



**Village of Mount Prospect
Transportation Safety Commission
Regular Meeting Agenda
1720 W. Central Road Mount Prospect, IL 60056**

February 12, 2024

Emergency Operations Center

7:00 PM

- 1. Call to Order**
- 2. Roll Call**
- 3. Approval of Minutes**
 - 3.1. December 11, 2023, Regular Meeting
- 4. Citizens To Be Heard**
- 5. Old Business**
 - 5.1. Friendly Neighborhood Streets Program
- 6. New Business**
- 7. Commission Issues**
- 8. Adjournment**

NOTE: ANY INDIVIDUAL WHO WOULD LIKE TO ATTEND THIS MEETING BUT BECAUSE OF AN DISABILITY NEEDS SOME ACCOMMODATION TO PARTICIPATE SHOULD CONTACT LUKE FORESMAN, STAFF LIASON TO THE TRANSPORTATION SAFETY COMMISSION AT lforesman@mountprospect.org OR CALL 847/870-5640

MAYOR
Paul Wm. Hoefert

TRUSTEES
Agostino S. Filippone
Terri Gens
John J. Matuszak
Michael A. Zadel
Richard F. Rogers
Colleen E. Saccotelli



VILLAGE MANAGER
Michael J. Cassady

DIRECTOR OF PUBLIC WORKS
Sean Dorsey

Phone: 847/870-5640
Fax: 847/253-9377
www.mountprospect.org

Village of Mount Prospect Public Works

1700 W. Central Road, Mount Prospect, Illinois 60056

DRAFT MINUTES OF THE MOUNT PROSPECT TRANSPORTATION SAFETY COMMISSION

CALL TO ORDER

The meeting of the Mount Prospect Transportation Safety Commission was called to order at 7:00 p.m. on Monday, December 11, 2023.

ROLL CALL

Present upon roll call:	Justin Kuehlthau	Chairman
	Tina DeAragon	Commissioner
	Jeffrey Nejd	Commissioner
	Joesph Vena	Fire Department Representative
	Scott Moe	Public Works Department Representative
	Luke Foresman	Civil Engineer – Staff Liaison

Absent:	Jeffrey Nejd	Commissioner
	(Commissioner Nejd arrived at 7:10 PM)	
	Christopher Prosperi	Vice Chairman

Others in Attendance:	Matthew Lawrie	Village Engineer
	Vito Li Rosi	Resident

APPROVAL OF MINUTES

Chairman Kuehlthau, seconded by Representative Moe, moved to approve the minutes of the regular meeting of the Transportation Safety Commission held on November 13, 2023. The minutes were approved by a vote of 5-0.

CITIZENS TO BE HEARD

None.

OLD BUSINESS

No old business.

NEW BUSINESS

DRAFT Friendly Neighborhood Streets Program

Staff Liaison Foresman presented the draft Friendly Neighborhood Streets Program to the Commission by highlighting the following items:

Background:

The Transportation Safety Commission charged Engineering Staff with updating the Village's Traffic Calming Program in the summer of 2023. This was in response to residents who have requested traffic calming measures but have been unable to pursue a project due to their streets not meeting the existing minimum criteria.

Existing Program:

The existing program was adopted in 2011 and was designed to address the streets with the highest recorded speeds and volumes. Since adoption, the Village has completed numerous traffic calming projects as shown in the included map. However, after addressing these streets, the eligibility criteria is too high for the next round of streets to be addressed.

Proposed Program:

The Engineering Division created the Friendly Neighborhood Streets Program as an update to the existing traffic calming program. The new name was chosen to reflect a more holistic approach to managing speeds on neighborhood streets and making them safer for pedestrians and bicyclists at the same time. The program includes best practices when it comes to managing speeds. Overall, the draft program makes 25.72 miles (19%) of Village streets eligible, up from 9.78 miles (7%) of Village streets with the existing program.

Proposed Criteria:

- 85th Percentile Speed 7 MPH over the speed limit, down from 9 MPH over the speed limit
- Average Speed 3 MPH over the speed limit, down from 5 MPH over the speed limit
- Traffic Volume criteria remains the same

Additional changes and highlights in the Friendly Neighborhood Streets Program:

- The primary outcome of this program is to increase safety for all users, including vehicles, pedestrians and bicyclists, by reducing vehicle speeds and excessive volumes on neighborhood streets.
- When a traffic calming project is being developed, pedestrian and bike facilities (if on a bike route) will be automatically considered and incorporated into the project as appropriate.
- With this program, the Village will be more proactive in seeking traffic calming projects on streets that are part of the annual resurfacing program. These projects will still go through the same process, but the Village will initiate them. This will be the most cost effective and least disruptive way to construct traffic calming projects.

- Residents who wish to initiate a traffic calming project will be required to show neighborhood support prior to the Engineering Division conducting a traffic study. As part of creating the Friendly Neighborhood Streets Program, the Engineering Division created a database and maps combining over 2000 traffic studies that have been conducted in the Village. Staff will be able to use this data to inform residents of the likelihood of the street qualifying for a traffic calming project when they reach out. As most of this data is from 2006 – 2010, a new traffic study will most likely be required to confirm existing conditions on a particular street, but we have found little change in speeds over the years unless there has been new development.
- Once the traffic calming process is initiated and a design is chosen, the project area will be balloted for approval of the project. For this balloting process, more than 50% of the ballots will need to be returned against the project to prevent a recommendation to the Transportation Safety Commission. A non-response will be considered a vote for the traffic calming project. This is to prevent a vocal minority from stopping a project when studies have shown traffic calming has a positive effect on the livability of a neighborhood.
- Speed humps have been removed from the traffic calming toolbox. They have been trialed in the Village in the past and were ultimately removed for various reasons. Since they are one of the first items residents request, Staff wants to be up front about them not being recommended in the Village. Raised crosswalks, which are like speed humps, are included in the toolbox as they have a positive impact on pedestrian safety as well as calming traffic.
- The Village Board will have final approval on traffic calming projects.

Comparison Table

2011 Traffic Calming Program	2023 Friendly Neighborhood Streets Program
Street Eligibility	
85 Percentile Speed 9 MPH above speed limit	85 Percentile Speed 7 MPH above speed limit
Average Speed 5 MPH above speed limit	Average Speed 3 MPH above speed limit
Traffic Volume 1000 vehicles per day	Traffic Volume 1000 vehicles per day
9.78 Miles (7%) of Village Streets eligible	25.72 Miles (19%) of Village Streets eligible
Other Changes	
Focus on reducing vehicle speed	Includes pedestrian and bicycle safety improvements along with reducing vehicle speed
Requires 66% of ballots to be returned in favor of a project for a project to be approved	Requires 50% of ballots against a project to stop a project. No response is considered a vote for the project
Traffic Calming Process initiated at first resident complaint	Traffic Calming Process initiated after demonstrated neighborhood support

The Commission provided the following comments:

- General discussion on what streets are eligible and what can be done on streets that are not included in the program. Liaison Foresman indicated the Village would review issues on non-neighborhood streets on a case-by-case basis and would need to work with IDOT or Cook County as most of the arterial roads in town are not under Village Jurisdiction.
- General discussion on bikes and pedestrians being included in the program. Indication that bike routes need more than just signage to inform drivers that bicycles are present.
- Benches being included was brought up. Liaison Foresman indicated the idea behind the benches is to try to incorporate pedestrian friendly infrastructure outside of downtown. They will need to be incorporated in the right project, but they were included in a program to be an option going forward.
- Meetings were discussed. Liaison Foresman indicated meetings were intended to be held on site to be as accessible to residents as possible, but location could be varied based on the specific project.
- The Commission questioned their role in the process. Liaison Foresman indicated their formal involvement will occur at the Transportation Safety Commission meeting when the ballots and project is discussed. Prior to this, it is staff's intention to keep the Commission informed of any traffic calming projects and what stage they are in, including inviting the Commission to any on-site meetings. On a project-by-project basis, a project can be added to a Commission Meeting's agenda to discuss the issue prior to balloting.
- General discussion of maintenance with various traffic calming devices. Liaison Foresman and Public Works Representative Moe explained that any change in street geometry can increase maintenance costs, either by increasing staff time for snow removal, leaf removal and street sweeping, or repairs required when traffic calming measure are hit by vehicles. The Engineering Division works closely with the Streets Division when developing plans to ensure maintenance is taken into consideration. In general, the larger effect a traffic calming measure has on vehicle speed, the harder it is to maintain.
- Comments to highlight collaboration with Police to address traffic issues.
- Comment to review the education section to further describe tools to help educate the public.
- Comment to include sustainability measures as appropriate.
- Comment that some projects may not require temporary measures.
- Comment to try to shorten the process.

Liaison Foresman then indicated the draft plan will be published on the Village website. Communication will go out to the public informing them of the revisions and requesting their comments.

Staff will revise the draft program incorporating changes from comments we receive. The revised program will then be presented to the Transportation Safety Commission for approval. After the Commission approves the program, it will be sent to the Village Board for adoption.

No action is required by the Commission at this time.

Complete Streets Annual Summary

The Village of Mount Prospect adopted a Complete Streets Policy on February 4, 2020. As part of the policy, the Engineering Division will annually present to the Commission the results of eight performance measures as outlined in the policy. These performance measures were compared to 2021 and 2022 as presented in the table below:

Complete Streets Annual Summary Numbers				
Performance Measure	Unit	2021	2022	2023
Miles of On Street Bike Routes	Miles	15	29	29
Number of New Bike Parking Spaces	Each	0	0	0
Linear Feet of New or Reconstructed Sidewalk	Feet	38,731	48,405	50,836
Number of New or Reconstructed Curb Ramps	Each	178	176	231
Number of New, Improved or Repainted Crosswalks	Each	627	216	379
Number of New Parkway Trees	Each	505	631	580
Number of New or Rehabilitated Transit Stops	Each	0	0	4
ADA Complaint Upgrades	Sidewalk Squares	1,775	1,126	914

Liaison Foresman provided a brief presentation on the issues. He summarized efforts of the Public Works Department in 2023 as it relates to the Complete Streets Policy. No formal action was necessary or taken.

Update on Various Village Transportation Projects

Liaison Foresman provided a brief overview of the following projects to the Commission:

Projects Completed or Under Construction in 2023:

- Central Road and Cathy Lane Crosswalk – Substantially Complete
- Annual Resurfacing Program
- Annual Sidewalk Program
- Central Road – Mount Prospect Road – Rand Road – Intersection Project – Under Construction
- Business Center Drive Road Diet
- IL 83 Resurfacing (At Prospect Avenue)
- Mount Prospect Road – Northwest Highway – Prospect Road – UPRR Intersection Improvements

2024 Tentative Project Studies and Design

- Arterial Bike Network Study
- Kensington Road SRTS Project (CN Railroad Crossing Upgrade) – Construction 2025
- Algonquin Road Shared-Use Path, Sidewalk and Street Lighting – Construction 2026
- Rand-IL 83-Kensington Phase II Design – Construction 2026
- Melas – Meadows Bridge Phase II Design – Construction 2026
- Schoenbeck Road Sidewalk and Resurfacing – Construction 2025
- Northwest Highway – Central Road – Prospect Avenue – UPRR Intersection Study – Phase I Design
- Wolf Road Long Term Study – Phase I Design

2024 Tentative Construction Projects

- Rand-Central-Mount Prospect Finish Construction
- Central Road and Cathy Lane Mast Arm Installation
- Central Road STP Resurfacing – Rand Road to Wolf Road
- IL 83 – Busse Road Crosswalk (Future TSC)
- Street Resurfacing
- New Sidewalk Program – Wolf Road (ComEd ROW)

- Business Center Drive Off Street Bike Improvements

Other Projects

- Busse Road Reconstruction – Construction 2025

Recent Grant Awards

- Melas – Meadows Bridge Phase II & Phase III – ITEP - \$3,000,000
- Melas – Meadows Bridge Phase II & Phase III – STP - \$2,033,824
- Rand – IL 83 – Kensington – Congressional Appropriation - \$7,000,000
- Kensington Road – Federal Local Rail-Highway Crossing Safety Program - \$294,500
- Arterial Bike Network Study - \$280,000

No formal action was necessary or taken.

COMMISSION ISSUES

Commissioner Nejdl brought up an item that was discussed at Coffee with the Council, a gap in sidewalk along the north side of Lonquist Boulevard between Busse Road and 1904 W. Lonquist. Liaison Foresman indicated Public Works was made aware of the item this morning and will be looking into it. The Village typically fills in sidewalk gaps as part of the annual Street Resurfacing Program.

Staff Liaison Foresman indicated the Village investigated speed limit signs on Hunt Club Drive and found them to be installed with acceptable spacing. The new traffic calming program, when approved, may provide additional ways for the neighborhood to work with the Village to address traffic issues on the street.

ADJOURNMENT

With no further business to discuss, the Transportation Safety Commission voted 6-0 to adjourn at 8:30 p.m. upon the motion of Chairman Kuehlthau. Commissioner Nejdl seconded the motion.

Respectfully submitted,



Luke Foresman, P.E.
Civil Engineer



CHANGES FROM DRAFT PROGRAM

- Grammatical and spelling updates
- Map corrections
- Changes related to schools
 - o Added separate school category to the prioritization spreadsheet giving points specifically for projects around schools, to increase prioritization of those projects
 - o Added additional coordination for projects located near schools
 - o If a school reaches out directly to the Village, the Village can initiate a traffic calming project and a petition will not be required
 - o If the school is having traffic issues on a street that does not qualify for traffic calming, the traffic calming process will not apply, instead the Village will work directly with the school to develop a solution outside of the Friendly Neighborhood Streets Program
- Emphasized Police coordination in Village initiated projects
- Expanded on education to include programming at schools
- Changed temporary measures to “as necessary”
- Added additional items to the toolbox under “variations”
 - o Decreasing radius returns (narrowing intersections)
 - o On street speed, pedestrian and school zone pavement markings
 - o Counterflow bike lanes



Friendly Neighborhood Streets Program

Public Comments

Collected December 27th, 2023 to January 12th, 2024

Comments on the Program

Comment 4:

Greetings!

XXXXXXXXX from XXX S William St.

I was recently rear-ended by a drunk driver. As I was waiting for my car to get towed, I was speaking with the tow truck driver. He mentioned that everything out there is getting worse in regards to the number of crashes and the severity of the crashes. So all of these traffic concerns are a real thing based not only on data, but on the lived experiences of the professionals who cleanup after this mess.

Whenever you want to turn, something around, be an organization, a neighborhood, a business... You take a look at the basics. Are used to live in the city of Chicago on the north side, and I have never seen more self important drivers in my life. They will blow a stop sign because they need to go get their kids from someplace. Or they will speed down the street because they're wanting to beat a train. Taking care of these basics, like handing out more tickets for running stop signs and speeding on sidestreets will lay the foundation.

And a personal pet peeve... Can we please get the pedestrians out of the street. About once every six months, some Rando is in the middle of the street and I can't see them due to a parked car, a tree or whatever, and then we have a moment.

Thanks, and good luck!

XXXXXXXXX

Comment 5:

Cars (and our garbage trucks) are always avoiding the NW Hwy/Mount Prospect Road traffic lights by cutting through the alley north of NW Hwy (behind Novak & Parker). Can alleys be part of this?

Thanks

XXXXXXXXX

XXX S Albert St

Comment 16:

Hello,

I saw the item of cut throughs. Not sure if these apply to your project or not, but they all present pretty hazardous situations.

1. Cut throughs through the Chick-fil-A parking lot, from Rand to Elmhurst and from Elmhurst to Rand. Added speed bumps do not seem to decrease the frequency or speeds
2. Cut throughs through the access road behind the Randhurst Crossing shopping strip. Traffic whizzes through from Kensington to Rand and from Rand to Kensington
3. Cut throughs behind the Randhurst Jewel/Osco. Traffic flies out of the Jewel delivery access road from the Randhurst area on to Euclid in spite of the signage not permitting it. And there used to be signs not permitting entry from Euclid to that road, but those signs are now gone. It can be a busy thoroughfare going both directions at times.

Thank you,

XXXXXXXXXX

XXX Greenfield Lane

Comment 17:

I walk the neighborhood streets a lot. Two things I see as a problem:

- Blacked out windshield and drivers side windows. Pedestrians are unable to see if the drivers have noticed people walking in the crosswalk.
- Auto stop engines. Drivers hate to stop at a stop sign and drift through the intersection without a stop. I noticed drivers resent the fact that I am walking in the crosswalk causing them to autostop their engine.

--

Regards, XXXXXXXXXXXX

Comment 19:

Hello,

I am XXXXXXXXXXXX and I live at XXX N Russel St, Mount Prospect. I have attached my comments about the Friendly Neighborhood Streets Program.

Overall I am glad the Village is making efforts to improve the safety of non-car users on our streets. Most of the items listed in the Draft Friendly Neighborhood Streets Program seem reasonable and can make an improvement on our lives. However, I was a little disappointed the Village posted a 96 page document online on 12/27 and required responses by 12/29. Giving people more time to respond could have created better responses. I also wish the Village would have included a plan for arterial roads under Village control and streets outside of village control. I generally find walking and biking on neighborhood roads to be safe, but crossing arterial roads to be quite difficult while on foot or on a bike. Finally, I wish the Village had addressed public transportation. The second goal is "encourage alternative forms of transportation" but the word "bus" does not appear in the 96 page document. Overall I think the proposal is good, but is ultimately limited in effectiveness.

Thank you,

XXXXXXXXXX

Comment 20:

I think it is great that the Village is taking the opportunity to listen to the concerns about traffic in residential areas and making the effort to address these concerns. Although no program can be perfect and make everyone happy, it is a step in the right direction to keep pedestrians, bikes and children safe in these residential areas. I believe that if statistics were added to the information that is provided to the public regarding severe injuries and deaths, it would also help residents understand the importance of this program.

Comment 27:

People seem to ignore the flashing lights or signs. Put in stop signs or regular traffic lights on busy roads.

Comment 29:

Thank you for asking for input.

I am always observant of speed limits on our Village streets. Having said that, I'm not sure that cars are the main issue. First, pedestrians should use sidewalks when provided. The number of people walking in the streets in our neighborhood that has sidewalks on both sides is ridiculous. Second, bikers need to follow the rules of the road, e.g. stopping at stop signs. If the goal is to reduce the likelihood of fatalities, these two practices would I suspect go a long way. Also, it would be helpful if both bikers and pedestrians would wear lights or reflective clothing at night.

An unrelated comment - I am not sure why we just received this request for input today, when today is the deadline???

Sincerely yours,

XXXXXXXXXX

Comment 30-1:

Since I cannot enter the on line form, please consider this note my response to the Traffic Calming Program.

From my perspective, speed is not the issue unless it is excessive. The current speed limit boundaries (9 mph) seem reasonable. There are real issues that should be addressed:

- Bicycle riders who do not obey traffic signals (both stop signs and stop lights)
- Bicycle riders riding in the middle of the street
- Bicycle riders wearing dark clothes at night
- Bicycle riders with NO LIGHTS at night. This is AMAZING as well as dangerous
- Pedestrians who cross in the middle of the street instead of at the corners
- Pedestrians who insist walking in the street even though there are perfectly fine sidewalks they could use. Again, AMAZING and dangerous.

Finally, I am unhappy that I received an email on December 28th giving me only one day to respond in a holiday week where many people - including me - are out of town. That seems rather unfriendly.

XXXXXXXXXX

Comment 30-2:

Thank you for clarifying XXXXXXXX. That makes me feel better.

One other observation for you. While the current speed limit on main streets is 30, the lights are so poorly timed that going the limit causes you to hit red lights about every other light about 75% of the time in my experience. Travel 35 - 38 and you MAKE 75% of the lights. So from my perspective, I would not want to see the speed limits changed, but if you do, please fix the lights first. There is no reason to emit more carbon in the air by sitting at unnecessary red lights.

