



July 10, 2020

Council Meeting of July 21, 2020
Subject: Norton Hills Rd- Applewood Ln Regulatory
Sign Changes - Traffic Control Order

The Honorable Mayor
And
Members of the City Council

Ladies and Gentlemen:

The intersection modifications to facilitate the smoother flow of traffic at the Norton Hills Rd. and Applewood Ln. intersection require regulatory signage changes. The changes to the flow of traffic will require the removal of STOP signs on Norton Hills Rd. for vehicles traveling both northbound and southbound with the existing STOP sign at Applewood Ln. for vehicles traveling westbound to remain.

Adoption of the attached resolution will approve a traffic control order for the regulatory sign changes at the intersections of Norton Hills Rd. and Applewood Ln.

Respectfully submitted,

Mark C. Meyers
City Administrator

JRM/sr
Attachment

Administration/City Clerk (231) 798-4391	Assessing Division (231) 799-6806	Building Division (231) 799-6801	Finance/Treasurer (231) 799-6805	Fire Prevention (231) 799-6809	Fire Department (231) 798-2255
Parks/Recreation (231) 799-6802	Planning/Zoning (231) 799-6800	Police Department (231) 733-2691	Public Works (231) 799-6803	Streets Division (231) 798-2156	Water/Sewer (231) 799-6804

RESOLUTION

NOW, THEREFORE, BE IT RESOLVED, a Permanent Traffic Control Order is approved for the following regulatory sign:

- STOP for northbound and southbound Norton Hills Rd. at Applewood Ln to be removed.
- STOP for westbound Applewood Ln. to remain.

At a regular meeting of the City Council of the City of Norton Shores, held remotely, on the 21st day of July, 2020, the foregoing resolution was moved for adoption by Council Member. The motion was supported by Council Member.

Ayes:

Nays:

Resolution declared adopted/denied.

Shelly Stibitz, City Clerk



Internal Memo

Date: June 2, 2020

To: Mark Meyers, City Administrator
Jon Gale, Police Chief

From: James R. Murphy, Director of Public Works 

Re: Intersection of Norton Hills Road & Applewood Lane, Three-Way Stop Warrant Study.

In response to a resident's concerns regarding the three-way stop at the Norton Hills Road and Applewood Lane intersection, a traffic study was performed per Section 2B.07 of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD).

The necessary data (traffic counts and police reports) was collected and the requested traffic study was performed by reviewing the following relevant justification criteria per the MMUTCD.

- Criteria A, not applicable, traffic signals not justified.
- Criteria B, Crash History
- Criteria C, Minimum Volumes
- Criteria D, Combination of Criteria B, C1 & C2

Based on these criteria, it is determined that the installation of a multi-way stop at the Norton Hills Road/Applewood Lane Intersection is not justified and that only a single stop sign should be located on Applewood Lane at the intersection.

Please note that the traffic counts were collected during the time of the COVID-19 State Stay-at-Home order which may have reduced the amount of traffic at the intersection. However, given that there are only 61 lots in the neighborhood south and east of the intersection, it is doubtful that the necessary minimums for Criteria C and D would be met.

It should be noted that Section 2B.04, paragraph 5 of the MMUTCD states that "YIELD or STOP signs shall not be used for speed control."

Attached is a copy of the warrant tables used in the determination.

If you have any questions, please feel free to contact me.

JRM

Intersection of Norton Hills Road and Applewood Lane

Multi-Way Stop Sign

Time:	Main Street SB	Main Street NB	Total		Part C Hours Met: Needs 8	Part D Hours Met: Needs 8
			Main Street	Highest Side Street		
1:00	1	0	1	0	no	no
2:00	0	0	0	0	no	no
3:00	1	0	1	0	no	no
4:00	0	0	0	1	no	no
5:00	1	1	2	4	no	no
6:00	0	0	0	1	no	no
7:00	3	1	4	11	no	no
8:00	5	2	7	3	no	no
9:00	18	5	23	2	no	no
10:00	11	2	13	7	no	no
11:00	5	7	12	8	no	no
12:00	15	6	21	8	no	no
13:00	13	7	20	18	no	no
14:00	23	3	26	9	no	no
15:00	19	3	22	4	no	no
16:00	20	10	30	12	no	no
17:00	22	13	35	9	no	no
18:00	12	2	14	9	no	no
19:00	12	4	16	8	no	no
20:00	11	4	15	4	no	no
21:00	18	1	19	0	no	no
22:00	9	0	9	0	no	no
23:00	6	0	6	1	no	no
24	2	0	2	1	no	no
	227	71		120		

- Part A: Traffic Signal not Warranted
- Part B: Number of Crashes in twelve months= 0< 5 Fails
- Part C: Main = 300+ and Minor = 200+ over same 8 hours. Fails
Speed Limit is < 45 mph, so 70% of required volumes (210/300) does not apply
Fails to meet 80% on minimum values of Parts B, C1 and C2.
(4 Accidents over 12 months, and 240+ on major & 160+ on minor over 8 hours)
Fails Multi-Way Stop Sign Warrant
- Note: Used the highest of the days recorded for each leg (April 20 - May 17, 2020).
Norton Hills Road is considered the Main Street.
Applewood Lane is considered the Side Street.

Crash Study (Criteria B)

Year>	2020	2019	2018	2016	2015	2014
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Animal						

0 Animal Accidents in 6 years

Include right turn, left turn and right angle collision

0 < 5 accidents in a 12 month period

*Accidents in this area total 3 over 6 years and not intersection related

CITY OF NORTON SHORES
4801 HENRY STREET
NORTON SHORES, MICHIGAN

TRAFFIC CONTROL ORDER # 517

CONTROLLING SPEED, PARKING AND REGULATORY SIGNS ON CITY STREETS

ORDER NO. _____

Pursuant to the provisions of Section 253 of the Uniform Traffic Code for Michigan Cities, Townships, and Villages, as amended and published as Supplement No. 54, dated February 26, 1968, and adopted by the City of Norton Shores, December 3, 1968, as Ordinance Number 91, Traffic Control Order No. _____ entitled

"TRAFFIC CONTROL ORDER CONTROLLING Stop Sign

ON THE CITY STREET " Applewood
in the City of Norton Shores, County of Muskegon, Michigan, I find the prevailing engineering and safety practices require and do, therefore, issue the following TRAFFIC CONTROL ORDER:

Westbound Applewood at Norton Hills

Wm. Valkmann
Chief of Police

11-9-84
Date

H. L. Fryer
City Administrator

Dorothy J. Harjes
City Clerk

11-9-84
Date