THE RIGHT PRESCRIPTION FOR MY RESIDENTIAL NEIGHBORHOOD STREET INTERSECTION?

- Symptoms--speeding vehicles, higher traffic volumes, concern for child and adult safety. It is reasonable
 that neighborhoods be concerned for speeding vehicles and safety issues and general neighborhood
 wellness
- All-Way Stop Control--is it effective in treating your neighborhoods safety concern? AWSC has been shown to be affective in diverting or redistributing high "through" traffic volumes. But the data show that they are not very effective in reducing overall travel speeds or increasing safety in typical residential neighborhoods.
- Side Effects--negative side effects from the installation of an All-Way Stop, like increased rate of stop sign violators, plus increased acceleration/deceleration, noise, auto emissions, fuel consumption and travel delay.
- Cautions: Don't allow a false sense of security to develop. The street should not be considered a safe
 area to play in or along side under any circumstances even with an all-way stop in place. Over use of
 AWSC can lead to contempt and non-compliance of this important traffic control.
- Schedule an appointment--submit a request for all-way stop control with a petition signed by neighbors in favor of the all-way stop.
- Physical Examination-- taking the pulse of your neighborhood intersection. The city will schedule traffic
 data collection and site survey of your intersection after they receives the petition/request for AWSC. This
 activity includes traffic counts, speed measurement and site survey. This site survey and data collection
 activity can only be done from May through October due to weather conditions.
- Diagnosis and Treatment--based on the traffic data collected and conditions present at your neighborhood intersection the city will determine if all-way stop control is justified and would be an appropriate form of treatment in your case. If not, some other form of treatment may be indicated.
- Other treatments available--increased traffic law enforcement, "neighborhood watch," and neighborhood communication and education programs.
- To proceed with your request for all-way stop control please circulate a petition for this All-Way Stop Control through the neighborhood (all residents within 300 feet from the subject intersection and along the affected streets). When the neighborhood residents have signed this petition please submit this petition to the Engineering Department at City Hall, 801 Washington Street, Northfield, MN, (507) 645-3020.

CITY OF NORTHFIELD

DEPARTMENT OF PUBLIC SERVICES

RESIDENTS'	PETITION FOR R	ESIDENTIAL STRE	EET ALL-WAY STO	P CONTROL REV	EW
INTERSECTION L	LOCATION:				
Neighborhood Re	epresentative:		Date:		
Representative's	Address:		Phone:		
subject streets, pinstallation of Re	petition the City of Nor esidential Street All-wa	thfield to undertake a re y Stop Control. This Pe	eview of conditions at the etition is submitted to the	enced intersection and his intersection in consi ne City in response to co listed as follows (choos	deration of oncern for safety and
1.	2.	3.	4.	5.	6.
Speeding	Traffic	Through	Sight	Traffic	Other
Traffic	Volume	Traffic	Distance	Accidents	(state)
HOUSEHOLD ADDRESS			HOUSEHOLD SIGNATURE		CONCERN#
			-		

CITY OF NORTHFIELD

DEPARTMENT OF PUBLIC SERVICES

INTERSECTION LOCATION:					
EXISTING TRAFFIC CONTROL:	DATE:				
This Residential Street All-Way Stop Control Justification Worksheet is applicable only to inte of 30 miles per hour. This proceedure is "not" to be applied to the intersection of a local resid street as identified in the City's Transportation Plan.					
RESIDENTS' PETITION					
A petition has been submitted to the City which has been signed by more than 50% of the resand who live on the streets that would be affected by the requested All-way Stop Control.	sidents within 300 feet of the subject intersection				
SUBMITTED BY:	DATE:				
ADDRESS:	PHONE:				
APPROACH SPEEDS			1 2		
Uncontrolled approach speed. Check two boxes, one for the 85th percentile	27.5 miles per hour or less	0 points			
approach speed group and one for the highest recorded speed group with two or more observations.	27.6 to 32.5 miles per hour	10 points			
College Colleg	32.6 to 37.5 miles per hour	20 points			
= 85th percentile approach speed (highest approach). = highest recorded speed group with two or more observations.	37.6 to 42.5 miles per hour	30 points			
2 = highest recorded speed group with two or more observations.	42.6 to 47.5 miles per hour	40 points			
	47.6 to 52.5 miles per hour	50 points			
	52.6 miles per hour or more	60 points			
TRAFFIC VOLUMES			1 :		
Intersection approach daily traffic volume. Check two boxes, one for the	Less than 250 vehicles per day	0 points			
total major street approach volume and one for the highest minor street leg.	250 to 450 vehicles per day	10 points			
1 = total daily traffic volume for both major street approaches.	450 to 700 vehicles per day	20 points			
2 = highest minor street approach daily traffic volume (times two).	700 to 1000 vehicles per day	30 points			
	More than 1000 vehicles per day	40 points			
SIGHT DISTANCE RESTRICTION					
The safe stopping sight distance on any uncontrolled approach is restricted to less than 300 feet by horizontal and/or vertical roadway alignment, or by other "permanent" obstructions to sight distance.					
The safe stopping sight distance on any uncontrolled approach is greater than 300 feet but less than 450 feet due to horizontal and/or vertical roadway alignment, or other "permanent" obstructions to sight distance.					
OTHER CONDITIONS					
The number of reported traffic accidents at the subject intersection within the past 12 months = x (times)					
School, park, bus stop or other major pedestrian generator causing many pedestrians to cros	10 points				
PREPARED BY:	Total Points	To points			

If the worksheet point total is greater than or equal to 120, all-way stop control may be "justified" at the subject intersection. See the reverse side of this worksheet for an explaination of the results of this review and the status of this request.

CITY OF NORTHFIELD

DEPARTMENT OF PUBLIC SERVICES

RESIDENTIAL STREET ALL-WAY STOP CONTROL JUSTIFICATION WORKSHEET

RESULTS AND STATUS OF THIS RESIDENTIAL STREET ALL-WAY STOP CONTROL REVIEW

Total

Points Results and Status

- 120 + Conditions at the subject intersection may "justify" installation of residential street all-way stop control. After further review, a final City staff recommendation will be made based on the results of this worksheet and professional judgement. If the recommendation is to install All-way Stop Control a City Council Resolution will be prepared and submitted for Council action on the next available City Council agenda. Once the City Council has approved this Resolution the all-way stop control will be installed as soon as work schedules permit.
- Conditions at the subject intersection "do not" justify installation of residential street all-way stop control at this time. However, conditions do warrant further future review. In approximately 12 months the City staff will initiate contact with the neighborhood to verify continued interest in all-way stop control installation at this intersection. If so, traffic data collected will be updated and the intersection re-evaluated. After one re-evaluation that results in 90 points or less the neighborhood will be reguired to submit a new petition at such time that they feel conditions have changed significantly and continue to want All-way Stop Control.
- < 100 Conditions at the subject intersection "do not" justify installation of residential street all-way stop control at this time. However, further review may be justified at some future time. After two or more years, or after the neighborhood feels there has been a significant change in conditions, the neighborhood can submit a new petition for residential street all-way stop control at this intersection.</p>

Should there be any questions or comments concerning this review please contact the Engineering Division at 507-645-3020.