XXXXXXXXXX

Comment 31:

Mr. XXXXXXXXXXXX,

Thank you to you and the team for putting the documents detailing the Neighborhood Traffic Calming Program. I have one a few general notes. I will keep it brief as I have a background in Architecture and Urban Planning with a focus on street design. Should the opportunity arise I am more than happy to draft and render options for some sections of the plan.

- Please consider a "School Streets" program for all schools in the area., Initially banning car traffic during arrival and dismissal and eventually turning it fully car-free. This program has been successful in cities in Paris, Milan and Seattle. They reduce noise, pollution and increase safety for our childs.

- The traffic calming measures in detail in the document look good. Please, aside from temporary samples for residents, do not use flexible posts to separate cycling/pedestrian infrastructure from the automotive. It has been shown it is not as effective and in the long run more expensive with the cost of post replacement.

- I agree with the raised pedestrian crossing and would also recommend raised intersection at key residential intersections.

- Please consider an update to the recommended cycling routes plan for over 10yrs ago. A bike-grid is highly recommended with this infrastructure contributing to the street width reduction and effectively the speed reduction on the residential streets. As well as better way finding.

Thanks you,

XXXXXXXXXX

Comment 35:

I am so glad that the village is doing this. Overall, this is a huge improvement from the previous plan. I started a civil engineering internship at Norman Toberman & associates, and it showed me how strict regulations pose significant challenges to engineering design. That said, I have a few things that are worth adding. I also have images of these below.

Signage/roadway markings:

- When Flashing School Zones Signs instead of When Children are Present
- Park Speed Zones (lowers speed and/or increases fines)
- Omit "on school days" from school zone signs
- Bicycle Priority Streets where drivers are required to "Change Lanes to Pass Bicycles" (could be implemented on Emerson Street).
- On-road Speed Limit Markings (similar to the Ped X-ing ahead markings on central)
- Zig Zag Pavement Markings near Ped Xing

Traffic Calming:

- Tighter Turning Radius to slow down drivers through turns
- Making one-way school area streets 2-way outside of school times. For example, Aspen Drive would benefit from being 2-way.
- Counterflow Bike lanes can Visually or Physically narrow the roadway
- Parking Reconfiguration - Add strategically placed parking to create a chicane effect.
- On-Street Bicycle Parking - Near Churches, Parks and Schools

Images for this comment are included at the end of this document.

Comment 38:

Low profile speed bumps that are painted yellow.

Bumps can't be too high.

Comment 40:

As the father of two small children, I have a vested interest in the safety of our neighborhood's streets. While I believe the Village can do more to control vehicle speed, some of the measures outlined in the Draft Friendly Neighborhood Streets Program, I think are inappropriate, or will cause more harm than good. Horizontal Deflection – Mini Traffic Circles, I think is a bad idea on residential streets. Not only are the disadvantages listed on your Program accurate, I think frustration from already hurried drivers in these areas could lead to more rage and reckless attempts to subvert the desired intention of the physical measure. I think the other physical measures listed in the Program will have similar negative impacts on both hurried drivers and homeowners where implemented. I think your non-physical measures are more appropriate, with an increase in education and enforcement.

Comment 43:

I have reviewed the Mount Prospect traffic calming plans. It appears these are very anti motor vehicle. From what I have seen recently, it is legal for walkers, runners, people with baby strollers, bicyclists of all ages, mini scooters, ect to use the streets as opposed to sidewalks. The village appears to be okay with vehicles stopped at a traffic sign not allowed to proceed or turn due to being blocked by pedestrians. They are allowed to walk, run, cycle ect 3-4 abreast and take up all traffic lanes. They are entitled and refuse to let a vehicle go past. The most recent encounter I had was with someone on a bicycle. I was traveling west on Prospect Avenue which is a mixed use street. He was traveling east in the westbound lane. It was obvious he was not going to move. I was able to pull over and he was oblivious to danger. However, since these lanes are mixed use only motor vehicles have to follow the laws, no one else does. There are no ramifications for pedestrians who simply walk out into traffic whether at Northwest Highway for example, or a cross street. It's okay, per the village for bicyclists to surround a car at a stop sign and yell at them keeping the driver from moving safely. I have brought this up to the police many times, but their hands are tied. I imagine these Mount Prospect residents who want to create a "calm traffic" law are the ones who don't follow it. I know I am in the minority in Mount Prospect. Thank you for letting me speak. Will you be telling people when there will be a vote on this? It's interesting you are only interested in negative votes counting.

Comment 45:

Randhurst, and at Euclid and River Road. Last year, there were many posts about a young man in a black sports car who would speed down Forest from the 7-11 toward Fairview and observers routinely called the Police and gave the car's license plate numbers...and it happened over and over again. Why? I am concerned about the increased amount of middle School kids playing chicken in traffic on their short bikes by purposely darting in front of cars, suddenly circling moving cars, and displaying what appears to be a feeling of invulnerability. When it's multiple kids suddenly doing that, there isn't any roundabout, planter in the middle of the road, concrete barriers like at Emerson and Central, that will protect the kid from a 3,000 pound car. At the November PTO meeting, parents were expressing concern about the yellow flashing light at Central near Busse: Cars don't stop for parents with strollers and toddler in hand that are halfway across the street. One parent said that the car sped up and almost hit her toddler. A stoplight is needed there, not come meaningless flashing light. I understand it is a county road, but how many accidents have to happen before a stop light is installed? Shared bike lanes might work on low traffic side streets, but are not safe on a busy street.

I am not in favor of bottleneck solutions because they cause rear-ended accidents. The traffic flow at Mount Prospect Road and Central will be more horrific once Raising Cane opens. Safety Education and holding drivers and bikers accountable should not be replaced.

My main concern is making the kids realize that it's not safe to dart in and out in traffic, especially if they are on those low electric bikes and you can't immediately see them. Last summer, there were kids whose heads didn't reach my car's mirror height. You can hardly see them zooming from side to side across the front of your car. I simply stopped and cars behind me were honking.

Comments Related to Individual Traffic Issues

Comment Number	Location	Request	Issue
1	Intersection of N. School and Henry	4-Way Stop	Speeding vehicles on School Street avoiding the stoplight on Owen Street
2	South Fern Drive	Speed Bumps	Speeding vehicles
3	Greenwood and Brentwood	Traffic Calming	Drivers speeding and ignoring stop signs
6	Wedgewood Lane between Euclid and Rand	Traffic Calming	Speeding vehicles and cut through traffic
7	Intersection of Lincoln and Can Dota	N/A	Vehicles speeding and not stopping at stop signs
8	Hunt Club Drive	Traffic Calming	Speeding vehicles
9	Intersection of Elmhurst and Thayer	4-Way Stop	Speeding vehicles
10	Weller Lane	Crosswalk Signage	Pedestrian visibility
11	N/A	N/A	Vehicles parking on driveways blocking sidewalks, and loud vehicles (modified exhausts)
12	Triangle Neighborhood	4-Way Stops	Speeding vehicles in Triangle Neighborhood
13	700 Block of S. William Street	Traffic Calming	Speeding Vehicles and vehicle volume
14	South I-Oka near St. Raymond	Traffic Calming	Speeding vehicles, especially during morning school drop off
15	Milburn Avenue near St. Raymond	No Right Turn	Cut-through traffic on Milburn to access the School
18	Main Street near Isabella	N/A	Comment on traffic and vehicle noise increasing in recent years
21	Busse Road	N/A	Speeding vehicles on Busse Road
22	South William Street	Traffic Calming	Speeding vehicles and not stopping at stop signs (at Council Trail)
23	Prospect Manor	N/A	Speeding vehicles and cut through traffic
24	Owen at Central	Parking	Vehicles are parking too close to the intersection
25	Rand - Central - Mount Prospect	N/A	Vehicles are blocking the intersections waiting for lights
26	Bob-O-Link Road	Traffic Calming	Vehicles not stopping at stop signs
28	South William Street	Traffic Calming	Vehicles not stopping at stop signs
32	Audrey Lane	Limit Access	Speeding vehicles
33	Euclid and Basswood	RRFBs	Difficult to cross Euclid Avenue
34	South Louis Street	Raised Crosswalk	Speeding vehicles and not stopping at stop signs
36	Isabella and Dale	4-Way Stop	Speeding vehicles
37	Burning Bush Lane and Seneca Lane	4-Way Stop	Speeding vehicles

Comment Number	Location	Request	Issue
39	Louis Street	Traffic Calming	Cut through traffic
41	Highland Avenue	One-Way Conversion	Speeding vehicles and cut through traffic
42	Central and Emerson	RRFBs	Pedestrian Visibility
44	North Maple and Central	Traffic Calming	Speeding vehicles

When Flashing School Zone Sign



Park Zone Speed Limit



When Children Are Present



Bicycle Priority Street (Change Lanes to Pass)



On-Road Speed Limit Markings



Zig-Zag Pavement Markings



Zig-zag markings on Belmont Ridge Road (left) and Sterling Boulevard (right) in Loudoun County.

Tighter Turning Radius



One Way to 2 way conversion



Counterflow bike lanes



Parking reconfiguration



On Street Bicycle Parking	





OVERVIEW

The Engineering Division is requesting your review of the updated draft Friendly Neighborhood Streets Program. This has been revised based on comments for the Safety Commission and the Public. Please come to the meeting with any further questions or comments you have. This meeting to approve the Friendly Neighborhood Streets Program with a potential recommendation to send it to the Village Board for adoption.

Background:

The Transportation Safety Commission charged Engineering Staff with updating the Village's Traffic Calming Program in the summer of 2023. This was in response to residents who have requested traffic calming measures but have been unable to pursue a project due to their streets not meeting the existing minimum criteria.

Existing Program:

The existing program was adopted in 2011 and was designed to address the streets with the highest recorded speeds and volumes. Since adoption, the Village has completed numerous traffic calming projects as shown in the included map. However, after addressing these streets, the eligibility criteria is too high for the next round of streets to be addressed.

Proposed Program:

The Engineering Division created the Friendly Neighborhood Streets Program as an update to the existing traffic calming program. The new name was chosen to reflect a more holistic approach to managing speeds on neighborhood streets and making them safer for pedestrians and bicyclists at the same time. The program includes best practices when it comes to managing speeds. Overall, the draft program makes 25.72 miles (19%) of Village streets eligible, up from 9.78 miles (7%) of Village streets with the existing program.

Proposed Criteria:

- 85th Percentile Speed **7 MPH** over the speed limit, down from 9 MPH over the speed limit
- Average Speed **3 MPH** over the speed limit, down from 5 MPH over the speed limit
- Traffic Volume criteria remained the same

Included Documents:

- Draft Friendly Neighborhood Streets Program
- Map of Past Traffic Calming Projects

Additional Available Information:

- Spreadsheets of all traffic data
- Maps broken out by zone
- Maps of streets eligible with the existing 2011 Traffic Calming Program





Additional changes and highlights in the Friendly Neighborhood Streets Program:

- The primary outcome of this program is to increase safety for all users, including vehicles, pedestrians and bicyclists, by reducing vehicle speeds and excessive volumes on neighborhood streets.
- When a traffic calming project is being developed, pedestrian and bike facilities (if on a bike route) will be automatically considered and incorporated into the project as appropriate.
- With this program, the Village will be more proactive in seeking traffic calming projects on streets that are part of the annual resurfacing program. These projects will still go through the same process, but the Village will initiate them. This will be the most cost effective and least disruptive way to construct traffic calming projects.
- Residents who wish to initiate a traffic calming project will be required to show neighborhood support prior to the Engineering Division conducting a traffic study. As part of creating the Friendly Neighborhood Streets Program, the Engineering Division created a database and maps combining over 2000 traffic studies that have been conducted in the Village. Staff will be able to use this data to inform residents of the likelihood of the street qualifying for a traffic calming project when they reach out. As most of this data is from 2006 – 2010, a new traffic study will most likely be required to confirm existing conditions on a particular street, but we have found little change in speeds over the years unless there has been new development.
- Once the traffic calming process is initiated and a design is chosen, the project area will be balloted for approval of the project. For this balloting process, more than 50% of the ballots will need to be returned **against** the project to prevent a recommendation to the Transportation Safety Commission, **a non-response will be considered a vote for the traffic calming project**. This is to prevent a vocal minority from stopping a project when studies have show traffic calming has a positive effect on the livability of a neighborhood.
- Speed humps have been removed from the traffic calming toolbox. They have been trialed in the Village in the past and were ultimately removed for various reasons. Since they are one of the first items residents request, we want to be up front about them not being recommended in the Village. Raised crosswalks, which are like speed humps, are included in the toolbox as they have a positive impact on pedestrian safety as well as calming traffic.
- The Village Board will have final approval on traffic calming projects.





COMPARISON TABLE

2011 Traffic Calming Program	2023 Friendly Neighborhood Streets Program
Street Eligibility	
85 Percentile Speed 9 MPH above speed limit	85 Percentile Speed 7 MPH above speed limit
Average Speed 5 MPH above speed limit	Average Speed 3 MPH above speed limit
Traffic Volume 1000 vehicles per day	Traffic Volume 1000 vehicles per day
9.78 Miles (7%) of Village Streets eligible	25.72 Miles (19%) of Village Streets eligible
Other Changes	
Focus's on reducing vehicle speed	Includes pedestrian and bicycle safety improvements along with reducing vehicle speed
Requires 66% of ballots to be returned in favor of a project for a project to be approved	Requires 50% of ballots against a project to stop it, no response is considered a vote for the project
Traffic Calming Process initiated at first resident complaint	Traffic Calming Process initiated after demonstrated neighborhood support



Village of Mount Prospect

FRIENDLY NEIGHBORHOOD STREETS PROGRAM

DRAFT

The logo is a shield-shaped emblem. At the top, it says "Mount Prospect" in a small font. Below that, the letters "MP" are prominently displayed in a large, stylized, serif font. The background of the shield features a faint image of a tree and a building.

"Where Friendliness is a Way of Life"

Engineering Division – DRAFT January 2023



TABLE OF CONTENTS

EXECUTIVE SUMMARY	2
I – GOALS	3
II – TRAFFIC CALMING PROCESS	4
III – POLICY STATEMENTS	20
IV – REFERENCES	47

EXHIBITS

EXHIBIT A	– MINIMUM CRITERIA
EXHIBIT B	– PROJECT PRIORITIZATION WORKSHEET
EXHIBIT C	– PETITION FORM
EXHIBIT D	– 85 TH PERCENTILE SPEED MAP
EXHIBIT E	– TRAFFIC VOLUME (ADT) MAP
EXHIBIT F	– AVERAGE SPEED MAP
EXHIBIT G	– POTENTIAL TRAFFIC CALMING ELIGIBILITY MAP
EXHIBIT H	– PRIMARY EMERGENCY VEHICLE RESPONSE MAP
EXHIBIT I	– NEIGHBORHOOD BIKE ROUTE MAP

APPENDICES

APPENDIX A	– TRAFFIC CALMING TOOLBOX
------------	---------------------------





EXECUTIVE SUMMARY

The Village of Mount Prospect's Friendly Neighborhood Streets Program serves as a guideline to further develop Village streets to be welcoming places to all users. This program will take a holistic approach to address current issues within our neighborhood transportation network. Roads and streets outside of Village jurisdiction, or arterial roads under Village control, are not included.

This program builds upon the 2011 Traffic Calming Program and the 2004 Residential Speed Limit Program while incorporating ideas laid out in the Village's Complete Streets Policy and Sustainability Action Plan. It also directly supports the Guiding Principals 1 and 2 of the Village's 2017 Comprehensive Plan Update. These previous plans and policies have guided the Village to become friendlier to all users, but an update is needed to incorporate the latest changes in vehicle design, driving habits, policy guidelines and multi-modal user accessibility.

Design guidelines included in this program provide the Village with a toolkit for how the right-of-way can be modified to improve comfort and safety for users of all ages and abilities while maintaining access for vehicles.

Residents have the most at stake when it comes to the streets they live on, as such, this program includes ways for residents to get involved in making their streets friendlier, including how residents can request changes to their street.

The primary outcome of this program is to increase safety by reducing vehicle speeds and excessive volumes on neighborhood streets. Vehicles traveling at or below the speed limit is a significant safety improvement compared to speeds of 10 mph or more above the speed limit, while also reducing noise pollution. Changing speed limit signs is not a responsible way to achieve this goal as drivers tend to drive the speed they are comfortable with, regardless of the posted speed limit. Instead, infrastructure needs to be modified to induce lower speeds. The program only includes neighborhood streets. With the many arterial streets in the Village, vehicles will be on neighborhood streets for a minor part of their journey, minimizing the impact on travel times while creating friendlier streets for all.





I - GOALS

- Enhance neighborhood safety and livability by reducing excessive speeding and traffic volumes on neighborhood streets.
- Encourage alternative forms of transportation by increasing the comfort and safety of biking and walking on neighborhood streets.
- Reduce noise pollution by slowing down vehicles to create friendlier streets.
- Promote safety for children by reducing traffic speeds and volumes around schools and promoting alternative means to get to school.
- Leverage the data collected from the Neighborhood Traffic Study and past individual traffic studies to target areas with the highest recorded speeds and volumes first.
- Encourage reasonable and responsible driver behavior through education and enforcement.
- Make efficient use of Village resources including personnel and funding by following the established process of evaluating and prioritizing traffic calming requests.
- Foster a collaborative working relationship between Village Staff, elected officials, residents, business owners and street users in the development of traffic calming projects.
- Respond to recent changes in car design and capabilities.





II - TRAFFIC CALMING PROCESS INTRODUCTION

The Friendly Neighborhood Streets Program is more than just a traffic calming program, its goal is to improve the experience for all street users. This is primarily done through traffic calming measures to slow vehicles, but this program also places an emphasis on making neighborhood streets accessible for all users. Specifically, by considering pedestrian improvements and making select streets bikeable for all ages and abilities.

Vehicle speed and vehicle volume are the primary issues on neighborhood streets; high speeds and volumes impact safety for all street users. This program focuses on reducing those metrics. Additionally, the program will add infrastructure specifically designed to improve the street experience for bikes and pedestrians beyond just reducing vehicle volume and speeds.

The Village's policy is that traffic calming measures have a positive impact on neighborhoods. Therefore, there needs to be a demonstrated majority in opposition to a traffic calming project to prevent construction, instead of a majority in favor of the project to start construction.

Most traffic calming programs are set up to be reactive, resident-initiated and target one street. That is, a resident or group of residents petition the local government for traffic calming measures on a particular street and staff responds to the request. Typically, a process is in place to determine whether the street qualifies for traffic calming measures and if so what steps must be taken to receive approval. Two advantages to this approach are:

1. Public interest has been generated early in the process
2. Overstretched staffs' keep the project scope limited to the street in question.

However, a major disadvantage to this approach is that solving one problem on a particular street may have repercussions on surrounding streets and throughout the neighborhood.





INTRODUCTION CONTINUED

In 2007 – 2010, the Village conducted the Neighborhood Traffic Studies to review intersection traffic control and speed limits on a neighborhood-wide basis. This comprehensive approach was created to assure that consistent decisions would be made, and the neighborhood would operate safely. Based on the results of our post-studies, this neighborhood-wide approach is achieving our goal of improving safety. Those studies established consistent speed limits and traffic control but did not address speeding directly.

In 2011, the Village developed the Neighborhood Traffic Calming Program (NTCP) and over the past 10 years, the Village has completed many projects to address excessive speeding and traffic volumes on local streets. The Friendly Neighborhood Streets Program will further the efforts of the NTCP and to incorporate pedestrian and bicycle improvements into the program.

The Village supports a traffic calming program that involves an area-wide approach to best serve the community. Like installing a stop sign at one intersection without giving thought to the impact on the adjacent intersection, constructing traffic calming measures on one street without considering the impact on the adjacent street(s) may create new problems. When a traffic issue is present on one street, the Village will look at surrounding streets and the neighborhood when developing a traffic calming project.

Additionally, the Village will be proactive in developing traffic calming projects by incorporating traffic calming into the Street Resurfacing Program. This will allow the Village to increase the friendliness of neighborhood streets for an economical cost and with the least disturbance to residents.

Traffic calming measures increase safety at conflict points with pedestrians or bicycles by having a driver switch their foot from the accelerator to the brake as they approach the conflict point. Drivers need to slow down as they approach traffic calming measures. This removes crucial seconds from the driver's reaction time if they need to apply brakes to avoid a crash with pedestrians or bicyclists.





INITIATION

There are three options to initiate traffic calming projects:

- Resident Initiated Projects

1. Resident reaches out to the Engineering Division with a speeding, traffic volume, bike or pedestrian complaint that could be addressed by the program
2. The Engineering Division responds with the petition form, initial project area and an introduction to the Friendly Neighborhood Streets Program
3. Resident returns petition with signatures from at least ten (10) residents or 30% of the total number of dwelling units and commercial spaces in the initial project area, whichever is greater
4. The Engineering Division reviews the petition then initiates the traffic calming process

- Village Initiated Projects

The Engineering Division will review historical traffic data throughout the Village and consult with the Police Department to identify key areas where traffic calming would be appropriate. At the direction of the Director of Public Works, the Engineering Division will initiate the traffic calming process for select streets as funding is available.

- Street Resurfacing Program

All streets included in the Street Resurfacing Program will be reviewed for potential traffic calming measures as this will be the most cost-effective way to implement traffic calming. The Engineering Division will develop a list of eligible streets and, at the direction of the Director of Public Works, the Engineering Division will initiate the traffic calming process for select streets.





TRAFFIC CALMING PROCESS

After a project is initiated, the following process will be used to develop the traffic calming project.

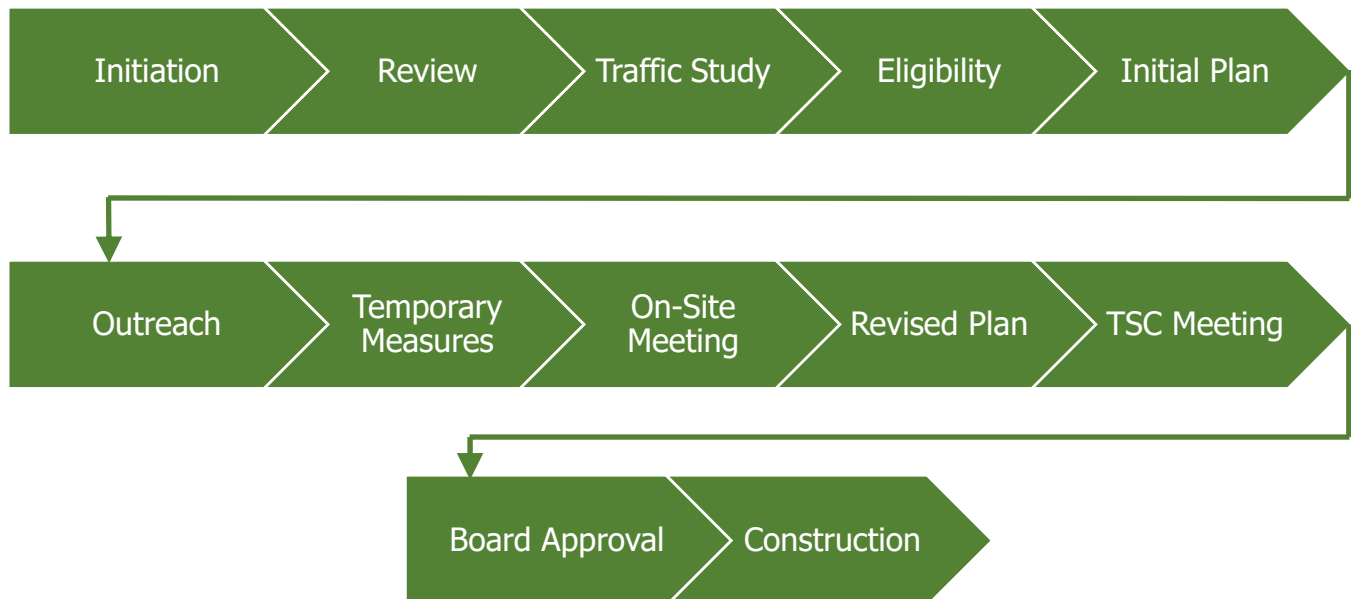
1. Project initiated through one of the previously stated options
2. The Engineering Division reviews request to determine initial project area
3. Traffic studies conducted
4. Eligibility for traffic calming determined
 - A. If streets are eligible, moves to step 5
 - B. If not eligible, refer to Police for enforcement, inform residents
5. Project prioritized to determine when project will be addressed
6. Initial public outreach to all properties within the project area
7. The Engineering Division develops plan to address traffic issues
8. Second public outreach informing properties of the issues identified in the initial public outreach, proposed solution, that temporary traffic calming measures will be installed (as needed), invites them to on-site meeting to discuss the project, and solicits feedback
9. Temporary traffic calming measures (as needed) installed by Public Works, mostly consisting of cones and temporary paint, to show residents the proposed traffic calming measures, remains for two weeks minimum
10. The Engineering Division hosts a public meeting within the project area while temporary calming measures are installed (if used) to solicit feedback
11. Temporary traffic calming measures removed, the Engineering Division revises the design as necessary and prepares a presentation to the Transportation Safety Commission
12. Residents balloted on the traffic calming measures and invited to the Transportation Safety Commission (TSC) to discuss the final project design
13. The ballots are counted, TSC discusses the project and votes for approval, revisions or denial.
14. Approved projects will be forwarded to the Village Board for approval and, if approved, will be incorporated into the Street Resurfacing Program or bid as a stand-alone project as funding allows





TRAFFIC CALMING TIMEFRAME

Project timing for each of the steps:



1. Week 0 Project Initiated
2. Week 1 Engineering Division Review
3. Week 2-5 Traffic Study depending on Weather, Holidays and Availability
4. Week 6 Eligibility Determined
5. Week 6 Project Prioritized
6. Week 6 Initial Public Outreach
7. Week 7-8 The Engineering Division Develops Plan
8. Week 9 Second Public Outreach
9. Week 10-11 Temporary Traffic Calming Measures Installed (as needed)
10. Week 11 On-Site Meeting
11. Week 12-13 Design Revised, Temporary Measures Removed
12. Week 14 Residents Balloted on Revised Traffic Calming Design, Invited to Discuss Project at TSC Meeting
13. Week 16 TSC Meeting and Vote for Approval
14. Week 17-24 Sent to Village Board for Approval, Bid Documents Prepared and Project is Incorporated into Street Resurfacing Program or Stand-Alone Traffic Calming Project





TRAFFIC CALMING TIMEFRAME

The most cost-effective process will be to incorporate traffic calming projects into the yearly Street Resurfacing Program, whether the project is located on a resurfacing street or not. This is targeted to be bid in February of each year; therefore, the traffic calming process needs to be initiated by July at the latest to ensure projects can be included in the following year's resurfacing program. If the deadline is not met, the Traffic Calming Process will proceed, but construction may be delayed a year until the next resurfacing program.

The Village may bid a stand-alone traffic calming project at any time at the discretion of the Director of Public Works and the Village Board. There is not the need to meet the deadlines above if this is the case.

If there are more projects than funding or staff time available, they will be prioritized based on criteria outlined in the Friendly Neighborhood Streets Program. Projects may be re-prioritized at the discretion of the Director of Public Works. Residents will be informed of the current backlog when they initially reach out to the Engineering Division.

The next pages will detail each step of the Traffic Calming Process.





DETAILED TRAFFIC CALMING PROCESS

Step 1: Initiation

The project will be initiated as described previously. For a resident-initiated project, the Engineering Division will provide a response to the initial resident request that includes:

- Petition requirements, including initial location limits for petition
- A copy of the Friendly Neighborhood Streets Program
- Current backlog
- Deadlines for potential project construction

Once the resident returns the completed petition with the required signatures, the project will move on the Step 2. To preserve staff time, the Engineering Division will not proceed with the traffic calming project until the petition has been received. The Engineering Division will communicate directly with the Primary Resident Contact as shown on the petition. This contact can be updated at any time.

Step 2: Project Area

Staff will determine the appropriate project area for traffic calming implementation. This project area may expand or contract as the project develops depending on the type of traffic calming measures selected. Staff will carefully consider how traffic calming measures on one street will affect adjacent streets and the neighborhood. Additionally, staff will consider the following factors when determining the project area:

- Bike Routes
- Schools
- Access to Arterial Streets
- Parks
- Other Pedestrian Generators
- Adjacent Street Vehicle Speed and Volume

Additional information on Project Areas is given in the Policy Statements section of the Friendly Neighborhood Streets Program.





DETAILED TRAFFIC CALMING PROCESS

Step 3: Traffic Studies Conducted

Staff will review historical traffic data within the project area. If recent traffic data is not available, updated traffic studies will be required to determine existing traffic conditions in the neighborhood. This will be required for most streets as the Village Wide Studies, where a large portion of our traffic data comes from, were conducted from 2007 through 2010.

Traffic studies include installing pneumatic tube traffic counters at strategic locations within the project area to collect speed and volume data of vehicles. Staff may also conduct separate pedestrian and bicycle counts as required to develop a complete picture of how the existing project area is functioning. Crash reports will also be reviewed to get an accurate crash history of the project area.

A limited number of counters and other projects requiring traffic counts may delay traffic studies, especially in the summer months. For resident-initiated projects, the petitioner will be notified of any delays in collecting traffic data. Traffic studies cannot be conducted in the fall during leaf removal operations or in winter due to snow events.





DETAILED TRAFFIC CALMING PROCESS

Step 4: Eligibility Determined

After the traffic studies are completed, the results will be compared to the Minimum Criteria as outlined in Exhibit A. If the project is eligible, it will move on to Step 5.

If a project is not eligible for traffic calming, the Engineering Division will consider less intrusive solutions such as:

- Education Resources
- Selective Speed Limit / Intersection Traffic Control Enforcement
- Use of Speed Display Trailer
- Use of Police Department Drone Vehicle
- Improving Sight Distance at Intersections
- Additional Signing, Striping or Pavement Markings

Petitioners for ineligible projects will be notified of other measures the Engineering Division will be taking. This will conclude the traffic calming process for the project.

Step 5: Project Prioritization

Eligible projects will have their prioritization score calculated to determine when the Engineering Division will be able to address the issue. The Project Prioritization Worksheet is shown in Exhibit B. If there is a backlog and staff is unable to address the project immediately, the resident representative will be informed. Projects with the highest scores will be addressed first.

A project can go through the traffic calming process without a funding guarantee. When funding becomes available, all approved projects will be ranked by their prioritization score and the highest scores will be constructed first, except for projects included in the Street Resurfacing Program. This allows the Village to address the highest ranked streets first.





DETAILED TRAFFIC CALMING PROCESS

Step 6: Initial Public Outreach

The Engineering Staff will select the highest priority project and send out the initial public outreach to continue with the traffic calming process. This initial outreach will provide a background of the project, introduce the Friendly Neighborhood Streets Program and request issues and current traffic conditions the neighborhood is looking to change.

Step 7: Plan Development

The Engineering Division will develop a draft plan to address the issues raised by the petitioners and identified in the initial public outreach or by the Engineering Division using a combination of measures taken from the Traffic Calming Toolbox (Appendix A). When developing the plan, special attention will be paid to safe routes to schools, bike routes, pedestrian generators and traffic patterns. Once the draft plan is complete, the Engineering Division will develop a temporary installation plan (as needed) to demonstrate the traffic calming measures to the public and solicit feedback. The plan and temporary measures will be reviewed internally and approved by the Village Engineer prior to installation. This may include temporary parking restrictions as necessary to demonstrate the project. The Engineering Division will add the project to the traffic calming page on the Village Website to keep the public informed.





DETAILED TRAFFIC CALMING PROCESS

Step 8: Second Public Outreach

Once the draft traffic calming plan is approved by the Village Engineer, the Engineering Division will reach out, via mail, to the residents and businesses within the identified project area with the following information:

- Update on the project's status
- Identified issues to be addressed by the project
- Proposed traffic calming measures
- Information on temporary traffic calming measures to be installed (as needed)
- Invitation to the on-site meeting to discuss the project and the temporary traffic calming measures
- Contact information and ways to provide feedback
- Next steps

Step 9: Temporary Traffic Calming Measures Installed (as needed)

Public Works will install temporary traffic calming measures if needed as developed in Step 6 to demonstrate the project and solicit feedback from the neighborhood. The temporary measures will most likely consist of cones, barricades, signs, and temporary pavement markings. Temporary measures will remain installed for at least two weeks and one weekend to ensure residents have an opportunity to experience the temporary traffic calming measures. Engineering Staff will also invite Public Works, Police, Fire Department and school representatives to drive and observe the temporary traffic calming measures and to provide feedback. The use of temporary traffic calming measure will be determined on a case-by-case basis.

Step 10: On-Site Meeting

Engineering Staff will hold a meeting during the second week of the temporary traffic calming installation to explain the project and solicit feedback.





DETAILED TRAFFIC CALMING PROCESS

Step 11: Plan Revisions

The Engineering Division will revise the plans based on feedback received at the on-site public meeting, from Public Works, Police, Fire Department and schools and any additional feedback sent to the Engineering Division. The outreach letter will include a way for residents to send in feedback if they are unable to attend the meeting. The revised plans will be reviewed and approved by both the Village Engineer and the Director of Public Works.

Once the final plans are approved, Engineering staff will prepare a presentation for the Transportation Safety Commission.

Step 12: Third Public Outreach and Balloting

The third public outreach will be mailed to all residents and businesses in the project area and will consist of:

- An overview of the project
- The revised plan
- An invitation to the Transportation Safety Commission meeting to discuss the issue
- A ballot to vote on the improvements

For balloting purposes, the following will apply:

- Single family properties count as one
- Single use properties (churches, businesses, schools, parks, etc.) count as one
- Each unit within small-scale multi-unit properties without a management company will count as one, and will be mailed individual ballots
- Each unit within large-scale multi-unit properties with a management company will count as one, but the ballots will be mailed to the management company for them to distribute to residents





DETAILED TRAFFIC CALMING PROCESS

Step 13: Transportation Safety Commission Meeting and Ballot Counts

Ballots will be tallied prior to the Transportation Safety Commission. The Engineering Division will determine the total number of ballots within the project area. If more than 50 percent of the total ballots possible are returned against the project, then it will be presented to the Transportation Safety Commission as the neighborhood is not in favor of the project. If 50 percent or less is returned against the project, no matter how many are returned in favor of the project, then it will be presented to the Transportation Safety Commission as the neighborhood is in favor of the project. The Village's policy is that traffic calming projects will improve a neighborhood's livability and safety. Therefore, there needs to be a demonstrated majority against the project to not recommend it. The default is that the neighborhood is in favor of the project.

The following will be presented to the Transportation Safety Commission for their consideration:

- Project History
- Summary of Project Development
- Proposed Design
- Summary of Feedback Received
- Results of Balloting





DETAILED TRAFFIC CALMING PROCESS

Step 13: Transportation Safety Commission Meeting and Ballot Counts – Continued

The Commission will discuss the project, ask questions of staff and listen to comments from residents present at the meeting.

The Commission can then act at their discretion, but staff will provide the following recommendations to the Commission based on the results of balloting:

1. If the neighborhood is in favor of the project, as outlined on the previous page, then the Commission will vote to
 - A. Approve the project as is
 - B. Approve the project with changes as directed by the Commission
 - C. Deny the project
2. If the neighborhood is not favor of the project, as outlined on the previous page, then the Commission will vote to
 - A. Have staff revise the project and re-ballot
 - B. Deny the project

If the project is not approved by the Transportation Safety Commission and there is not neighborhood support, then no further action will be taken on traffic calming in the project area for at least 5 years.

If the project is not approved by the Transportation Safety Commission and there is neighborhood support, it may be forwarded to the Village Board for final decision at the request of the resident representative. Otherwise, the project may be revisited in 2 years time with a new petition submittal from the neighborhood.

If the project is approved by the Transportation Safety Commission, then it will be forwarded on to the Village Board for approval.





DETAILED TRAFFIC CALMING PROCESS

Step 14: Village Board Approval and Bidding

Projects approved by the Transportation Safety Commission will be presented to the Village Board of Trustees. Residents within the project area will be notified of the meeting.

The Engineering Division will present the following to the Village Board for consideration:

- Project History
- Summary of Project Development
- Proposed Design
- Summary of Feedback Received
- Final Ballot Totals
- Summary of Transportation Safety Commission Meeting
- Transportation Safety Commission Recommendation

The Village Board can then discuss the project and will vote to:

- Approve the plan by simple majority
- Direct the Engineering Division to make revisions and bring the plan back for further discussion
- Deny the plan
- Take other action as it deems appropriate

Should a plan be approved, final construction drawings will be developed, and the project will be scheduled for construction once funds are allocated by the Village.

Should a plan ultimately be denied by the Village Board of Trustees, less intrusive education, enforcement, and engineering measures will be considered as described in the Program. If there is neighborhood support for the project, a new petition can be submitted to start the traffic calming process at least 2 years after the Village Board decision.





DETAILED TRAFFIC CALMING PROCESS

Post Project

At such time the Engineering Division determines reasonable after completion of the project, a post-study will be performed to determine its effectiveness and to determine if any additional action is necessary. The findings will be included in a report to the Village Board of Trustees, Transportation Safety Commission and appropriate Staff. Interested residents within the Project Area will be notified via e-mail and the report will be posted on the project web page.





III – POLICY STATEMENTS

The below Policy Statements form the basis of the Friendly Neighborhood Streets Program. They are described on the following pages.

- Speed
- Residential Focus
- Addressing Vehicle Design
- Schools
- Biking
- Pedestrians
- Education and Enforcement
- Minimum Criteria
- Project Areas
- Project Initiation
- Project Prioritization
- Traffic Calming Measures
- On-Street Parking
- Emergency Response
- Maintenance
- Funding
- Removal





SPEED

Policy Statements

Speed is the primary factor when it comes to survivability of pedestrians in collisions. The below chart shows survivability percentages based on vehicle speeds. This is the primary reason the Friendly Neighborhood Streets Program exists, to increase safety and livability of our neighborhood streets by reducing speeds of vehicles. All items in the Program work together to reduce vehicle speed.



Vehicle Speed comparison to chance of Pedestrian Injury and Fatality
Data source: US Department of Transportation, Literature Reviewed on
Vehicle Travel Speeds and Pedestrian Injuries. March 2000.

Image credit: San Francisco MTA Vision Zero Action Plan,
February 2015: <https://view.joomag.com/vision-zero-san-francisco/0685197001423594455?short>





RESIDENTIAL FOCUS

Policy Statements

- Traffic calming measures will only be considered on residential streets
- Residents and business owners will be encouraged to participate in the identification of the traffic issues as well as development of the solution
- At least 10 signatures or 30% of the total number of dwelling units and commercial spaces in the initial project area, whichever is greater, are required to initiate the traffic calming process. Once criteria are met for the program, a negative response from at least 51% of the properties along the qualifying street is needed to reject the traffic calming measures

The Friendly Neighborhood Streets Program is focused on residential areas only. Local residential and collector streets will be considered in this program. Arterial streets are specifically excluded from this program. Other means and resources will be used to address issues on arterial streets.

Neighborhood participation is important to develop a consensus of the issues that adversely affect the neighborhood, evaluate the pros and cons of the various traffic calming measures, and ensure that the issues are adequately addressed. It is essential to consider a wide range of perspectives and observations in addition to engineering data. The program is designed so that residents can become actively involved in defining the problem(s) and in the decision-making process to have a sense of ownership in the outcome.

Neighborhood participation begins with a petitioner gathering at least 10 signatures or 30% of the total number of dwelling units and commercial spaces in the initial project area, whichever is greater, on the initial request for traffic calming on the street or at an intersection. This is followed by mailings to each resident and on-site meetings. It is shown that traffic calming measures slow drivers and improve safety on streets, a Village priority. Therefore, the balloting process to approve the final design will treat a non-response as a vote for the traffic calming measures. If the street or neighborhood is against the project, they will be required to achieve at least 51% of the votes. The limits of the petition area will be determined by the Engineering Division. This is further explained in the Traffic Calming Process section.





RESIDENTIAL FOCUS

Policy Statements

The projects are funded by the Village; there will not be a direct monetary requirement for the residents.

The following Village owned streets are not included in the Friendly Neighborhood Streets Program due to not meeting the residential focus. These streets are shown in gray on the maps in exhibits and appendices:

- Addison Court
- Biermann Court
- Bishop Court
- Business Center Drive
- Carboy Road
- Central Road (Rand Road to Wolf Road)
- Feehanville Drive
- Imperial Court
- Kenneth Drive
- Kingston Court
- Lakeview Court
- LaSalle Street
- Linneman Road (Algonquin Road to Dempster Street)
- Malmo Road
- Midway Drive
- Nordic Road
- Schoenbeck Road
- Slawin Court
- Wall Street
- Wheeling Road (Kensington Road to Business Center Drive)
- Wolf Road





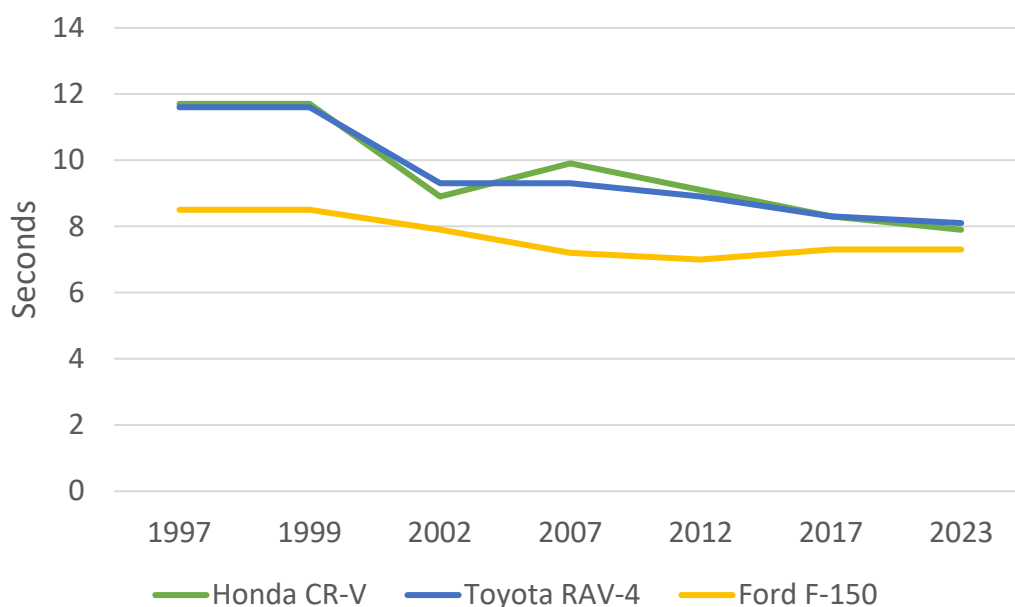
ADDRESSING VEHICLE DESIGN

Policy Statements

- Vehicles have gotten bigger, faster, and heavier in recent years increasing risks toward pedestrian and bicyclist safety
- This shows a need for a change in infrastructure to force vehicles to slow down and drive a safer speed in neighborhoods

In general, vehicles will drive at a speed they are comfortable regardless of the posted speed limit. Many of the Village's neighborhood streets are wide and straight with limited utilization of on street parking. These long, open sight lines encourage speeding. Modern vehicles are quicker, smoother and quieter for occupants than in the past, allowing drivers to travel at higher speeds more comfortably. By changing the physical infrastructure of the street, it becomes more uncomfortable to drive at high speeds, but comfortable at low speeds, reducing vehicle speeds on streets. Additionally, faster acceleration in newer vehicles allows them to reach higher speeds quicker after passing traffic control devices on neighborhood streets, necessitating multiple traffic calming measures to be installed on a street to calm traffic.

Vehicle Acceleration By Year(0-60 MPH)



Source: Motor Trend and Car and Driver Website Databases





ADDRESSING VEHICLE DESIGN

Policy Statements

Vehicle size and weight have increased. This leaves less room on streets for other users and reduced visibility from the vehicle. Additionally, consumers are generally switching to SUV's from cars. SUVs are more likely to injure or kill pedestrians compared to cars. Dedicated spaces for bicyclists and pedestrians on streets are required to address the increase in vehicle sizes.



Toyota RAV4

1994-2000

147.2L × 66.7W × 64.8H
86.6WB



Toyota RAV4

2018-present

179.9L × 73W × 65.4H
105.9WB

34% larger

SUVs are twice as likely as cars to kill pedestrians in an accident.

Source: <https://www.thezebra.com/resources/driving/average-car-size/>





ADDRESSING VEHICLE DESIGN

Policy Statements

The adoption of electric vehicles will only heighten these issues. Electric cars are faster, quieter and heavier than their internal combustion counterparts. The Friendly Neighborhood Streets Program is designed to address safety issues that modern cars pose to pedestrians and other street users through infrastructure changes.

By making streets less comfortable to drive at high speeds, vehicles will slow down regardless of the posted speed limits. They will also pay attention to their surroundings more when the street design is not uniform for long stretches.

These large vehicles may be safer for the occupants, but as demonstrated in numerous studies, they are less safe for anyone outside of them, including in other vehicles.





SCHOOLS

Policy Statements

- Areas around schools deserve special attention to facilitate alternative forms of transportation to get to and from schools
- In recent years, there has been anecdotal evidence showing an increase of parents driving their children to and from school instead of walking, biking or taking the bus leading to traffic and safety issues at schools

Traffic issues have been increasing around schools in recent years. This, combined with larger vehicles being used to transport children to and from school, has led to increased safety issues. Traffic calming projects can be used to slow vehicles and promote alternative modes of transportation by making the streets friendlier for everyone. Safety increases as the number of personal vehicles transporting children to and from school decreases.

The importance of keeping children safe is why projects near schools will get additional points in the project prioritization worksheet. All projects will take into consideration how residents get to and from school and related activities.

If a traffic calming project is initiated near a school, the Engineering Division will work directly with the school throughout the process to ensure a successful project. If a school reaches out directly to the Village on traffic issues, the Village may elect to initiate a traffic calming project through the Village initiated process without a petition required. If traffic calming, as described in the program, is not appropriate, or the street is not eligible, the Village will work directly with the school and residents to develop solutions to the issues outside of the Friendly Neighborhood Streets Program.

An addendum will be issued to this Program in the future detailing safe routes to school options for all schools within the Village. As part of the addendum, appropriate traffic calming measures will be proposed to increase safety for each school.

Safe Routes to Schools funding can also be used for these projects, something the Village will pursue as appropriate. The use of this funding will require extended project timelines due to it being a federal funding source.





BIKING

Policy Statements

- Increasing use of alternative forms of transportation is a priority for the Village
- The Village has an established signed on-street bike network, however there is little difference in street design, except for sharrows and marked bike/parking lanes on a few routes. The infrastructure of the street should alert drivers that they are sharing the street with bicyclists instead of just signage

Traffic calming projects will consider accommodations for cyclists throughout project development. For projects on existing on-street bike routes, bicycle design and safety will be a priority. For these routes, traffic calming should be designed to get vehicles and bicyclists to travel as close to the same speed as possible, increasing safety for all users. If a traffic calming project is on a bike route, consideration should be given to expand the project area if additional bike infrastructure may be appropriate.

Additionally, special considerations should be made where a bike route crosses a traffic calming project. Signage and pavement markings through intersections can alert drivers that bikes may be crossing. Mini-traffic circles can slow down vehicles through intersections without requiring a change in traffic control, making intersections safer for bicyclists.

To support biking, the Village is currently developing a plan to construct bicycle facilities along arterial streets within the Village, connecting to the existing neighborhood bike network. Additionally, the Village may be updating design guidance for the Phase I network (neighborhood streets) in the future to increase the comfort and safety of biking in the Village.





PEDESTRIANS

Policy Statements

- Pedestrians are vulnerable street users; special considerations will be made for them on all traffic calming projects
- The presence of pedestrians on streets can be enough for drivers to pay more attention while driving, therefore the Friendly Neighborhood Streets Program includes benches to make the streets friendlier to pedestrians

All traffic calming projects will consider the immediately adjacent pedestrian network. Traffic calming measures will be designed to increase the safety of pedestrians by reducing crossing widths, providing refuge islands, and increasing visibility for pedestrians.

The presence of pedestrians along a street causes drivers to pay attention to their surroundings. The Friendly Neighborhood Streets Program will look to add public benches in downtown areas and adjacent to large pedestrian generators. These benches will be maintained by the Village and installed in Village right-of-way only.





EDUCATION AND ENFORCEMENT

Policy Statements

- Education, enforcement and inexpensive engineering solutions are to be considered prior to approval of any traffic calming measures

Traffic calming measures physically alter the street and are considered permanent changes that will impact the behavior of motorists. These dramatic changes should only be considered after consideration of less costly options.

Education provides the opportunity for the Engineering Division and Police Department to communicate their perspective to residents. The advantages and disadvantages of traffic calming measures, the purpose of traffic control devices (stop signs and turn restrictions), and the true extent of a problem based on collected data can be shared with residents to make them better informed. This can be accomplished through telephone conversations, neighborhood and beat meetings, open houses, brochures, the Village web site and newspaper media. In addition, employing education tools will allow residents to get involved in easing traffic concerns. One example is the placement of yard signs (Keep Kids Alive – Drive 25 campaign) in neighborhoods by residents in collaboration with the Police Department.

Enforcement relies on the Police Department to be a presence in neighborhoods and enforce existing speed limit and traffic control ordinances. In addition to selective enforcement, the Police Department also will utilize the speed display trailer and drone vehicles to ease traffic concerns.

Enforcement generally impacts traffic speeds for a short period of time, eventually speeds return to the speed before enforcement, this is the speed drivers are comfortable with on the street. Enforcement can be more effective when enforcing traffic control devices.

Inexpensive engineering measures such as additional signage, striping and pavement markings will also be considered before approving traffic calming measures.





MINIMUM CRITERIA

Policy Statements

- For a street to begin the traffic calming process, a minimum petition of 10 residents or 30% of the total number of dwelling units and commercial spaces in the initial project area, whichever is greater, must be turned in with the request
- To continue with the traffic calming process, minimum traffic volume, speed or crash criteria as recorded in a traffic study are to be met

The Engineering Division receives requests on a regular basis for traffic calming measures. The primary complaints involve speeding vehicles or a high volume of vehicles relative to the street type. The extent of a problem on one street will be different than another street. Therefore, it is important to develop thresholds for streets to qualify for traffic calming measures. Otherwise, traffic calming measures could be installed on streets where there would be minimal effect on traffic speed and volume.

Neighborhood support is also important, that is why a petition of a minimum of 10 residents or 30% of the total number of dwelling units and commercial spaces in the initial project area, whichever is greater, is required to start the traffic calming process for a resident-initiated project.

Once there is demonstrated neighborhood support for the project, the minimum criteria for traffic volumes, speed or crashes will need to be met to qualify for traffic calming.

Without these limits and requirements for neighborhood support, there would be an inefficiency in Staff resources and Village expenditures. Since traffic calming measures directly impact vehicular speed and volume, minimum speed or volume criteria will need to be met for a project area to qualify for traffic calming measures. The only exception will be if the street has a recent history of crashes atypical for a neighborhood street and traffic calming measures would be the appropriate solution. The specifics of the minimum criteria are explained in Exhibit A.





PROJECT AREAS

Policy Statements

- The traffic data collected from the Neighborhood Traffic Study and separate individual traffic studies completed over the last 20 years will serve as the primary source to identify streets that potentially qualify for traffic calming measures
- The type and level of the traffic issue(s) along with street characteristics will help determine the appropriate traffic calming measures
- Traffic calming projects are intended to minimize diverted traffic to other local residential or collector streets
- A project area, the limits of potential significant impact should construction of traffic calming measures take place on the qualifying street, will be created for each potential traffic calming project

Traffic calming measures on one street can have an impact on surrounding streets. A noticeable increase in vehicular volume or speed on an adjacent street may arise when one street is the sole focus of a project. In developing a solution for one issue, it is important not to shift the issue to an adjacent street or neighborhood. Neighborhood street classifications and their respective functions are to be maintained.

To address this concern, the Engineering Division will create a project area after a petition is received for traffic calming measures on a particular street. The boundaries of the project area will be the limits of potential significant impact should construction of traffic calming measures take place on the qualifying street. In some cases, the project area will be limited to the qualifying street in question whereas in other cases it will include adjacent streets. The project area may include streets that do not currently qualify for traffic calming but would be impacted by traffic calming measures on an adjacent street. However, a project area does not necessarily include the entire neighborhood allowing for the possibility of multiple project areas within a neighborhood.

If a traffic calming projects takes place on a neighborhood bike route, the project area may be extended to include logical termini for the bike route.





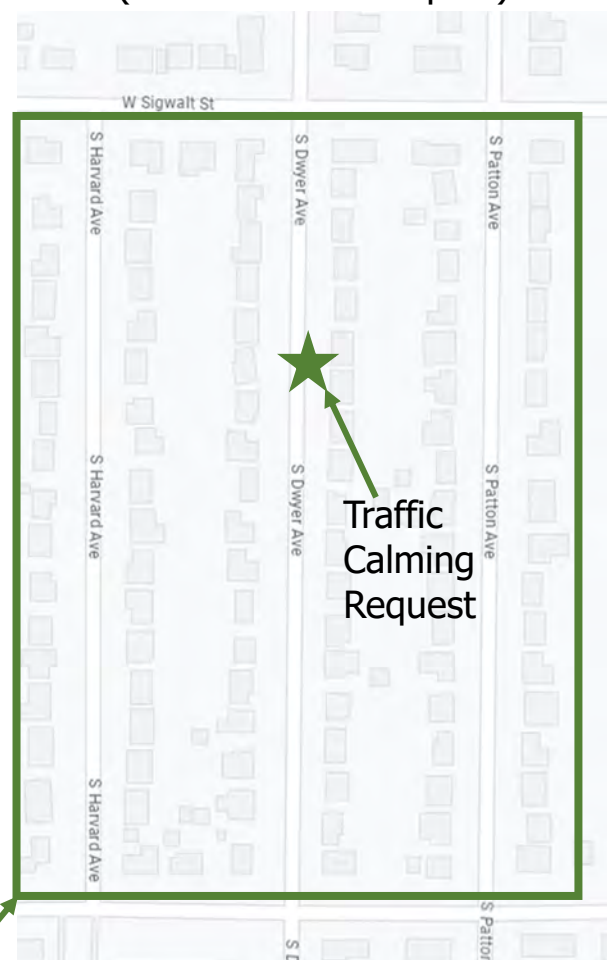
PROJECT AREAS

Policy Statements

The Village was segmented into eighteen (18) neighborhood zones as part of the Neighborhood Traffic Study, a program that reviewed the traffic control at all neighborhood intersections and speed limits on all neighborhood streets. Each neighborhood was reviewed as a whole rather than analyzing each intersection or street independently. By having a big picture focus, the Engineering Division was able to consider the potential impact throughout the neighborhood. A product of the study was the collection of extensive vehicular volume and speed, pedestrian and intersection data.

Both the traffic data collected from and the approach to the Neighborhood Traffic Study are key aspects of the Friendly Neighborhood Streets Program. The Village has a data base of over 2000 individual traffic counts with speed data that will be the primary source to be able to identify streets with traffic conditions above the norm and that qualify for traffic calming measures. The Engineering Division will perform a traffic study if needed to confirm the data in the database. The type and level of the issue(s) can be assessed and a project area more quickly created. Further, potential traffic calming measures can begin to be discussed based on the traffic data and street characteristics.

Project Area Example (Not in Mount Prospect)



Project Area determined
by Engineering Division





PROJECT INITIATION

Policy Statements

- Resident-initiated and Village-initiated processes have been developed to pursue traffic calming projects
- The Engineering Division will evaluate all streets included in the annual Street Resurfacing Program for traffic calming eligibility. If eligible, they will follow the same traffic calming process as other projects

There are many residential streets throughout the Village that potentially qualify for traffic calming measures. The Village does not have the resources to addresses all these issues at once. Therefore, the Village has developed the resident-initiated process to allow residents to reach out to the Village to help prioritize projects. This helps to prevent the Village from spending resources on projects that neighborhoods may not want.

The resident-initiated process allows the neighborhood to reach out to the Engineering Division when it believes conditions have reached a level for pursuing traffic calming measures. This process provides a sense of ownership to improve the livability in the neighborhood. Once this process is initiated, the Engineering Division will partner with residents to develop a traffic calming project. The petition form to initiate the process is in Exhibit C.

The Village-initiated process allows the Engineering Division to pursue traffic calming measures when a hazardous condition is clearly evident. A high crash rate, recorded speeds well above a typical residential street, and recorded volumes excessive for the street classification are examples. The process will permit the Engineering Division to bypass the petition process but still allows for resident involvement in the plan development phase.

Finally, the Engineering Division will evaluate all streets included in the annual Street Resurfacing Program. If a street is identified as a potential traffic calming project through this program, it will follow the Village-initiated process, bypassing the petition process but allowing for resident involvement in the plan development phase.





PROJECT PRIORITIZATION

Policy Statements

- Traffic calming projects will be prioritized based on the extent of the problem

The need to prioritize projects arises when the demand for traffic calming measures exceeds Village resources. This includes Staff time to work on a project as well as construction funding. A common approach to efficiently utilize Village resources is to prioritize projects so that neighborhoods with the greater problems are addressed first.

The following factors will be used to priorities projects:

- Vehicle Speed
- Vehicle Volume
- Crash History
- School Locations
- Other Pedestrian Generators
- Bike Routes
- Sidewalk Availability

Should the Engineering Division receive multiple requests for traffic calming projects, the Engineering Division will prioritize them utilizing the Project Prioritization Worksheet located in Exhibit B. The one street within the Project Area that receives the most points will represent the Project Area during the prioritization review.





TRAFFIC CALMING MEASURES

Policy Statements

- Non-Physical Measures include education, enforcement, signing and striping. These are generally the least expensive and have the least impact on residents
- Vehicular Measures can either maintain traffic volume or change it
 - Horizontal deflection, constriction and textured pavements maintain traffic volume
 - Turn restrictions, diverters, intersection median barriers and street closures change traffic volume
- Pedestrian Safety Measures include curb extensions, pedestrian refuge islands and raised crosswalks
- Bicycle Safety Measure include advisory bike lanes, counterflow bike lanes, traditional bike lanes, buffered or protected bike lanes, bike signage and striping at intersections and protected intersections
- Unwarranted stop signs and vertical deflection (speed humps), except for raised crosswalks, are not to be used as part of the program

Details about traffic calming measures appropriate or inappropriate for the Friendly Neighborhood Streets Program are detailed in the Traffic Calming Toolbox included in Appendix A. Below provides a brief introduction to the traffic calming measures.

Each traffic calming measure can have a different effect on motorists as well as bicyclists and pedestrians. It is important to understand how each traffic calming measure functions and the primary traffic issue each that one is intended to address. The identified traffic issue(s), collected traffic data, street classification, street geometrics, adjacent land use and cost are some of the factors that will be considered to determine the appropriate traffic calming measure(s) for each project.





TRAFFIC CALMING MEASURES

Policy Statements

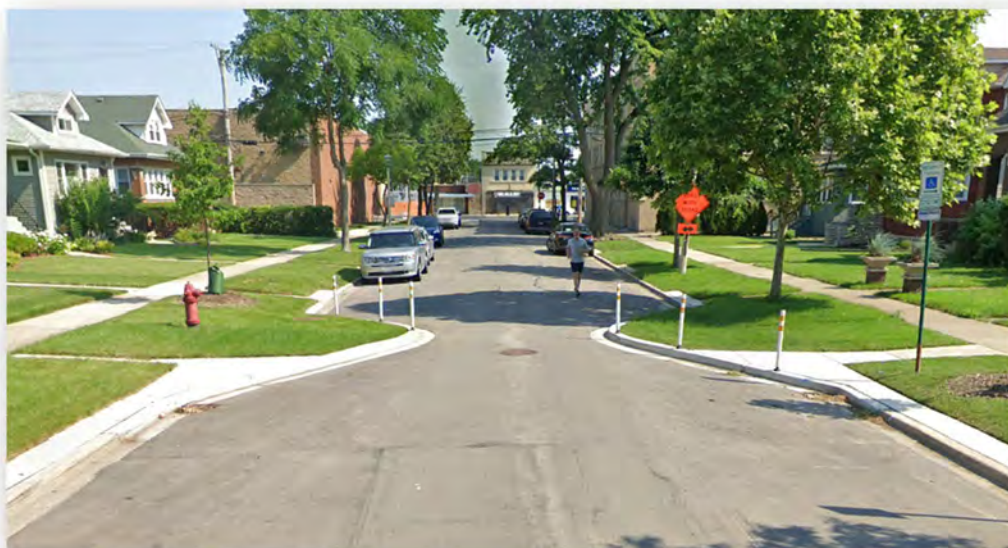
Non-Physical Measures: Education, Enforcement, Signing or Striping

Education and Enforcement require staff time to implement with no physical changes to the street. Police can conduct targeted enforcement based on traffic study results.

Signing and striping are used to reinforce existing traffic regulations on the street or to draw attention to specific locations, such as crosswalks. Speed feedback signs are among the most effective signage to reduce vehicle speeds without physically altering the street. Striping can be used to delineate on street parking to visually narrow the street to reduce speeds.

Vehicular Measures: Maintaining Traffic Volumes or Changing Traffic Volume

Measures targeting vehicles that maintain traffic volumes include horizontal deflection, constriction and textured pavement. Horizontal deflection can be mini traffic circles, concrete planters or chicanes. Constriction includes choke points, neckdowns and midblock medians. Textured pavement typically consists of brick pavers or textured asphalt. Except for textured pavement, these measures require removing some or all on street parking adjacent to the measures. There is a low impact on emergency vehicles.





TRAFFIC CALMING MEASURES

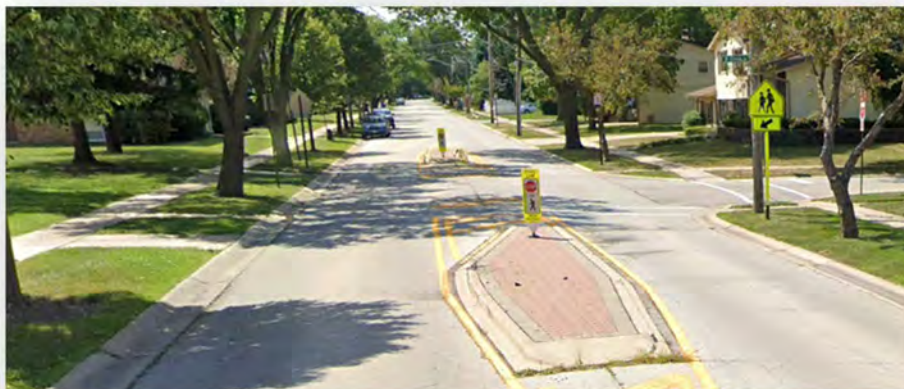
Policy Statements

Measures targeting vehicles that change traffic volume include turn restrictions, diverters, intersection median barriers and street closures. These measures alter the existing transportation circulation system. As a result, these measures can have impacts that would need to be evaluated in greater scope than just along one street. While they can be a viable solution to a individual street, it is important not to shift the problem to an adjacent street or neighborhood.

All vehicle measures need to be used in series to be effective over longer lengths of street. As such, they should be spaced every 250-400 feet. If there is too much space between measures, then vehicles may speed between them to “make up for lost time”. Vehicle measures are typically designed for a design speed of 10 to 15 MPH or as needed for the project.

Pedestrian Safety Measures: Curb Extensions, Raised Crosswalks, Pedestrian Refuge Island

These are installed near high pedestrian areas such as schools and parks. The purpose is to make it safer for pedestrians to cross the street. Curb extensions narrow the street at a key crossing point minimizing the distance and time a pedestrian is in the street. Raised crosswalks require vehicles to slow down going through a crosswalk. Pedestrian refuge islands provide a place of safety for pedestrians along the center of the street allowing them to cross one direction of traffic at a time. A secondary benefit of these measures is that they can slow traffic as vehicles pass the measure.





TRAFFIC CALMING MEASURES

Policy Statements

Bicycle Safety Measures: Advisory Bike Lanes, Counterflow Bike Lanes, Traditional Bike Lanes, Buffered or Protected Bike Lanes, Bike Signage and Striping at Intersection and Protected Intersections

The Village has an extensive network of signed neighborhood bike routes, but the design of these streets does not dramatically differ compared to other neighborhood streets. Traffic should be calmed on signed bike routes to bring vehicle speed down to levels that more match the speed of bicyclists to increase safety. Bike specific safety measures should be combined with other measures to slow traffic. The type and applicability of bike lanes that can be installed depends primarily on the available street width and use of on street parking. Intersection treatments can slow traffic and increase awareness for bicyclist where bike routes cross non-bike route streets, especially when the non-bike route street does not have traffic control. Overall, drivers should understand they are driving on a bike route where bikes have equal access to the street through the way the street is designed, not just through signs.

Calming traffic to promote bicycling and other alternative forms of transportation is in line with the Village's sustainability goals.





TRAFFIC CALMING MEASURES

Policy Statements

Inappropriate Measures: Stop Signs, Children at Play Signs, Speed Humps

Stop signs are not traffic calming measures. Traffic studies have shown there is little difference in vehicular speeds at the midblock whether there is or is not a stop sign at the adjacent intersection and in some cases the speeds are higher as motorists try to “make up for lost time” after the stop sign.

Inappropriate use of stop signs can also create significant negative impact to emergency vehicles. Emergency vehicles are required to verify that a stop-controlled intersection is clear of vehicles prior to entering.

Stop signs are traffic control devices that should be used when appropriate to assign right-of-way to conflicting traffic movements, not to calm traffic. Unwarranted stop signs can have a high violation rate, create disrespect at other stop-controlled intersections and create a false sense of security for other street users and pedestrians.

Children at Play Signs are commonly requested in neighborhoods. However, they are not standard traffic control devices and have not been found to be effective in improving safety for children. Village policy is to install the signs only adjacent to parks.

Speed Humps have previously been trialed in the Village and were removed after an evaluation period due to noise, maintenance issues and resident complaints. They were replaced with textured pavement and speed feedback signs that resulted in a similar traffic calming effect. There are currently no speed humps within Village right-of-way. Due to the above issues, the Engineering Division does not deem speed humps appropriate for the Friendly Neighborhood Streets Program.





ON-STREET PARKING

Policy Statements

On-street parking is present on almost all neighborhood streets. This provides convenient access to homes for residents, but there is typically an ample supply of on-street parking on residential streets. Low use rates of on-street parking effectively widens the street encouraging speeding. The Village does not allow overnight parking on its streets.

Cars parked on both sides of the street requires drivers to slow down to navigate around them and oncoming drivers. Most Village streets are not wide enough to accommodate two-way traffic and parking on both sides of the street. The Friendly Neighborhood Streets Program is looking to permanently replicate the effect that utilized on-street parking has on traffic calming. This may be done by replacing some on street parking spots with permeant traffic calming measures or by eliminating some on-street parking as appropriate for bike facilities. Dedicated bike facilities will visually narrow the street for vehicles, and in the case of protected bicycle facilities, will physically narrow the street for vehicles.

Engineering Staff will preserve on street parking where possible when designing traffic calming measures or bike accommodations. On street parking will remain on at least one side of the street except directly adjacent to traffic calming measures. Locations of fire hydrants, crosswalks, intersections and driveways will all be considered when designating or removing on street parking.

The 2018 Downtown Parking Study, where on street parking is most used in the Village, showed a maximum parking utilization of less than 50 percent. Even when there is the highest demand for parking downtown, over 50 percent of the parking spots are open. While studies have not been done, utilization rates of on street parking outside of the downtown core are less than the downtown utilization due to the density of development.

Special care will be considered where on street parking has high utilization due to adjacent facilities such as parks, churches, schools, commercial businesses or multi-unit buildings.





EMERGENCY RESPONSE

Policy Statements

- Traffic calming measures shall be designed to minimize the impact on emergency vehicle response times
- The Fire Department and Police Department shall be involved in the process and be given the opportunity to provide input prior to approval of any traffic calming measures

A critical concern about the use of traffic calming measures is the delay they may create for fire engines, ambulances and law enforcement vehicles. It is important to be aware of the trade-offs when making decisions about the use of traffic calming devices. The more aggressive measures for slowing traffic will slow emergency response as well.

Recognizing the importance of emergency response time, all traffic calming measures will be designed to minimize the impact on emergency vehicles. Since many collector streets are considered primary emergency vehicle response routes, particular attention must be paid to the types of measures used on collector streets. Measures that considerably interfere with emergency vehicle operations on collector streets or other primary emergency vehicle response routes will not be allowed. A map identifying the Village's primary emergency vehicle response routes is Exhibit H.





MAINTENANCE

Policy Statements

- Traffic calming measures shall be designed to minimize the impact on maintenance activities such as street sweeping, leaf pick-up and snow plowing
- The Public Works Department shall be involved in the process and be given the opportunity to provide input prior to approval of any traffic calming measures.

Many traffic calming measures alter the geometry of the street. Poorly designed measures could interfere with maintenance activities such as street sweeping, leaf pick-up and snow plowing. This could have a negative effect on the appearance of the neighborhood and the residents' quality of life.





FUNDING

Policy Statements

- Residents and business owners within a project area will not be required to directly fund any portion of a traffic calming project or future maintenance of such measures. All costs will be paid for by the Village.

The Village's Traffic Improvement Account will be the primary source to fund traffic calming projects. Grant resources such as Safe Route to Schools and the Illinois Transportation Enhancement Program will also be explored to offset Village costs. All costs associated with traffic calming projects will be paid for by the Village. Residents and businesses will not be required to directly share in the costs. Such funding is subject to availability.

Administration costs including Village Staff time to collect and analyze data, prioritize requests, conduct neighborhood meetings, develop engineering drawings detailing the traffic calming measures, and perform any post-studies after construction will be covered under the normal operating budget and will not be the responsibility of residents or businesses to fund. If a project goes to construction, the Village will cover the costs of the bidding process, construction inspection and project management. All construction costs will also be paid for by the Village.

Maintenance of the traffic calming measures will be necessary on a regular basis after construction. The Village will be responsible for maintenance such as replacing damaged signs, refreshing striping and pavement markings, pavement repair and landscaping. Maintenance of the traffic calming measures will be done at no direct cost to residents or businesses.





REMOVAL

Policy Statements

- Traffic calming measures shall remain in-place for a minimum of one year before being considered for removal.
- Removal of a traffic calming measure installed via the resident-initiated process shall require a positive response from at least 66% of the affected properties within the project area and approval by the Village Board of Trustees.
- Removal of a traffic calming measure installed via the Village-initiated or street resurfacing process shall only be initiated by the Village and must be approved by the Village Board of Trustees.

For consideration to remove traffic calming measures from an individual street or entire project area that were installed via the resident-initiated process, a petition must be submitted to the Engineering Division. If the request is for an individual street that did not originally qualify for traffic calming measures when evaluated independently, the petition must be signed by at least 66% of the properties along the street in question. If the request is for an individual street that did originally qualify for traffic calming measures or is for an entire project area, the petition must be signed by at least 66% of the properties within the project area. A petition cannot be submitted for at least one year after installation of traffic calming measures to avoid a premature reaction to their effectiveness.

Should the Engineering Division receive a petition, a neighborhood meeting will be held to discuss the issues and impacts of removal of the traffic calming measures. As part of the discussion, residents and businesses will be presented the latest traffic data to understand the effectiveness of the existing traffic calming measures. They will also be informed that any costs associated with removing the traffic calming measures will be paid for by the Village. The Engineering Division will then send a ballot to the affected properties within the project area detailing the removal request.





REMOVAL

Policy Statements

A deadline for return will be shown on the ballot. In order to proceed with removal of the traffic calming measures, a positive response from at least 66% of the properties involved must be received by the deadline. No response or a late response will be counted as opposition to the removal. Should there be sufficient support to remove the traffic calming measures, the Village Board of Trustees will be advised and requested to make a final decision based on a simple majority vote. Removal of the traffic calming measures will not take place unless the Village Board of Trustees approves the removal and until funds are allocated by the Village.

Like the petition process, for balloting purposes, the following will apply:

- Single family properties count as one
- Single use properties (churches, businesses, schools, parks, etc.) count as one
- Each unit within small-scale multi-unit properties without a management company will count as one, and will be mailed individual ballots
- Each unit within large-scale multi-unit properties with a management company will count as one, but the ballots will be mailed to the management company for them to distribute to residents

For traffic calming measures installed via the Village-initiated process, only the Village can initiate the process for removal. Typically, the Village will initiate the removal process should the street be altered, adjacent land use change, or other situations arise where it is determined the traffic calming measures are no longer effective or necessary. A traffic study must support the recommendation to remove such traffic calming measures. After a neighborhood meeting, a survey will be sent to the project area soliciting feedback. Resident comments will be forwarded to the Village Board of Trustees and considered before they make a final decision based on a simple majority vote.





IV - REFERENCES

This section includes references for information presented in the Friendly Neighborhood Streets Program and its exhibits and appendices.

Traffic Calming Toolbox:

NACTO (National Association of City Transportation Officials) Urban Street Design Guide – Speed Reduction Mechanisms

Note: “Urban” street design also includes suburban communities, the “Urban” designation differentiates the design guide from rural communities.

<https://nacto.org/publication/urban-street-design-guide/design-controls/design-speed/speed-reduction-mechanisms/>

Chicago Department of Transportation Tool’s for Safer Streets Guide – 2013

<https://www.chicago.gov/content/dam/city/depts/cdot/street/general/ToolsforSaferStreetsGuide.pdf>

Chicago Department of Transportation Complete Streets Design Guidelines – 2013

<https://www.chicago.gov/content/dam/city/depts/cdot/Complete%20Streets/CompleteStreetsGuidelines.pdf>

FHWA (Federal Highway Administration) Traffic Calming ePrimer

<https://highways.dot.gov/safety/speed-management/traffic-calming-eprimer>

ITE (Institute of Transportation Engineers) Journal Article on Advisory Bike Lanes – December 2009

https://staging.nextbook.com/ygsreprints/ITE/ITE_December2019/stage.php?startid=11#/p/44

Portland Slow Streets Initiative – Concrete Planters

<https://www.portland.gov/transportation/news/2021/7/29/pbots-slow-streets-program-moves-ahead-permanent-installations>





Bench Program:

San Francisco Public Bench Project

<https://publicbenchproject.wordpress.com/get-your-bench/>

Speed:

Scholarly Article on Affect of 20 MPH Speed Limit on streets in Bristol, UK

<https://injuryprevention.bmj.com/content/26/1/85>

IIHS (Insurance Institute for Highway Safety)

<https://www.thedrive.com/news/lowering-speed-limits-can-make-roads-safer-after-all-iihs>

Denver 20 MPH Speed Limit Program

<https://www.denvergov.org/Government/Citywide-Programs-and-Initiatives/Vision-Zero/Speed-Limits>

ITE (Institute of Transportation Engineers) Speed as a Safety Problem

<https://www.ite.org/technical-resources/topics/speed-management-for-safety/speed-as-a-safety-problem/>





Example Traffic Calming Programs:

Village of Oak Park, IL

<https://www.oak-park.us/village-services/public-works/addressing-neighborhood-traffic-issues>

City of Raleigh, North Carolina

<https://raleighnc.gov/transit-streets-and-sidewalks/traffic-calming-project-process>

Ann Arbor, Michigan

<https://www.a2gov.org/departments/engineering/traffic/traffic-calming/Pages/default.aspx>

<https://storymaps.arcgis.com/stories/d420834d8c4948cc92273500d1092298>

Village of Naperville, IL Traffic Calming Toolkit

<https://www.naperville.il.us/globalassets/media/projects/ted-business-group/traffic-calming-toolkit-final.pdf>

Safety

Governors Highway Safety Association

<https://www.ghsa.org/sites/default/files/2022-05/Pedestrian%20Traffic%20Fatalities%20by%20State%20-%202021%20Preliminary%20Data%20%28January-December%29.pdf>

IHHS.org

SUVs, other large vehicles often hit pedestrians while turning

<https://www.iihs.org/news/detail/suvs-other-large-vehicles-often-hit-pedestrians-while-turning>

Miscellaneous

Ann Arbor Traffic Calming Changes

<https://www.mlive.com/news/ann-arbor/2023/09/aiming-to-slow-cars-ann-arbor-taking-steps-to-improve-traffic-calming-program.html>





Exhibit A

Minimum Criteria





MINIMUM CRITERIA

The Engineering Division collected extensive vehicular volume and speed data including average daily traffic, peak hour volume, average speeds and 85th percentile speeds on most neighborhood streets as part of the Neighborhood Traffic Study from 2007 to 2010. Unless additional studies have been conducted on a particular street, updated traffic data will most likely be necessary before determining if a street qualifies for traffic calming measures due to the time since the Neighborhood Traffic Studies were completed.

For a street to qualify for traffic calming measures at least one of the criteria thresholds below must be met.

Speed:

- The average speed is at least **3 MPH** above the speed limit
- The 85th percentile speed is at least **7 MPH** above the speed limit

Note: School Zone Speed Limits can be used only where signed and when enhancing pedestrian safety is a primary goal

These speed limits are lower than the previous traffic calming program to make more streets eligible for traffic calming measures and to better account for outlier neighborhood traffic speeds effecting traffic studies. Slow speeds due to deliveries, garbage trucks, mail or residents accessing their driveways near traffic counters can lower the overall speeds recorded by the study.

Volume:

- The average daily traffic is at least 1000 vehicles
- The peak hour volume is at least 120 vehicles

The traffic volume limits are meant to address cut through traffic on neighborhood streets. This typically happens on non-collector streets adjacent to arterial roadways. Volume criteria does not apply to collector streets except adjacent to high pedestrian generators.





MINIMUM CRITERIA

Should an individual street qualify for traffic calming measures, the Engineering Division will also identify any surrounding streets that may be significantly impacted by traffic calming measures on the street in question. The selected surrounding streets may not meet the minimum criteria but could be adversely impacted if not considered in the development of a traffic calming project. The boundaries of potential significant impact will define the project area.

The only exception to meeting any of the criteria thresholds is if the street has a recent history of crashes atypical for a neighborhood street and traffic calming measures are the appropriate solution. Should the Engineering Division identify a high crash rate for the street, the Engineering Division has the discretion to initiate a traffic calming project even if none of the vehicular volume or speed criteria are met. In analyzing the crash reports for a street with a recent history of crashes, the Engineering Division will first consider less intrusive education, enforcement and engineering measures. If it is determined traffic calming measures are the appropriate solution, the project will continue with the traffic calming process.

Definitions

These definitions pertain to the criteria thresholds described above and apply to an engineering traffic study typically lasting between 48 and 72 hours.

Average Speed – The mean speed, in miles per hour, of all vehicles during the traffic study. It is typically measured at the midblock of the street.

85th Percentile Speed – The speed, in miles per hour, at which 85% of all vehicles during the traffic study are traveling at or below. It is typically measured at the midblock of the street and represents the basis for establishing the speed limit.

Average Daily Traffic – The number of vehicles, measured in both directions, passing a point along the street during a 24-hour period. It is calculated by dividing the total number of recorded vehicles by the number of days in the traffic study.

Peak Hour Volume – The highest number of vehicles, measured in both directions, passing a point along the street during any 1-hour period during the traffic study.





Exhibit B

Project Prioritization Worksheet





Project Prioritization Worksheet

Location: _____ Date of Petition: _____ Date of Review: _____

Speed Factor – Speed Limit (MPH) _____

Points _____

Time Factor _____

Points: _____

Average Speed (mph) Above Speed Limit	or (Whichever is Higher)	85th Percentile Speed Above Speed Limit	Points
3		5	2
4		6	4
5		7	6
6		8	8
7 or More		9 or More	10 (Max)

Months Since Petition	Points
0 - 6	0
6 - 12	2
13 - 18	4
18 - 24	6
Over 24	10 (Max)

Volume Factor – Local Streets and Collector Streets Adjacent to Pedestrian Generators

Points: _____

Average Daily Traffic (Local)	Average Daily Traffic (Collector)	or (Whichever is Higher)	Peak Hour Volume (Local)	Peak Hour Volume (Collector)	Points
1000 - 1100	1000 - 1300		120 – 130	120 - 150	1
1101 - 1200	1301 - 1600		131 – 140	151 - 180	2
1201 - 1300	1601 - 1900		141 – 150	181 - 210	3
1301 - 1400	1901 - 2200		151 – 160	211 - 240	4
1401 - 1500	2201 - 2500		161 – 170	241 - 270	5
1501 - 1600	2501 - 2800		171 – 180	271 - 300	6
1601 - 1700	2801 - 3100		181 – 190	301 - 330	7
1701 - 1800	3101 - 3400		191 – 200	331 - 360	8
1801 - 1900	3401 - 3700		101 – 210	361 - 390	9
1901 and above	3701 and above		211 and above	391 and above	10 (Max)

Additional Factors (points determined by the Engineering Division)

Crash History		Pedestrian Generator		Schools		Sidewalk		Bike Route	
Average # of Annual Crashes (Past 3 Years)	Points	# of Affected Pedestrian Generators	Points	# of Affected Schools	Points	% of Street not having Sidewalk	Points	Bike Route Present?	Points
1	2	1	1	1	3	1 - 10	1	No	0
2	4	2	2	2	6	11 - 25	2	Yes	5
3	6	3	3	3	9	26 - 50	3		
4	8	4	4	4	12	51 - 75	4		
5 or More	10 (Max)	5 or More	5 (Max)	5 or More	15 (Max)	76 - 100	5 (Max)		

Points: _____

Total Points _____

Traffic Data

Average Speed: _____

Average Daily Traffic: _____

85th Percentile Speed: _____

Peak Hour Volume: _____





Exhibit C

Petition Form





Petition for Traffic Calming Measures

Date: _____

We, the undersigned, respectfully petition the Village of Mount Prospect to consider implementing traffic calming measures on the: _____ block of _____ or
At the intersection of _____ and _____ in
the Village of Mount Prospect.

Traffic problems to be remedied using traffic calming measures include:

- Excessive Vehicle Crashes _____
 - Excessive Vehicle Speeds _____
 - Excessive Vehicle Volumes _____
 - Pedestrian/Bicycle Safety Issues _____
 - Other _____
- (rank issues in order of
importance
with 1 being most problematic
and 5 being least problematic)

Primary Resident Contact (Person Project Updates will be Coordinated with):

Print Name	Signature	Address	Phone Number	Email
------------	-----------	---------	--------------	-------

1. _____

Petitioners' (a minimum of 9 petitioners, or 30% of the dwelling units and commercial spaces in the initial project area, whichever is greater, plus the primary contact are required):

Print Name	Signature	Address	Phone Number	Email
------------	-----------	---------	--------------	-------

2. _____

3. _____

4. _____

5. _____

ATTACH A LETTER EXPLAINING WHY THIS PETITION IS BEING SUBMITTED.



Signatures to the petition indicate support of traffic calming measures on the street or at the intersection listed above. This is not a commitment to construction, there will be further public outreach as plans are developed.

See reverse side for more information.

Page 1 of 3

Form Dated: 10/2023



Petition for Traffic Calming Measures

Additional Information

This petition should be signed by residents withing the immediate area where traffic calming measures are requested. Please reach out to the Engineering Division at Mount Prospect Public Works with any questions on determining an initial project area for petitions.

Return to: Engineering Division, Attention: Luke Foresman, PE, Mount Prospect Public Works, 1700 West Central Road, Mount Prospect IL, 60056.

This is the first step in the traffic calming process as part of the Friendly Neighborhood Streets Program. Information on the program can be found on the Village's website or a hard copy can be requested at Public Works.

For the petition, only one signature per property is allowed. Businesses count as one signature, as do churches or schools. For multi-family residences, each apartment or condo counts as one signature.

Upon receipt of the petition, the Engineering Division will review the petition for validity, then return with comments to the primary contact or will proceed with the traffic calming process.

The letter explaining why the petition is being submitted should include:

- Description of the problem(s)
- Time(s) of the day / day(s) of the week when the problem occurs
- Possible causes of the problem
- Any other information the Village should be aware of regarding the problem

Any questions on the petition, the traffic calming process or The Friendly Neighborhood Streets Program can be directed to:

Luke Foresman, PE
Project Engineer
847-870-5640
publicworksdept@mountprospect.org





Petition for Traffic Calming Measures

Additional Petitioners' (a minimum of 9 petitioners, or 30% of the dwelling units and commercial spaces in the initial project area, whichever is greater, plus the primary contact are required):

Print Name	Signature	Address	Phone Number	Email
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

Attach additional pages if necessary.





Exhibit D

85TH Percentile Speed Map



Village of Mount Prospect

Friendly Neighborhood Streets Program

85th Percentile Speed Map

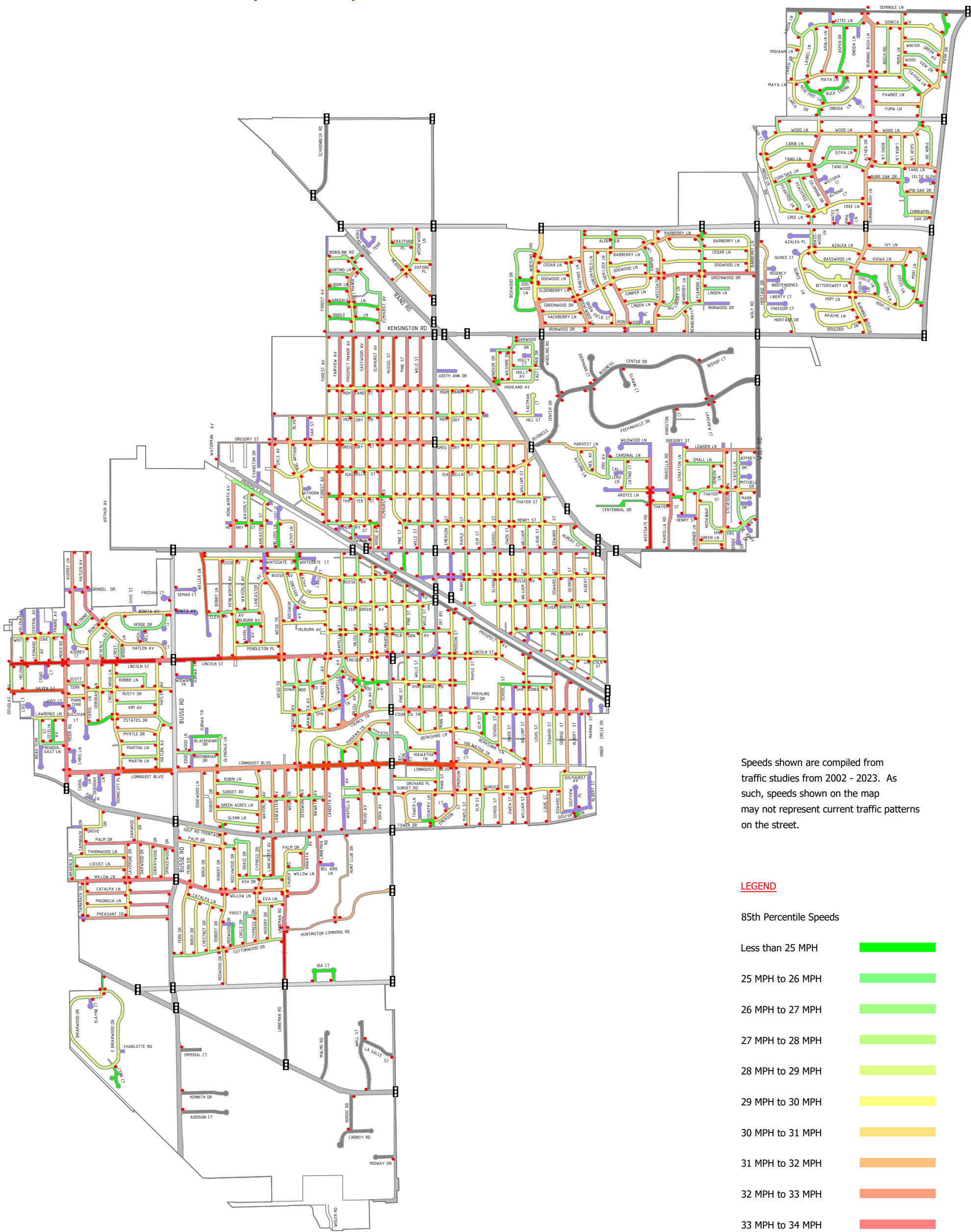




Exhibit E

Traffic Volume (ADT) Map



Village of Mount Prospect

Friendly Neighborhood Streets Program

Traffic Volume (ADT) Map

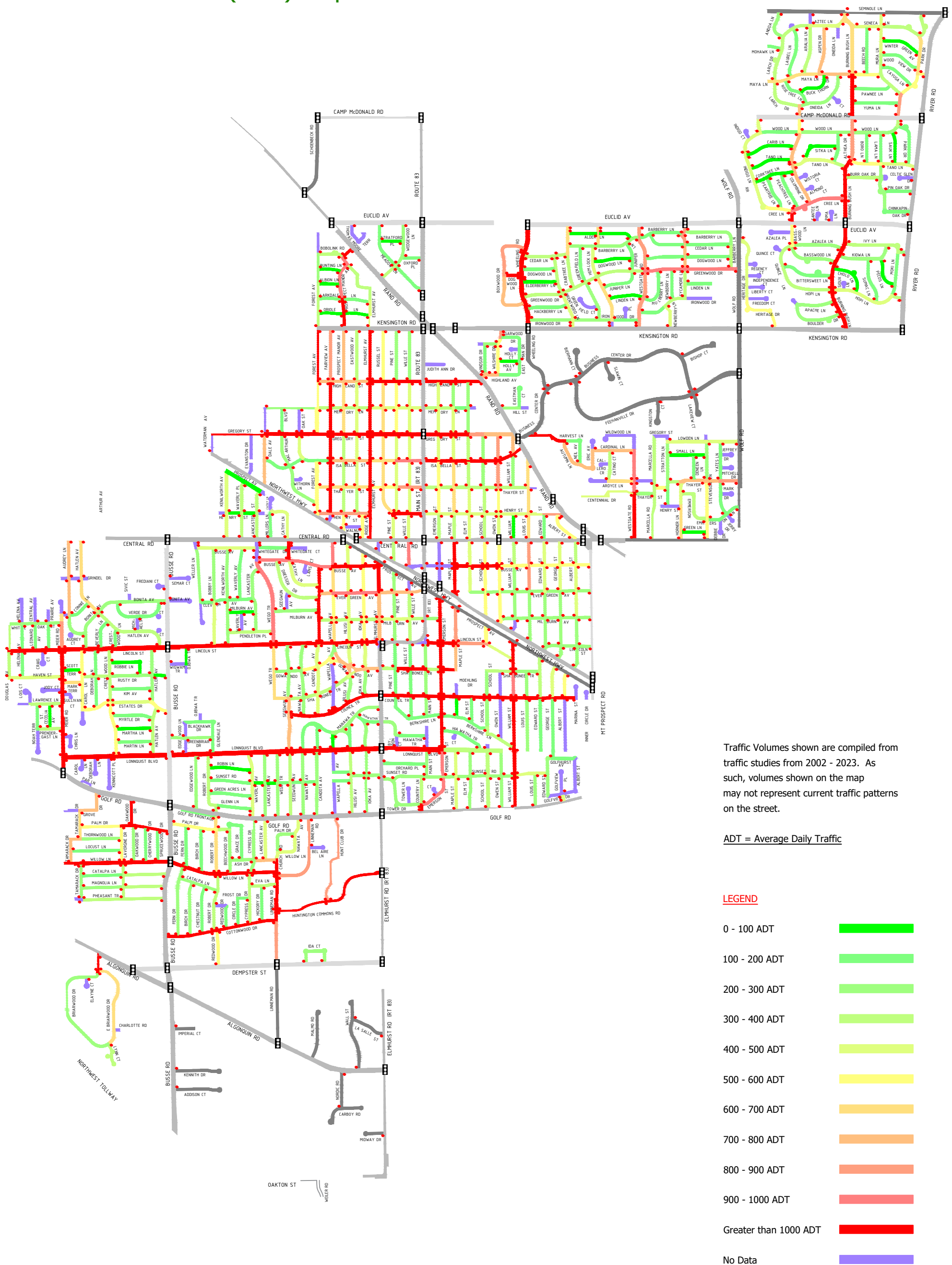




Exhibit F

Average Speed Map



Village of Mount Prospect

Friendly Neighborhood Streets Program

Average Speed Map

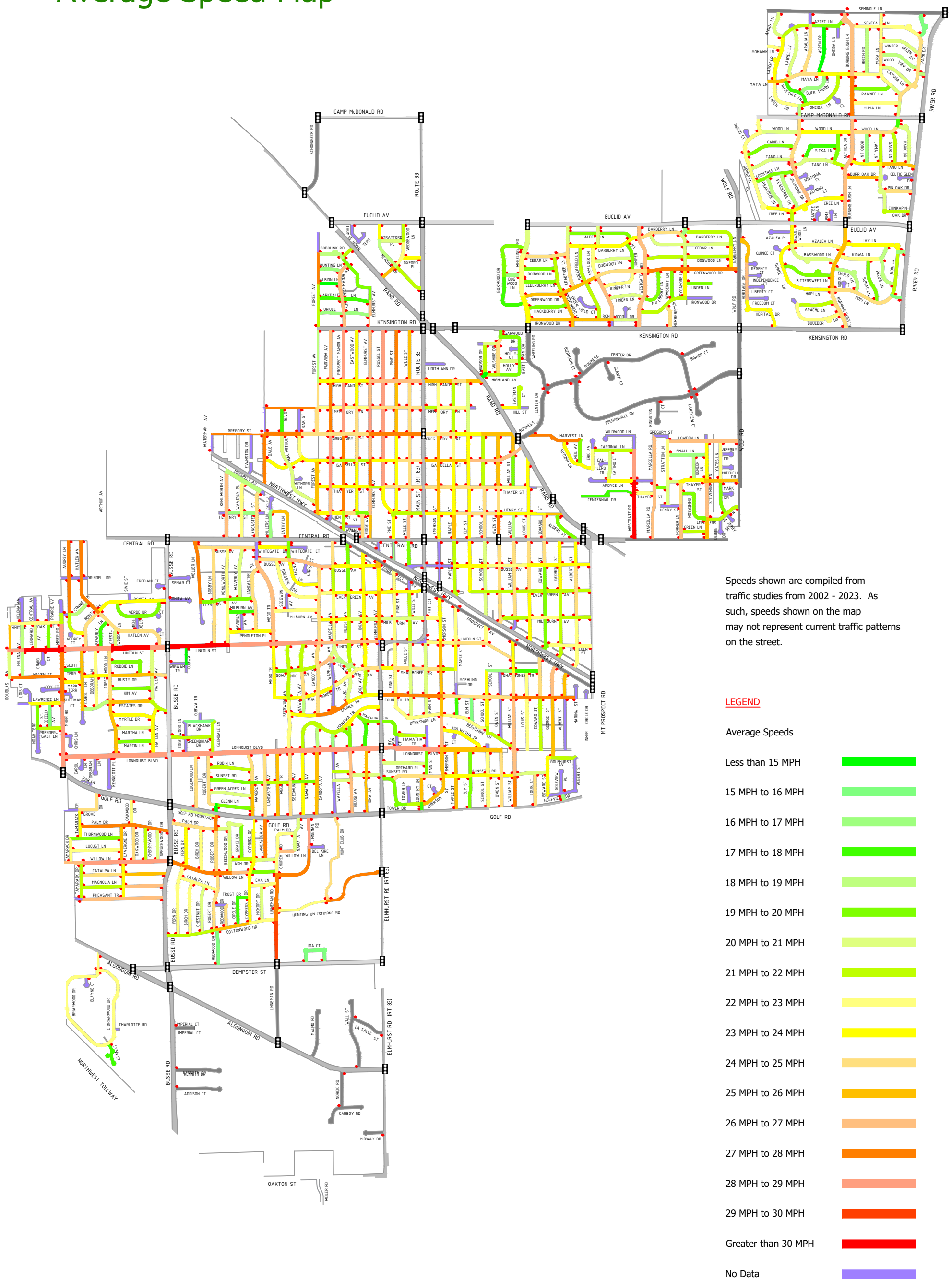




Exhibit G

Potential Traffic Calming Eligibility Map



Village of Mount Prospect

Friendly Neighborhood Streets Program

Potential Traffic Calming Eligibility Map

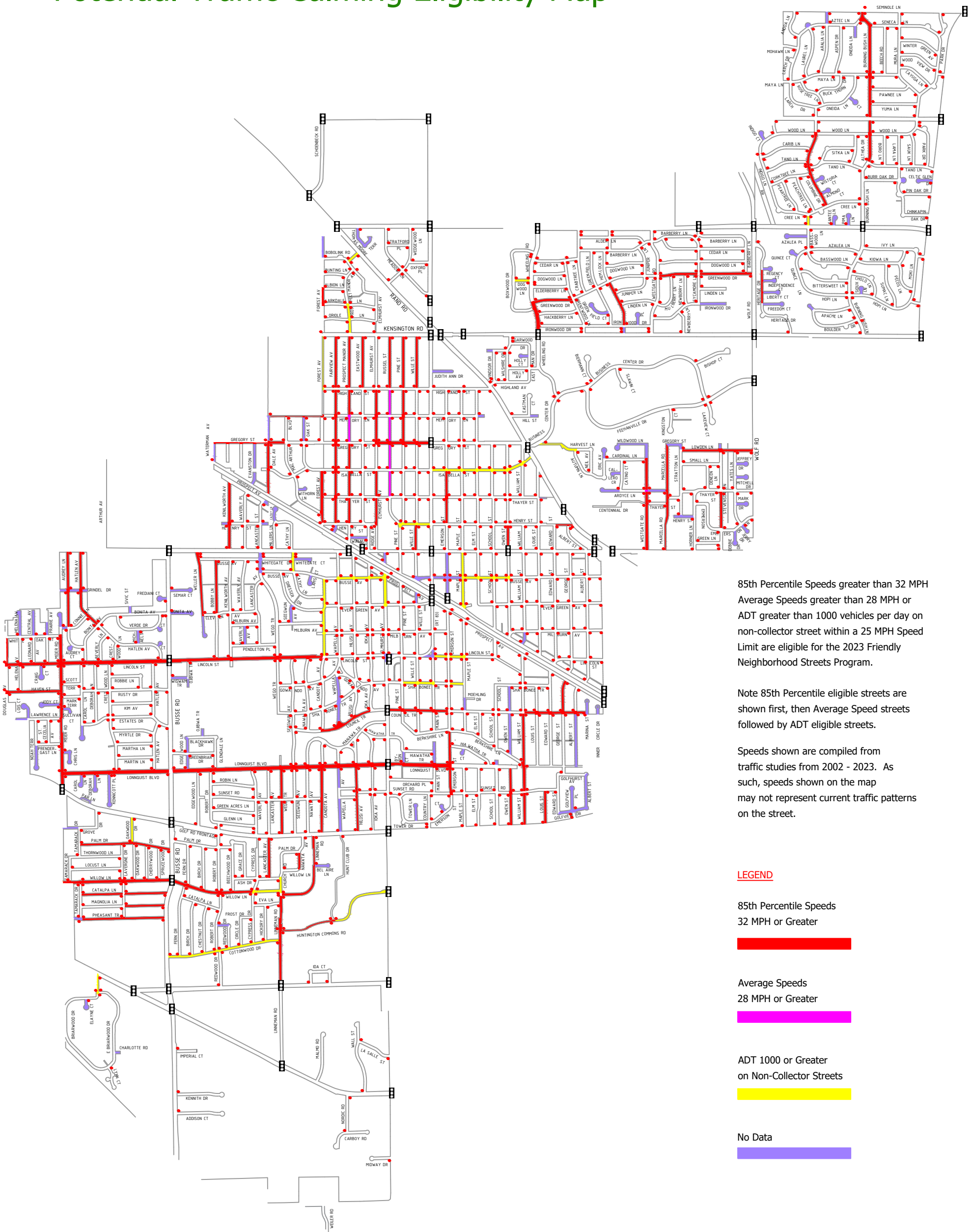




Exhibit H

Primary Emergency Vehicle Response Map



Village of Mount Prospect

Friendly Neighborhood Streets Program

Emergency Vehicle Response Map

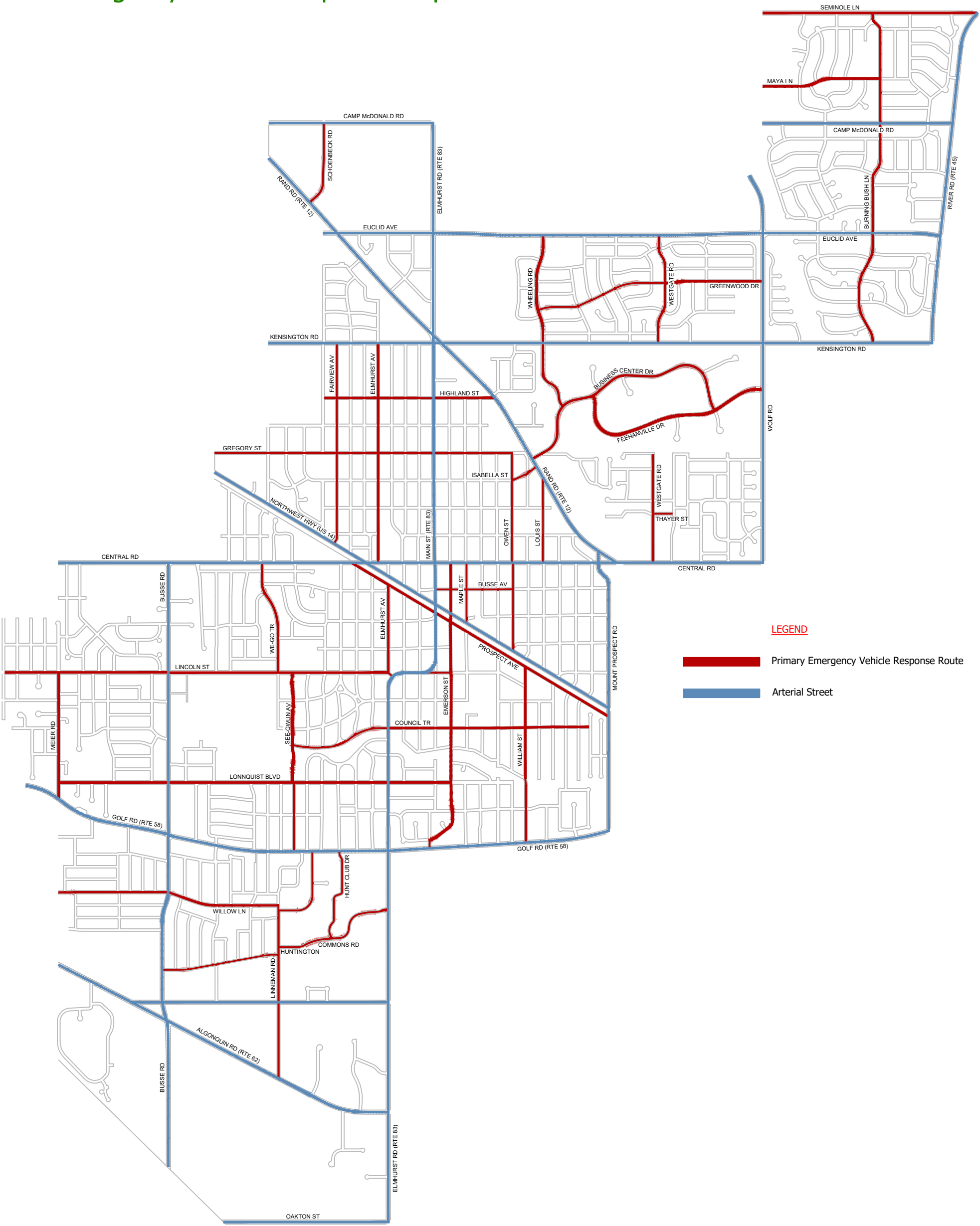




Exhibit I

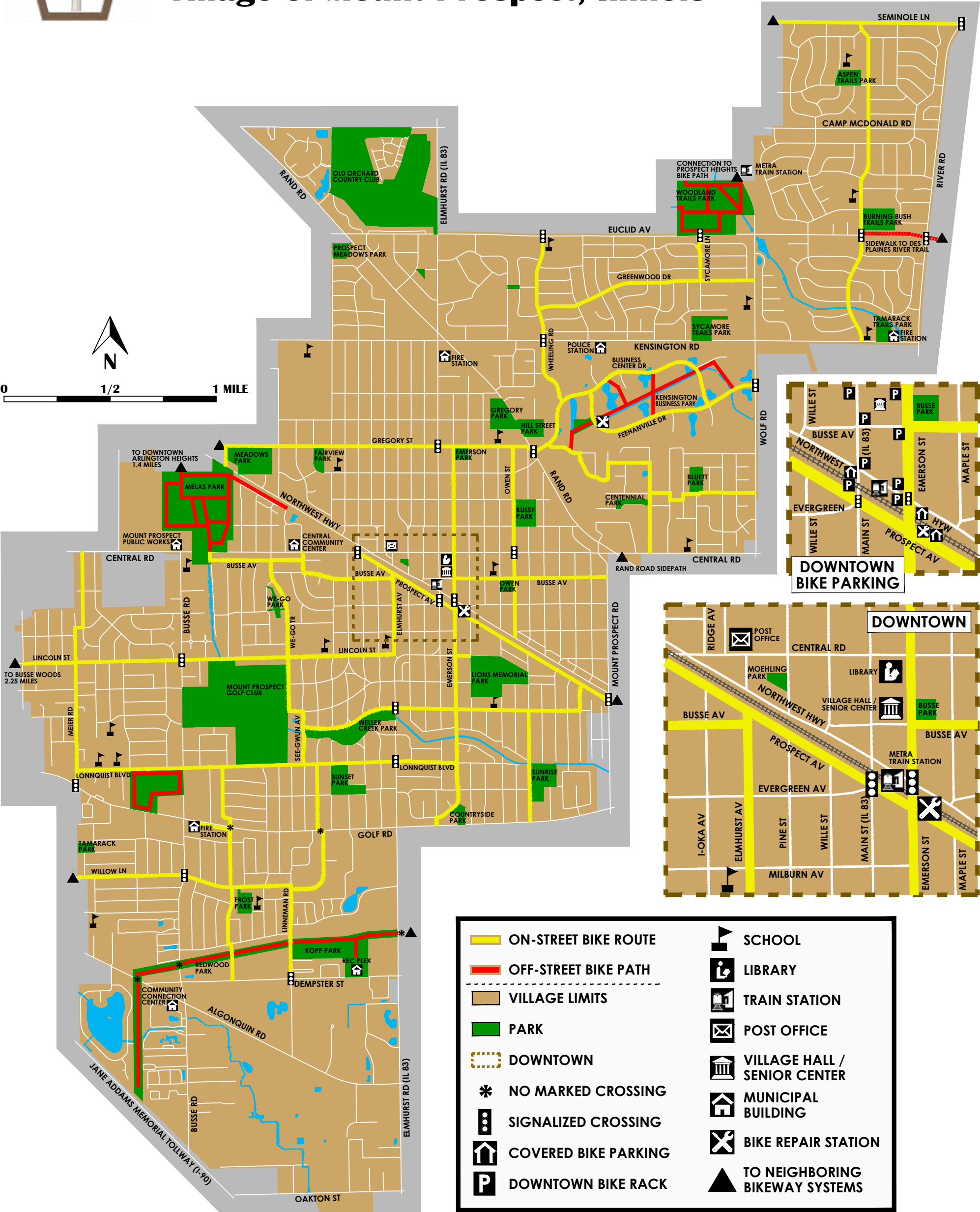
Neighborhood Bike Route Map





Bicycle Map

Village of Mount Prospect, Illinois



BIKE NETWORK AS OF OCTOBER 2022
THE VILLAGE CONTINUES TO LOOK FOR OPPORTUNITIES TO EXPAND OUR BIKE NETWORK. GO TO www.mountprospect.org/bikeplan FOR MORE INFORMATION.



Appendix A

Traffic Calming Toolbox





TRAFFIC CALMING TOOLBOX

This toolbox was developed to provide guidance on the use of various traffic calming measures acceptable in the Village of Mount Prospect. It is intended to be used in conjunction with the Friendly Neighborhood Streets Program that outlines the goals, policies and processes for addressing traffic concerns in the Village. Various traffic calming measures can be combined to create the desired result. Each page provides the following information for different traffic calming measures:

Description

An illustration and written description is provided for each measure.

Application

Each traffic calming measure is designed to address specific traffic issues. The application section outlines the common uses for each measure.

Advantages

Each measure in the toolbox provides some advantages to traffic calming and to the quality of life in the neighborhood. The advantages section outlines the positive impacts associated with each traffic calming measure.

Disadvantages

Although each measure included in the toolbox provides some positive aspects to traffic calming, each has negative impacts as well. The disadvantages are outlined so that tools can be evaluated for both their positive and negative effects.

Variations

There are often several variations of specific traffic calming measures. Several of these are provided where they are appropriate.

Special Considerations

This section offers a variety of issues that should be considered for each traffic calming measure. Emergency response and operational concerns are flagged in this section.

Cost

The cost section is intended as a general guide to costs for the different measures. Costs are based on 2023 prices. Excluded is staff design time.

Information for these traffic calming measures came from various sources listed in the References Section.





TRAFFIC CALMING MEASURES INCLUDED IN THE TOOLBOX

Below are the traffic calming measures that the Village deemed appropriate for use by, and consistent with the goals of, the Friendly Neighborhood Streets Program. This list may be updated periodically as new information is released on effective traffic calming measures. Individual measures can and will be combined to develop traffic calming strategies that work for street segments and entire neighborhoods.

Non-Physical Measures

- Education
- Enforcement
- Signing
- Pavement Markings

Vehicular Measures

Maintaining Traffic Volume

- Horizontal Deflection
 - Mini Traffic Circle
 - Concrete Planters
 - Chicane
- Constriction
 - Choke Point / Neckdown
 - Midblock Median
- Textured Pavement

Changing Traffic Volume

- Turn Restrictions
- Diverter
- Intersection Median Barrier
- Street Closure

Pedestrian Safety Measures

- Curb Extension
- Pedestrian Refuge Island
- Raised Crosswalk

Bicycle Safety Measures

- Advisory Bike Lanes
- Bike Lanes and Buffered or Protected Bike Lanes
- Bike Signage and Striping at Intersections
- Protected Intersection





TRAFFIC CALMING MEASURES EXCLUDED FROM THE TOOLBOX

Below are the traffic calming measures that the Village deemed inappropriate for use by, and inconsistent with the goals of, the Friendly Neighborhood Streets Program. This list may be updated periodically as new information is released on effective traffic calming measures and through experience with traffic calming measures installed in the Village.

Stop Signs

Stop signs are not traffic calming measures. They are traffic control devices that assign right-of-way to conflicting traffic movements at intersections. They are not to be used for speed control. Traffic studies have shown there is little difference with vehicle speeds at the midblock whether there is or is not a stop sign at the adjacent intersection. In some cases, vehicular speeds after the vehicle has passed through an unwarranted stop-controlled intersection are as high, and occasionally higher, than without a stop sign, as motorists try to “make up lost time” at the stop sign.

Stop signs should be installed only at locations where conditions meet criteria established in the Manual on Uniform Traffic Control Devices. Unwarranted stop signs can have a high violation rate, create disrespect at other stop-controlled intersections and create a false sense of security for other street users and pedestrians. The village-wide Intersection Traffic Control Study was completed in 2008; it evaluated every neighborhood intersection for appropriate traffic control. All yield signs were removed and stop signs were installed only where warranted. The program resulted in a decrease in crashes and a decrease in requests for stop signs in neighborhoods.

Children at Play Signs

Children at Play signs are commonly requested in neighborhoods. However, they are not standard traffic control devices and have not been found to be effective in improving the safety of children. Residential areas commonly have children, and the presence of these signs does not necessarily have a long-term effect on driver behavior. The Village’s policy is that such signs will only be installed adjacent to parks where there is an expectation on the driver’s part to see a concentration of children playing.

Speed Humps

Speed Humps have previously been trialed in the Village and were removed after an evaluation period due to noise, maintenance issues and resident complaints. They were replaced with textured pavement and speed feedback signs that resulted in a similar traffic calming effect. There are currently no speed humps within Village right-of-way. Due to the above issues, the Engineering Division does not deem speed humps appropriate for the Friendly Neighborhood Streets Program.





EDUCATION

Non-Physical Measure



Description

Using different media such as written material, the Village web site, meetings and one-on-one conversations, Village-generated information is provided to residents. Can include programing at schools to teach children safe ways to bike around the Village.

Application

- Streets identified by residents as experiencing excessive speeding, volume or stop sign violations
- Streets near schools
- Resident groups that wish to play an active role in easing traffic concerns along residential streets such as participation in the Keep Kids Alive – Drive 25 campaign

Advantages

- Opportunity to discuss extent of problem and appropriate course of action
- Staff able to explain program as well as criteria to qualify for traffic calming measures
- Staff and residents partner to determine appropriate solutions
- Village resources used to communicate Staff's perspective
- Solicit resident involvement to ease traffic concerns
- Educate students on proper biking procedures

Disadvantages

- Residents may not agree with Staff's perspective or recommendations

Variations: None

Special Considerations: None

Cost: Staff Time





ENFORCEMENT

Non-Physical Measure



Description

Enforcement relies on the Police Department to be a presence in neighborhoods and enforce existing speed limit and traffic control ordinances.

Application

- Streets identified by residents as experiencing excessive speeding or stop sign violations
- Streets that have a history of excessive speeding or stop sign violations

Advantages

- Effective while officer present
- Radar speed trailer and drone vehicle can lower vehicle speeds with no officer present
- Use of radar speed trailer and drone vehicle offers flexibility to implement on short notice
- Extent of problem can be discussed with residents and Engineering Division after enforcement period

Disadvantages

- Requires periodic enforcement to have long-term effect
- Staffing limitations stretches Police Department personnel and resources

Variations: None

Special Considerations

- Often helpful in school zones
- May be used during learning period when new measures or signs are first installed

Cost: Staff Time





SIGNING

Non-Physical Measure



Description

Regulatory, warning and guide signs are used to provide guidance to motorists to enhance the safety or motorists, bicyclists and pedestrians in a neighborhood. Signs can be enhanced through in-sign lighting or using speed feedback displays.

Application

- Streets identified by residents as experiencing excessive speeding or sign violations
- To promote alternative modes of transportation

Advantages

- Provides definition of traffic ordinances
- Assists Police Department in enforcement efforts
- Inexpensive approach to address a traffic problem
- Providing safe facilities may encourage more residents to walk and bike in neighborhoods
- Feedback signs help to bring awareness to actual speed of traffic on the street

Disadvantages

- Requires periodic enforcement to have long-term effect
- Unrealistic or unwarranted signs tend to be disregarded
- Use of a lot of signs can detract the look of a neighborhood

Variations: None

Special Considerations

- Consistency from street-to-street increases expectation on motorists' part

Cost: \$200 per standard sign, up to \$4,000 each for enhanced signs





Pavement Markings

Non-Physical Measure



Description

Pavement Markings define uses for different sections of the street and enhances bike and pedestrian facilities.

Application

- Streets identified by residents as experiencing excessive speeding or conflicts between motorists and alternative forms of transportation
- To promote alternative modes of transportation

Advantages

- Provides defined spaces for street users
- Visually narrows travel lanes which reduce speed
- Enhances visibility for alternative modes of transportation

Disadvantages

- Requires bi-yearly maintenance to refresh pavement markings
- Striped parking lanes may require disallowing parking on one side of a street to maintain two-way traffic
- Does not force vehicles to comply with pavement markings

Variations: Can be used on bike routes to define spaces for bikes, see Bike Safety Measures. On street speed limit, pedestrian, or school zone markings.

Special Considerations

- Consistency from street-to-street increases expectation on motorists' part

Cost: \$2 per foot, plus ongoing maintenance





HORIZONTAL DEFLECTION – MINI TRAFFIC CIRCLE

Vehicular Measure – Maintaining Traffic Volume



Description

A mini traffic circle is a raised circular median in an intersection with counterclockwise traffic flow. Vehicles must change their travel path to maneuver around the circle. They are typically landscaped and have appropriate signage to safely guide motorists.

Application

- Streets where speed control is desired
- Intersections where there is a high rate of right angle collisions

Advantages

- Reduces vehicle speeds through intersection
- Breaks up sight lines on straight streets
- Landscaping improves aesthetics at intersection
- Can reduce right angle collisions
- No drainage issues
- Minimal curb impacts at 4-way intersections

Disadvantages

- May impede left turns by large vehicles (requiring left turns in front of the circle)
- Creates physical obstruction in the travel way
- Can slow emergency vehicle response

Variations: Can include diverter islands

Special Considerations

- Fire Department and Police Department input necessary with design

Cost: Greater than \$5,000 when constructed on its own





HORIZONTAL DEFLECTION - CONCRETE PLANTERS

Vehicular Measure – Maintaining Traffic Volume



Description

Circular concrete planters are placed at intersections on approach legs (not in the middle of the intersection) as a traffic calming measure forcing vehicles to navigate around them as they enter the intersection. Planters can be filled with flowers or concrete.

Application

- Streets where speed control is desired
- Bike routes where alternative forms of transportation are prevalent

Advantages

- Reduces vehicle speeds through intersection
- Reduces turning vehicle speeds
- Breaks up sight lines on straight streets
- No drainage issues
- No curb impacts

Disadvantages

- May impede left turns by large vehicles (requiring left turns into oncoming traffic lanes)
- Creates physical obstruction in the travel way
- Can slow emergency vehicle response
- May be unsightly when not landscaped

Variations: None

Special Considerations

- Fire Department and Police Department input necessary with design

Cost: \$1,000 per planter





HORIZONTAL DEFLECTION - CHICANE

Vehicular Measure – Maintaining Traffic Volume



Description

Chicanes create a curved street alignment that is designed to fit in existing rights-of-way. The curvilinear alignment requires additional maneuvering and reduces motorists' sight line. They can be landscaped and have appropriate signage or striping to safely guide motorists.

Application

- Streets where speed control is desired
- Straight streets where reduced sight line is desired

Advantages

- Reduces vehicle speeds along street
- Breaks up sight lines on straight streets
- Landscaping improves aesthetics along street
- Minimal impact on emergency vehicle response (without median)

Disadvantages

- Requires on-street parking removal
- Snow removal, leaf pick-up and street sweeping operations may be more difficult
- Existing driveways and parkway trees may be difficult to design around
- Vehicles can still travel straight through chicane by using the oncoming travel lane

Variations: When space allows, a center island can be installed to further slow traffic to force vehicles to follow the chicane instead of driving down the middle

Special Considerations

- Curbs need to be moved so drainage will need to be considered
- Will take away some parkway space and add parkway in different areas

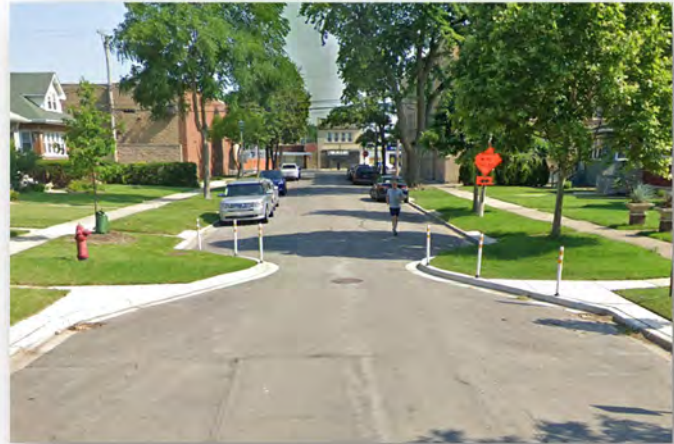
Cost: Greater than \$10,000 per chicane when constructed on its own





CONSTRUCTION – CHOKE POINT / NECKDOWN

Vehicular Measure – Maintaining Traffic Volume



Description

Choke points or neckdowns are a location on a street where existing street edges or curbs are extended towards the center of the street. These are designed so that only one vehicle can pass through the choke point at one time. They are typically landscaped and have appropriate signage to safely guide motorists.

Application

- Streets where speed control is desired
- Straight streets where reduced sight line is desired
- Entrances to neighborhood streets off arterial roads

Advantages

- Reduces vehicle speeds along street
- Breaks up sight lines on straight streets
- Landscaping improves aesthetics along street
- Minimal impact on emergency vehicle response

Disadvantages

- Requires on-street parking removal
- Snow removal, leaf pick-up and street sweeping operations may be more difficult
- Potential for bicycle conflicts when not specifically designed with bicycle accommodations

Variations: Can include crosswalk at high pedestrian crossing areas

Special Considerations

- Drainage will need to be considered as the curb lines are shifting

Cost: \$5,000 per choke point when constructed on its own without drainage improvements





CONSTRUCTION – MIDBLOCK MEDIAN

Vehicular Measure – Maintaining Traffic Volume



Description

A Midblock median is a raised island in the center of a two-way street. They are typically landscaped.

Application

- Streets where speed control is desired
- Straight streets where reduced sight line is desired
- Entrances to neighborhood streets off arterial roads

Advantages

- Reduces vehicle speeds along street
- Breaks up sight lines on straight streets
- Landscaping improves aesthetics along street
- Minimal impact on emergency vehicle response
- Minimal drainage impact

Disadvantages

- Requires on-street parking removal
- Need for ongoing maintenance
- Potential for bicycle conflicts when not specifically designed with bicycle accommodations

Variations:

- Can include crosswalk at high pedestrian crossing areas
- Small median islands can be used at intersection while maintaining on-street parking

Special Considerations

- Sight obstruction issues at intersections

Cost: \$5,000 to \$10,000 per median when constructed on its own depending on size





TEXTURED PAVEMENT

Vehicular Measure – Maintaining Traffic Volume



Description

Textured Pavement can be textured asphalt, textured concrete or brick pavers. This creates a different driving environment for motorists that can alert them to pay attention to their surroundings.

Application

- Streets where speed control is desired
- Entrances to neighborhood streets off arterial roads
- Streets where pedestrian activity is common

Advantages

- Minimal impact on emergency vehicle response
- No drainage impact
- Improved aesthetics

Disadvantages

- Minimal speed impact once drivers are used to them
- Potential for increased street noise
- Need for ongoing maintenance

Variations: None

Special Considerations: None

Cost: \$10,000 plus per installation depending on size and material





TURN RESTRICTIONS

Vehicular Measure – Changing Traffic Volume



Description

Turn restrictions limits or prohibits specific turning movements by way of signage

Application

- Streets where volume control is required
- Prevent cut through traffic by eliminating access onto a residential street

Advantages

- Reduces traffic volume on street
- Inexpensive to install
- Can be tailored to be time of day and day of week

Disadvantages

- Limits access to local homeowners
- Requires enforcement since there is no physical barrier
- Traffic may shift to an adjacent street or neighborhood

Variations:

- Can use striping, pavement markings and/or a physical barrier to emphasize turn restrictions

Special Considerations:

- Care must be taken not to shift problem to an adjacent street or neighborhood

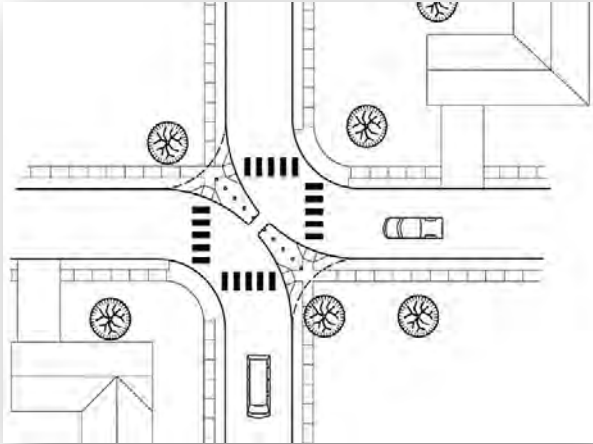
Cost: \$200 per sign





DIVERTER

Vehicular Measure – Changing Traffic Volume



Description

A diverter is a physical barrier that prevents access to specific legs of an intersection. They may or may not be landscaped but have appropriate signage to safely guide motorists

Application

- Streets where volume control is desired
- Prevent cut through traffic by eliminating entry onto a residential street

Advantages

- Reduces traffic volume on street
- Bicycle and pedestrian access still provided

Disadvantages

- Prohibits or limits access to local homeowners
- Prohibits or limits access to emergency vehicles
- Traffic may shift to an adjacent street or neighborhood

Variations:

- Full diagonal diverter bisects an intersection
- Semi-diverter prohibits access into a residential area but allows vehicles to exit

Special Considerations:

- Care must be taken not to shift problem to an adjacent street or neighborhood
- Fire Department and Police Department input necessary with design

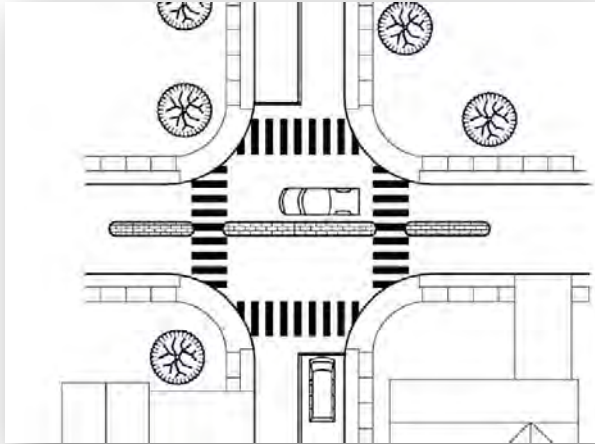
Cost: \$5,000 to \$10,000 depending on design





INTERSECTION MEDIAN BARRIER

Vehicular Measure – Changing Traffic Volume



Description

An intersection median barrier is a raised island along the center of a two-way street extending through an intersection to prevent specific turning movements with appropriate signage

Application

- Streets where volume control is desired
- Prevent cut through traffic by controlling left-turn and side street through movements

Advantages

- Reduces traffic volume on street
- Reduces potential for collisions at intersection by eliminating left-turns
- Landscaping improves aesthetics along street
- Breaks up sight lines on straight streets

Disadvantages

- Limits access to local homeowners and emergency vehicles
- Increase in U-turns at ends of medians
- May require some on-street parking removal
- Creates physical obstruction in the travel way
- Traffic may shift to an adjacent street or neighborhood

Variations: None

Special Considerations:

- Care must be taken not to shift problem to an adjacent street or neighborhood
- Fire Department and Police Department input necessary with design
- Important to maintain pedestrian and bicycle access

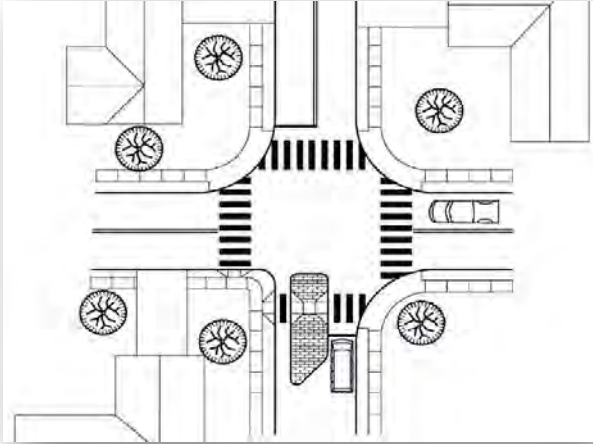
Cost: \$5,000 to \$10,000 depending on design





STREET CLOSURE

Vehicular Measure – Changing Traffic Volume



Description

A street closure is a physical barrier across a street eliminating all vehicle access. Appropriate signage is used to warn motorists of condition

Application

- Streets where volume control is desired
- Prevent cut through traffic by eliminating access onto a residential street

Advantages

- Reduces traffic volume on street
- Reduces noise associated with vehicles

Disadvantages

- Prohibits access to local homeowners
- Prohibits access to emergency vehicles
- Traffic may shift to an adjacent street or neighborhood

Variations:

- Midblock closure creating a dead-end street
- Half Closure

Special Considerations:

- Care must be taken not to shift problem to an adjacent street or neighborhood
- Fire Department and Police Department input necessary with design
- Important to maintain pedestrian and bicycle access

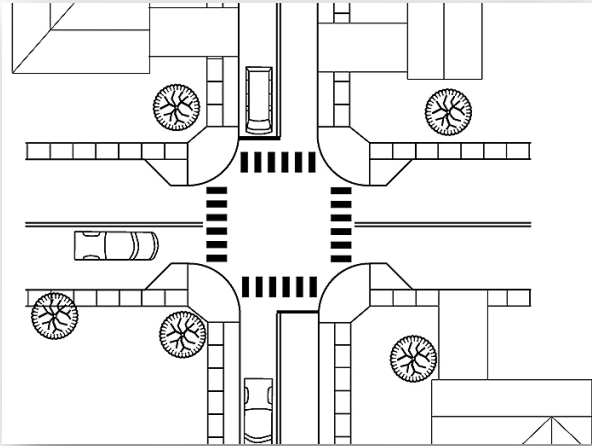
Cost: \$5,000 to \$10,000 depending on design





CURB EXTENSION

Pedestrian Safety Measure



Description

A curb extension is a segment of street narrowing at an intersection where existing street edges or curbs are extended toward the center of the street. They have appropriate signage to safely guide motorists

Application

- Wide streets with a significant amount of traffic
- Intersections where a pedestrians do or could cross the street

Advantages

- Reduces pedestrian crossing distance and time
- Makes pedestrian crossing points more visible to motorists
- Prevents on-street parking near intersection
- Minimal impact on emergency vehicle response

Disadvantages

- Snow removal, leaf pick-up and street sweeping operations more difficult
- Narrowed travel lanes may cause bicycle / vehicle conflict

Variations:

- Install on one or both intersecting streets
- Extend edge or curb on one or both sides of streets
- Decreasing radius returns size (narrowing intersection)

Special Considerations:

- Should not be used on existing narrow streets
- Drainage will need to be considered as the curb lines are shifting

Cost: \$5,000 to \$10,000 depending on design, more with drainage impacts





PEDESTRIAN REFUGE ISLAND

Pedestrian Safety Measure



Description

A pedestrian refuge is a raised island in the center of a two-way street. The island has a gap in the curb creating two segments allowing passage for pedestrians.

Application

- Wide streets with a significant amount of traffic
- Intersections or midblock locations where pedestrians do or could cross the street

Advantages

- Allows pedestrians to cross half the street at a time
- Makes pedestrian crossing points more visible to motorists
- Minimal impact on emergency vehicle response
- Minimal drainage impacts

Disadvantages

- Requires some on-street parking removal
- Narrowed travel lanes may cause bicycle / vehicle conflict
- Creates physical obstruction in the travel way

Variations:

- Use brick or textured pavement as landscaping alternative

Special Considerations:

- Should not be used on existing narrow streets without widening at the crossing
- Would not include Rectangular Rapid Flashing Beacons except on very high-volume streets

Cost: \$5,000 to \$10,000 depending on design and length of the island





RAISED CROSSWALK

Pedestrian Safety Measure



Description

A raised crosswalk is a variation of a flat-topped speed table. A raised crosswalk is marked and signed as a pedestrian crossing.

Application

- Side streets to slow turning vehicles turning off arterial roads
- Midblock locations near large pedestrian generators and schools

Advantages

- Requires cars to slow down at crosswalks
- Increases visibility of pedestrians
- No impact to on-street parking

Disadvantages

- Impacts to emergency vehicle response
- Possible drainage issues
- Increased vehicle noise
- Snow removal, leaf pick-up and street sweeping operations more difficult

Variations:

- Raised Intersections

Special Considerations:

- Fire Department and Police Department input necessary with design

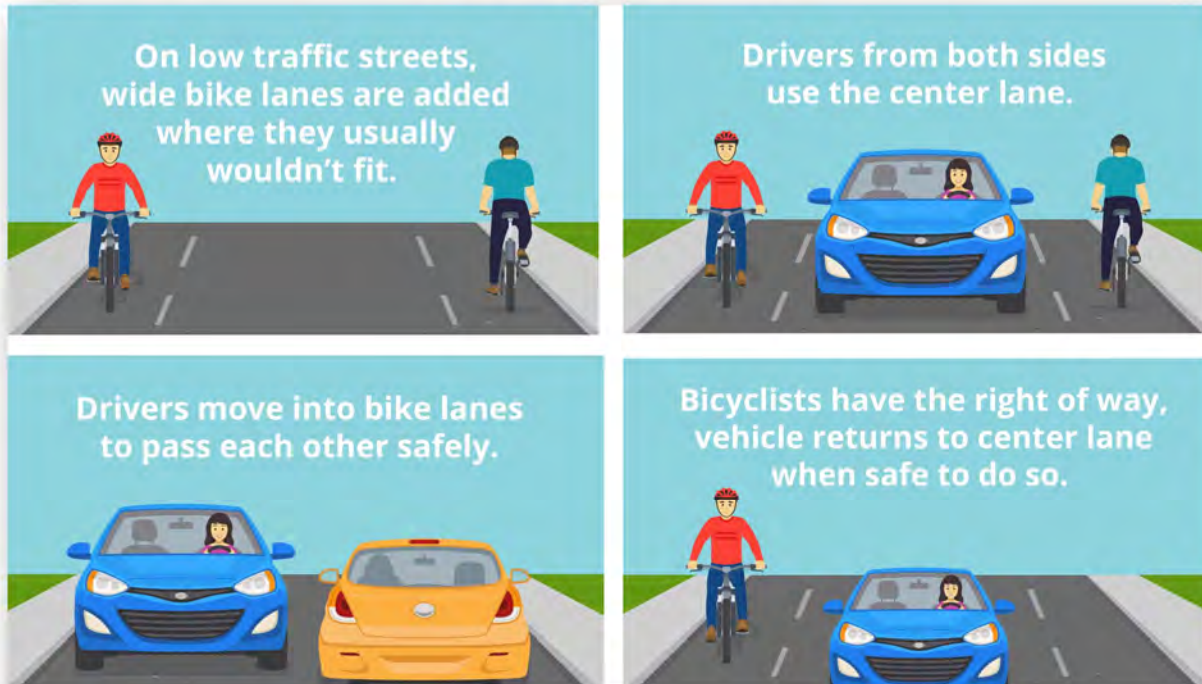
Cost: \$10,000 plus depending on design and drainage impacts





ADVISORY BIKE LANES

Bicycle Safety Measure



Description

Dashed advisory bike lanes where bicyclists have the right of way and vehicles share a center lane.

Application

- Signed bicycle routes with relatively low volume

Advantages

- Provides dedicated space for bicyclists
- No impact on emergency response
- Visually narrows the street slowing traffic

Disadvantages

- On most streets requires removal of on street parking on at least one side

Variations: None

Special Considerations:

- Education required prior to implementation of design
- Street functions similarly to when cars are parked on both sides of narrow streets

Cost: \$2 per foot for striping





BIKE LANES

Bicycle Safety Measure



Description

Bike lanes, buffered bike lanes and protected bike lanes. Buffered bike lanes include a painted buffer zone, protected bike lanes include concrete protection to separate bikes and vehicles.

Application

- Signed bicycle routes with wide street widths and high traffic volumes

Advantages

- Provides dedicated space for bicyclists
- No impact on emergency response
- Visually narrows the street slowing traffic

Disadvantages

- May require removal of on street parking depending on street width
- Requires wide streets or streets with limited parking to provide enough space for two-way traffic
- Protected bike lanes may make snow removal, leaf pick-up and street sweeping operations more difficult

Variations:

- Combined parking and bike lanes
- Two-Way Cycle Tracks
- Counterflow bike lanes

Special Considerations:

- Driveway access with protected bike lanes

Cost: \$4 per to \$10 per foot for standard and buffered bike lanes, an additional \$40 a foot for protected bike lanes





BIKE PAVEMENT MARKINGS AND SIGNAGE AT INTERSECTIONS

Bicycle Safety Measure



Description

Bike pavement markings and signage at intersections where a street crosses a signed bike route without traffic control. Many of the Village's on street signed bike routes cross streets with stop control on the bike route street only. Additional signage and pavement markings through the intersection will increase visibility and awareness for bicyclists.

Application

- Streets that intersect a bike route that does not have traffic control
- Intersections where two signed bike routes cross

Advantages

- Provides dedicated space for bicyclists
- Raises awareness to drivers that bicyclists may be present
- No impact on emergency response
- Visually narrows the street slowing traffic

Disadvantages

- Requires bi-yearly maintenance to refresh pavement markings

Variations:

- Can be combined with other intersection traffic calming measures

Special Considerations: None

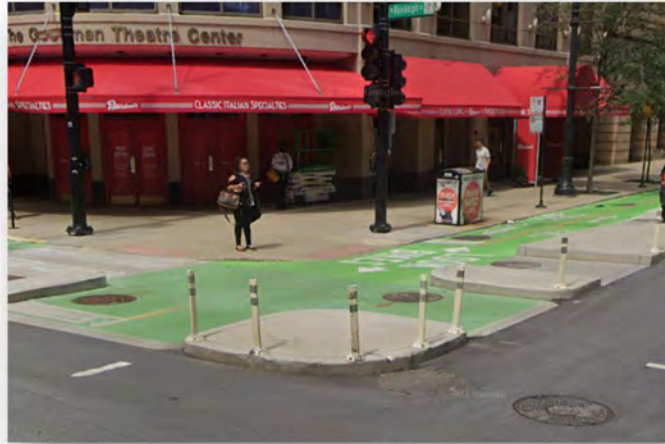
Cost: \$200 per sign, \$500 - \$4000 for pavement marking





PROTECTED INTERSECTION

Bicycle Safety Measure



Description

Protected Intersections physically separate bicyclists from motor vehicles at the corner of intersections. Concrete islands are installed at the corners providing space for bicyclists to wait and safely navigate the intersection.

Application

- Large intersections where signed bike routes meet
- Intersections with a signed bike route where traffic calming is desired

Advantages

- Provides dedicated space for bicyclists
- Separates bicyclists from pedestrians
- Slows cars by reducing the size of the intersection
- No impact on emergency response

Disadvantages

- Drainage impacts
- Potential to affect truck turning movements
- Snow removal, leaf pick-up and street sweeping operations may be more difficult
- Expensive
- Requires large amount of space to implement

Variations: None

Special Considerations: None

Cost: Greater than \$50,000 depending on design and drainage requirements



Village of Mount Prospect

Friendly Neighborhood Streets Program

Completed Traffic Calming Projects

